

MONITORING REPORT #2017
FOR THE GREATER NEW BEDFORD LFG
UTILIZATION PROJECT
DARTMOUTH, MASSACHUSETTS

FOR VERIFICATION PERIOD
JULY 1, 2016 THROUGH APRIL 30, 2017

MAY 26, 2017



Document Prepared By: CommonWealth Resource Management Corporation
For it's wholly-owned subsidiary
CommonWealth New Bedford Energy, LLC

Contact Information: Thomas Yeransian, Principal

199 Corey Street

Boston, MA 02132

Tel: (617) 327-8146 or (508) 339-3074

Project Title	Greater New Bedford LFG Utilization Project
Version	3
Report ID	138
Date of Issue	26-May-2017
Project ID	138
Monitoring Period	01-July-2016 to 30-April-2017
Prepared By	Thomas Yeransian, Principal of Commonwealth Resource Management Corporation
Contact	7 Winslow Way Mansfield, MA 02049, 508-339-3074, tyeransian@crmcx.com , www.crmcx.com

Table of Contents

1.0	Project Details
2.0	Implementation Status
3.0	Data and Parameters
4.0	Data and Parameters Monitored
5.0	Quantification of GHG Emission Reductions and Removals
Appendix A: Exhibits 1 through 7	

1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The Project is a landfill methane (a.k.a., “landfill gas” or “LFG”) capture and utilization project located at a solid waste landfill (the “Landfill”) in Dartmouth, Massachusetts. The Landfill is owned by the Greater New Bedford Regional Refuse Management District (the “District”). The owner of the Project is CommonWealth New Bedford Energy, LLC (“CNBE”), a wholly-owned subsidiary of CommonWealth Resource Management Corporation (“CRMC”), a Massachusetts corporation based in Boston, Massachusetts, U.S.A. CNBE also owns the exclusive rights to all of the LFG at the Landfill, and all of the environmental attributes associated with the collection, destruction and use of all of the LFG at the Landfill.

The Project voluntarily captures and destroys LFG methane from the Crapo Hill Landfill located in Dartmouth, Massachusetts (latitude and longitude are 41° 43' 28.12" N and 70° 59' 04.82" W, respectively). The Project captures LFG from the expanded active collection system and destroys it either via four Caterpillar 3516 engine-generator sets or a back-up open flare. The Project achieves emissions reductions through the destruction of LFG that would otherwise have been released to the atmosphere. The back-up flare did not operate for any significant period of time during the current verification period; therefore, emission reductions are not claimed from flaring.

The Project was implemented according to the description provided in the revalidated PD. The Project became operational in January 2002 with the expansion of an existing active LFG collection and destruction system. Emission reductions from the current verification period were claimed for LFG collected from the expanded active LFG collection system and destructed in the Caterpillar 3516 engine-generator sets. The back-up flare had limited operation during the current verification period and no emission reductions are claimed from flaring. CRMC claims GHG emission reductions eligible under VCS program of 73,496 metric tons of CO₂e for the verification period July 1, 2016 through April 30, 2017 including 45,697 metric tons of CO₂e of 2016 vintage and 27,799 metric tons of CO₂e of 2017 vintage.

1.2 Sectoral Scope and Project Type

The sectoral scope is renewable energy industry. The Project is not a grouped project.

1.3 Project Proponent

Provide contact information for the project proponent(s). Copy and paste the table as needed.

Organization name	CommonWealth Resource Management Corporation For it's wholly-owned subsidiary CommonWealth New Bedford Energy, LLC
Contact person	Thomas Yeransian
Title	Principal of CRMC

Address	199 Corey Street Boston, MA 02132
Telephone	(617) 327-8146 or (508) 339-3074
Email	tyeransian@crmcx.com

1.4 Other Entities Involved in the Project

None

1.5 Project Start Date

January 1, 2002

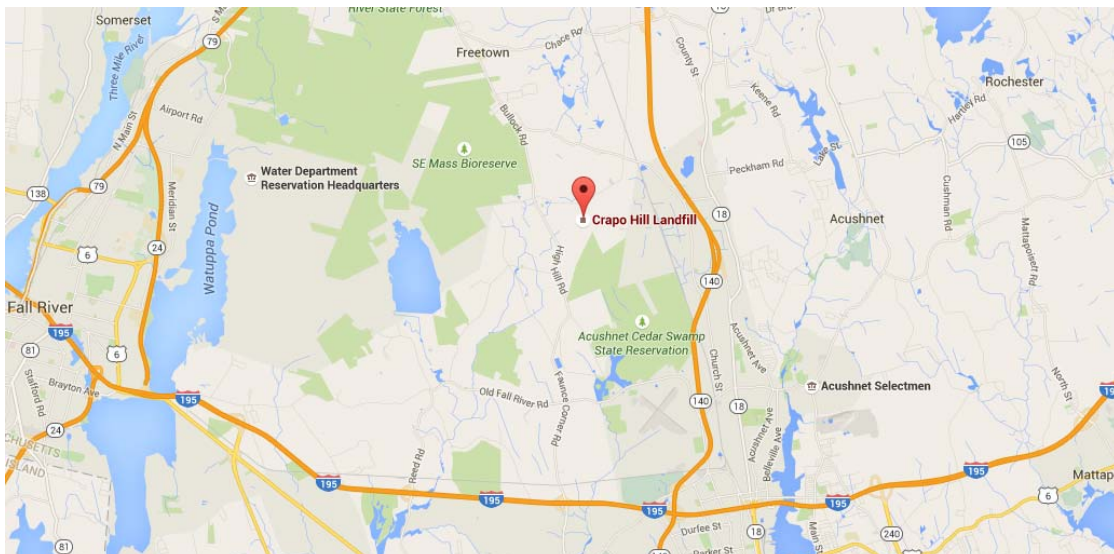
1.6 Project Crediting Period

The first Project Credit Period was a 10-year period starting March 28, 2006 and ending March 28, 2016.

The second Project Credit Period is a 10-year period starting March 29, 2016 and ending March 28, 2026.

1.7 Project Location

The Project is at the Crapo Hill Landfill located west of Samuel Barnett Boulevard in the northeast portion of the Town of Dartmouth, Massachusetts (latitude and longitude are 41° 43' 28.12" N and 70° 59' 04.82").



1.8 Title and Reference of Methodology

As outlined in the Project Description document, the VCS methodology applied to the Project was the approved consolidated baseline methodology UNFCCC's ACM0001, Version 16, "Large-scale Consolidated Methodology – Flaring or use of landfill gas".

1.9 Other Programs

- Emission Trading Programs and Other Binding Limits: Not Applicable.
- Other Forms of Environmental Credit: None. The Project has not sought or received another form of GHG-related environmental credit for the direct methane emissions reductions that result from the destruction of methane by the Project.
- Participation under Other GHG Programs: The Project is registered at the American Carbon Registry – Project ID of ACR 113. The emission reductions verified for this monitoring period will not be claimed under or registered on the ACR or any other registry.
- Renewable Energy Portfolio Programs: The Project is qualified under the Massachusetts, Connecticut, Maine and New Hampshire Renewable Energy Portfolio Programs to produce Class 1 Renewable Energy Credits in Massachusetts, Connecticut, and Maine; and Class III Renewable Energy Credits in New Hampshire. These programs and the resulting Renewable Energy Credits do not include the GHG emission reduction attributes associated with the destruction of methane.

1.10 Sustainable Development

The project is a renewable energy project that supports sustainable development in the United States.

2 IMPLEMENTATION STATUS

2.1 Implementation Status of the Project Activity

The project activity is in service.

The project activity operated normally during the monitoring period subject to this verification. The four engines destroyed landfill gas during the period. The back-up flare had very limited operation during the current verification period and no emission reductions are claimed from flaring.

2.2 Deviations

2.2.1 Methodology Deviations

The following methodology deviations were previously validated and approved for the Project:

- The SCADA system was programmed to calculate the methane gas flow in units of million British thermal units (MMBtu) using standardized gas flow (at 68°F and one atmosphere of pressure), methane concentration, the gross heat content (higher heating value) of methane, and the actual temperature and pressure. CNBE determined the volume of methane destroyed by converting the MMBtu values to total methane gas flow in standard cubic feet. This deviation from the monitoring methodology was previously approved by independent verifiers and had a conservative impact on the quantification of GHG emissions reductions during the verification period.
- The Project reference conditions are 20 degrees Centigrade and 1 atmosphere rather than ACM0001 reference conditions of 0 degrees Centigrade and 1 atmosphere.

Additional deviations from the latest methodology are:

1. A separate LFG meter is not present on each of the four combustion engines. A single meter is used immediately before the piping splits to each engine. This meter is continuously recording data. Operating data is tracked for each engine so it is possible to calculate the flow destroyed by each engine and to ensure that LFG is destroyed. Flow controls are in place to ensure no LFG is sent to an engine that is not operating. This does not affect the conservativeness of the emissions reductions claimed.
2. Ex-ante emissions reductions calculations use historic Project specific data as the basis for projecting future emissions rather than the required CDM estimation tools. Using real data allows the estimations to be more accurate and reflect actual Project operating conditions. This does not affect the conservativeness of the emissions reductions claimed but increases the accuracy of the ex-ante projections ensuring the project is forecasting obtainable, appropriate emissions reductions.
3. There is no flow meter installed on the collection pipe from the District Initial System to separately monitor the contribution of the original baseline system. Given the collection system design and meter requirements, installing a meter at this location would not produce reliable, meaningful results. Instead, well-head flow measurements are collected manually two times each month. These results are used to calculate the relative contribution of the District Initial System to the overall flow of LFG destroyed by the engines. This portion of the total flow represents $F_{CH_4, BL, y}$ and will be calculated on a monthly basis and subtracted from the total flow to account for the amount of methane destroyed in the baseline scenario. This approach represents an accurate measurement of the flow because (a) the portion of the landfill that includes the District Initial System (Phase 1) is capped so no landfill gas can be passively emitted to the atmosphere, and (b) the remaining active wells from the District Initial System are located in such a way as to enable capture of all LFG generated within the sphere of influence of the District Initial System. This deviation decreases the conservativeness of the emissions reductions claimed but significantly increases the accuracy of the calculations as is allowable under VCS Standard v3.5, Section 3.5.1.
4. The Project uses the eGrid electricity emissions factor rather than the default emissions factor provided in the CDM tool as explained in the project emissions section. This deviation decreases the conservativeness of the emissions reductions claimed but significantly increases the accuracy of the calculations as is allowable under VCS Standard v3.5, Section 3.5.1.

These deviations only apply to the monitoring and measurement portions of the Project.

2.2.2 Project Description Deviations

No new project deviations have occurred since last verification.

2.3 Grouped Project

Not Applicable.

2.4 Safeguards

2.4.1 No Net Harm

None.

2.4.2 Local Stakeholder Consultation

Provide tours of the facility to interested parties including school groups, college students, environmental advocacy groups, political leaders, etc. The project has been typically used as an example by the State of Massachusetts Clean Energy Council and Department of Environmental Protection as an important environmental project that helps to achieve the environmental, renewable energy, GHG reduction and sustainability goals of Massachusetts.

3 DATA AND PARAMETERS

3.1 Data and Parameters Available at Validation

4 DATA / PARAMETER	OX _{top_layer}
Data unit	Dimensionless
Description	Fraction of methane that would be oxidized in the top layer of the SWDS in the baseline
Source of data	Consistent with how oxidation is accounted for in the methodological tool "Emissions from solid waste disposal"
Value applied:	0.1
Justification of choice of data or description of measurement methods and procedures applied	In accordance with requirements of ACM0001
Purpose of Data	Calculation of baseline emissions
Comments	No comments

Data / Parameter	GWP _{CH4}
Data unit	T CO ₂ e / t CH ₄
Description	Global warming potential of methane
Source of data	IPCC – Second Assessment Report
Value applied:	21
Justification of choice of	Value required by VCS. Shall be updated to 25 or the latest

data or description of measurement methods and procedures applied	UNFCCC approved value as required by ACM0001 when permitted by VCS.
Purpose of Data	Calculation of baseline emissions
Comments	No comments

Data / Parameter	Regulatory requirements
Data unit	Not applicable
Description	Regulatory requirements applicable to the Landfill and Project
Source of data	Publicly available information on local, regional and national regulations
Value applied:	Not applicable
Justification of choice of data or description of measurement methods and procedures applied	Not applicable
Purpose of Data	To ensure continued compliance and regulatory additionality
Comments	This information is summarized in the PDD and will be monitored during the crediting period for any applicable changes.

Data / Parameter	Methane oxidation efficiency for electricity generation
Data unit	Percent
Description	Quantity of methane oxidized during combustion for electricity generation
Source of data	CDM Methodologies and Tools
Value applied:	100
Purpose of the data	Calculation of baseline and emissions reductions
Comments	None

Data Unit / Parameter:	Methane oxidation efficiency for flare
Data unit:	Percent
Description:	Quantity of methane oxidized during

	combustion using flare
Source of data:	VCS
Value applied:	50
Purpose of the data:	Baseline and emissions reductions
Any comment:	None

Data / Parameter	Fuel Use by the Emergency Generator
Data unit	Gallons/hour
Description	Average consumption of a 150kW generator operating at ¾ load to be used to calculate fuel consumed annually
Source of data	Diesel Service and Supply Company
Value applied:	8.4 gallons/hour
Justification of choice of data or description of measurement methods and procedures applied	Conservative for this piece of equipment given output needed vs total capacity
Purpose of the data	Calculation of project emissions
Comments	None

3.2 Data and Parameters Monitored

Data Unit / Parameter:	Methane content of gas (LFG and biogas)
Data unit:	Percent methane content of gas (LFG and biogas)
Description:	Methane content of gas (LFG and biogas)
Source of data:	SCADA System at Facility
Description of measurement methods and procedures to be applied:	Non-dispersive infrared
Frequency of monitoring/recording:	Continuous, hourly, daily
Value monitored:	Methane concentration, %
Monitoring equipment:	California Analytical 602P, Serial # S07002
QA/QC procedures to be applied:	Field calibrated once per week. A zero check and value check is performed by comparison with standard certified gas.

Data Unit / Parameter:	Methane content of gas (LFG and biogas)
Purpose of the data	Calculate baseline and emissions reductions.
Calculation method:	Used in calculation to obtain heat value of gas (LFG and biogas) in Btu per scf of gas (LFG and biogas)
Any comment:	CO2 and O2 are also continuously monitored using the same instrument.

Data Unit / Parameter:	Volume of gas (LFG and biogas) to engines
Data unit:	Actual cubic feet per minute
Description:	Quantity of gas (LFG and biogas) used to fuel engines
Source of data:	SCADA System at Facility
Description of measurement methods and procedures to be applied:	Differential pressure measured across orifice plate
Frequency of monitoring/recording:	Continuous, hourly, daily
Value monitored:	Differential pressure
Monitoring equipment:	Oripac Model 4150, Serial #30154
QA/QC procedures to be applied:	Field calibrated once per month.
Purpose of the data	Calculate baseline and emissions reductions.
Calculation method:	Fluid flow equation (Bernoulli) calculates actual cubic feet per minute of gas (LFG and biogas).
Any comment:	None

Data Unit / Parameter:	Temperature of gas (LFG and biogas) to engines
Data unit:	Degrees Fahrenheit
Description:	Temperature of gas (LFG and biogas)
Source of data:	SCADA System at Facility
Description of measurement methods and procedures to be applied:	Thermocouple
Frequency of monitoring/recording:	Continuous
Value monitored:	Temperature
Monitoring equipment:	Thermocouple, Omega or equivalent
QA/QC procedures to be applied:	Field calibrated using thermometer.

Data Unit / Parameter:	Temperature of gas (LFG and biogas) to engines
Purpose of the data	Calculate baseline and emissions reductions.
Calculation method:	Used in fluid flow equation (Bernoulli) to calculate standard cubic feet per minute from actual cubic feet per minute of gas (LFG and biogas).
Any comment:	None

Data Unit / Parameter:	Pressure of gas (LFG and biogas) to engines
Data unit:	PSIG
Description:	Pressure of gas (LFG and biogas)
Source of data:	SCADA System at Facility
Description of measurement methods and procedures to be applied:	Pressure transducer
Frequency of monitoring/recording:	Continuous
Value monitored:	Static pressure
Monitoring equipment:	Pressure transducer, Omega or equivalent
QA/QC procedures to be applied:	Field calibrated using pressure gauge.
Purpose of the data	Calculate baseline and emissions reductions.
Calculation method:	Used in fluid flow equation (Bernoulli) to calculate standard cubic feet per minute from actual cubic feet per minute of gas (LFG and biogas).
Any comment:	None

Data Unit / Parameter:	Pressure of gas (LFG and biogas) to engines
Data unit:	PSIG
Description:	Pressure of gas (LFG and biogas)
Source of data:	SCADA System at Facility
Description of measurement methods and procedures to be applied:	Pressure transducer
Frequency of monitoring/recording:	Continuous
Value monitored:	Static pressure
Monitoring equipment:	Pressure transducer, Omega or equivalent
QA/QC procedures to be applied:	Field calibrated using pressure gauge.
Purpose of the data	Calculate baseline and emissions reductions.

Calculation method:	Used in fluid flow equation (Bernoulli) to calculate standard cubic feet per minute from actual cubic feet per minute of gas (LFG and biogas).
Any comment:	None

Data Unit / Parameter:	Methane content of biogas
Data unit:	Percent methane content of biogas
Description:	Methane content of biogas
Source of data:	CRMC Bioenergy Facility (anaerobic digester system) tied to SCADA System at Facility
Description of measurement methods and procedures to be applied:	Non-dispersive infrared
Frequency of monitoring/recording:	Continuous and at totalization of biogas volume
Value monitored:	Methane concentration, %
Monitoring equipment:	Hitech Model: IR600 Infra-Red Gas Analyzer, Serial #1-09916
QA/QC procedures to be applied:	Field calibrated periodically. A value check is performed by comparison with standard certified gas.
Purpose of the data	Calculate emissions reductions.
Calculation method:	Used in calculation to obtain heat value of biogas in Btu per scf of biogas
Any comment:	None

Data Unit / Parameter:	Volume of biogas
Data unit:	Standard cubic feet per minute
Description:	Quantity of biogas added to LFG, both used to fuel engines
Source of data:	CRMC Bioenergy Facility (anaerobic digester system) tied to SCADA System at Facility
Description of measurement methods and procedures to be applied:	Differential pressure measured across a pitot tube
Frequency of monitoring/recording:	Continuous and at totalization of biogas volume

Value monitored:	Differential pressure
Monitoring equipment:	Dwyer Series DS-300 Flow Sensor, which is an averaging pitot tube
QA/QC procedures to be applied:	Field calibrated once per month.
Purpose of the data	Calculate emissions reductions.
Calculation method:	Fluid flow equation (Bernoulli) calculates actual cubic feet per minute of gas.
Any comment:	None

Data Unit / Parameter:	Temperature of biogas
Data unit:	Degrees Fahrenheit
Description:	Temperature of gas
Source of data:	CRMC Bioenergy Facility (anaerobic digester system) tied to SCADA System at Facility
Description of measurement methods and procedures to be applied:	Thermocouple
Frequency of monitoring/recording:	Continuous monitoring
Value monitored:	Temperature
Monitoring equipment:	Thermocouple, Omega or equivalent
QA/QC procedures to be applied:	Field calibrated using thermometer.
Purpose of the data	Calculate emissions reductions.
Calculation method:	Used in fluid flow equation (Bernoulli) to calculate standard cubic feet per minute from actual cubic feet per minute of gas.
Any comment:	None

Data Unit / Parameter:	Pressure of biogas
Data unit:	PSIG
Description:	Pressure of gas
Source of data:	SCADA System at Facility
Description of measurement methods and procedures to be applied:	Pressure transducer

Frequency of monitoring/recording:	Continuous
Value monitored:	Static pressure
Monitoring equipment:	Pressure transducer, Omega or equivalent
QA/QC procedures to be applied:	Field calibrated using pressure gauge.
Purpose of the data	Calculate baseline and emissions reductions.
Calculation method:	Used in fluid flow equation (Bernoulli) to calculate standard cubic feet per minute from actual cubic feet per minute of gas.
Any comment:	None

Data Unit / Parameter:	Volume of LFG to the flare
Data unit:	Standard cubic feet per minute
Description:	Quantity of landfill gas combusted in flare
Source of data:	Flare station
Description of measurement methods and procedures to be applied:	Differential pressure measured across orifice plate
Frequency of monitoring/recording:	Continuous, hourly, daily
Value monitored:	Standard cubic feet per minute
Monitoring equipment:	Omega PDF65 sqrt, Serial #57493
QA/QC procedures to be applied:	Field calibrated as required when operating.
Purpose of the data	Calculate baseline and emissions reductions.
Calculation method:	Fluid flow equation (Bernoulli) calculates standard cubic feet per minute of LFG.
Any comment:	None

Data / Parameter	Fraction of total LFG collected attributable to District Initial System
Data unit	Percentage
Description	Amount of LFG collected from the District Initial System that would have been destroyed in the baseline scenario
Source of data	Well-head measurements
Description of measurement methods and procedures to be applied	Measurements at each well-head using a hand-held instrument
Frequency of	Twice a month (approximately every two weeks)

monitoring/recording	
Value applied:	5% was used in the ex-ante calculation based on data July 2016 through March 2017
Monitoring equipment	Landtec GEM 2000 and GEM 5000
QA/QC procedures to be applied	Calibrations will be conducted prior to each set of measurements and documented.
Purpose of data	Calculation of the baseline emissions
Calculation method	LFG flows from District Initial System/Total LFG flow from all wells
Comments	None

Data Unit / Parameter	EF _{EL,Grid,y}
Data unit	tonnes CO ₂ /MWh
Description	Emission factor for electricity generation in year y
Source of data	US EPA eGRID data
Description of measurement methods and procedures to be applied	This value converted from the pounds CO ₂ /MWh provided by the US EPA.
Frequency of monitoring/recording	The eGRID data will be reviewed each year to ensure that the most current value is used.
Value applied	0.260 tonnes CO ₂ /MWh
Monitoring equipment	None
QA/QC procedures to be applied	None
Purpose of data	Calculation of project emissions
Calculation method	570.90 lbs CO ₂ /MWh*0.454545455 kg/lbs*0.001 tonnes/kg = 0.260 tonnes CO ₂ /MWh
Any comment:	None

Data Unit / Parameter	TDL Grid,y
Data unit	--
Description	Average technical transmission and distribution losses for grid in year y
Source of data	Energy Information Administration (EIA) Department of Energy (DOE) Annual Energy Review 2011: Chapter 2 Energy Consumption by Sector. P. 66

Description of measurement methods and procedures to be applied	None
Frequency of monitoring/recording	This data will be reviewed each year to ensure that the most current value is used.
Value applied	0.07
Monitoring equipment	None
QA/QC procedures to be applied	None
Purpose of data	Calculation of project emissions
Calculation method	None
Any comment	None

Data Unit / Parameter	EC Grid,y
Data unit	MWh
Description	Amount of grid electricity consumed by the project
Source of data	Bills
Description of measurement methods and procedures to be applied	CNBE staff will compile the data.
Frequency of monitoring/recording	Data will be compiled annually.
Value applied	Ex Ante Calculation: 6.3 MWh/year based on 2014 usage
Monitoring equipment	None
QA/QC procedures to be applied	None
Purpose of data	Calculation of project emissions
Calculation method	None
Any comment	None.

Data Unit / Parameter:	FC _{Diesel,y}
Data unit:	Gallons/year
Description:	Amount of diesel consumed by the emergency generator
Source of data:	Run time log
Description of measurement methods and procedures to be applied:	Plant operator will log the run time of the engine each time it is used
Frequency of monitoring/recording:	Data will be compiled annually.
Value applied:	Ex Ante Calculation: Based on 2014-2015 usage, the engine ran for 19 hours. Using a

	conservative assumption that the engine operated at $\frac{3}{4}$ load, it was assumed that the engine uses 8.4 gallons of diesel per hour run. (Technical specifications provided to validator. See Parameter in Section 5.1 of PD)
Monitoring equipment:	None
QA/QC procedures to be applied:	None
Purpose of data:	Calculation of project emissions
Calculation method:	The total run time will be multiplied by 8.4 gallons/hour to determine the total amount of diesel consumed in the year.
Any comment:	None.

Data Unit / Parameter:	NCV _{diesel}
Data unit:	MMBtu/ gallon
Description:	Energy content of the diesel
Source of data:	Draft 2011 US Greenhouse Gas Inventory Report
Description of measurement methods and procedures to be applied:	This was converted from the MMBtu/barrel data provided by the USEPA. 5.809 MMBtu/barrel
Frequency of monitoring/recording:	Annual
Value applied:	0.13831 MMBtu/ gallon See ExAnteEstimate or Annual Calculation Workbooks for conversion
Monitoring equipment:	None
QA/QC procedures to be applied:	None
Calculation method:	None
Any comment:	Values provided by the EPA will be reviewed annually to ensure this value is the most up to date value available. This value is higher than the range provided by the IPCC in its 2006 Guidelines for National Greenhouse Gas Inventories and is therefore conservative.

Data Unit / Parameter:	EF CO ₂ ,Diesel,y
Data unit:	t CO ₂ /MMBtu
Description:	CO ₂ emissions factor for diesel
Source of data:	Draft 2011 US Greenhouse Gas Inventory Report
Description of measurement methods and	This was converted from the Tg C/Qbtu data

procedures to be applied:	provided by the US EPA. See <i>ExAnteEstimate</i> or <i>Annual Calculation Workbooks</i> for conversion
Frequency of monitoring/recording:	Annual
Value applied:	0.073957 t CO ₂ /MMBtu
Monitoring equipment:	N/A
QA/QC procedures to be applied:	N/A
Calculation method:	N/A
Any comment:	Values provided by the EPA will be reviewed annually to ensure this value is the most up to date value available.

3.3 Monitoring Plan

Critical for the accuracy and transparency of the calculation is that:

1. Measurements of gas flows are undertaken with reliable equipment that is regularly calibrated;
2. Sampling of Methane concentration in gas is undertaken with reliable equipment that is regularly calibrated;
3. Sampling of Methane concentration in gas takes place with a frequency that is sufficient to calculate average concentration factors that are statistically unbiased (i.e. they reflect the actual methane concentration of the gas);
4. Measurements of gas flows are undertaken at least on a monthly basis and are as frequent as necessary to apply statistically valid methane concentration factors (as described in (3), above);
5. Measurement and calibration equipment and processes and changes thereof are clearly described as part of the GHG emissions reporting process.

Unless otherwise specified through the GHG emissions reporting process, the following system is assumed to be in place.

3.3.1 Data Collection

At the Facility, the Supervisory Control and Data Acquisition (SCADA) system measures and records methane content and gas (LFG and biogas) volume to the engines and flare once per minute, and then calculates methane quantities each minute. The results are then accumulated to provide hourly and daily totals in units of million British thermal units on a higher heating value basis [MMBtu (HHV)] and thousand standard cubic feet (KSCF) of LFG. This data point provides information regarding the mixed landfill gas and biogas from the CRMC Bioenergy Facility (anaerobic digester system).

The same calculation is made using data from the biogas feed pipe. The difference between the total Btus entering the engines and the total Btus received from the biogas facility is the quantity attributed to the LFG collected and is used in the calculations described previously in the PDD. Because the calculations for this project are based on the use of Btus rather than metric tonnes of methane as discussed in the deviation section, the value obtained by this approach is not skewed by the mixing of the gases prior to the measurement of the gas entering the engines.

Flow Measurements

The flow meters are located directly upstream of the destruction devices. One flow meter serves as the unit for flow meter measurements to the four engines, one unit for flow measurement of the biogas, and one unit for flow meter measurements to the flare. Each flow meter is equipped with a totalizer that indicates the cumulative actual cubic feet of gas that have passed through that flow meter.

The Project uses an orifice plate flow meter purchased directly from its manufacturer, Lambda Square Inc for the engine measurements. The orifice plate flow meter is an Oripac® Model 5300 that determines flow based on pressure differentials measured across a 5-inch diameter bore pressure differential plate installed in the Project's 8-inch diameter LFG pipe. The design data for the instrument specifies an accuracy of ± 0.6 percent of full scale and the capability of measuring flows from 0 to 1,600 actual cubic feet per minute. The performance of the instrument in the field is assured by the manufacturer on the basis of bench scale testing in accordance with applicable design and methodologies prescribed by the International Standards Organization (ISO) and the American Society of Mechanical Engineers (ASME).

The Project uses an Omega PDF65 flow meter for measuring flow to the flare and a Dwyer Series DS-300 Flow Sensor, which is an averaging pitot tube, for measuring flow of the biogas.

Methane Measurements

The methane content of the gas (LFG and biogas), on a percent volume basis, is measured at a sampling port in the main header pipe near the flow meter with the use of a California Analytical Instrument Non-dispersive infrared (NDIR) analyzer. The readings are also logged by the SCADA system once per minute.

The methane content of the biogas is measured using a Hitech Model: IR600 Infra-Red Gas Analyzer.

Wellfield Measurements

Typically twice a month, a trained operator balances the landfill gas collection wellfield. During balancing the system, the operator measures and records the methane content, carbon dioxide content, oxygen content, landfill gas flow rate, landfill gas temperature, static pressure, and balance gas content. These results are logged in an electronic file to document system performance as well as to determine the percent contribution of LFG from the District Initial System.

Meter Calibrations

On installation, CNBE performed initial calibrations of the instruments, under actual field conditions using the USEPA Protocols described below. As a back-up to the flowmeter measurements, actual quantities of LFG destroyed in the Project engine-generators can be accurately calculated based on (a) the known engine heat rate (the number of British Thermal Units (Btus) required to produce a kilowatt hour electric power, (b) the measured heat content of the LFG fuel, and the metered electric power output of the Project.

CNBE performs calibration of the orifice plate flow meter at least quarterly and often monthly. CNBE follows the USEPA-promulgated test methods (USEPA Protocols) for determining flow rates of gas through pipes at 40 CFR 60 Appendix A, including (a) Method 1a - sample and velocity traverses for stationary sources with small stacks or ducts, and (b) Method 2c - determination of gas velocity and volumetric flow rate in small stacks or ducts (standard pitot tube). The USEPA Protocols were established by the USEPA to accurately determine the volumetric flow rates of gases through pipes at industrial facilities to determine compliance with permit limitations on process and exhaust gases.

The calibration is performed by measuring the flow at a point near the orifice flow meters. A pitot tube attached to a manometer measures the flow. The pitot tube is inserted into the pipe and several points are measured across the full diameter of the pipe. The measurements taken by the pitot tube and manometer include velocity pressure and static pressure. Other measurements taken during calibration include gas temperature and barometric pressure.

Each week or more frequently as necessary, CNBE calibrates methane concentration measured on an automated basis by a California Instruments NDIR Analyzer installed at the Project, and any hand-held instrument that may be used in addition to the NDIR Analyzer is calibrated prior to its use. CNBE has found that weekly calibrations are sufficient to provide accurate measurements because of the reliable performance of the instrument, and the stringent dependence of engine operations on the accuracy of the methane measurements. CNBE typically experiences a weekly variance in the accuracy of methane content readings of one percent or less, which readings are measured by the California Instruments NDIR Analyzer and compared to readings from a certified standard gas containing a known methane concentration.

Another performance measure that is a further check and balance of methane content is the calculation of efficiency of the operating engine-generator sets, which is calculated daily and does not vary by more than approximately five percent during normal operations.

Biogas meters are calibrated as outlined in the relevant parameters.

3.3.2 Organizational structure, responsibilities and competencies

CNBE owns and manages the operations of the Facility and is responsible for oversight of operations and data collection, calculating emissions reductions and ensuring proper Project documentation. CNBE personnel have extensive experience in these areas. They have successfully implemented the Project over many years and have had no employee turnover.

CNBE contracts an operating company to conduct the operations and maintenance of the Facility. The operating company employs a full-time operator to conduct operations, maintenance, inspections, calibrations, monitoring and record-keeping at the facility. The operator receives training on the necessary tasks and has a task reminder calendar to ensure duties are performed at the appropriate time.

3.3.3 Recordkeeping

The SCADA system creates a Microsoft Excel file that contains the hourly and daily totals of landfill gas flow, landfill gas heat value, landfill gas methane content, operating hours of each engine, gross power output of each engine, gross and net power output of the facility. This file is created each day at mid-night for the prior 24-hour period. The file is automatically stored on the SCADA system computer. This file can be accessed remotely or at the facility. The file is manually copied from in its entirety and pasted into the monthly quantification excel spreadsheet. No individual pieces of data are manually entered. The files are backed up at the Facility and off-site.

The SCADA systems also records all biogas data which is also transferred in its entirety and used in calculating the landfill gas values for determining Project emissions reductions.

Operator records including the Facility operation logs, maintenance logs and manually recorded data logs are maintained at the Facility. Operator records also include the log noting the run time of the emergency generator.

3.3.4 Internal Review

The Project uses several layers of review to ensure proper operations, data collection and quantification of emissions reductions.

The monthly quantification spreadsheet calculates several key performance parameters each day that are compared a few times per week to the expected performance range of each parameter. If the calculations show a significant deviation, corrective actions are taken. Corrective actions involve repairing equipment that is performing outside its normal range or correcting data that may have been reported in error. Equipment problems and corrective actions are noted in the “Service Section” of the monthly reports. CNBE includes notes to fully explain the problem and corrective action to the extent necessary. This information also identifies any deviations from this monitoring plan which can then be recorded in the verified Monitoring Report.

CNBE has established monthly operations meetings at the Facility between CNBE’s contract operator and the owners of CNBE. During each monthly meeting CNBE and the operator review the prior month operations performance including the production reports, work order list, unscheduled repairs and maintenance, and routine maintenance; the current month’s additions to the work orders that would prevent and correct deficiencies discovered and make overall improvements in performance of the Facility; review reports including monthly outage report, methane calibration logs, exhaust gas oxygen logs, lubricating oil logs, spare parts inventory report and others that may be relevant. In addition, CNBE meets with the District to review the status of the LFG collection system performance and work required to prevent and correct deficiencies discovered and make overall improvements in performance of the system.

CNBE annually calculates the project emissions from electricity use and emergency generator use as outlined in the PD.

4 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS**4.1 Baseline Emissions**

See attached Exhibits 1 through 4.

4.2 Project Emissions

See attached Exhibits 1 through 4.

4.3 Leakage

See attached Exhibits 1 through 4.

4.4 Net GHG Emission Reductions and Removals

See attached Exhibits 1 through 4.

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2016 (July 1 - Dec. 31)	45,697	0	0	45,697
2017 (Jan. 1 - Apr 30)	27,799	0	0	27,799
Total	73,496	0	0	73,496

APPENDIX A: SEE ATTACHED EXHIBITS 1 THROUGH 7.

1. Exhibit 1 summarizes the emission reductions credits in CO2 equivalent tons in accordance with Project Methodology from July 1, 2016 through April 30, 2017.
2. Exhibit 2 provides gas totalizer readings, and methane content readings for the period from July 1, 2016 through April 30, 2017, and calculations using the verification protocols under the VCS to obtain emission reductions from methane oxidation during energy generation.
3. Exhibit 3 provides LFG totalizer readings, and methane content readings for the periods from July 1, 2016 through April 30, 2017, and calculations using the verification protocols under the VCS to obtain emission reductions from methane oxidation during flaring.
4. Exhibit 4 provides the key factors, equations, and calculation of VCUs in accordance with the approved consolidated baseline methodology ACM0001, Version 16.0 "Large-scale Consolidated Methodology – Flaring or use of landfill gas" dated 16 October 2015 as promulgated by the United Nations Framework Convention of Climate Change (UNFCCC) under the Clean Development Mechanism (CDM).
5. Exhibit 5 is a compilation of the field data logs recording the total gas volumes and methane content readings for the identified reporting periods.
6. Exhibit 6 documents calibration of the LFG and biogas flow rates and composition meters for the periods.
7. Exhibit 7 provides Attestation Statement

Exhibit 1

Emission reductions credits in CO2 equivalent tons in accordance with
Project Methodology from July 1, 2016 through April 30, 2017.

EXHIBIT 1
CommonWealth New Bedford Energy LLC
Greater New Bedford LFG Utilization Project
Dartmouth, Massachusetts
Calculation of Verified Emission Reduction Credits in CO2 equivalent tons
in accordance with the Project Methodology

Key parameters used in calculations

Parameter	<u>VCS</u>
Methane oxidation efficiency electricity generation	100.0%
Methane oxidation efficiency LFG flaring	50.0%
Methane, molecular weight	16
Pounds per metric ton	2,205
Gas constant (scf per lb-mole)	385
Global Warming Potential (GWP) methane	21

Summary results

	Unit	
Electricity generation		
Start date		1-Jul-16
End date		30-Apr-17
Methane delivered	scf	212,219,676
Emission Reductions	metric tons CO2e	83,995
Flaring		
Start date		1-Jul-16
End date		30-Apr-17
Methane delivered	scf	-
Emission Reductions	metric tons CO2e	-
Subtotal		
Methane delivered	scf	212,219,676
Emission Reductions	metric tons CO2e	83,995
Deductions		
Oxidation potential	metric tons CO2e	8,400
District Initial System	metric tons CO2e	2,100
Electricity use utility and diesel backup	metric tons CO2e	-
Total		
Emission Reductions eligible under VCS program	metric tons CO2e	73,496

Exhibit 2

Gas totalizer readings, and methane content readings for the period from July 1, 2016 through April 30, 2017, and calculations using the verification protocols under the VCS to obtain emission reductions from methane oxidation during energy generation.

EXHIBIT 2
CommonWealth New Bedford Energy LLC
Emission Reductions from methane oxidation during energy generation

Physical constants:	
Methane, molecular weight (lb per lb-mole)	16
Pounds to metric ton	2,205
Gas constant, scf per lb-mole	385

Calculation of Verified Emission Reduction in CO2 equivalent tons per the following:
Verification Process: UNFCCC's CDM methodology ACM0001 (Version 16)
Standard of Verification: Verified Carbon Standard Version 3, October 19, 2016, v3.6

Begin period - date	End period - date	Totalizer reading end period	Totalizer reading start period	Total in period	Methane delivered to engines	Methane delivered cumulative	Methane delivered in the period	Methane delivered in the period cumulative	Methane oxidation efficiency	MD electricity, Mass methane destroyed in the period	MD electricity, Mass methane destroyed cumulative	Global warming potential methane	Emission reduction	Emission reduction cumulative
mm/dd/yy	mm/dd/yy	MMBtu HHV	MMBtu HHV	MMBtu HHV	scf	scf	metric tons	metric tons	%	metric tons	metric tons	tons CO2 equivalent per ton methane	CO2 equivalent metric tons	CO2 equivalent metric tons
1-Jul-16														
1-Jul-16	31-Jul-16	21,986	-	21,986	21,725,296	21,725,296	409	409	100.0%	409	409	21	8,599	8,599
1-Aug-16	31-Aug-16	45,258	21,986	23,272	22,996,047	44,721,344	433	843	100.0%	433	843	21	9,102	17,700
1-Sep-16	30-Sep-16	66,520	45,258	21,262	21,009,881	65,731,225	396	1,239	100.0%	396	1,239	21	8,316	26,016
1-Oct-16	31-Oct-16	88,195	66,520	21,675	21,417,984	87,149,209	404	1,643	100.0%	404	1,643	21	8,477	34,493
1-Nov-16	30-Nov-16	110,943	88,195	22,748	22,478,261	109,627,470	424	2,066	100.0%	424	2,066	21	8,897	43,390
1-Dec-16	31-Dec-16	133,533	110,943	22,590	22,322,134	131,949,605	421	2,487	100.0%	421	2,487	21	8,835	52,225
1-Jan-17	31-Jan-17	155,486	133,533	21,953	21,692,688	153,642,292	409	2,896	100.0%	409	2,896	21	8,586	60,811
1-Feb-17	28-Feb-17	174,692	155,486	19,206	18,978,261	172,620,553	358	3,253	100.0%	358	3,253	21	7,511	68,322
1-Mar-17	31-Mar-17	195,373	174,692	20,681	20,435,771	193,056,324	385	3,639	100.0%	385	3,639	21	8,088	76,411
1-Apr-17	30-Apr-17	214,766	195,373	19,393	19,163,352	212,219,676	361	4,000	100.0%	361	4,000	21	7,585	83,995

<u>MMBtu HHV</u>		Baseline emissions or removals, metric tons CO2e		Project emissions or removals metric tons CO2e	Net GHG emission reductions or removals metric tons CO2e
2016	133,533	62%	45,697	-	45,697
2017	<u>81,233</u>	<u>38%</u>	<u>27,799</u>	-	<u>27,799</u>
	214,766	100%	73,496	-	73,496

Exhibit 3

LFG totalizer readings, and methane content readings for the periods from July 1, 2016 through April 30, 2017, and calculations using the verification protocols under the VCS to obtain emission reductions from methane oxidation during flaring.

EXHIBIT 3
CommonWealth New Bedford Energy LLC
Calculation of Verified Emission Reduction in CO2 equivalent tons per the Project Methodology
Emission Reductions from methane oxidation from **LFG flaring**

Physical constants:	
Methane, molecular weight (lb per lb-mole)	16
Pounds to metric ton	2,205
Gas constant, scf per lb-mole	385

Calculation of Verified Emission Reduction in CO2 equivalent tons per the following: Verification Process: UNFCCC's CDM methodology ACM0001 (Version 16) Standard of Verification: Verified Carbon Standard Version 3, October 19, 2016, v3.6																
	Methane oxidation efficiency	MD flare, Mass methane destroyed in the period	MD flare, Mass methane destroyed cumulative	Global warming potential methane	Emission reduction	Emission reduction cumulative	PE flare, Project emissions (uncontrolled emissions to atmosphere from flare)	PE flare, Project emissions cumulative (uncontrolled emissions to atmosphere from flare)								
	%	metric tons	metric tons	tons CO2 equivalent per ton methane	CO2 equivalent metric tons	CO2 equivalent metric tons	CO2 equivalent metric tons	CO2 equivalent metric tons								
0	50%	-	-	21	-	-	-	-								
0	50%	-	-	21	-	-	-	-								
0	50%	-	-	21	-	-	-	-								
0	50%	-	-	21	-	-	-	-								
0	50%	-	-	21	-	-	-	-								
0	50%	-	-	21	-	-	-	-								
0	50%	-	-	21	-	-	-	-								
0	50%	-	-	21	-	-	-	-								
0	50%	-	-	21	-	-	-	-								
0	50%	-	-	21	-	-	-	-								
0	50%	-	-	21	-	-	-	-								

Exhibit 4

The key factors, equations, and calculation of VCUs in accordance with the approved consolidated baseline methodology ACM0001, Version 16.0 "Large-scale Consolidated Methodology – Flaring or use of landfill gas" dated 16 October 2015 as promulgated by the United Nations Framework Convention of Climate Change (UNFCCC) under the Clean Development Mechanism (CDM).

EXHIBIT 4**EX Ante Estimates of Annual Emissions Reductions**

	Formula variables	Value used	Units	Source if appropriate
$ER_y = BE_y - PE_y$				
	BE_y	see below	tCO2e/period	
73,496	PE_y	0.00	tCO2e/period	See Electricity Tab + Emergency Generator Tab
$BE_y = BE_{CH4,y}$				
73,496	$BE_{CH4,y}$	see below	tCO2e/period	
$BE_{CH4,y} = ((1 - OX_{top_layer}) \times F_{CH4,PJ,y} - F_{CH,BL,y}) \times GWP_{CH4}$				
	OX_{top_layer}	0.1		ACM001 Methodology value
73,496	GWP_{CH4}	21	tCO2e / tCH4	IPCC Value - 2nd assessment report
	$F_{CH4,PJ,y}$	see below	t CH4/period	
	$F_{CH,BL,y}$	see below	t CH4/period	
$F_{CH4,PJ,y} = F_{CH4,flared,y} + F_{CH4,EL,y}$				
	$F_{CH4,flared,y}$	0	t CH4/period	See Exhibit 3 tab
4,000	$F_{CH4,EL,y}$	4000	t CH4/period	See Exhibit 2 tab
$F_{CH4,BL,y} = F_{CH4,BL,sys,y}$				
$F_{CH4,BL,sys,y} = \%DistrictInitialSystem \times F_{CH4,PJ,y}$				
	%DistrictInitialSystem	5%		See DistrictInitialSystemTab
100	$F_{CH4,PJ,y}$	see above 50%	t CH4/period Methane oxidation efficiency for flare	

Supporting Information for Exhibit 4

Electricity Consumption Project Emissions

$PE_{EC,y} = EC_{PJ,Grid,y} * FE_{EL,Grid,y} * (1 + TDL_{Grid,y})$

0.00 tCO2

Variable	Value	Units	Data Source
ECPJ,Grid, y	0	MWhr	See Nstar bill
FEEL,Grid,y	0.289955	tonnes CO2/MWh	USEPA Conversions tab/eGrid data
TDLGrid,y	0.07	None	EIA Annual Energy Report 2011

DIGGING? HITTING AN UNDERGROUND WIRE OR PIPE CAN BE DANGEROUS. THAT'S WHY STATE LAW REQUIRES YOU OR YOUR CONTRACTOR TO CALL DIG SAFE AT 888-DIG-SAFE OR 811 AT LEAST THREE BUSINESS DAYS PRIOR TO DIGGING. FOR MORE INFORMATION, VISIT DIGSAFE.COM. VISIT THE "SAFETY" SECTION OF EVERSOURCE.COM FOR MORE IMPORTANT SAFETY INFORMATION.

Account Number
6 192 0012

Billing Date
Apr 20, 2017

Next Read Date
May 17, 2017

Service Provided to

COMMONWLTH NB ENERGY LLC
300 SAMUEL-BARNET BLV CGN
NEW BEDFRD MA 02745

Account Summary

Previous Bill	250.12
Payment - Thank You	-250.12
Total Delivery Charges	5.42
Delivery Svcs Balance	\$5.42

Electricity Used

Rate 33-General - Annual
Meter 5081568
Apr 18, 2017 Actual Read
Mar 17, 2017 Actual Read - 6
Multiplied by Constant X 2100
32 Day Billed Use 0

5081568	KWH	DMD
04/18	0	0.0
03/17	0	63.0
02/15	0	63.0
01/18	0	84.0
12/18	0	63.0
11/16	0	63.0
10/18	0	42.0
09/16	0	42.0
08/16	0	42.0
07/18	0	63.0
06/18	0	63.0
05/18	0	0.0
04/18	0	84.0

Cost of Electricity

Delivery Services	
Minimum Charge	5.53
Primary Metering Discount	-0.11
Delivery Services Total	5.42

CHARGES ARE SUBJECT TO 0.86% INTEREST
AFTER 25 DAYS.

PAID
2378 4.24.17

EVERSOURCE

CUSTOMER SERVICE CENTER 800-592-2000
BUSINESS CUSTOMERS 800-340-9822

EZ002170413REGMod.csv-131-000000566

EVERSOURCE

CUSTOMER SERVICE CENTER 800-592-2000
BUSINESS CUSTOMERS 800-340-9822

EZ002170413REGMod.csv-132-000000566

Supporting Information for Exhibit 4

Fossil Fuel Project Emissions

Emergency Generator - Diesel Use

Gallons of Diesel Consumed (1 year Actual)

$$0 \quad FC_{\text{Diesel}} = \text{Number of hours run} * \text{Gallons used/hour}$$

$$COEF_{\text{Diesel},2015} = NCV_{\text{Diesel},2015} * EF_{\text{CO}_2,\text{Diesel},2015}$$

$$COEF_{\text{Diesel},2015} \quad 0.010229 \quad \text{See inputs on USEPA Data Conversions Tab}$$

$$PE_{FC,2015} = FC_{\text{Diesel},2015} * COEF_{\text{Diesel},2015}$$

$$PE_{FC, 2010} \quad \boxed{0.00} \text{ tonnes CO}_2$$

Assumptions Used

Generator runs at 3/4 load during testing and operation

(This is conservative as the plant requires 75-90kW/hr to operate
and the generator can produce up to 150kW/hr)

In July 1, 2016 - April 30, 2017, the generator ran 0 hours (see log sheet)

The generator requires 8.4 gallons/hour running at 3/4 Load (see estimate fuel consumption)

$$0 \text{ hours} * 8.4 \text{ gallons/hour} \\ 0 \text{ gallons}$$

Emergency Generator Log Sheet
CommonWealth New Bedford Energy LLC

[illegible]

Supporting Information for Exhibit 4

Gas extraction from District Initial System versus Phase 1 Area and District Total System

Month	LFG flow rate from District Initial System contained in Phase 1 area scfm @50% methane	LFG flow rate from District Total System, scfm @50% methane	District Initial System/Total	District Initial System/Total During Verification Period
6-Jun-13	77	1,348	6%	
6-Aug-13	82	1,225	7%	
23-Aug-13	65	1,015	6%	
6-Sep-13	60	1,003	6%	
26-Sep-13	57	886	6%	
11-Oct-13	65	1,056	6%	
25-Oct-13	100	1,197	8%	
15-Nov-13	50	1,095	5%	
25-Nov-13	63	1,084	6%	
11-Dec-13	50	1,094	5%	
10-Jan-14	49	1,309	4%	
29-Jan-14	58	1,371	4%	
21-Mar-14	70	1,417	5%	
25-Apr-14	93	1,327	7%	
1-May-14	76	1,119	7%	
15-May-14	51	1,039	5%	
1-Jun-14	65	1,071	6%	
15-Jun-14	45	1,016	4%	
1-Jul-14	55	1,023	5%	
1-Aug-14	56	1,091	5%	
1-Sep-14	91	1,188	8%	
15-Sep-14	48	1,055	5%	
1-Oct-14	97	1,081	9%	
1-Dec-14	65	1,086	6%	
15-Dec-14	64	1,075	6%	
1-Mar-15	50	1,019	5%	
1-Apr-15	48	1,329	4%	
15-Apr-15	90	1,183	8%	
1-May-15	57	1,227	5%	
14-May-15	35	1,090	3%	
5-Jun-15	53	1,106	5%	
9-Jun-15	38	1,101	3%	
18-Jun-15	55	1,089	5%	
29-Jul-15	101	1,194	8%	
26-Aug-15	104	1,588	7%	
4-Sep-15	41	1,306	3%	
16-Sep-15	62	1,604	4%	
13-Oct-15	63	1,305	5%	
28-Oct-15	69	1,297	5%	
15-Nov-15	100	1,534	7%	
14-Jan-16	69	1,080	6%	
19-Feb-16	30	1,150	3%	
8-Mar-16	66	1,150	6%	
13-Apr-16	64	1,000	6%	
16-May-16	66	1,100	6%	
Jul-16	57	1,100	5%	5%
Aug-16	62	1,100	6%	6%
Sep-16	65	1,100	6%	6%
Oct-16	62	1,000	6%	6%
Nov-16	62	1,000	6%	6%
Dec-16	50	1,100	5%	5%
Jan-17	50	1,100	5%	5%
Feb-17	42	920	5%	5%
Mar-17	42	920	5%	5%
Average			5.5%	5.3%

Fossil Fuel Consumption

NCV Conversion							NCV Comparison to IPCC Values								
5.809	42	0.13831					0.13831	1000000	1.06E-06	0.001	0.26417	1.176471	1000000	45.35173	
mmBtu/bar		gallons/bar	mmBtu/gallon				MMBtu/gal	Btu/MMBtu	GJ/Btu	TJ/GJ	gallons/lite		liter/kg	kg/Gg	TJ/Gg
IPCC Values state 41.4-43.3 TJ/Gg This value is higher and therefore conservative.															
Emissions Factor							Data obtained from the Draft 2011 US Greenhouse Gas Report: US EPA Inventory of US Greenhouse Gas Emissions and Sinks to provide a national factor. Results were compared to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories								
20.17	1E-15	1000000	3.666667	1E+12	0.000001	0.073957									
Tg C/Qbtu	Qbtu/btu	btu/Mmbtu	g C02/g C	g/Tg	Tonnes/g	Tonnes CO2/Mmbtu									

Electricity Consumption

eGRID Emissions Factor					
570.9	0.454545	0.001	0.260		
lbs CO2/M	kg/lbs	tonnes/kg	tonnes CO2/MWh		
				eGRID Factor taken from NEWE region of eGRID2014V2 data	

Exhibit 5

A compilation of the field data logs recording the total gas volumes and methane content readings for the identified reporting periods.

APRIL 2017																			
		Saturday 4/1/2017	Sunday 4/2/2017	Monday 4/3/2017	Tuesday 4/4/2017	Wednesday 4/5/2017	Thursday 4/6/2017	Friday 4/7/2017	Saturday 4/8/2017	Sunday 4/9/2017	Monday 4/10/2017	Tuesday 4/11/2017	Wednesday 4/12/2017	Thursday 4/13/2017	Friday 4/14/2017	Saturday 4/15/2017	Sunday 4/16/2017	Monday 4/17/2017	
LFG and Biogas Flow to the Engines (KSCF)		1,306	1,309	1,301	1,243	1,245	1,226	1,307	1,354	1,368	1,341	1,371	1,290	1,334	1,302	1,332	1,299	1,316	
LFG and Biogas Flow to the Engines (MMBTU HHV)		710	694	698	691	681	690	727	695	674	669	697	656	667	666	678	677	689	
LFG and Biogas Flow to the Flare (KSCF)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and BiogasFlow to the Flare (MMBTU HHV)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Total Flow (KSCF)		1,306	1,309	1,301	1,243	1,245	1,226	1,307	1,354	1,368	1,341	1,371	1,290	1,334	1,302	1,332	1,299	1,316	
LFG and Biogas Total Flow (MMBTU HHV)		710	694	698	691	681	690	727	695	674	669	697	656	667	666	678	677	689	
Average Methane Content (%)		53.7	52.4	53.0	55.0	54.0	55.6	54.9	50.7	48.7	49.3	50.3	50.3	49.4	50.5	50.3	51.5	51.8	
Engine 1 Hours		24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Engine 2 Hours		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Engine 3 Hours		24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	24	24	
Engine 4 Hours		24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Generator 1 Power Output (kWhr)		19,662	19,238	18,330	18,822	17,852	19,452	19,740	18,108	17,348	17,092	17,280	18,058	17,476	18,434	18,204	18,200	18,644	
Generator 2 Power Output (kWhr)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Generator 3 Power Output (kWhr)		16,780	15,612	16,234	16,184	15,932	13,594	17,622	17,976	17,934	17,872	18,308	16,884	16,226	14,244	15,010	15,006	14,708	
Generator 4 Power Output (kWhr)		19,906	18,676	19,192	18,514	17,822	19,414	19,702	18,168	17,316	17,230	18,420	17,408	17,432	18,328	19,110	18,414	18,578	
Gross Power Output (kWhr)		56,374	53,562	53,774	53,547	51,641	52,480	57,070	54,282	52,649	52,228	54,031	52,388	51,175	51,039	52,362	51,666	51,976	
Net Power Output (kWhr)		54,334	51,564	51,734	51,452	49,614	50,542	55,118	52,286	50,630	50,314	52,216	50,572	49,302	49,278	50,566	49,920	50,220	
Power Sold as metered by NStar, (kWhr)		54,231	51,427	51,601	51,396	49,451	50,432	54,982	52,152	50,584	50,161	52,048	50,418	49,158	49,149	50,414	49,751	50,050	
Offgrid RECs (kWhr)		2,040	1,999	2,039	2,095	2,025	1,939	1,952	1,996	2,019	1,912	1,815	1,816	1,873	1,762	1,795	1,746	1,756	
Calculated Performance Results																			
Daily																			
Power output (kW average when running)																			
Generator 1		819	802	764	784	744	811	823	755	723	712	720	752	728	768	759	758	777	
Generator 2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Generator 3		699	651	676	674	664	591	734	749	747	745	763	704	676	594	625	625	613	
Generator 4		829	778	800	771	743	809	821	757	722	718	768	725	726	764	796	767	774	
Power output (kW average over 24-hrs)																			
Facility Gross		2,349	2,232	2,241	2,231	2,152	2,187	2,378	2,262	2,194	2,176	2,251	2,183	2,132	2,127	2,182	2,153	2,166	
Facility Net		2,264	2,149	2,156	2,144	2,067	2,106	2,297	2,179	2,110	2,096	2,176	2,107	2,054	2,053	2,107	2,080	2,093	
In-plant load		85	83	85	87	84	81	81	83	84	80	76	76	78	73	75	73	73	
Daily availability factor																			
Facility		75%	75%	75%	75%	75%	74%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Engine 2		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Engine 3		100%	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Engine 4		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Daily capacity factor																			
Facility		71%	68%	68%	68%	65%	66%	72%	69%	66%	66%	68%	66%	65%	64%	66%	65%	66%	
Engine 1		99%	97%	93%	95%	90%	98%	100%	91%	88%	86%	87%	91%	88%	93%	92%	92%	94%	
Engine 2		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Engine 3		85%	79%	82%	82%	80%	72%	89%	91%	91%	90%	92%	85%	82%	72%	76%	76%	74%	
Engine 4		101%	94%	97%	94%	90%	98%	100%	92%	87%	87%	93%	88%	88%	93%	97%	93%	94%	
Cumulative by engine																			
Engine operating run hours in the month																			
Max Cumulative Available, hours		24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408	
Engine 1		24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408	
Engine 2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Engine 3		24	48	72	96	120	143	167	191	215	239	263	287	311	335	359	383	407	
Engine 4		24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408	
Engine operating run hours total from 0 hours																			
Engine 1		89,034	89,058	89,082	89,106	89,130	89,154	89,178	89,202	89,226	89,250	89,274	89,298	89,322	89,346	89,370	89,394	89,418	89,442
Engine 2		85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,461	
Engine 3		87,975	87,999	88,023	88,047	88,071	88,095	88,118	88,142	88,166	88,190	88,214	88,238	88,262	88,310	88,334	88,358	88,382	
Engine 4		85,028	85,052	85,076	85,100	85,124	85,148	85,172	85,196	85,220	85,244	85,268	85,292	85,316	85,340	85,364	85,388	85,412	85,436
Cumulative availability, %		April 1, 2017 @ 00:00 hours																	
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Engine 2		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Engine 3		100%	100%	100%	100%	100%	99%	99%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Engine 4		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Engine cumulative gross output, kWhr																			
Max cumulative capacity one engine		825	1,650	2,475	3,300	4,125	4,950	5,775	6,600	7,425	8,250	9,075	9,900	10,725	11,550	12,375	13,200	14,025	
Engine 1		819	1,621	2,385	3,169	3,913	4,723	5,546	6,300	7,023	7,735	8,455	9,208	9,936	10,704	11,462	12,221	12,998	
Engine 2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Engine 3		699	1,350	2,026	2,700	3,364	3,955	4,690	5,439	6,186	6,930	7,693	8,397	9,073	9,666	10,292	10,917	11,530	
Engine 4		829	1,608	2,407	3,179	3,921	4,730	5,551	6,308	7,030	7,748	8,515	9,240	9,967	10,730	11,527	12,294	13,068	
Cumulative capacity factor, %																			

		Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday
		4/1/2017	4/2/2017	4/3/2017	4/4/2017	4/5/2017	4/6/2017	4/7/2017	4/8/2017	4/9/2017	4/10/2017	4/11/2017	4/12/2017	4/13/2017	4/14/2017	4/15/2017	4/16/2017	4/17/2017
	Cumulative fuel input, MMBtu HHV	710	1,404	2,102	2,793	3,474	4,164	4,891	5,586	6,260	6,929	7,626	8,282	8,949	9,614	10,293	10,969	11,659
	Cumulative gross output, kWhr	56,374	109,936	163,710	217,257	268,898	321,378	378,448	432,730	485,379	537,607	591,638	644,026	695,201	746,240	798,602	850,268	902,244
Heat Rate																		
	Daily heat rate, Btu/kWe gross LHV	11,334	11,667	11,680	11,622	11,862	11,843	11,467	11,529	11,524	11,522	11,619	11,272	11,729	11,738	11,663	11,790	11,940
	Daily heat rate, Btu/kWe gross HHV	12,591	12,961	12,975	12,910	13,178	13,155	12,739	12,807	12,802	12,800	12,907	12,522	13,030	13,039	12,956	13,098	13,264
	Cumulative heat rate, Btu/kWe gross LHV	11,334	11,496	11,557	11,573	11,628	11,663	11,634	11,621	11,610	11,602	11,603	11,576	11,588	11,598	11,602	11,614	11,632
	Cumulative heat rate, Btu/kWe gross HHV	12,591	12,771	12,838	12,856	12,918	12,956	12,924	12,909	12,897	12,888	12,890	12,860	12,872	12,884	12,888	12,901	12,922
Cumulative by Facility starting Calendar Year																		
	Max cumulative available engine run hours	8,544	8,640	8,736	8,832	8,928	9,024	9,120	9,216	9,312	9,408	9,504	9,600	9,696	9,792	9,888	9,984	10,080
	Actual cumulative engine run hours	6,816	6,888	6,960	7,032	7,104	7,175	7,247	7,319	7,391	7,463	7,535	7,607	7,679	7,751	7,823	7,895	7,967
	Cumulative Availability, %	79.8%	79.7%	79.7%	79.6%	79.6%	79.5%	79.5%	79.4%	79.4%	79.3%	79.3%	79.2%	79.2%	79.2%	79.1%	79.1%	79.0%
	Max cumulative gross output, kWhr	7,045,500	7,124,700	7,203,900	7,283,100	7,362,300	7,441,500	7,520,700	7,599,900	7,679,100	7,758,300	7,837,500	7,916,700	7,995,900	8,075,100	8,154,300	8,233,500	8,312,700
	Actual cumulative gross output, kWhr	5,150,715	5,204,277	5,258,051	5,311,598	5,363,239	5,415,719	5,472,789	5,527,071	5,579,720	5,631,948	5,685,979	5,738,367	5,789,542	5,840,581	5,892,943	5,944,609	5,996,585
	Cumulative Capacity Factor	73.1%	73.0%	73.0%	72.9%	72.8%	72.8%	72.8%	72.7%	72.7%	72.6%	72.5%	72.5%	72.4%	72.3%	72.3%	72.2%	72.1%
	Cumulative fuel input, MMBtu HHV	64,243	64,937	65,635	66,326	67,007	67,697	68,424	69,119	69,793	70,462	71,159	71,815	72,482	73,148	73,826	74,503	75,192
	Cumulative gross output, kWhr	5,150,715	5,204,277	5,258,051	5,311,598	5,363,239	5,415,719	5,472,789	5,527,071	5,579,720	5,631,948	5,685,979	5,738,367	5,789,542	5,840,581	5,892,943	5,944,609	5,996,585
	Cumulative heat rate, Btu/kWe gross LHV	11,228	11,232	11,237	11,241	11,247	11,253	11,255	11,258	11,260	11,262	11,266	11,266	11,270	11,274	11,278	11,282	11,288
	Cumulative heat rate, Btu/kWe gross HHV	12,473	12,478	12,483	12,487	12,494	12,500	12,503	12,506	12,508	12,511	12,515	12,515	12,519	12,524	12,528	12,533	12,539
Service																		
	Engine 1																	
	Engine 2																	
	Engine 3																	
	Engine 4																	
Oil - oil and filter change																		
Service - plugs, air filter, valve inspection and adjustment																		
Precipitation																		
	NSTAR Power Reports																	
	Date	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday
	Hour	4/1/2017	4/2/2017	4/3/2017	4/4/2017	4/5/2017	4/6/2017	4/7/2017	4/8/2017	4/9/2017	4/10/2017	4/11/2017	4/12/2017	4/13/2017	4/14/2017	4/15/2017	4/16/2017	4/17/2017
	1	2,275	2,133	2,140	2,058	2,058	2,096	2,258	2,258	2,107	2,099	2,097	2,140	2,063	2,124	2,138	2,089	2,045
	2	2,276	2,133	2,141	2,080	2,060	2,109	2,260	2,281	2,107	2,099	2,096	2,102	2,064	2,001	2,141	2,091	2,046
	3	2,276	2,088	2,141	2,111	2,062	2,109	2,260	2,226	2,108	2,099	2,099	2,071	2,065	1,973	2,139	2,092	2,046
	4	2,273	2,141	2,140	2,142	2,059	1,529	2,258	2,246	2,107	2,098	2,096	2,069	2,063	1,970	2,139	2,089	2,046
	5	2,275	2,142	2,140	2,144	2,060	1,676	2,259	2,278	2,108	2,100	2,097	2,071	2,062	1,971	2,111	2,091	2,045
	6	2,276	2,142	2,142	2,143	2,061	2,135	2,258	2,242	2,108	2,101	2,097	2,070	2,064	1,973	2,092	2,090	2,045
	7	2,274	2,141	2,141	2,143	2,059	2,157	2,280	2,208	2,106	2,097	2,098	2,069	2,061	1,971	2,089	2,090	2,044
	8	2,278	2,143	2,142	2,107	2,060	2,203	2,296	2,207	2,106	1,868	2,098	2,070	2,047	1,971	2,092	2,091	1,981
	9	2,277	2,144	2,140	2,071	2,054	2,164	2,300	2,171	2,103	1,959	2,084	2,068	1,967	1,989	2,094	2,092	1,965
	10	2,276	2,141	2,137	2,187	1,987	2,153	2,303	2,171	2,106	1,961	2,151	2,084	1,960	2,013	2,090	2,087	1,966
	11	2,276	2,113	2,186	2,233	1,960	2,153	2,305	2,159	2,110	2,006	2,184	2,136	1,961	2,114	2,092	2,045	1,996
	12	2,277	2,133	2,262	2,270	2,019	2,095	2,305	2,150	2,113	2,018	2,255	2,137	1,962	2,139	2,093	2,046	2,126
	13	2,273	2,143	2,271	2,269	2,099	2,082	2,304	2,184	2,110	2,016	2,269	2,135	1,962	2,139	2,092	2,045	2,135
	14	2,275	2,146	2,273	2,252	2,052	2,082	2,306	2,208	2,113	2,038	2,279	2,136	1,963	2,079	2,093	2,045	2,134
	15	2,276	2,147	2,237	2,186	2,053	2,085	2,303	2,121	2,114	2,076	2,275	2,137	1,964	2,126	2,096	2,046	2,136
	16	2,272	2,206	2,110	2,182	2,109	1,753	2,304	2,142	2,113	2,163	2,219	2,138	1,964	2,143	2,093	2,045	2,137
	17	2,275	2,169	2,110	2,147	2,107	2,132	2,306	2,126	2,112	2,170	2,214	2,141	2,037	2,148	2,094	2,073	2,145
	18	2,275	2,162	2,109	2,104	2,110	2,169	2,307	2,134	2,113	2,171	2,215	2,144	2,070	2,147	2,094	2,096	2,147
	19	2,271	2,143	2,109	2,103	2,106	2,232	2,309	2,108	2,110	2,170	2,213	2,176	2,145	2,145	2,093	2,093	2,146
	20	2,270	2,145	2,108	2,105	2,109	2,260	2,307	2,107	2,104	2,172	2,214	2,068	2,145	2,142	2,092	2,093	2,146
	21	2,208	2,145	2,107	2,105	2,039	2,267	2,306	2,107	2,104	2,172	2,215	2,067	2,140	2,142	2,091	2,087	2,146
	22	2,188	2,142	2,106	2,106	2,045	2,263	2,302	2,105	2,100	2,172	2,198	2,064	2,142	2,142	2,087	2,044	2,144
	23	2,190	2,145	2,107	2,088	2,061	2,265	2,303	2,106	2,101	2,170	2,141	2,061	2,144	2,142	2,088	2,045	2,143
	24	2,149	2,140	2,102	2,060	2,062	2,263	2,303	2,107	2,101	2,166	2,144	2,064	2,143	2,145	2,091	2,046	2,140
	TOTAL	54,231	51,427	51,601	51,396	49,451	50,432	54,982	52,152	50,584	50,161	52,048	50,418	49,158	49,149	50,414	49,751	50,050
	Cumulative Output Sold, kWhr	54,231	105,658	157,259	208,655	258,106	308,538	363,520	415,672	466,256	516,417	568,465	618,883	668,041	717,190	767,604	817,355	867,405
	Transformer and line efficiency	99.8%	99.7%	99.7%	99.9%	99.7%	99.8%	99.8%	99.7%	99.9%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%
	Hourly average	2,260	2,143	2,150	2,142	2,060	2,101	2,291	2,173	2,108	2,090	2,169	2,101	2,048	2,048	2,101	2,073	2,085

APRIL 2017																		
		Tuesday 4/18/2017	Wednesday 4/19/2017	Thursday 4/20/2017	Friday 4/21/2017	Saturday 4/22/2017	Sunday 4/23/2017	Monday 4/24/2017	Tuesday 4/25/2017	Wednesday 4/26/2017	Thursday 4/27/2017	Friday 4/28/2017	Saturday 4/29/2017	Sunday 4/30/2017	TOTAL	Bogas	LFG	
LFG and Biogas Flow to the Engine		1,340	1,361	1,325	1,270	1,315	1,262	1,301	1,324	1,323	1,319	1,334	1,303	1,275	39,294	1,166	38,128	
LFG and Biogas Flow to the Engine		671	684	681	652	678	637	662	678	700	693	704	688	655	20,441	1,048	19,393	
LFG and Biogas Flow to the Flare (t)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1%	95%	
LFG and BiogasFlow to the Flare (t)		-	-	-	-	-	-	-	-	-	-	-	-	-	-			
LFG and Biogas Total Flow (KSCF)		1,340	1,361	1,325	1,270	1,315	1,262	1,301	1,324	1,323	1,319	1,334	1,303	1,275	39,294			
LFG and Biogas Total Flow (MMBTU/hr)		671	684	681	652	678	637	662	678	700	693	704	688	655	20,441			
Average Methane Content (%)		49.5	49.6	50.8	50.7	51.0	49.8	50.3	50.6	52.3	52.0	52.1	52.1	50.8	51.4			
Engine 1 Hours		24	24	24	24	24	24	22	24	24	24	24	24	24	718			
Engine 2 Hours		-	-	-	-	-	-	-	9	24	24	24	24	24	129			
Engine 3 Hours		24	24	24	24	24	24	24	17	-	-	-	-	-	592			
Engine 4 Hours		24	24	24	24	24	24	24	24	24	24	24	23	25	720			
Generator 1 Power Output (kW/hr)		18,788	19,036	19,332	19,272	18,392	17,982	17,144	18,524	17,650	17,910	17,328	16,794	16,610	546,702			
Generator 2 Power Output (kW/hr)		-	-	-	-	-	-	-	6,136	17,858	17,872	18,526	16,872	16,654	93,918			
Generator 3 Power Output (kW/hr)		15,460	16,212	15,606	14,652	15,408	13,218	13,874	9,270	-	-	-	-	-	389,826			
Generator 4 Power Output (kW/hr)		18,820	19,020	19,596	19,702	19,698	18,594	18,850	19,020	19,700	18,526	18,704	18,730	17,210	559,800			
Gross Power Output (kW/hr)		53,099	54,294	54,558	53,663	53,532	49,841	49,888	53,007	55,292	54,402	54,649	52,489	50,575	1,591,533			
Net Power Output (kW/hr)		51,296	52,538	52,786	51,888	51,816	48,176	48,190	51,240	53,424	52,580	52,768	50,636	48,796	1,535,796			
Power Sold as metered by NSTAR, (kW/hr)		51,175	52,411	52,644	51,741	51,699	48,050	48,059	51,107	53,295	52,425	52,613	50,476	48,644	1,531,744	CRMCB Inplant		
Offgrid RECs (kWhr)		1,803	1,756	1,771	1,776	1,716	1,665	1,698	1,767	1,868	1,822	1,881	1,853	1,779	55,734	9,589		
Calculated Performance Results																		
Daily																	17%	
Power output (kW average whe																of total in-plant power		
Generator 1		783	793	806	803	766	749	779	772	735	746	722	700	692				
Generator 2		-	-	-	-	-	-	-	682	744	745	772	703	694				
Generator 3		644	676	650	611	642	551	578	545	-	-	-	-	-				
Generator 4		784	793	817	821	821	775	785	793	821	772	779	814	688				
Power output (kW average ove																		
Facility Gross		2,212	2,262	2,273	2,236	2,231	2,077	2,079	2,209	2,304	2,267	2,277	2,187	2,107				
Facility Net		2,137	2,189	2,199	2,162	2,159	2,007	2,008	2,135	2,226	2,191	2,199	2,110	2,033				
In-plant load		75	73	74	74	72	69	71	74	78	76	78	77	74				
Daily availability factor																		
Facility		75%	75%	75%	75%	75%	75%	73%	77%	75%	75%	75%	74%	76%				
Engine 1		100%	100%	100%	100%	100%	100%	92%	100%	100%	100%	100%	100%	100%				
Engine 2		0%	0%	0%	0%	0%	0%	0%	38%	100%	100%	100%	100%	100%				
Engine 3		100%	100%	100%	100%	100%	100%	100%	71%	0%	0%	0%	0%	0%				
Engine 4		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	104%				
Daily capacity factor																		
Facility		67%	69%	69%	68%	68%	63%	63%	67%	70%	69%	69%	66%	64%				
Engine 1		95%	96%	98%	97%	93%	91%	94%	89%	89%	90%	88%	84%	84%				
Engine 2		0%	0%	0%	0%	0%	0%	0%	83%	90%	90%	94%	85%	84%				
Engine 3		78%	82%	79%	74%	78%	67%	70%	66%	0%	0%	0%	0%	0%				
Engine 4		95%	96%	99%	100%	99%	94%	95%	96%	99%	94%	94%	99%	83%				
Cumulative by engine																		
Engine operating run hours in t																		
Max Cumulative Available,		432	456	480	504	528	552	576	600	624	648	672	696	720				
Engine 1		432	456	480	504	528	552	574	598	622	646	670	694	718				
Engine 2		0	0	0	0	0	0	0	9	33	57	81	105	129				
Engine 3		431	455	479	503	527	551	575	592	592	592	592	592	592				
Engine 4		432	456	480	504	528	552	576	600	624	648	672	696	720				
Engine operating run hours tota																		
Engine 1		89,466	89,490	89,514	89,538	89,562	89,586	89,608	89,632	89,656	89,680	89,704	89,728	89,752				
Engine 2		85,461	85,461	85,461	85,461	85,461	85,461	85,461	85,470	85,494	85,518	85,542	85,566	85,590				
Engine 3		88,406	88,430	88,454	88,478	88,502	88,526	88,550	88,567	88,567	88,567	88,567	88,567	88,567				
Engine 4		85,460	85,484	85,508	85,532	85,556	85,580	85,604	85,628	85,652	85,676	85,700	85,723	85,748				
Cumulative availability, %																		
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%				
Engine 2		0%	0%	0%	0%	0%	0%	0%	2%	5%	9%	12%	15%	18%				
Engine 3		100%	100%	100%	100%	100%	100%	100%	99%	95%	91%	88%	85%	82%				
Engine 4		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%				
Engine cumulative gross output																		
Max cumulative capacity or		14,850	15,675	16,500	17,325	18,150	18,975	19,800	20,625	21,450	22,275	23,100	23,925	24,750				
Engine 1		13,780	14,574	15,379	16,182	16,948	17,698	18,477	19,249	19,984	20,730	21,452	22,152	22,844				
Engine 2		-	-	-	-	-	-	-	682	1,426	2,171	2,942	3,645	4,339				
Engine 3		12,174	12,850	13,500	14,110	14,752	15,303	15,881	16,426	16,426	16,426	16,426	16,426	16,426				
Engine 4		13,852	14,645	15,461	16,282	17,103	17,878	18,663	19,455	20,276	21,048	21,828	22,642	23,330				
Cumulative capacity factor, %																		
Engine 1		93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	92%				
Engine 2		0%	0%	0%	0%	0%	0%	0%	3%	7%	10%	13%	15%	18%				
Engine 3		82%	82%	82%	81%	81%	81%	80%	80%	77%	74%	71%	69%	66%				
Engine 4		93%	93%	94%	94%	94%	94%	94%	94%	95%	94%	94%	95%	94%				
Cumulative by Facility in month																		
Max cumulative available engi		1,728	1,824	1,920	2,016	2,112	2,208	2,304	2,400	2,496	2,592	2,688	2,784	2,880				
Actual cumulative engine run t		1,295	1,367	1,439	1,511	1,583	1,655	1,725	1,799	1,871	1,943	2,015	2,086	2,159				
Cumulative Availability, %		74.9%	74.9%	74.9%	75.0%	75.0%	75.0%	74.9%	75.0%	75.0%	75.0%	75.0%	74.9%	75.0%				
Max cumulative gross output, k		1,425,600	1,504,800	1,584,000	1,663,200	1,742,400	1,821,600	1,900,800	1,980,000	2,059,200	2,138,400	2,217,600	2,296,800	2,376,000				
Actual cumulative gross output, k		955,343	1,009,637	1,064,195	1,117,858	1,171,390	1,221,231	1,271,119	1,324,126	1,379,418	1,433,820	1,488,469	1,540,958	1,591,533				
Cumulative Capacity Factor		67.0%	67.1%	67.2%	67.2%	67.2%	67.0%	66.9%	66.9%	67.0%	67.1%	67.1%	67.1%	67.0%				

	Tuesday 4/18/2017	Wednesday 4/19/2017	Thursday 4/20/2017	Friday 4/21/2017	Saturday 4/22/2017	Sunday 4/23/2017	Monday 4/24/2017	Tuesday 4/25/2017	Wednesday 4/26/2017	Thursday 4/27/2017	Friday 4/28/2017	Saturday 4/29/2017	Sunday 4/30/2017	TOTAL	Biogas	LFG
Cumulative fuel input, MMBtu	12,330	13,014	13,694	14,346	15,024	15,661	16,323	17,001	17,701	18,394	19,099	19,786	20,441			
Cumulative gross output, kWhr	955,343	1,009,637	1,064,195	1,117,858	1,171,390	1,221,231	1,271,119	1,324,126	1,379,418	1,433,820	1,488,469	1,540,958	1,591,533			
Heat Rate																
Daily heat rate, Btu/kWe gross	11,381	11,332	11,231	10,934	11,406	11,500	11,940	11,518	11,392	11,474	11,603	11,791	11,659			
Daily heat rate, Btu/kWe gross	12,642	12,589	12,477	12,146	12,671	12,775	13,264	12,795	12,655	12,746	12,890	13,098	12,951			
Cumulative heat rate, Btu/kWe	11,618	11,603	11,584	11,553	11,546	11,544	11,560	11,558	11,551	11,548	11,550	11,559	11,562			
Cumulative heat rate, Btu/kWe	12,906	12,889	12,868	12,834	12,826	12,824	12,841	12,839	12,832	12,829	12,831	12,840	12,844			
Cumulative by Facility starting C																
Max cumulative available engine	10,176	10,272	10,368	10,464	10,560	10,656	10,752	10,848	10,944	11,040	11,136	11,232	11,328			
Actual cumulative engine run time	8,039	8,111	8,183	8,255	8,327	8,399	8,469	8,543	8,615	8,687	8,759	8,830	8,903			
Cumulative Availability, %	79.0%	79.0%	78.9%	78.9%	78.9%	78.8%	78.8%	78.8%	78.7%	78.7%	78.7%	78.6%	78.6%			
Max cumulative gross output, kWhr	8,391,900	8,471,100	8,550,300	8,629,500	8,708,700	8,787,900	8,867,100	8,946,300	9,025,500	9,104,700	9,183,900	9,263,100	9,342,300			
Actual cumulative gross output, kWhr	6,049,684	6,103,978	6,158,536	6,212,199	6,265,731	6,315,572	6,365,460	6,418,467	6,473,759	6,528,161	6,582,810	6,635,299	6,685,874			
Cumulative Capacity Factor	72.1%	72.1%	72.0%	72.0%	71.9%	71.9%	71.8%	71.7%	71.7%	71.7%	71.7%	71.6%	71.6%			
Cumulative fuel input, MMBtu	75,863	76,547	77,228	77,879	78,558	79,194	79,856	80,534	81,234	81,927	82,632	83,319	83,974			
Cumulative gross output, kWhr	6,049,684	6,103,978	6,158,536	6,212,199	6,265,731	6,315,572	6,365,460	6,418,467	6,473,759	6,528,161	6,582,810	6,635,299	6,685,874			
Cumulative heat rate, Btu/kWe	11,289	11,289	11,288	11,285	11,286	11,288	11,293	11,295	11,296	11,297	11,300	11,304	11,306			
Cumulative heat rate, Btu/kWe	12,540	12,540	12,540	12,537	12,538	12,540	12,545	12,547	12,548	12,550	12,553	12,557	12,560			
Service																
Engine 1																
Engine 2																
Engine 3																
Engine 4																
Oil - oil and filter change																
Service - plugs, air filter, valve insp																
Precipitation																
NSTAR Power Reports																
Date	4/18/2017	4/19/2017	4/20/2017	4/21/2017	4/22/2017	4/23/2017	4/24/2017	4/25/2017	4/26/2017	4/27/2017	4/28/2017	4/29/2017	4/30/2017	TOTAL		
Hour																
1	2,073	2,096	2,241	2,046	2,243	2,047	1,970	2,180	2,199	2,143	2,216	2,214	2,067			
2	2,045	2,097	2,242	2,047	2,243	2,045	1,970	2,179	2,142	2,143	2,217	2,183	2,069			
3	2,045	2,097	2,241	2,047	2,242	2,047	1,972	2,181	2,142	2,143	2,217	2,143	2,069			
4	2,043	2,096	2,240	2,073	2,240	2,044	1,971	2,177	2,141	2,143	2,217	2,143	2,063			
5	2,045	2,098	2,240	2,119	2,239	2,046	1,970	2,175	2,142	2,143	2,217	2,143	2,061			
6	2,044	2,099	2,240	2,120	2,212	2,048	1,971	2,174	2,142	2,143	2,217	2,143	2,065			
7	2,044	2,099	2,240	2,118	2,168	2,046	1,968	2,172	2,143	2,142	2,210	2,143	2,064			
8	2,045	2,099	2,242	2,117	2,169	2,044	1,884	1,975	2,144	2,141	2,140	2,143	2,065			
9	2,043	2,092	2,235	2,056	2,171	2,046	1,869	1,973	2,163	2,082	2,136	2,142	2,063			
10	2,080	2,194	2,118	2,038	2,169	1,974	1,815	1,971	2,243	2,210	2,138	2,139	2,063			
11	2,137	2,209	2,165	2,041	2,170	1,976	1,869	1,972	2,281	2,211	2,136	2,128	1,984			
12	2,137	2,236	2,233	2,115	2,172	1,975	1,259	1,969	2,282	2,210	2,135	2,063	1,869			
13	2,141	2,236	2,232	2,176	2,169	1,976	1,632	1,970	2,282	2,208	2,133	2,061	1,876			
14	2,140	2,237	2,236	2,236	2,171	1,977	2,148	2,027	2,281	2,207	2,186	2,060	1,876			
15	2,172	2,235	2,237	2,236	2,172	1,978	2,175	2,097	2,281	2,210	2,200	2,060	1,934			
16	2,226	2,239	2,234	2,235	2,169	1,977	2,175	2,020	2,284	2,210	2,204	2,060	2,032			
17	2,240	2,244	2,241	2,239	2,169	1,978	2,181	2,136	2,289	2,212	2,206	2,059	2,056			
18	2,240	2,246	2,242	2,241	2,129	1,980	2,192	2,192	2,290	2,216	2,208	2,062	2,053			
19	2,240	2,245	2,241	2,238	2,048	1,977	2,180	2,195	2,288	2,217	2,210	2,063	2,051			
20	2,244	2,246	2,122	2,240	2,047	1,977	2,181	2,288	2,290	2,219	2,213	2,063	2,053			
21	2,239	2,242	2,047	2,241	2,049	1,977	2,180	2,289	2,288	2,219	2,213	2,066	2,054			
22	2,235	2,242	2,045	2,240	2,045	1,972	2,179	2,287	2,222	2,218	2,215	2,065	2,053			
23	2,166	2,244	2,044	2,240	2,047	1,972	2,178	2,288	2,193	2,217	2,214	2,066	2,053			
24	2,111	2,243	2,046	2,242	2,046	1,973	2,181	2,220	2,143	2,218	2,215	2,064	2,051			
TOTAL	51,175	52,411	52,644	51,741	51,699	48,050	48,059	51,107	53,295	52,425	52,613	50,476	48,644			
Cumulative Output Sold, kWhr	918,580	970,991	1,023,635	1,075,376	1,127,075	1,175,125	1,223,184	1,274,291	1,327,586	1,380,011	1,432,624	1,483,100	1,531,744			
Transformer and line efficiency	99.8%	99.8%	99.7%	99.7%	99.8%	99.7%	99.7%	99.7%	99.8%	99.7%	99.7%	99.7%	99.7%	0.0%		
Hourly average	2,132	2,184	2,194	2,156	2,154	2,002	2,002	2,129	2,221	2,184	2,192	2,103	2,027	2,127		

MARCH 2017														DLST																	
														Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday				
														3/12/2017	3/13/2017	3/14/2017	3/15/2017	3/16/2017	3/17/2017	3/18/2017	3/19/2017	3/20/2017	3/21/2017	3/22/2017	3/23/2017	3/24/2017	3/25/2017	3/26/2017	3/27/2017	3/28/2017	
LFG and Biogas Flow to the Engines (KSCF)				1,319	1,267	1,392	1,375	1,381	1,377	1,335	1,353	1,396	1,389	1,332	1,302	1,360	1,327	1,309	1,361	1,266	1,375										
LFG and Biogas Flow to the Engines (MMBTU HHV				721	704	719	693	696	696	690	721	737	729	687	665	684	709	691	711	674	713										
LFG and Biogas Flow to the Flare (KSCF)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
LFG and BiogasFlow to the Flare (MMBTU HHV)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
LFG and Biogas Total Flow (KSCF)				1,319	1,267	1,392	1,375	1,381	1,377	1,335	1,353	1,396	1,389	1,332	1,302	1,360	1,327	1,309	1,361	1,266	1,375										
LFG and Biogas Total Flow (MMBTU HHV)				721	704	719	693	696	696	690	721	737	729	687	665	684	709	691	711	674	713										
Average Methane Content (%)				54.0	54.9	51.0	49.8	49.8	50.0	51.1	52.7	52.2	51.8	51.0	50.4	49.7	52.8	52.2	51.6	52.6	51.2										
Engine 1 Hours				24	24	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24										
Engine 2 Hours				22	20	24	24	24	24	24	24	24	24	24	24	23	24	24	24	24	-	-									
Engine 3 Hours				-	1	2	-	-	-	2	24	24	24	24	3	-	-	-	-	-	18	24									
Engine 4 Hours				24	24	24	24	24	24	23	11	-	-	-	20	24	24	24	24	24	24	24									
Generator 1 Power Output (kWhr)				19,730	19,732	18,352	17,976	18,878	18,282	19,260	18,970	19,342	18,646	18,330	17,708	18,862	19,622	18,626	18,798	19,570	18,266										
Generator 2 Power Output (kWhr)				17,278	15,940	18,698	17,972	17,970	17,972	18,916	19,014	19,714	19,700	18,746	17,634	17,970	19,576	18,290	17,854	-	-										
Generator 3 Power Output (kWhr)				-	-	576	-	-	-	380	12,690	19,746	19,750	18,092	1,764	-	-	-	-	14,154	19,124										
Generator 4 Power Output (kWhr)				19,698	19,706	19,476	19,402	17,944	18,514	15,218	6,624	-	-	-	15,334	18,038	19,144	19,712	19,714	19,716	18,466										
Gross Power Output (kWhr)				56,770	55,420	57,159	55,442	54,889	54,860	53,850	57,369	58,813	58,116	55,203	52,515	54,964	58,430	56,704	56,455	53,429	55,859										
Net Power Output (kWhr)				54,978	53,684	55,210	53,508	52,982	52,910	51,910	55,558	56,954	56,114	53,216	50,620	52,938	56,432	54,672	54,414	51,494	53,774										
Power Sold as metered by NStar, (kWhr)				54,919	53,536	55,143	53,449	52,911	52,830	51,813	55,406	56,828	56,043	53,164	50,585	52,876	56,348	54,606	54,368	51,393	53,657										
Offgrid RECs (kWhr)				1,790	1,738	1,950	1,933	1,908	1,949	1,940	1,810	1,860	2,002	1,988	1,895	2,025	1,999	2,032	2,040	1,936	2,085										
Calculated Performance Results																															
Daily																															
Power output (kW average when running																															
Generator 1				822	822	765	749	787	762	803	790	806	777	764	770	786	818	776	783	815	761										
Generator 2				785	797	779	749	749	749	788	792	821	821	781	767	749	816	762	744	-	-										
Generator 3				-	-	288	-	-	-	190	529	823	823	787	588	-	-	-	-	786	797										
Generator 4				821	821	812	808	748	771	662	602	-	-	767	752	798	821	821	822	769											
Power output (kW average over 24-hrs)																															
Facility Gross				2,365	2,309	2,382	2,310	2,287	2,286	2,244	2,390	2,451	2,422	2,300	2,283	2,290	2,435	2,363	2,352	2,226	2,327										
Facility Net				2,291	2,237	2,300	2,230	2,208	2,205	2,163	2,315	2,373	2,338	2,217	2,201	2,206	2,351	2,278	2,267	2,146	2,241										
In-plant load				75	72	81	81	79	81	81	75	77	83	83	82	84	83	85	85	81	87										
Daily availability factor																															
Facility				73%	72%	77%	75%	75%	75%	76%	86%	75%	75%	74%	75%	75%	75%	75%	75%	69%	75%										
Engine 1				100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%										
Engine 2				92%	83%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%										
Engine 3				0%	4%	8%	0%	0%	0%	8%	100%	100%	100%	96%	13%	0%	0%	0%	0%	75%	100%										
Engine 4				100%	100%	100%	100%	100%	100%	96%	46%	0%	0%	0%	87%	100%	100%	100%	100%	100%	100%										
Daily capacity factor																															
Facility				72%	70%	72%	70%	69%	69%	68%	72%	74%	73%	70%	69%	69%	74%	72%	71%	67%	71%										
Engine 1				100%	100%	93%	91%	95%	92%	97%	96%	98%	94%	93%	93%	95%	99%	94%	95%	99%	92%										
Engine 2				95%	97%	94%	91%	91%	91%	96%	91%	100%	99%	95%	93%	91%	99%	92%	90%	0%	0%										
Engine 3				0%	0%	35%	0%	0%	0%	23%	64%	100%	100%	95%	71%	0%	0%	0%	0%	95%	97%										
Engine 4				99%	100%	98%	98%	91%	94%	80%	73%	0%	0%	0%	93%	91%	97%	100%	100%	100%	93%										
Cumulative by engine																															
Engine operating run hours in the month																															
Max Cumulative Available, hours				24	48	72	96	120	144	168	192	216	240	264	287	311	335	359	383	407	431										
Engine 1				24	48	72	96	120	144	168	192	216	240	264	287	311	335	359	383	407	431										
Engine 2				22	42	66	90	114	138	162	186	210	234	258	281	305	329	353	377	377	377										
Engine 3				0	1	3	3	3	5	29	53	77	100	103	103	103	103	103	103	121	145										
Engine 4				24	48	72	96	120	144	167	178	178	178	178	198	222	246	270	294	318	342										
Engine operating run hours total from 0 hours																															
Engine 1				89,680	89,704	89,728	89,752	89,776	89,800	89,824	89,848	89,872	89,896	89,920	89,944	89,967	89,991	90,015	90,039	90,063	90,087	90,111									
Engine 2				85,992	86,014	86,034	86,058	86,082	86,106	86,130	86,154	86,178	86,202	86,226	86,250	86,273	86,297	86,321	86,345	86,369	86,393	86,417									
Engine 3				88,092	88,092	88,093	88,095	88,095	88,095	88,095	88,097	88,121	88,145	88,169	88,192	88,195	88,195	88,195	88,195	88,195	88,213	88,237									
Engine 4				85,671	85,695	85,719	85,743	85,767	85,791	85,815	85,838	85,849	85,849	85,849	85,849	85,869	85,893	85,917	85,941	85,965	86,013										
Cumulative availability, %				March 1, 2017 @ 00:00 hours																											
Engine 1				100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%									
Engine 2				92%	88%	92%	94%	95%	96%	96%	97%	97%	98%	98%	98%	98%	98%	98%	98%	93%	87%										
Engine 3				0%	2%	4%	3%	3%	2%	3%	15%	25%	32%	38%	36%	33%	31%	29%	27%	30%	34%										
Engine 4				100%	100%	100%	100%	100%	100%	99%	93%	82%	74%	67%	69%	71%	73%	75%	77%	78%	79%										
Engine cumulative gross output, kWhr																															
Max cumulative capacity one engine				825	1,650	2,475	3,300	4,125	4,950	5,775	6,600	7,425	8,250	9,075	9,900	10,725	11,550	12,375	13,200	14,025	14,850										
Engine 1				822	1,644	2,469	3,158	3,945	4,706	5,509	6,299	7,105	7,882	8,646	9,416	10,202	11,019	11,795	12,578	13,394	14,155										
Engine 2				785	1,582	2,361	3,110	3,859	4,608	5,396	6,188	7,010	7,831	8,612	9,378	10,127	10,943	11,705	12,449	12,449	12,449										
Engine 3				-	-	288	288	288	288	288	1,007	1,830	2,652	3,439	4,027	4,027	4,027	4,027	4,027	4,813	5,610										
Engine 4				821	1,642	2,453	3,262	4,009	4,781	5,442	6,045	6,045	6,045	6,045	6,811	7,563	8,361	9,182	10,003	10,825	11,594										
Cumulative capacity factor, %																															
Engine 1				100%	100%	97%	96%	96%	95%	95%	95%	95%	96%	95%	95%	95%	95%	95%	95%	95%	95%	95%									
Engine 2				95%	94%	93%	94%	93%	93%	93%	94%	94%	95%	94%	95%	94%	95%	95%	94%	89%	84%										
Engine 3				0%	0%	12%	9%	7%	6%	8%	15%	25%	32%	38%	41%	38%	35%	33%	31%	34%	38%										
Engine 4				99%	100%	99%	99%	97%	97%	97%	94%	81%	73%	67%	69%	71%	72%	74%	76%	77%	78%										
Cumulative by Facility in mont																															
Max cumulative available engine run hours				96	192	288	384	480	576	672	768	864	960	1,056	1,152	1,248	1,344	1,440	1,536	1,632	1,728										
Actual cumulative engine run hours				70	139	213	285	357	429	502	585	657	729	800	869	941	1,013	1,085	1,157	1,223	1,295										
Cumulative Availability, %				72.9%	72.4%	74.0%	74.2%	74.4%	74.5%	74.7%	76.2%	76.0%	75.9%	75.8%	75.4%	75.4%	75.4%	75.3%	75.3%	74.9%	74.9%										
Max cumulative gross output, kWhr				79,200	158,400	237,600	316,800	396,000	475,200	554,400	633,600	712,800	792,000	871,200	947,100	1,026,300	1,105,500	1,184,700	1,263,900	1,343,100	1,422,300										
Actual cumulative gross output, kWhr				56,770	112,190	169,349	224,791	279,680	334,540	388,390	445,759	504,572	562,688	617,891	670,406	725,370	783,800	840,504	896,959	950,388	1,006,247										
Cumulative Capacity Factor				71.7%	70.8%	71.3%	71.0%	70.6%	70.4%	70.1%	70.4%	70.8%	71.0%	70.9%	70.8%	70.7%	70.9%	70.9%	71.0%	70.8%	70.7%										
Cumulative fuel input, MMBtu HHV				721	1,425	2,144	2,837	3,533	4,229	4,920	5,641	6,378	7,107	7,795	8,459	9,143	9,852	10,543	11,254	11,928	12,641										
Cumulative gross output, kWhr				56,770	112,190	169,349	224,791	279,680	334,540	388,390	445,759	504,572	562,688	617,891	670,406	725,370	783,800	840,504	896,959	950,388	1,006,247										
Heat Rate																															
Daily heat rate, Btu/kWe gross LHV				11,433	11,437	11,320	11,257	11,411	11,427	11,541																					

		Wednesday 3/1/2017	Thursday 3/2/2017	Friday 3/3/2017	Saturday 3/4/2017	Sunday 3/5/2017	Monday 3/6/2017	Tuesday 3/7/2017	Wednesday 3/8/2017	Thursday 3/9/2017	Friday 3/10/2017	Saturday 3/11/2017	Sunday 3/12/2017	Monday 3/13/2017	Tuesday 3/14/2017	Wednesday 3/15/2017	Thursday 3/16/2017	Friday 3/17/2017	Saturday 3/18/2017
Daily heat rate, Btu/kWe gross HHV		12,700	12,705	12,575	12,505	12,676	12,694	12,821	12,573	12,535	12,542	12,450	12,655	12,443	12,136	12,191	12,589	12,620	12,764
Cumulative heat rate, Btu/kWe gross LHV		11,433	11,435	11,396	11,362	11,372	11,381	11,403	11,392	11,379	11,370	11,356	11,359	11,347	11,315	11,292	11,295	11,298	11,309
Cumulative heat rate, Btu/kWe gross HHV		12,700	12,703	12,660	12,622	12,632	12,642	12,667	12,655	12,641	12,631	12,615	12,618	12,605	12,570	12,544	12,547	12,551	12,563
Cumulative by Facility starting Calendar Year																			
Max cumulative available engine run hours		5,664	5,760	5,856	5,952	6,048	6,144	6,240	6,336	6,432	6,528	6,624	6,720	6,816	6,912	7,008	7,104	7,200	7,296
Actual cumulative engine run hours		4,656	4,725	4,799	4,871	4,943	5,015	5,088	5,171	5,243	5,315	5,386	5,455	5,527	5,599	5,671	5,743	5,809	5,881
Cumulative Availability, %		82.2%	82.0%	82.0%	81.8%	81.7%	81.6%	81.5%	81.6%	81.5%	81.4%	81.3%	81.2%	81.1%	81.0%	80.9%	80.8%	80.7%	80.6%
Max cumulative gross output, kWhr		4,672,800	4,752,000	4,831,200	4,910,400	4,989,600	5,068,800	5,148,000	5,227,200	5,306,400	5,385,600	5,464,800	5,540,700	5,619,900	5,699,100	5,778,300	5,857,500	5,936,700	6,015,900
Actual cumulative gross output, kWhr		3,482,244	3,537,664	3,594,823	3,650,265	3,705,154	3,760,014	3,813,864	3,871,233	3,930,046	3,988,162	4,043,365	4,095,880	4,150,844	4,209,274	4,265,978	4,322,433	4,375,862	4,431,721
Cumulative Capacity Factor		74.5%	74.4%	74.4%	74.3%	74.3%	74.2%	74.1%	74.1%	74.1%	74.1%	74.0%	73.9%	73.9%	73.9%	73.8%	73.8%	73.7%	73.7%
Cumulative fuel input, MMBtu HHV		43,222	43,926	44,645	45,338	46,034	46,731	47,421	48,142	48,879	49,608	50,296	50,960	51,644	52,353	53,045	53,755	54,430	55,143
Cumulative gross output, kWhr		3,482,244	3,537,664	3,594,823	3,650,265	3,705,154	3,760,014	3,813,864	3,871,233	3,930,046	3,988,162	4,043,365	4,095,880	4,150,844	4,209,274	4,265,978	4,322,433	4,375,862	4,431,721
Cumulative heat rate, Btu/kWe gross LHV		11,173	11,178	11,180	11,181	11,184	11,188	11,193	11,195	11,196	11,197	11,198	11,200	11,200	11,196	11,193	11,195	11,197	11,201
Cumulative heat rate, Btu/kWe gross HHV		12,412	12,417	12,419	12,421	12,424	12,428	12,434	12,436	12,437	12,439	12,439	12,442	12,442	12,438	12,434	12,436	12,439	12,443
Service																			
Engine 1																			
Engine 2																			
Engine 3																			
Engine 4																			
Oil - oil and filter change																			
Service - plugs, air filter, valve inspection and adjustment																			
Precipitation																			
NSTAR Power Reports																			
Date		3/1/2017	3/2/2017	3/3/2017	3/4/2017	3/5/2017	3/6/2017	3/7/2017	3/8/2017	3/9/2017	3/10/2017	3/11/2017	3/12/2017	3/13/2017	3/14/2017	3/15/2017	3/16/2017	3/17/2017	3/18/2017
Hour																			
1		2,368	1,592	2,382	2,239	2,168	2,239	2,166	2,301	2,390	2,313	2,239	2,235	2,232	2,236	2,306	2,235	1,579	2,273
2		2,364	1,592	2,382	2,239	2,167	2,202	2,165	2,235	2,389	2,312	2,238	2,236	2,181	2,240	2,307	2,237	1,583	2,277
3		2,363	1,588	2,376	2,237	2,165	2,164	2,163	2,225	2,386	2,310	2,236	1,681	2,166	2,309	2,309	2,277	1,584	2,279
4		2,364	1,620	2,383	2,242	2,169	2,169	2,234	2,228	2,388	2,312	2,240	1,654	2,162	2,306	2,306	2,292	1,582	2,344
5		2,366	2,098	2,379	2,240	2,168	2,168	2,237	2,228	2,387	2,314	2,237	2,013	2,166	2,310	2,265	2,239	1,584	2,326
6		2,362	2,383	2,375	2,235	2,165	2,164	2,234	2,225	2,386	2,311	2,233	2,373	2,164	2,311	2,239	2,256	1,582	2,278
7		2,365	2,387	2,382	2,240	2,168	2,168	2,237	2,227	2,390	2,311	2,056	2,328	2,163	2,307	2,236	2,273	1,125	2,275
8		2,364	2,298	2,167	2,239	2,167	2,168	2,237	2,226	2,385	2,310	1,577	2,310	2,166	2,329	2,239	2,271	2,360	2,237
9		2,359	2,261	2,211	2,237	2,164	2,162	2,234	2,200	2,378	2,367	1,860	2,238	2,163	2,381	2,238	2,282	2,354	2,277
10		2,357	2,369	2,099	2,242	2,168	2,161	2,234	2,173	2,382	2,348	2,283	2,240	2,154	2,378	2,229	2,254	2,345	2,258
11		2,370	2,379	1,964	2,243	2,172	2,163	2,236	2,148	2,383	2,376	2,379	2,239	2,161	2,382	2,232	2,246	2,353	2,204
12		2,373	2,377	2,329	2,240	2,188	2,208	2,298	2,347	2,381	2,372	2,352	2,236	2,164	2,384	2,260	2,265	2,350	2,205
13		2,381	2,380	2,342	2,242	2,244	2,187	2,306	2,386	2,384	2,380	2,310	2,240	2,231	2,382	2,303	2,259	2,344	2,202
14		2,382	2,380	2,311	2,243	2,243	2,172	2,319	2,383	2,381	2,379	2,311	2,240	2,235	2,385	2,307	2,271	2,347	2,206
15		2,380	2,381	2,310	2,239	2,242	2,181	2,361	2,382	2,379	2,378	2,306	2,308	2,237	2,383	2,307	2,302	2,348	2,206
16		2,384	2,389	2,316	2,242	2,243	2,267	2,304	2,389	2,384	2,382	2,310	2,311	2,231	2,380	2,306	2,286	2,348	2,202
17		2,389	2,389	2,311	2,242	2,243	2,274	2,310	2,393	2,385	2,383	2,310	2,282	2,240	2,385	2,311	2,308	2,351	2,203
18		2,385	2,382	2,310	2,236	2,238	2,233	2,040	2,388	2,383	2,357	2,278	2,236	2,237	2,382	2,311	2,310	2,341	2,203
19		2,390	2,385	2,311	2,239	2,241	2,238	1,632	2,387	2,363	2,307	2,236	2,239	2,235	2,381	2,307	2,290	2,286	2,198
20		2,388	2,384	2,312	2,231	2,240	2,237	1,785	2,390	2,310	2,307	2,236	2,237	2,239	2,383	2,309	2,299	2,350	2,202
21		2,385	2,379	2,310	2,165	2,235	2,234	1,623	2,383	2,306	2,304	2,231	2,235	2,238	2,382	2,238	2,286	2,349	2,201
22		1,906	2,384	2,311	2,167	2,239	2,237	1,807	2,390	2,309	2,308	2,237	2,237	2,234	2,377	2,236	2,236	2,347	2,198
23		1,588	2,382	2,312	2,166	2,239	2,236	2,325	2,388	2,310	2,311	2,237	2,237	2,237	2,346	2,266	2,237	2,322	2,201
24		1,586	2,377	2,258	2,164	2,235	2,198	2,329	2,384	2,309	2,291	2,232	-	2,240	2,309	2,239	2,157	2,279	2,202
TOTAL		54,919	53,536	55,143	53,449	52,911	52,830	51,813	55,406	56,828	56,043	53,164	50,585	52,876	56,348	54,606	54,368	51,393	53,657
Cumulative Output Sold, kWhr		54,919	108,455	163,598	217,047	269,958	322,788	374,601	430,007	486,835	542,878	596,042	646,627	699,503	755,851	810,457	864,825	916,218	969,875
Transformer and line efficiency		99.9%	99.7%	99.9%	99.9%	99.9%	99.8%	99.8%	99.7%	99.8%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.8%	99.8%
Hourly average		2,288	2,231	2,298	2,227	2,205	2,201	2,159	2,309	2,368	2,335	2,215	2,108	2,203	2,348	2,275	2,265	2,141	2,236

MARCH 2017																
	Sunday 3/19/2017	Monday 3/20/2017	Tuesday 3/21/2017	Wednesday 3/22/2017	Thursday 3/23/2017	Friday 3/24/2017	Saturday 3/25/2017	Sunday 3/26/2017	Monday 3/27/2017	Tuesday 3/28/2017	Wednesday 3/29/2017	Thursday 3/30/2017	Friday 3/31/2017	TOTAL	Biogas	LFG
LFG and Biogas Flow to the Engine	1,363	1,347	1,358	1,355	1,346	1,312	1,358	1,366	1,356	1,356	1,366	1,397	1,309	41,805	1,485	40,320
LFG and Biogas Flow to the Engine	-	700	-	708	697	672	706	697	705	716	727	731	690	21,763	1,082	20,681
LFG and Biogas Flow to the Flare (l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0%	95%
LFG and BiogasFlow to the Flare (l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LFG and Biogas Total Flow (KSCF)	1,363	1,347	1,358	1,355	1,346	1,312	1,358	1,366	1,356	1,356	1,366	1,397	1,309	41,805		
LFG and Biogas Total Flow (MMBT	701	700	708	697	672	672	706	697	705	716	727	731	690	21,763		
Average Methane Content (%)	50.8	51.4	51.5	50.8	49.3	50.6	51.3	50.4	51.4	52.2	52.6	51.7	52.1	51.4		
Engine 1 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	743		
Engine 2 Hours	-	-	-	-	-	-	-	-	-	-	-	-	-	377		
Engine 3 Hours	24	24	24	24	24	23	24	24	24	24	24	24	24	456		
Engine 4 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	654		
Generator 1 Power Output (kWhr)	17,978	18,746	19,130	18,142	17,986	19,310	18,904	18,598	18,808	19,188	19,430	19,366	18,306	582,842		
Generator 2 Power Output (kWhr)	-	-	-	-	-	-	-	-	-	-	-	-	-	293,244		
Generator 3 Power Output (kWhr)	19,126	18,300	17,944	17,808	17,948	15,484	17,962	17,962	17,962	17,960	17,962	18,156	16,594	337,444		
Generator 4 Power Output (kWhr)	17,948	18,614	19,712	19,200	17,950	19,274	18,640	17,948	17,946	18,726	19,706	19,728	19,318	511,416		
Gross Power Output (kWhr)	55,078	55,671	56,799	55,160	53,904	54,078	55,520	54,520	54,729	55,872	57,087	57,250	54,202	1,726,117		
Net Power Output (kWhr)	52,962	53,568	54,768	53,108	51,862	52,072	53,454	52,472	52,634	53,794	55,038	55,132	52,126	1,664,358		
Power Sold as metered by NStar, (l	52,827	53,421	54,628	52,993	51,753	51,941	53,296	52,347	52,479	53,638	54,904	55,011	51,968	1,661,081	CRMCB inplant	
Offgrid REC's (kWhr)	2,116	2,103	2,032	2,050	2,044	2,005	2,066	2,048	2,095	2,078	2,049	2,118	2,076	61,760	13,472	
Calculated Performance Results															22%	
Daily															of total in-plant	
Power output (kW average whe															power	
Generator 1	749	781	797	756	749	805	788	775	784	800	810	807	763			
Generator 2	-	-	-	-	-	-	-	-	-	-	-	-	-			
Generator 3	797	763	748	742	748	673	748	748	748	748	748	757	691			
Generator 4	748	776	821	800	748	803	777	748	748	780	821	822	805			
Power output (kW average over																
Facility Gross	2,295	2,320	2,367	2,298	2,246	2,253	2,313	2,272	2,280	2,328	2,379	2,385	2,258			
Facility Net	2,207	2,232	2,282	2,213	2,161	2,170	2,227	2,186	2,193	2,241	2,293	2,297	2,172			
In-plant load	88	88	85	86	85	84	86	85	87	87	85	88	87			
Daily availability factor																
Facility	75%	75%	75%	75%	75%	74%	75%	75%	75%	75%	75%	75%	75%			
Engine 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 2	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Engine 3	100%	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%			
Engine 4	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Daily capacity factor																
Facility	70%	70%	72%	70%	68%	68%	70%	69%	69%	71%	72%	72%	68%			
Engine 1	91%	95%	97%	92%	91%	98%	95%	94%	95%	97%	98%	98%	92%			
Engine 2	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Engine 3	97%	92%	91%	90%	91%	82%	91%	91%	91%	91%	91%	92%	84%			
Engine 4	91%	94%	100%	97%	91%	97%	94%	91%	91%	95%	100%	100%	98%			
Cumulative by engine																
Engine operating run hours in t																
Max Cumulative Available,	455	479	503	527	551	575	599	623	647	671	695	719	719			
Engine 1	455	479	503	527	551	575	599	623	647	671	695	719	719			
Engine 2	377	377	377	377	377	377	377	377	377	377	377	377	377			
Engine 3	169	193	217	241	265	288	312	336	360	384	408	432	432			
Engine 4	366	390	414	438	462	486	510	534	558	582	606	630	630			
Engine operating run hours tota																
Engine 1	90,135	90,159	90,183	90,207	90,231	90,255	90,279	90,303	90,327	90,351	90,375	90,399	90,399			
Engine 2	86,369	86,369	86,369	86,369	86,369	86,369	86,369	86,369	86,369	86,369	86,369	86,369	86,369			
Engine 3	88,261	88,285	88,309	88,333	88,357	88,380	88,404	88,428	88,452	88,476	88,500	88,524	88,524			
Engine 4	86,037	86,061	86,085	86,109	86,133	86,157	86,181	86,205	86,229	86,253	86,277	86,301	86,301			
Cumulative availability, %																
Engine 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 2	83%	79%	75%	72%	68%	66%	63%	61%	58%	56%	54%	52%	52%			
Engine 3	37%	40%	43%	46%	48%	50%	52%	54%	56%	57%	59%	60%	60%			
Engine 4	80%	81%	82%	83%	84%	85%	85%	86%	86%	87%	87%	88%	88%			
Engine cumulative gross output																
Max cumulative capacity on	15,675	16,500	17,325	18,150	18,975	19,800	20,625	21,450	22,275	23,100	23,925	24,750	24,750			
Engine 1	14,904	15,685	16,482	17,238	17,988	18,792	19,580	20,355	21,138	21,938	22,747	23,554	23,510			
Engine 2	12,449	12,449	12,449	12,449	12,449	12,449	12,449	12,449	12,449	12,449	12,449	12,449	12,449			
Engine 3	6,407	7,170	7,917	8,659	9,407	10,080	10,829	11,577	12,326	13,074	13,822	14,579	14,514			
Engine 4	12,342	13,118	13,939	14,739	15,487	16,290	17,067	17,815	18,562	19,343	20,164	20,986	20,969			
Cumulative capacity factor, %																
Engine 1	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%			
Engine 2	79%	75%	72%	69%	66%	63%	60%	58%	56%	54%	52%	50%	50%			
Engine 3	41%	43%	46%	48%	50%	51%	53%	54%	55%	57%	58%	59%	59%			
Engine 4	79%	80%	80%	83%	82%	82%	83%	83%	83%	84%	84%	85%	85%			
Cumulative by Facility in month																
Max cumulative available engi	1,824	1,920	2,016	2,112	2,208	2,304	2,400	2,496	2,592	2,688	2,784	2,880	2,880			
Actual cumulative engine run h	1,367	1,439	1,511	1,583	1,655	1,726	1,798	1,870	1,942	2,014	2,086	2,158	2,158			
Cumulative Availability, %	74.9%	74.9%	75.0%	75.0%	75.0%	74.9%	74.9%	74.9%	74.9%	74.9%	74.9%	74.9%	74.9%			
Max cumulative gross output, k	1,501,500	1,580,700	1,659,900	1,739,100	1,818,300	1,897,500	1,976,700	2,055,900	2,135,100	2,214,300	2,293,500	2,372,700	2,372,700			
Actual cumulative gross output,	1,061,325	1,116,996	1,173,795	1,228,955	1,282,859	1,336,937	1,392,457	1,446,977	1,501,706	1,557,578	1,614,665	1,671,915	1,668,867			
Cumulative Capacity Factor	70.7%	70.7%	70.7%	70.7%	70.6%	70.5%	70.4%	70.4%	70.3%	70.3%	70.4%	70.5%	70.3%			
Cumulative fuel input, MMBtu f	13,342	14,042	14,751	15,447	16,119	16,792	17,497	18,194	18,899	19,615	20,342	21,073	21,032			
Cumulative gross output, kWhr	1,061,325	1,116,996	1,173,795	1,228,955	1,282,859	1,336,937	1,392,457	1,446,977	1,501,706	1,557,578	1,614,665	1,671,915	1,668,867			
Heat Rate																
Daily heat rate, Btu/kWe gross	11,456	11,321	11,224	11,372	11,221	11,193	11,442	11,502	11,603	11,536	11,464	11,488	11,456			

		Sunday 3/19/2017	Monday 3/20/2017	Tuesday 3/21/2017	Wednesday 3/22/2017	Thursday 3/23/2017	Friday 3/24/2017	Saturday 3/25/2017	Sunday 3/26/2017	Monday 3/27/2017	Tuesday 3/28/2017	Wednesday 3/29/2017	Thursday 3/30/2017	Friday 3/31/2017	TOTAL	Biogas	LFG
Daily heat rate, Btu/kWe gross		12,726	12,576	12,469	12,632	12,465	12,434	12,711	12,777	12,889	12,815	12,735	12,762	12,726			
Cumulative heat rate, Btu/kWe		11,317	11,317	11,312	11,315	11,311	11,306	11,312	11,319	11,329	11,337	11,341	11,346	11,345			
Cumulative heat rate, Btu/kWe		12,571	12,572	12,567	12,570	12,565	12,560	12,566	12,574	12,585	12,594	12,599	12,604	12,603			
Cumulative by Facility starting C.																	
Max cumulative available engine		7,392	7,488	7,584	7,680	7,776	7,872	7,968	8,064	8,160	8,256	8,352	8,448	8,448			
Actual cumulative engine run h		5,953	6,025	6,097	6,169	6,241	6,312	6,384	6,456	6,528	6,600	6,672	6,744	6,744			
Cumulative Availability, %		80.5%	80.5%	80.4%	80.3%	80.3%	80.2%	80.1%	80.1%	80.0%	79.9%	79.9%	79.8%	79.8%			
Max cumulative gross output, kW		6,095,100	6,174,300	6,253,500	6,332,700	6,411,900	6,491,100	6,570,300	6,649,500	6,728,700	6,807,900	6,887,100	6,966,300	6,966,300			
Actual cumulative gross output, kW		4,486,799	4,542,470	4,599,269	4,654,429	4,708,333	4,762,411	4,817,931	4,872,451	4,927,180	4,983,052	5,040,139	5,097,389	5,094,341			
Cumulative Capacity Factor		73.6%	73.6%	73.5%	73.5%	73.4%	73.4%	73.3%	73.3%	73.2%	73.2%	73.2%	73.2%	73.1%			
Cumulative fuel input, MMBtu		55,843	56,544	57,252	57,949	58,620	59,293	59,999	60,695	61,401	62,117	62,844	63,574	63,533			
Cumulative gross output, kWh		4,486,799	4,542,470	4,599,269	4,654,429	4,708,333	4,762,411	4,817,931	4,872,451	4,927,180	4,983,052	5,040,139	5,097,389	5,094,341			
Cumulative heat rate, Btu/kWe		11,204	11,205	11,206	11,208	11,208	11,208	11,210	11,214	11,218	11,221	11,224	11,227	11,227			
Cumulative heat rate, Btu/kWe		12,446	12,448	12,448	12,450	12,450	12,450	12,453	12,457	12,462	12,466	12,469	12,472	12,471			
Service																	
Engine 1																	
Engine 2																	
Engine 3																	
Engine 4																	
Oil - oil and filter change																	
Service - plugs, air filter, valve insp																	
Precipitation																	
NSTAR Power Reports		Sunday 3/19/2017	Monday 3/20/2017	Tuesday 3/21/2017	Wednesday 3/22/2017	Thursday 3/23/2017	Friday 3/24/2017	Saturday 3/25/2017	Sunday 3/26/2017	Monday 3/27/2017	Tuesday 3/28/2017	Wednesday 3/29/2017	Thursday 3/30/2017	Friday 3/31/2017	TOTAL		
Date																	
Hour																	
1		2,199	2,198	2,300	2,223	2,156	2,153	2,298	2,225	2,150	2,205	2,302	2,296	2,248			
2		2,202	2,202	2,277	2,236	2,159	2,156	2,298	2,227	2,153	2,184	2,300	2,301	2,249			
3		2,202	2,203	2,289	2,302	2,160	2,157	2,299	2,228	2,152	2,200	2,302	2,302	2,250			
4		2,198	2,200	2,299	2,249	2,156	2,154	2,228	2,225	2,151	2,222	2,300	2,300	2,247			
5		2,201	2,202	2,302	2,285	2,160	2,157	2,226	2,227	2,153	2,208	2,301	2,301	2,249			
6		2,201	2,203	2,303	2,295	2,160	2,028	2,294	2,228	2,155	2,188	2,275	2,260	2,250			
7		2,199	2,201	2,248	2,267	2,158	1,579	2,257	2,226	2,152	2,172	2,292	2,227	2,248			
8		2,202	2,166	2,282	2,256	2,159	1,674	2,227	2,228	2,153	2,176	2,243	2,320	2,249			
9		2,202	2,146	2,275	2,231	2,152	2,042	2,227	2,191	2,149	2,150	2,229	2,344	2,077			
10		2,198	2,142	2,266	2,223	2,151	2,170	2,188	2,154	2,144	2,144	2,246	1,929	1,820			
11		2,200	2,147	2,226	2,225	2,153	2,200	2,179	2,156	2,149	2,144	2,282	2,323	2,150			
12		2,204	2,154	2,289	2,228	2,154	2,201	2,229	2,157	2,218	2,206	2,268	2,334	2,239			
13		2,200	2,220	2,254	2,225	2,151	2,200	2,225	2,155	2,220	2,219	2,298	2,332	2,059			
14		2,203	2,222	2,268	2,227	2,154	2,207	2,230	2,156	2,203	2,265	2,300	2,333	1,843			
15		2,202	2,228	2,268	1,788	2,156	2,209	2,181	2,158	2,199	2,278	2,301	2,334	1,529			
16		2,200	2,267	2,283	2,146	2,154	2,248	2,212	2,155	2,224	2,262	2,300	2,330	2,055			
17		2,204	2,303	2,304	2,184	2,162	2,298	2,180	2,158	2,229	2,299	2,305	2,332	2,276			
18		2,204	2,302	2,269	2,276	2,162	2,301	2,205	2,158	2,229	2,300	2,306	2,332	2,276			
19		2,200	2,296	2,301	2,226	2,158	2,301	2,225	2,155	2,227	2,300	2,301	2,332	2,274			
20		2,203	2,301	2,289	2,228	2,159	2,303	2,227	2,157	2,229	2,301	2,303	2,336	2,274			
21		2,203	2,303	2,234	2,202	2,155	2,302	2,172	2,157	2,229	2,304	2,302	2,321	2,278			
22		2,198	2,249	2,256	2,156	2,153	2,299	2,152	2,155	2,226	2,302	2,284	2,273	2,274			
23		2,200	2,293	2,288	2,158	2,155	2,301	2,156	2,157	2,190	2,304	2,301	2,252	2,277			
24		2,202	2,273	2,258	2,157	2,156	2,301	2,181	2,154	2,195	2,305	2,263	2,267	2,277			
TOTAL		52,827	53,421	54,628	52,993	51,753	51,941	53,296	52,347	52,479	53,638	54,904	55,011	51,968			
Cumulative Output Sold, kW		1,022,702	1,076,123	1,130,751	1,183,744	1,235,497	1,287,438	1,340,734	1,393,081	1,445,560	1,499,198	1,554,102	1,609,113	1,661,081			
Transformer and line efficiency		99.7%	99.7%	99.7%	99.8%	99.8%	99.7%	99.7%	99.8%	99.7%	99.7%	99.8%	99.8%	99.7%	0.0%		
Hourly average		2,201	2,226	2,276	2,208	2,156	2,164	2,221	2,181	2,187	2,235	2,288	2,292	2,165	2,233		

FEBRUARY 2017																		
		Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	
		2/1/2017	2/2/2017	2/3/2017	2/4/2017	2/5/2017	2/6/2017	2/7/2017	2/8/2017	2/9/2017	2/10/2017	2/11/2017	2/12/2017	2/13/2017	2/14/2017	2/15/2017	2/16/2017	
LFG and Biogas Flow to the Engines (KSCF)		1,475	1,395	1,408	1,429	1,399	1,372	1,352	1,311	1,330	1,286	1,365	1,242	1,307	1,351	1,275	1,335	
LFG and Biogas Flow to the Engines (MMBTU HHV)		746	706	717	722	722	713	742	727	745	699	742	672	738	737	713	741	
LFG and Biogas Flow to the Flare (KSCF)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Flow to the Flare (MMBTU HHV)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Total Flow (KSCF)		1,475	1,395	1,408	1,429	1,399	1,372	1,352	1,311	1,330	1,286	1,365	1,242	1,307	1,351	1,275	1,335	
LFG and Biogas Total Flow (MMBTU HHV)		746	706	717	722	722	713	742	727	745	699	742	672	738	737	713	741	
Average Methane Content (%)		50.0	50.0	50.3	49.9	51.0	51.3	54.2	54.8	55.3	53.7	53.7	53.5	55.8	53.9	55.3	54.9	
Engine 1 Hours		24	23	25	24	24	24	24	23	24	24	24	24	24	24	24	24	
Engine 2 Hours		24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Engine 3 Hours		15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	
Engine 4 Hours		24	24	24	24	24	24	24	24	24	21	24	24	24	24	24	24	
Generator 1 Power Output (kWhr)		16,834	19,740	19,742	19,742	19,736	19,740	19,822	19,162	19,734	19,736	19,736	15,234	19,228	19,736	19,734	17,786	
Generator 2 Power Output (kWhr)		17,094	19,718	19,720	19,720	19,716	19,718	19,804	19,216	19,710	19,712	19,712	15,272	19,184	19,714	19,716	12,666	
Generator 3 Power Output (kWhr)		7,440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,010	
Generator 4 Power Output (kWhr)		17,574	19,696	19,698	19,702	19,696	19,702	19,782	19,198	19,694	17,102	19,694	15,440	19,348	19,694	19,690	18,242	
Gross Power Output (kWhr)		58,957	59,181	59,186	59,188	59,176	59,188	59,435	57,583	59,096	56,521	59,098	46,129	57,802	59,190	59,187	57,736	
Net Power Output (kWhr)		56,980	57,264	57,240	57,288	57,280	57,270	57,580	55,752	57,144	54,636	57,222	44,380	55,926	57,304	57,366	55,896	
Power Sold as metered by NStar, (kWhr)		56,867	57,150	57,140	57,183	57,167	57,139	57,452	55,608	57,058	54,581	57,135	44,411	55,729	57,192	57,250	55,777	
Offgrid RECs (kWhr)		1,975	1,917	1,947	1,899	1,896	1,919	1,854	1,833	1,951	1,884	1,876	1,748	1,878	1,885	1,822	1,839	
Calculated Performance Results																		
Daily																		
Power output (kW average when running)																		
Generator 1		701	858	790	823	822	823	826	833	822	822	822	635	801	822	822	741	
Generator 2		712	822	822	822	822	822	825	801	821	821	821	636	799	821	822	745	
Generator 3		496	-	-	-	-	-	-	-	-	-	-	-	-	-	-	563	
Generator 4		732	821	821	821	821	821	824	800	821	814	821	643	806	821	820	760	
Power output (kW average over 24-hrs)																		
Facility Gross		2,457	2,466	2,466	2,466	2,466	2,466	2,476	2,399	2,462	2,355	2,462	1,922	2,408	2,466	2,466	2,406	
Facility Net		2,374	2,386	2,385	2,387	2,387	2,386	2,399	2,323	2,381	2,277	2,384	1,849	2,330	2,388	2,390	2,329	
In-plant load		82	80	81	79	79	80	77	76	81	79	78	73	78	79	76	77	
Daily availability factor																		
Facility		91%	74%	76%	75%	75%	75%	75%	74%	75%	72%	75%	75%	75%	75%	75%	84%	
Engine 1		100%	96%	104%	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	
Engine 2		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Engine 3		63%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	67%	
Engine 4		100%	100%	100%	100%	100%	100%	100%	100%	100%	88%	100%	100%	100%	100%	100%	100%	
Daily capacity factor																		
Facility		74%	75%	75%	75%	75%	75%	73%	75%	71%	75%	58%	73%	75%	75%	75%	73%	
Engine 1		85%	104%	96%	100%	100%	100%	101%	100%	100%	100%	100%	77%	97%	100%	100%	90%	
Engine 2		86%	100%	100%	100%	100%	100%	100%	97%	100%	100%	100%	77%	97%	100%	100%	90%	
Engine 3		60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	68%	
Engine 4		89%	99%	99%	100%	99%	100%	100%	97%	99%	99%	99%	78%	98%	99%	99%	92%	
Cumulative by engine																		
Engine operating run hours in the month																		
Max Cumulative Available, hours		24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	
Engine 1		24	47	72	96	120	144	168	191	215	239	263	287	311	335	359	383	
Engine 2		24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	377	
Engine 3		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	31	
Engine 4		24	48	72	96	120	144	168	192	216	237	261	285	309	333	357	381	
Engine operating run hours total from 0 hours																		
Engine 1		89,034	89,058	89,081	89,106	89,130	89,154	89,178	89,202	89,225	89,249	89,273	89,297	89,321	89,345	89,369	89,393	
Engine 2		85,461	85,485	85,509	85,533	85,557	85,581	85,605	85,629	85,653	85,677	85,701	85,725	85,749	85,773	85,797	85,821	
Engine 3		87,975	87,990	87,990	87,990	87,990	87,990	87,990	87,990	87,990	87,990	87,990	87,990	87,990	87,990	87,990	88,006	
Engine 4		85,028	85,052	85,076	85,100	85,124	85,148	85,172	85,196	85,220	85,244	85,265	85,289	85,313	85,337	85,361	85,385	
Cumulative availability, %		February 1, 2017 @ 00:00 hours																
Engine 1		100%	98%	100%	100%	100%	100%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%	
Engine 2		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	98%	
Engine 3		63%	31%	21%	16%	13%	10%	9%	8%	7%	6%	6%	5%	5%	4%	4%	8%	
Engine 4		100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	99%	99%	99%	99%	99%	99%	
Engine cumulative gross output, kWhr																		
Max cumulative capacity one engine		825	1,650	2,475	3,300	4,125	4,950	5,775	6,600	7,425	8,250	9,075	9,900	10,725	11,550	12,375	13,200	
Engine 1		701	1,560	2,349	3,172	3,994	4,817	5,643	6,476	7,298	8,120	8,943	9,577	10,379	11,201	12,023	12,764	
Engine 2		712	1,534	2,356	3,177	3,999	4,820	5,645	6,466	7,267	8,089	8,910	9,546	10,346	11,167	11,989	12,734	
Engine 3		496	496	496	496	496	496	496	496	496	496	496	496	496	496	496	1,059	
Engine 4		732	1,553	2,374	3,195	4,015	4,836	5,660	6,460	7,281	8,095	8,916	9,559	10,365	11,186	12,006	12,766	
Cumulative capacity factor, %																		
Engine 1		85%	95%	95%	96%	97%	97%	98%	98%	98%	98%	99%	97%	97%	97%	97%	97%	
Engine 2		86%	93%	95%	96%	97%	97%	98%	98%	98%	98%	98%	96%	96%	97%	97%	96%	
Engine 3		60%	30%	20%	15%	12%	10%	9%	8%	7%	6%	5%	5%	5%	4%	4%	8%	
Engine 4		89%	94%	96%	97%	97%	98%	98%	98%	98%	98%	98%	97%	97%	97%	97%	97%	
Cumulative by Facility in month																		
Max cumulative available engine run hours		96	192	288	384	480	576	672	768	864	960	1,056	1,152	1,248	1,344	1,440	1,536	
Actual cumulative engine run hours		87	158	231	303	375	447	519	590	662	731	803	875	947	1,019	1,091	1,172	
Cumulative Availability, %		90.6%	82.3%	80.2%	78.9%	78.1%	77.6%	77.2%	76.8%	76.6%	76.1%	76.0%	76.0%	75.9%	75.8%	75.8%	76.3%	
Max cumulative gross output, kWhr		79,200	158,400	237,600	316,800	396,000	475,200	554,400	633,600	712,800	792,000	871,200	950,400	1,029,600	1,108,800	1,188,000	1,267,200	

	Wednesday 2/1/2017	Thursday 2/2/2017	Friday 2/3/2017	Saturday 2/4/2017	Sunday 2/5/2017	Monday 2/6/2017	Tuesday 2/7/2017	Wednesday 2/8/2017	Thursday 2/9/2017	Friday 2/10/2017	Saturday 2/11/2017	Sunday 2/12/2017	Monday 2/13/2017	Tuesday 2/14/2017	Wednesday 2/15/2017	Thursday 2/16/2017
Actual cumulative gross output, kWhr	58,957	118,138	177,324	236,512	295,688	354,876	414,311	471,894	530,990	587,511	646,609	692,738	750,540	809,730	868,917	926,653
Cumulative Capacity Factor	74.4%	74.6%	74.6%	74.7%	74.7%	74.7%	74.7%	74.5%	74.5%	74.2%	74.2%	72.9%	72.9%	73.0%	73.1%	73.1%
Cumulative fuel input, MMBtu HHV	746	1,452	2,168	2,890	3,612	4,325	5,067	5,794	6,539	7,238	7,979	8,652	9,389	10,126	10,840	11,581
Cumulative gross output, kWhr	58,957	118,138	177,324	236,512	295,688	354,876	414,311	471,894	530,990	587,511	646,609	692,738	750,540	809,730	868,917	926,653
Heat Rate																
Daily heat rate, Btu/kWe gross LHV	11,387	10,734	10,898	10,983	10,983	10,841	11,237	11,371	11,345	11,125	11,299	13,118	11,486	11,212	10,849	11,553
Daily heat rate, Btu/kWe gross HHV	12,650	11,924	12,106	12,200	12,201	12,043	12,483	12,632	12,603	12,358	12,552	14,572	12,759	12,455	12,052	12,834
Cumulative heat rate, Btu/kWe gross LHV	11,387	11,060	11,006	11,000	10,997	10,971	11,009	11,053	11,086	11,089	11,109	11,242	11,261	11,258	11,230	11,250
Cumulative heat rate, Btu/kWe gross HHV	12,650	12,286	12,226	12,220	12,216	12,187	12,229	12,279	12,315	12,319	12,340	12,489	12,510	12,506	12,475	12,497
Cumulative by Facility starting Calendar Year																
Max cumulative available engine run hours	2,976	3,072	3,168	3,264	3,360	3,456	3,552	3,648	3,744	3,840	3,936	4,032	4,128	4,224	4,320	4,416
Actual cumulative engine run hours	2,649	2,720	2,793	2,865	2,937	3,009	3,081	3,152	3,224	3,293	3,365	3,437	3,509	3,581	3,653	3,734
Cumulative Availability, %	89.0%	88.5%	88.2%	87.8%	87.4%	87.1%	86.7%	86.4%	86.1%	85.8%	85.5%	85.2%	85.0%	84.8%	84.6%	84.6%
Max cumulative gross output, kWhr	2,455,200	2,534,400	2,613,600	2,692,800	2,772,000	2,851,200	2,930,400	3,009,600	3,088,800	3,168,000	3,247,200	3,326,400	3,405,600	3,484,800	3,564,000	3,643,200
Actual cumulative gross output, kWhr	1,873,855	1,933,036	1,992,222	2,051,410	2,110,586	2,169,774	2,229,209	2,286,792	2,345,888	2,402,409	2,461,507	2,507,636	2,565,438	2,624,628	2,683,815	2,741,551
Cumulative Capacity Factor	76.3%	76.3%	76.2%	76.2%	76.1%	76.1%	76.1%	76.0%	75.9%	75.8%	75.8%	75.4%	75.3%	75.3%	75.3%	75.3%
Cumulative fuel input, MMBtu HHV	23,065	23,771	24,487	25,209	25,931	26,644	27,386	28,113	28,858	29,557	30,298	30,971	31,708	32,445	33,159	33,900
Cumulative gross output, kWhr	1,873,855	1,933,036	1,992,222	2,051,410	2,110,586	2,169,774	2,229,209	2,286,792	2,345,888	2,402,409	2,461,507	2,507,636	2,565,438	2,624,628	2,683,815	2,741,551
Cumulative heat rate, Btu/kWe gross LHV	11,080	11,070	11,065	11,062	11,060	11,054	11,059	11,067	11,074	11,075	11,080	11,128	11,126	11,128	11,122	11,131
Cumulative heat rate, Btu/kWe gross HHV	12,309	12,297	12,291	12,289	12,286	12,280	12,285	12,294	12,302	12,303	12,309	12,351	12,360	12,362	12,355	12,365
Service																
Engine 1																
Engine 2								Nstar trip				Utility Trip				
Engine 3								bump on line	Snow Storm			Mirrored bits alarm				
Engine 4																
Oil - oil and filter change																
Service - plugs, air filter, valve inspection and adjustment																
Precipitation																
NSTAR Power Reports	Wednesday 2/1/2017	Thursday 2/2/2017	Friday 2/3/2017	Saturday 2/4/2017	Sunday 2/5/2017	Monday 2/6/2017	Tuesday 2/7/2017	Wednesday 2/8/2017	Thursday 2/9/2017	Friday 2/10/2017	Saturday 2/11/2017	Sunday 2/12/2017	Monday 2/13/2017	Tuesday 2/14/2017	Wednesday 2/15/2017	Thursday 2/16/2017
Hour																
1	2,440	2,384	2,383	2,382	2,383	2,382	2,385	2,416	2,378	2,377	2,383	2,382	1,138	2,387	2,390	2,388
2	2,439	2,383	2,384	2,383	2,380	2,382	2,388	2,414	2,379	2,374	2,385	2,377	2,187	2,387	2,387	2,387
3	2,437	2,380	2,384	2,381	2,382	2,380	2,384	2,412	2,378	2,373	2,381	2,377	2,383	2,383	2,387	2,386
4	2,423	2,383	2,385	2,383	2,382	2,382	2,385	2,416	2,380	2,375	2,383	2,379	2,383	2,387	2,389	2,386
5	2,368	2,384	2,383	2,383	2,384	2,379	2,387	2,416	2,381	2,372	2,385	2,382	2,382	2,383	2,386	2,388
6	2,364	2,381	2,381	2,381	2,378	2,377	2,384	2,411	2,378	2,361	2,379	2,377	2,382	2,386	2,385	2,383
7	2,370	2,385	2,385	2,383	2,384	2,381	2,385	1,442	2,382	1,724	2,384	2,380	2,384	2,388	2,386	2,388
8	2,369	2,384	2,384	2,382	2,382	2,376	2,385	1,636	2,380	1,580	2,380	2,379	2,387	2,385	2,388	2,383
9	2,361	2,374	2,373	2,382	2,382	2,373	2,377	2,379	2,374	1,605	2,381	2,378	2,380	2,379	2,378	2,494
10	2,359	2,378	2,374	2,384	2,383	2,372	2,382	2,378	2,380	2,082	2,383	2,377	2,381	2,375	2,379	2,536
11	2,341	2,380	2,374	2,382	2,382	2,379	2,381	2,375	2,379	2,374	2,380	2,378	2,377	2,377	2,383	2,477
12	2,289	2,378	2,377	2,384	2,383	2,379	2,382	2,375	2,380	2,381	2,379	2,376	2,374	2,372	2,378	2,460
13	2,293	2,381	2,381	2,387	2,384	2,382	2,382	2,376	2,381	2,385	2,381	2,380	2,378	2,383	2,383	2,443
14	2,286	2,381	2,382	2,385	2,382	2,383	2,380	2,376	2,379	2,383	2,379	2,380	2,375	2,377	2,387	2,397
15	2,299	2,380	2,379	2,381	2,383	2,382	2,380	2,375	2,377	2,378	2,378	2,378	2,378	2,376	2,384	2,392
16	2,380	2,382	2,378	2,385	2,381	2,383	2,391	2,380	2,378	2,386	2,381	2,383	2,386	2,383	2,388	2,394
17	2,380	2,379	2,380	2,384	2,386	2,384	2,415	2,383	2,377	2,384	2,380	2,381	2,386	2,385	2,387	2,397
18	2,380	2,379	2,379	2,381	2,379	2,378	2,413	2,379	2,371	2,381	2,378	2,379	2,380	2,384	2,386	1,889
19	2,381	2,383	2,385	2,383	2,383	2,386	2,415	2,375	2,374	2,387	2,382	1,353	2,386	2,388	2,387	1,861
20	2,382	2,383	2,383	2,383	2,382	2,384	2,415	2,380	2,375	2,385	2,377	-	2,384	2,385	2,387	1,890
21	2,379	2,380	2,381	2,379	2,381	2,380	2,412	2,378	2,373	2,384	2,379	-	2,384	2,385	2,382	2,141
22	2,384	2,385	2,383	2,383	2,383	2,386	2,415	2,379	2,376	2,386	2,380	-	2,385	2,386	2,389	2,249
23	2,382	2,383	2,383	2,383	2,380	2,383	2,415	2,379	2,375	2,384	2,381	-	2,386	2,388	2,387	2,317
24	2,381	2,380	2,379	2,379	2,378	2,386	2,414	2,378	2,373	2,380	2,376	235	2,383	2,383	2,387	2,351
TOTAL	56,867	57,150	57,140	57,183	57,167	57,139	57,452	55,608	57,058	54,581	57,135	44,411	55,729	57,192	57,250	55,777
Cumulative Output Sold, kWhr	56,867	114,017	171,157	228,340	285,507	342,646	400,098	455,706	512,764	567,345	624,480	668,891	724,620	781,812	839,062	894,839
Transformer and line efficiency	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.7%	99.8%	99.9%	99.8%	100.1%	99.6%	99.8%	99.8%	99.8%
Hourly average	2,369	2,381	2,381	2,383	2,382	2,381	2,394	2,317	2,377	2,274	2,381	1,850	2,322	2,383	2,385	2,324

FEBRUARY 2017																
		Friday 2/17/2017	Saturday 2/18/2017	Sunday 2/19/2017	Monday 2/20/2017	Tuesday 2/21/2017	Wednesday 2/22/2017	Thursday 2/23/2017	Friday 2/24/2017	Saturday 2/25/2017	Sunday 2/26/2017	Monday 2/27/2017	Tuesday 2/28/2017	TOTAL	Biogas	LFG
LFG and Biogas Flow to the Engine		1,352	1,346	1,351	1,369	1,257	1,349	1,369	1,389	1,292	1,226	1,402	1,399	37,736	1,344	36,392
LFG and Biogas Flow to the Engine		734	725	719	708	675	734	741	738	697	671	733	728	20,182	976	19,206
LFG and Biogas Flow to the Flare (I		-	-	-	-	-	-	-	-	-	-	-	-	-	4.8%	95%
LFG and BiogasFlow to the Flare (I		-	-	-	-	-	-	-	-	-	-	-	-	-		
LFG and Biogas Total Flow (KSCF		1,352	1,346	1,351	1,369	1,257	1,349	1,369	1,389	1,292	1,226	1,402	1,399	37,736		
LFG and Biogas Total Flow (MMBT		734	725	719	708	675	734	741	738	697	671	733	728	20,182		
Average Methane Content. (%)		53.6	53.2	52.6	51.1	53.1	53.8	53.4	52.5	53.3	54.1	51.6	51.4	52.8		
Engine 1 Hours		24	24	24	24	24	24	24	24	23	24	24	24	670		
Engine 2 Hours		-	-	-	-	14	24	24	24	22	22	24	24	555		
Engine 3 Hours		24	24	24	24	5	-	-	-	-	-	-	-	132		
Engine 4 Hours		24	24	24	24	23	24	24	24	23	24	24	24	667		
Generator 1 Power Output (kWhr)		19,982	19,980	19,462	18,408	19,854	19,972	19,972	19,944	18,126	19,730	19,732	19,728	540,332		
Generator 2 Power Output (kWhr)		-	-	-	-	11,144	19,714	19,718	19,694	17,800	11,402	18,780	18,804	437,448		
Generator 3 Power Output (kWhr)		18,576	18,576	18,572	18,578	3,516	-	-	-	-	-	-	-	94,268		
Generator 4 Power Output (kWhr)		19,934	19,936	19,930	18,646	18,730	19,702	19,698	19,696	18,282	19,702	19,700	19,700	537,608		
Gross Power Output (kWhr)		58,478	58,484	57,956	55,639	53,260	59,459	59,461	59,402	54,279	50,909	58,289	58,307	1,610,576		
Net Power Output (kWhr)		56,536	56,548	56,016	53,670	51,556	57,662	57,646	57,516	52,602	49,298	56,398	56,446	1,558,422		
Power Sold as metered by NStar, (		56,427	56,409	55,871	53,520	51,478	57,548	57,506	57,359	52,481	49,211	56,316	56,364	1,555,329	CRMCB inplant	
Offgrid RECs (kWhr)		1,942	1,936	1,941	1,970	1,701	1,797	1,816	1,886	1,677	1,611	1,891	1,861	52,152	11,222	22%
Calculated Performance Results																
Daily																
Power output (kW average whe																of total in-plant power
Generator 1		833	833	811	767	827	832	832	831	788	822	822	822			
Generator 2		-	-	-	-	796	821	822	821	809	518	783	784			
Generator 3		774	774	774	774	703	-	-	-	-	-	-	-			
Generator 4		831	831	830	777	814	821	821	821	795	821	821	821			
Power output (kW average ove																
Facility Gross		2,437	2,437	2,415	2,318	2,219	2,477	2,478	2,475	2,262	2,121	2,429	2,429			
Facility Net		2,356	2,356	2,334	2,236	2,148	2,403	2,402	2,397	2,192	2,054	2,350	2,352			
In-plant load		81	81	81	82	71	75	76	79	70	67	79	78			
Daily availability factor																
Facility		75%	75%	75%	75%	69%	75%	75%	75%	71%	73%	75%	75%			
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%			
Engine 2		0%	0%	0%	0%	58%	100%	100%	100%	92%	92%	100%	100%			
Engine 3		100%	100%	100%	100%	21%	0%	0%	0%	0%	0%	0%	0%			
Engine 4		100%	100%	100%	100%	96%	100%	100%	100%	96%	100%	100%	100%			
Daily capacity factor																
Facility		74%	74%	73%	70%	67%	75%	75%	75%	69%	64%	74%	74%			
Engine 1		101%	101%	98%	93%	100%	101%	101%	101%	96%	100%	100%	100%			
Engine 2		0%	0%	0%	0%	96%	100%	100%	99%	98%	63%	95%	95%			
Engine 3		94%	94%	94%	94%	85%	0%	0%	0%	0%	0%	0%	0%			
Engine 4		101%	101%	101%	94%	99%	100%	99%	99%	96%	100%	99%	99%			
Cumulative by engine																
Engine operating run hours in t																
Max Cumulative Available,		408	432	456	480	504	528	552	576	600	624	648	672			
Engine 1		407	431	455	479	503	527	551	575	598	622	646	670			
Engine 2		377	377	377	377	391	415	439	463	485	507	531	555			
Engine 3		55	79	103	127	132	132	132	132	132	132	132	132			
Engine 4		405	429	453	477	500	524	548	572	595	619	643	667			
Engine operating run hours tole																
Engine 1		89,441	89,465	89,489	89,513	89,537	89,561	89,585	89,609	89,632	89,656	89,680	89,704			
Engine 2		85,838	85,838	85,838	85,838	85,852	85,876	85,900	85,924	85,946	85,968	85,992	86,016			
Engine 3		88,030	88,054	88,078	88,102	88,107	88,107	88,107	88,107	88,107	88,107	88,107	88,107			
Engine 4		85,433	85,457	85,481	85,505	85,528	85,552	85,576	85,600	85,623	85,647	85,671	85,695			
Cumulative availability, %																
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 2		92%	87%	83%	79%	78%	79%	80%	80%	81%	81%	82%	83%			
Engine 3		13%	18%	23%	26%	26%	25%	24%	23%	22%	21%	20%	20%			
Engine 4		99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%			
Engine cumulative gross output																
Max cumulative capacity or		14,025	14,850	15,675	16,500	17,325	18,150	18,975	19,800	20,625	21,450	22,275	23,100			
Engine 1		13,597	14,429	15,240	16,007	16,835	17,667	18,499	19,330	20,118	20,940	21,762	22,584			
Engine 2		12,734	12,734	12,734	12,734	13,530	14,351	15,173	15,993	16,802	17,321	18,103	18,887			
Engine 3		1,833	2,607	3,381	4,155	4,858	4,858	4,858	4,858	4,858	4,858	4,858	4,858			
Engine 4		13,597	14,428	15,258	16,035	16,849	17,670	18,491	19,312	20,107	20,928	21,748	22,569			
Cumulative capacity factor, %																
Engine 1		97%	97%	97%	97%	97%	97%	97%	98%	98%	98%	98%	98%			
Engine 2		91%	86%	81%	77%	78%	79%	80%	81%	81%	81%	81%	82%			
Engine 3		13%	18%	22%	25%	28%	27%	26%	25%	24%	23%	22%	21%			
Engine 4		97%	97%	97%	97%	97%	97%	97%	98%	97%	98%	98%	98%			
Cumulative by Facility in month																
Max cumulative available engi		1,632	1,728	1,824	1,920	2,016	2,112	2,208	2,304	2,400	2,496	2,592	2,688			
Actual cumulative engine run t		1,244	1,316	1,388	1,460	1,526	1,598	1,670	1,742	1,810	1,880	1,952	2,024			
Cumulative Availability, %		76.2%	76.2%	76.1%	76.0%	75.7%	75.7%	75.6%	75.6%	75.4%	75.3%	75.3%	75.3%			
Max cumulative gross output, k	1,346,400	1,425,600	1,504,800	1,584,000	1,663,200	1,742,400	1,821,600	1,900,800	1,980,000	2,059,200	2,138,400	2,217,600				

	Friday 2/17/2017	Saturday 2/18/2017	Sunday 2/19/2017	Monday 2/20/2017	Tuesday 2/21/2017	Wednesday 2/22/2017	Thursday 2/23/2017	Friday 2/24/2017	Saturday 2/25/2017	Sunday 2/26/2017	Monday 2/27/2017	Tuesday 2/28/2017	TOTAL	Biogas	LFG
Actual cumulative gross output, k	985,131	1,043,615	1,101,571	1,157,210	1,210,470	1,269,929	1,329,390	1,388,792	1,443,071	1,493,980	1,552,269	1,610,576			
Cumulative Capacity Factor	73.2%	73.2%	73.2%	73.1%	72.8%	72.9%	73.0%	73.1%	72.9%	72.6%	72.6%	72.6%			
Cumulative fuel input, MMBtu	12,314	13,039	13,759	14,466	15,142	15,876	16,616	17,354	18,051	18,722	19,454	20,182			
Cumulative gross output, kWhr	985,131	1,043,615	1,101,571	1,157,210	1,210,470	1,269,929	1,329,390	1,388,792	1,443,071	1,493,980	1,552,269	1,610,576			
Heat Rate															
Daily heat rate, Btu/kWe gross	11,294	11,162	11,172	11,448	11,412	11,114	11,212	11,185	11,551	11,860	11,314	11,238			
Daily heat rate, Btu/kWe gross	12,547	12,400	12,411	12,718	12,677	12,346	12,455	12,426	12,832	13,174	12,568	12,484			
Cumulative heat rate, Btu/kWe	11,253	11,247	11,244	11,253	11,260	11,254	11,252	11,249	11,260	11,281	11,282	11,280			
Cumulative heat rate, Btu/kWe	12,500	12,494	12,490	12,501	12,509	12,501	12,499	12,496	12,509	12,531	12,533	12,531			
Cumulative by Facility starting C															
Max cumulative available engi	4,512	4,608	4,704	4,800	4,896	4,992	5,088	5,184	5,280	5,376	5,472	5,568			
Actual cumulative engine run t	3,806	3,878	3,950	4,022	4,088	4,160	4,232	4,304	4,372	4,442	4,514	4,586			
Cumulative Availability, %	84.4%	84.2%	84.0%	83.8%	83.5%	83.3%	83.2%	83.0%	82.8%	82.6%	82.5%	82.4%			
Max cumulative gross output, k	3,722,400	3,801,600	3,880,800	3,960,000	4,039,200	4,118,400	4,197,600	4,276,800	4,356,000	4,435,200	4,514,400	4,593,600			
Actual cumulative gross output, k	2,800,029	2,858,513	2,916,469	2,972,108	3,025,368	3,084,827	3,144,288	3,203,690	3,257,969	3,308,878	3,367,167	3,425,474			
Cumulative Capacity Factor	75.2%	75.2%	75.2%	75.1%	74.9%	74.9%	74.9%	74.9%	74.8%	74.6%	74.6%	74.6%			
Cumulative fuel input, MMBtu	34,633	35,359	36,078	36,785	37,461	38,195	38,935	39,673	40,370	41,041	41,773	42,501			
Cumulative gross output, kWhr	2,800,029	2,858,513	2,916,469	2,972,108	3,025,368	3,084,827	3,144,288	3,203,690	3,257,969	3,308,878	3,367,167	3,425,474			
Cumulative heat rate, Btu/kWe	11,134	11,135	11,136	11,142	11,146	11,146	11,147	11,148	11,154	11,165	11,168	11,169			
Cumulative heat rate, Btu/kWe	12,369	12,370	12,370	12,377	12,382	12,381	12,383	12,384	12,391	12,403	12,406	12,407			
Service															
Engine 1															
Engine 2															
Engine 3															
Engine 4															
Oil - oil and filter change															
Service - plugs, air filter, valve insp															
Precipitation															
NSTAR Power Reports															
Date	Friday 2/17/2017	Saturday 2/18/2017	Sunday 2/19/2017	Monday 2/20/2017	Tuesday 2/21/2017	Wednesday 2/22/2017	Thursday 2/23/2017	Friday 2/24/2017	Saturday 2/25/2017	Sunday 2/26/2017	Monday 2/27/2017	Tuesday 2/28/2017	TOTAL		
Hour															
1	2,355	2,350	2,348	2,266	2,203	2,403	2,400	2,397	2,395	2,388	2,362	2,363			
2	2,354	2,349	2,350	2,263	2,205	2,401	2,402	2,397	2,394	1,745	2,361	2,362			
3	2,351	2,345	2,346	2,263	2,263	2,398	2,397	2,394	2,391	1,735	2,332	2,359			
4	2,355	2,349	2,350	2,266	2,255	2,402	2,401	2,396	2,395	2,006	2,317	2,362			
5	2,356	2,349	2,347	2,266	1,578	2,399	2,400	2,394	2,394	1,712	2,315	2,364			
6	2,355	2,349	2,346	2,263	1,597	2,397	2,396	2,391	2,391	1,664	2,314	2,357			
7	2,358	2,353	2,348	2,266	1,600	2,402	2,403	2,397	2,395	1,981	2,317	2,362			
8	2,356	2,352	2,349	2,266	1,603	2,401	2,402	2,392	1,178	1,984	2,315	2,336			
9	2,346	2,349	2,348	2,229	1,726	2,392	2,391	2,370	-	1,980	2,308	2,308			
10	2,349	2,352	2,351	2,186	1,926	2,392	2,394	2,354	1,193	1,987	2,338	2,309			
11	2,347	2,353	2,351	2,187	1,837	2,398	2,393	2,388	2,332	1,988	2,359	2,311			
12	2,346	2,351	2,348	2,185	1,896	2,394	2,390	2,387	2,385	1,986	2,354	2,310			
13	2,350	2,355	2,352	2,198	2,381	2,396	2,392	2,390	2,387	1,988	2,357	2,317			
14	2,348	2,354	2,352	2,269	2,397	2,394	2,393	2,390	2,386	1,989	2,357	2,322			
15	2,347	2,352	2,348	2,266	2,403	2,391	2,393	2,388	2,385	1,986	2,355	2,360			
16	2,352	2,355	2,353	2,270	2,405	2,399	2,398	2,388	2,388	1,990	2,360	2,364			
17	2,354	2,349	2,351	2,203	2,404	2,401	2,398	2,391	2,389	1,988	2,366	2,364			
18	2,349	2,348	2,339	2,181	2,398	2,395	2,395	2,391	2,386	2,062	2,363	2,361			
19	2,352	2,351	2,265	2,183	2,400	2,400	2,393	2,395	2,388	2,264	2,360	2,365			
20	2,351	2,350	2,265	2,180	2,402	2,399	2,396	2,395	2,386	2,335	2,364	2,365			
21	2,348	2,347	2,266	2,180	2,398	2,398	2,396	2,392	2,386	2,363	2,359	2,361			
22	2,351	2,351	2,267	2,182	2,401	2,401	2,396	2,396	2,388	2,365	2,362	2,360			
23	2,350	2,348	2,267	2,239	2,403	2,400	2,394	2,394	2,386	2,364	2,362	2,363			
24	2,347	2,348	2,264	2,263	2,397	2,395	2,393	2,392	2,383	2,361	2,359	2,359			
TOTAL	56,427	56,409	55,871	53,520	51,478	57,548	57,506	57,359	52,481	49,211	56,316	56,364			
Cumulative Output Sold, kW	951,266	1,007,675	1,063,546	1,117,066	1,168,544	1,226,092	1,283,598	1,340,957	1,393,438	1,442,649	1,498,965	1,555,329			
Transformer and line efficient	99.8%	99.8%	99.7%	99.7%	99.8%	99.8%	99.8%	99.7%	99.8%	99.8%	99.9%	99.9%	0.0%		
Hourly average	2,351	2,350	2,328	2,230	2,145	2,398	2,396	2,390	2,187	2,050	2,347	2,349	2,314		

JANUARY 2017																		
	Sunday 11/2017	Monday 12/2017	Tuesday 13/2017	Wednesday 14/2017	Thursday 15/2017	Friday 16/2017	Saturday 17/2017	Sunday 18/2017	Monday 19/2017	Tuesday 11/10/2017	Wednesday 11/11/2017	Thursday 11/12/2017	Friday 11/13/2017	Saturday 11/14/2017	Sunday 11/15/2017	Monday 11/16/2017	Tuesday 11/17/2017	Wednesday 11/18/2017
LFG and Biogas Flow to the Engines (KSCF)	1,407	1,443	1,403	1,447	1,454	1,493	1,351	1,316	1,346	1,316	1,435	1,417	1,472	1,404	1,353	1,356	1,319	1,283
LFG and Biogas Flow to the Engines (MMBTU HHV	739	744	759	797	771	778	712	698	695	701	773	769	742	719	714	717	712	705
LFG and Biogas Flow to the Engines (KSCF)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LFG and BiogasFlow to the Flare (MMBTU HHV)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LFG and Biogas Total Flow (KSCF)	1,407	1,443	1,403	1,447	1,454	1,493	1,351	1,316	1,346	1,316	1,435	1,417	1,472	1,404	1,353	1,356	1,319	1,283
LFG and Biogas Total Flow (MMBTU HHV)	739	744	759	797	771	778	712	698	695	701	773	769	742	719	714	717	712	705
Average Methane Content (%)	51.9	50.9	53.4	54.5	52.4	51.5	52.1	52.4	51.0	52.6	53.2	53.6	51.6	50.6	52.2	52.3	53.3	54.3
Engine 1 Hours	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	23
Engine 2 Hours	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24
Engine 3 Hours	24	24	24	23	18	24	1	-	-	9	24	18	24	16	-	-	-	-
Engine 4 Hours	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Generator 1 Power Output (kWhr)	18,098	17,982	18,954	19,830	19,086	18,264	19,628	19,978	19,982	18,044	19,092	18,710	15,428	16,404	19,736	19,740	19,742	18,446
Generator 2 Power Output (kWhr)	18,312	17,974	18,900	19,818	19,732	19,050	19,612	19,968	19,726	18,408	19,078	19,096	16,370	16,838	19,722	19,724	19,726	19,724
Generator 3 Power Output (kWhr)	4,946	4,946	4,850	5,654	4,978	5,796	438	-	-	2,004	6,406	7,198	13,220	8,506	-	-	-	-
Generator 4 Power Output (kWhr)	18,922	17,938	18,384	19,788	19,440	19,150	19,676	19,940	19,944	18,482	19,054	18,878	15,878	16,368	19,714	19,720	19,718	19,720
Gross Power Output (kWhr)	60,346	58,916	61,122	65,099	63,263	62,307	59,399	59,927	59,693	57,004	63,633	63,893	60,909	58,136	59,195	59,205	59,203	57,882
Net Power Output (kWhr)	58,446	56,980	59,216	63,204	60,266	57,548	57,443	58,074	57,744	55,114	61,636	62,058	58,972	56,288	57,466	57,358	57,282	56,500
Power Sold as metered by NStar, (kWhr)	58,333	56,870	59,063	63,038	61,181	60,163	57,475	58,013	57,696	55,032	61,487	61,933	58,877	56,232	57,407	57,293	57,199	55,950
Calculated RECs (Kwhr)	1,901	1,936	1,906	1,895	1,986	2,041	1,852	1,853	1,949	1,890	1,996	1,836	1,937	1,846	1,731	1,847	1,919	1,833
Calculated Performance Results																		
Daily																		
Power output (kW average when running																		
Generator 1	754	749	790	826	795	761	818	832	833	785	796	780	643	684	822	823	823	802
Generator 2	763	749	788	826	822	794	817	832	822	800	795	796	682	702	822	822	822	822
Generator 3	206	206	202	246	277	242	438	-	-	223	267	400	551	532	-	-	-	-
Generator 4	788	747	799	825	810	798	820	831	831	770	794	787	662	682	821	822	822	822
Power output (kW average over 24-hrs)																		
Facility Gross	2,514	2,455	2,547	2,712	2,636	2,596	2,475	2,497	2,487	2,375	2,651	2,662	2,538	2,422	2,466	2,467	2,467	2,412
Facility Net	2,435	2,374	2,467	2,634	2,553	2,511	2,398	2,420	2,406	2,296	2,568	2,586	2,457	2,345	2,394	2,390	2,387	2,335
In-plant load	79	81	79	79	83	85	77	77	81	79	83	76	81	77	72	77	80	76
Daily availability factor																		
Facility	100%	100%	99%	99%	94%	100%	76%	75%	75%	82%	100%	94%	100%	92%	75%	75%	75%	74%
Engine 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%	96%
Engine 2	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%	100%
Engine 3	100%	100%	100%	96%	75%	100%	4%	0%	0%	38%	100%	75%	100%	67%	0%	0%	0%	0%
Engine 4	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Daily capacity factor																		
Facility	76%	74%	77%	82%	80%	79%	75%	76%	75%	72%	80%	81%	77%	73%	75%	75%	75%	73%
Engine 1	91%	91%	96%	100%	96%	92%	99%	101%	101%	95%	96%	94%	78%	83%	100%	100%	100%	97%
Engine 2	92%	91%	95%	100%	100%	96%	99%	101%	100%	97%	96%	93%	85%	100%	100%	100%	100%	100%
Engine 3	25%	25%	24%	30%	34%	29%	53%	0%	0%	27%	32%	48%	67%	64%	0%	0%	0%	0%
Engine 4	96%	91%	97%	100%	98%	97%	99%	101%	101%	93%	96%	95%	80%	83%	100%	100%	100%	100%
Cumulative by engine																		
Engine operating run hours in the month																		
Max Cumulative Available, hours	24	48	72	96	120	144	168	192	216	240	264	288	311	336	360	384	408	432
Engine 1	24	48	72	96	120	144	168	192	216	239	263	287	312	335	359	383	407	430
Engine 2	24	48	72	96	120	144	168	192	216	239	263	287	311	335	359	383	407	431
Engine 3	24	48	72	95	113	137	138	138	138	147	171	189	213	229	229	229	229	229
Engine 4	24	48	71	95	119	143	167	191	215	239	263	287	311	335	359	383	407	431
Engine operating run hours total from 0 hours																		
Engine 1	88,294	88,318	88,346	88,390	88,414	88,438	88,462	88,486	88,510	88,533	88,557	88,581	88,605	88,629	88,653	88,677	88,701	88,724
Engine 2	84,719	84,743	84,767	84,791	84,815	84,839	84,863	84,887	84,911	84,935	84,958	84,982	85,006	85,030	85,054	85,078	85,102	85,126
Engine 3	87,516	87,540	87,564	87,588	87,611	87,629	87,653	87,654	87,654	87,654	87,654	87,654	87,705	87,729	87,745	87,745	87,745	87,745
Engine 4	84,324	84,348	84,372	84,395	84,419	84,443	84,467	84,491	84,515	84,539	84,563	84,587	84,611	84,635	84,659	84,683	84,707	84,731
Cumulative availability, %	January 1, 2017 @ 00:00 hours																	
Engine 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Engine 2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Engine 3	100%	100%	100%	99%	94%	95%	82%	72%	64%	61%	65%	66%	68%	68%	64%	60%	56%	53%
Engine 4	100%	100%	99%	99%	99%	99%	99%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Engine cumulative gross output, kWhr																		
Max cumulative capacity one engine	825	1,650	2,475	3,300	4,125	4,950	5,775	6,600	7,425	8,250	9,075	9,900	10,725	11,550	12,375	13,200	14,025	14,850
Engine 1	754	1,503	2,293	3,119	3,915	4,676	5,493	6,326	7,158	7,943	8,738	9,518	10,161	10,844	11,667	12,489	13,312	14,114
Engine 2	763	1,512	2,299	3,125	3,947	4,741	5,558	6,390	7,212	8,013	8,807	9,603	10,285	10,987	11,809	12,630	13,452	14,274
Engine 3	206	412	614	860	1,137	1,378	1,616	1,816	2,039	2,306	2,606	2,906	3,256	3,788	4,388	4,988	5,588	6,188
Engine 4	788	1,536	2,335	3,160	3,970	4,768	5,587	6,418	7,249	8,019	8,813	9,600	10,261	10,943	11,765	12,586	13,408	14,230
Cumulative capacity factor, %																		
Engine 1	91%	91%	93%	95%	95%	94%	95%	96%	96%	96%	96%	96%	95%	94%	94%	95%	95%	95%
Engine 2	92%	92%	93%	95%	96%	96%	96%	96%	97%	96%	96%	97%	96%	95%	95%	96%	96%	96%
Engine 3	25%	25%	25%	26%	28%	28%	28%	28%	28%	27%	25%	25%	30%	33%	31%	29%	27%	26%
Engine 4	96%	93%	94%	96%	96%	96%	97%	97%	98%	97%	97%	97%	96%	95%	95%	95%	96%	96%
Cumulative by Facility in mont																		
Max cumulative available engine run hours	96	192	288	384	480	576	672	768	864	960	1,056	1,152	1,248	1,344	1,440	1,536	1,632	1,728
Actual cumulative engine run hours	96	192	287	382	472	568	641	713	785	864	960	1,050	1,146	1,234	1,306	1,378	1,450	1,521
Cumulative Availability, %	100.0%	100.0%	99.7%	99.5%	98.3%	98.6%	98.6%	95.4%	92.8%	90.9%	90.0%	91.1%	91.8%	91.8%	90.7%	89.7%	88.8%	88.0%
Max cumulative gross output, kWhr	79,200	158,400	237,600	316,800	396,000	475,200	554,400	633,600	712,800	792,000	871,200	950,400	1,029,600	1,108,800	1,188,000	1,267,200	1,346,400	1,425,600
Actual cumulative gross output, kWhr	60,346	119,262	180,384	245,483	308,746	371,053	430,452	490,379	550,072	607,076	670,709	734,602	795,511	853,647	912,842	972,047	1,031,250	1,089,132
Cumulative Capacity Factor	76.2%	75.3%	75.9%	77.5%	78.0%	78.1%	77.6%	77.4%	77.2%	76.7%	77.0%	77.3%	77.5%	77.0%	76.8%	76.7%	76.6%	76.4%
Cumulative fuel input, MMBtu HHV	739	1,483	2,242	3,039	3,810	4,588	5,300	5,998	6,692	7,393	8,166	8,935	9,704	10,423	11,137	11,854	12,566	13,271
Cumulative gross output, kWhr	60,346	119,262	180,384	245,483	308,746	371,053	430,452											

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday		
		1/1/2017	1/2/2017	1/3/2017	1/4/2017	1/5/2017	1/6/2017	1/7/2017	1/8/2017	1/9/2017	1/10/2017	1/11/2017	1/12/2017	1/13/2017	1/14/2017	1/15/2017	1/16/2017	1/17/2017	1/18/2017		
	Daily heat rate, Btu/kWe gross HHV	12,243	12,630	12,413	12,247	12,189	12,482	11,988	11,648	11,636	12,294	12,148	12,033	12,630	12,359	12,069	12,110	12,020	12,187		
	Cumulative heat rate, Btu/kWe gross LHV	11,021	11,193	11,187	11,144	11,109	11,130	11,083	11,010	10,952	10,963	10,960	10,949	10,981	10,991	10,983	10,978	10,969	10,969		
	Cumulative heat rate, Btu/kWe gross HHV	12,243	12,434	12,427	12,379	12,340	12,364	12,312	12,231	12,166	12,178	12,175	12,163	12,199	12,210	12,201	12,195	12,185	12,185		
Cumulative by Facility starting Calendar Year																					
	Max cumulative available engine run hours	96	192	288	384	480	576	672	768	864	960	1,056	1,152	1,248	1,344	1,440	1,536	1,632	1,728		
	Actual cumulative engine run hours	96	192	287	382	472	568	641	713	785	864	960	1,050	1,146	1,234	1,306	1,378	1,450	1,521		
	Cumulative Availability, %	100.0%	100.0%	99.7%	99.5%	98.3%	98.6%	95.4%	92.8%	90.9%	90.0%	90.9%	91.1%	91.8%	91.8%	90.7%	89.7%	88.8%	88.0%		
	Max cumulative gross output, kWhr	79,200	158,400	237,600	316,800	396,000	475,200	554,400	633,600	712,800	792,000	871,200	950,400	1,029,600	1,108,800	1,188,000	1,267,200	1,346,400	1,425,600		
	Actual cumulative gross output, kWhr	60,346	119,262	180,384	245,483	308,746	371,053	430,452	490,379	550,072	607,076	670,709	734,602	795,511	853,647	912,842	972,047	1,031,250	1,089,132		
	Cumulative Capacity Factor	76.2%	75.3%	75.9%	77.5%	78.0%	78.1%	77.6%	77.4%	77.2%	76.7%	77.0%	77.3%	77.3%	77.0%	76.8%	76.7%	76.6%	76.4%		
	Cumulative fuel input, MMBtu HHV	739	1,483	2,242	3,039	3,810	4,588	5,300	5,998	6,692	7,393	8,166	8,935	9,704	10,423	11,137	11,854	12,566	13,271		
	Cumulative gross output, kWhr	60,346	119,262	180,384	245,483	308,746	371,053	430,452	490,379	550,072	607,076	670,709	734,602	795,511	853,647	912,842	972,047	1,031,250	1,089,132		
	Cumulative heat rate, Btu/kWe gross LHV	11,021	11,193	11,187	11,144	11,109	11,130	11,083	11,010	10,952	10,963	10,960	10,949	10,981	10,991	10,983	10,978	10,969	10,969		
	Cumulative heat rate, Btu/kWe gross HHV	12,243	12,434	12,427	12,379	12,340	12,364	12,312	12,231	12,166	12,178	12,175	12,163	12,199	12,210	12,201	12,195	12,185	12,185		
Service																					
	Engine 1																		Oil Change -1st s		
	Engine 2																		Oil Change		
	Engine 3																				
	Engine 4																		Oil Change		
Oil - oil and filter change										Start up of MV Technologies				H2S Treatment started							
Service - plugs, air filter, valve inspection and adjustment										continuous operation											
	Precipitation																				
	NSTAR Power Reports	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday		
	Date	1/1/2017	1/2/2017	1/3/2017	1/4/2017	1/5/2017	1/6/2017	1/7/2017	1/8/2017	1/9/2017	1/10/2017	1/11/2017	1/12/2017	1/13/2017	1/14/2017	1/15/2017	1/16/2017	1/17/2017	1/18/2017		
	Hour																				
	1	2,586	2,371	2,373	2,588	2,728	2,552	2,467	2,417	2,420	2,399	2,633	2,658	2,591	2,372	2,393	2,392	2,384	2,387		
	2	2,560	2,370	2,369	2,586	2,697	2,549	2,413	2,414	2,419	2,397	2,630	2,657	2,587	2,371	2,389	2,390	2,387	2,386		
	3	2,515	2,370	2,371	2,586	2,643	2,549	2,318	2,415	2,419	2,399	2,629	2,657	2,590	2,369	2,391	2,389	2,385	2,386		
	4	2,516	2,371	2,370	2,586	2,646	2,551	2,322	2,418	2,421	2,401	2,634	2,663	2,591	2,371	2,392	2,390	2,388	2,386		
	5	2,494	2,369	2,372	2,585	2,643	2,549	2,320	2,416	2,418	2,398	2,630	2,656	2,583	2,371	2,391	2,387	2,385	2,387		
	6	2,444	2,369	2,369	2,586	2,642	2,549	2,320	2,416	2,416	2,397	2,631	2,659	2,516	2,372	2,392	2,386	2,386	2,385		
	7	2,443	2,372	2,375	2,589	2,598	2,549	2,323	2,419	2,419	2,399	2,634	2,661	2,484	2,372	2,394	2,389	2,386	2,388		
	8	2,443	2,369	2,368	2,582	2,482	2,545	2,346	2,418	2,417	2,392	2,630	2,660	2,442	2,372	2,392	2,389	2,387	2,384		
	9	2,443	2,370	2,367	2,578	2,475	2,492	2,414	2,417	2,414	2,390	2,638	2,654	2,433	2,372	2,391	2,387	2,383	2,381		
	10	2,445	2,372	2,364	2,584	2,393	2,458	2,414	2,418	2,408	2,392	2,580	2,394	2,438	2,374	2,392	2,393	2,380	2,345		
	11	2,444	2,370	2,380	2,582	2,408	2,443	2,411	2,414	2,406	2,389	2,627	2,396	2,436	2,372	2,391	2,390	2,381	1,575		
	12	2,442	2,368	2,485	2,585	2,407	2,410	2,416	2,412	2,404	2,388	2,631	2,397	2,437	2,373	2,390	2,383	2,380	1,960		
	13	2,448	2,371	2,463	2,595	2,415	2,470	2,419	2,416	2,384	2,077	2,649	2,398	2,440	2,373	2,396	2,388	2,384	2,386		
	14	2,409	2,369	2,554	2,672	2,416	2,433	2,417	2,413	2,390	19	2,647	2,388	2,439	2,374	2,392	2,386	2,380	2,382		
	15	2,372	2,368	2,531	2,594	2,414	2,462	2,416	2,414	2,386	907	1,217	2,390	2,440	2,375	2,394	2,381	2,381	2,381		
	16	2,375	2,372	2,274	2,423	2,412	2,464	2,418	2,419	2,395	2,278	2,202	2,641	2,442	2,182	2,393	2,386	2,379	2,384		
	17	2,371	2,366	2,582	2,641	2,588	2,562	2,414	2,418	2,391	2,580	2,658	2,666	2,387	2,132	2,391	2,387	2,380	2,378		
	18	2,370	2,370	2,582	2,729	2,626	2,562	2,414	2,419	2,393	2,632	2,651	2,665	2,372	2,131	2,390	2,387	2,380	2,381		
	19	2,370	2,369	2,586	2,731	2,627	2,563	2,416	2,421	2,397	2,632	2,658	2,666	2,371	2,263	2,393	2,387	2,383	2,386		
	20	2,368	2,368	2,583	2,727	2,630	2,539	2,415	2,420	2,395	2,635	2,655	2,663	2,371	2,385	2,392	2,387	2,382	2,384		
	21	2,368	2,369	2,584	2,729	2,631	2,511	2,415	2,419	2,394	2,632	2,653	2,663	2,371	2,388	2,393	2,383	2,384	2,384		
	22	2,371	2,369	2,587	2,728	2,562	2,474	2,417	2,421	2,397	2,636	2,658	2,624	2,372	2,390	2,394	2,388	2,387	2,386		
	23	2,368	2,370	2,587	2,727	2,549	2,463	2,414	2,420	2,396	2,631	2,658	2,586	2,372	2,390	2,390	2,384	2,385	2,384		
	24	2,368	2,368	2,587	2,725	2,549	2,464	2,414	2,419	2,397	2,632	2,654	2,591	2,372	2,388	2,391	2,384	2,382	2,384		
	TOTAL	58,333	56,870	59,063	63,038	61,181	60,163	57,473	58,013	57,696	55,032	61,487	61,933	58,877	56,232	57,407	57,293	57,199	55,950		
	Cumulative Output Sold, kWhr	58,333	115,203	174,266	237,304	298,485	358,648	416,121	474,134	531,830	586,862	648,349	710,282	769,159	825,391	882,798	940,091	997,290	1,053,240		
	Transformer and line efficiency	99.8%	99.8%	99.7%	99.7%	99.8%	99.8%	99.9%	99.9%	99.9%	99.9%	99.8%	99.8%	99.8%	99.9%	99.9%	99.9%	99.9%	99.8%		
	Hourly average	2,431	2,370	2,461	2,627	2,549	2,507	2,395	2,417	2,404	2,293	2,562	2,581	2,453	2,343	2,392	2,387	2,383	2,331		

JANUARY 2017																	
	Thursday 1/19/2017	Friday 1/20/2017	Saturday 1/21/2017	Sunday 1/22/2017	Monday 1/23/2017	Tuesday 1/24/2017	Wednesday 1/25/2017	Thursday 1/26/2017	Friday 1/27/2017	Saturday 1/28/2017	Sunday 1/29/2017	Monday 1/30/2017	Tuesday 1/31/2017	TOTAL	Biogas	LFG	
LFG and Biogas Flow to the Engine	1,411	1,528	1,484	1,391	1,448	1,427	1,505	1,470	1,405	1,332	1,208	1,325	1,469	43,418	1,508	41,910	
LFG and Biogas Flow to the Engine	768	803	774	711	770	782	796	777	741	713	651	717	762	23,036	1,083	21,953	
LFG and Biogas Flow to the Flare (I)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7%	95%	
LFG and Biogas Flow to the Flare (II)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Total Flow (KSCF)	1,411	1,528	1,484	1,391	1,448	1,427	1,505	1,470	1,405	1,332	1,208	1,325	1,469	43,418			
LFG and Biogas Total Flow (MMBT	768	803	774	711	770	782	796	777	741	713	651	717	762	23,036			
Average Methane Content (%)	53.8	51.9	51.6	50.5	52.5	54.1	52.3	52.2	52.1	52.9	53.3	53.5	51.2	52.4			
Engine 1 Hours	24	24	24	22	24	24	24	24	24	24	24	24	24	740			
Engine 2 Hours	22	24	24	24	24	24	24	24	24	24	24	24	24	741			
Engine 3 Hours	16	24	24	24	24	24	24	24	16	-	-	11	20	460			
Engine 4 Hours	24	22	24	21	-	14	24	24	24	24	24	24	24	704			
Generator 1 Power Output (kWhr)	18,718	16,276	15,016	13,082	19,370	19,422	18,050	17,832	18,218	18,668	17,976	16,958	15,762	562,492			
Generator 2 Power Output (kWhr)	15,050	15,200	15,334	15,260	19,724	18,388	15,098	15,026	16,652	19,356	17,966	17,272	16,286	558,390			
Generator 3 Power Output (kWhr)	10,262	16,932	15,808	15,222	19,456	18,032	15,488	15,012	9,816	-	-	6,594	11,254	222,818			
Generator 4 Power Output (kWhr)	18,704	16,074	16,614	13,574	-	7,804	14,374	14,108	14,990	19,696	-	18,562	17,212	16,308	528,734		
Gross Power Output (kWhr)	62,700	64,456	62,741	57,086	58,542	63,637	63,002	61,977	59,689	57,759	54,567	58,062	59,610	1,872,960			
Net Power Output (kWhr)	60,862	62,434	60,766	55,082	56,784	61,776	61,052	60,020	57,736	55,908	52,744	56,188	57,656	1,813,986			
Power Sold as metered by NStar, (I	60,733	62,330	60,651	55,046	56,644	61,658	60,938	59,899	57,616	55,784	52,635	56,082	57,592	1,810,848	CRMBCB inplant		
Offgrid REC's (kWhr)	1,839	2,022	1,975	2,003	1,758	1,861	1,950	1,957	1,953	1,851	1,823	1,874	1,954	58,974	12,982		
Calculated Performance Results															22%		
Daily															of total in-plant		
Power output (kW average whe															power		
Generator 1	780	678	626	595	807	809	752	743	759	778	749	707	657				
Generator 2	684	633	639	636	822	766	629	626	694	807	749	720	679				
Generator 3	641	706	659	634	811	751	645	626	614	-	-	599	563				
Generator 4	779	731	692	646	-	557	599	588	625	821	773	717	680				
Power output (kW average over																	
Facility Gross	2,613	2,686	2,614	2,379	2,439	2,652	2,625	2,582	2,487	2,407	2,274	2,419	2,484				
Facility Net	2,536	2,601	2,532	2,295	2,366	2,574	2,544	2,501	2,406	2,330	2,198	2,341	2,402				
In-plant load	77	84	82	84	73	78	81	82	81	77	76	78	81				
Daily availability factor																	
Facility	90%	98%	100%	95%	75%	90%	100%	100%	92%	75%	75%	86%	96%				
Engine 1	100%	100%	100%	100%	92%	100%	100%	100%	100%	100%	100%	100%	100%				
Engine 2	92%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%				
Engine 3	67%	100%	100%	100%	100%	100%	100%	100%	67%	0%	0%	46%	83%				
Engine 4	100%	92%	100%	88%	0%	58%	100%	100%	100%	100%	100%	100%	100%				
Daily capacity factor																	
Facility	79%	81%	79%	72%	74%	80%	80%	78%	75%	73%	69%	73%	75%				
Engine 1	95%	82%	76%	72%	98%	98%	91%	90%	92%	94%	91%	86%	80%				
Engine 2	83%	77%	77%	77%	100%	93%	76%	76%	84%	98%	91%	87%	82%				
Engine 3	78%	86%	80%	77%	98%	91%	78%	76%	74%	0%	0%	73%	68%				
Engine 4	94%	89%	84%	78%	0%	68%	73%	71%	76%	99%	94%	87%	82%				
Cumulative by engine																	
Engine operating run hours in t																	
Max Cumulative Available,	456	480	504	528	552	576	600	624	648	672	696	720	720				
Engine 1	454	478	502	524	548	572	596	620	644	668	692	716	716				
Engine 2	453	477	501	525	549	573	597	621	645	669	693	717	717				
Engine 3	245	269	293	317	341	365	389	413	429	429	429	440	449				
Engine 4	455	477	501	522	522	536	560	584	608	632	656	680	680				
Engine operating run hours tota																	
Engine 1	88,748	88,772	88,796	88,818	88,842	88,866	88,890	88,914	88,938	88,962	88,986	89,010	89,010				
Engine 2	85,172	85,196	85,220	85,244	85,268	85,292	85,316	85,340	85,364	85,388	85,412	85,436	85,436				
Engine 3	87,761	87,785	87,809	87,833	87,857	87,881	87,905	87,929	87,945	87,945	87,945	87,956	87,965				
Engine 4	84,779	84,801	84,825	84,846	84,846	84,860	84,884	84,908	84,932	84,956	84,980	85,004	85,004				
Cumulative availability, %																	
Engine 1	100%	100%	100%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%				
Engine 2	99%	99%	99%	99%	99%	99%	100%	100%	100%	100%	100%	100%	100%				
Engine 3	54%	56%	58%	60%	62%	63%	65%	66%	66%	64%	62%	61%	62%				
Engine 4	100%	99%	99%	99%	95%	93%	93%	94%	94%	94%	94%	94%	94%				
Engine cumulative gross output																	
Max cumulative capacity on	15,675	16,500	17,325	18,150	18,975	19,800	20,625	21,450	22,275	23,100	23,925	24,750	24,750				
Engine 1	14,894	15,572	16,198	16,792	17,599	18,408	19,161	19,904	20,663	21,440	22,189	22,896	22,846				
Engine 2	14,958	15,592	16,230	16,866	17,688	18,454	19,083	19,709	20,403	21,210	21,958	22,678	22,637				
Engine 3	4,429	5,135	5,794	6,428	7,239	7,990	8,635	9,261	9,874	9,874	9,874	10,474	10,437				
Engine 4	15,009	15,740	16,432	17,078	17,078	17,636	18,235	18,823	19,447	20,268	21,041	21,758	21,721				
Cumulative capacity factor, %																	
Engine 1	95%	94%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	92%				
Engine 2	95%	94%	94%	93%	93%	93%	93%	92%	92%	92%	92%	92%	91%				
Engine 3	28%	31%	33%	35%	38%	40%	42%	43%	44%	43%	41%	42%	42%				
Engine 4	96%	95%	95%	94%	90%	89%	88%	88%	87%	88%	88%	88%	88%				
Cumulative by Facility in month																	
Max cumulative available engine	1,824	1,920	2,016	2,112	2,208	2,304	2,400	2,496	2,592	2,688	2,784	2,880	2,880				
Actual cumulative engine run h	1,607	1,701	1,797	1,888	1,960	2,046	2,142	2,238	2,326	2,398	2,470	2,553	2,562				
Cumulative Availability, %	88.1%	88.6%	89.1%	89.4%	88.8%	88.8%	89.3%	89.7%	89.7%	89.2%	88.7%	88.6%	89.0%				
Max cumulative gross output, k	1,504,800	1,584,000	1,663,200	1,742,400	1,821,600	1,900,800	1,980,000	2,059,200	2,138,400	2,217,600	2,296,800	2,376,000	2,376,000				
Actual cumulative gross output,	1,151,832	1,216,288	1,279,029	1,336,115	1,394,657	1,458,294	1,521,296	1,583,273	1,642,962	1,700,721	1,755,288	1,813,350	1,814,898				
Cumulative Capacity Factor	76.5%	76.8%	76.9%	76.7%	76.6%	76.7%	76.8%	76.9%	76.8%	76.7%	76.4%	76.3%	76.4%				
Cumulative fuel input, MMBtu f	14,039	14,842	15,617	16,328	17,098	17,880	18,676	19,453	20,193	20,906	21,557	22,274	22,319				
Cumulative gross output, kWhr	1,151,832	1,216,288	1,279,029	1,336,115	1,394,657	1,458,294	1,521,296	1,583,273	1,642,962	1,700,721	1,755,288	1,813,350	1,814,898				
Heat Rate																	
Daily heat rate, Btu/kWe gross	11,026	11,216	11,111	11,213	11,842	11,059	11,371	11,287	11,172	11,108	10,745	11,113	11,503				

	Thursday 1/19/2017	Friday 1/20/2017	Saturday 1/21/2017	Sunday 1/22/2017	Monday 1/23/2017	Tuesday 1/24/2017	Wednesday 1/25/2017	Thursday 1/26/2017	Friday 1/27/2017	Saturday 1/28/2017	Sunday 1/29/2017	Monday 1/30/2017	Tuesday 1/31/2017	TOTAL	Biogas	LFG
Daily heat rate, Btu/kWe gross	12,249	12,460	12,343	12,457	13,155	12,285	12,631	12,539	12,411	12,339	11,936	12,345	12,778			
Cumulative heat rate, Btu/kWe	10,972	10,985	10,991	11,001	11,036	11,037	11,051	11,060	11,064	11,066	11,056	11,058	11,070			
Cumulative heat rate, Btu/kWe	12,189	12,203	12,210	12,220	12,260	12,261	12,276	12,286	12,291	12,292	12,281	12,283	12,298			
Cumulative by Facility starting C.																
Max cumulative available engine	1,824	1,920	2,016	2,112	2,208	2,304	2,400	2,496	2,592	2,688	2,784	2,880	2,880			
Actual cumulative engine run hours	1,607	1,701	1,797	1,888	1,984	2,046	2,142	2,238	2,326	2,398	2,470	2,553	2,562			
Cumulative Availability, %	88.1%	88.6%	89.1%	89.4%	88.8%	88.8%	89.3%	89.7%	89.7%	89.2%	88.7%	88.6%	89.0%			
Max cumulative gross output, kW	1,504,800	1,584,000	1,663,200	1,742,400	1,821,600	1,900,800	1,980,000	2,059,200	2,138,400	2,217,600	2,296,800	2,376,000	2,376,000			
Actual cumulative gross output, kW	1,151,832	1,216,288	1,279,029	1,336,115	1,394,657	1,458,294	1,521,296	1,583,273	1,642,962	1,700,721	1,755,288	1,813,350	1,814,898			
Cumulative Capacity Factor	76.5%	76.8%	76.9%	76.7%	76.6%	76.7%	76.8%	76.9%	76.8%	76.7%	76.4%	76.3%	76.4%			
Cumulative fuel input, MMBtu	14,039	14,842	15,617	16,328	17,098	17,880	18,676	19,453	20,193	20,906	21,557	22,274	22,319			
Cumulative gross output, kWh	1,151,832	1,216,288	1,279,029	1,336,115	1,394,657	1,458,294	1,521,296	1,583,273	1,642,962	1,700,721	1,755,288	1,813,350	1,814,898			
Cumulative heat rate, Btu/kWe	10,972	10,985	10,991	11,001	11,036	11,037	11,051	11,060	11,064	11,066	11,056	11,058	11,070			
Cumulative heat rate, Btu/kWe	12,189	12,203	12,210	12,220	12,260	12,261	12,276	12,286	12,291	12,292	12,281	12,283	12,298			
Service																
Engine 1	since H2S Treatment online															
Engine 2																
Engine 3																
Engine 4																
Oil - oil and filter change										Freezing of pump exhaust on horizontal wells						
Service - plugs, air filter, valve inspection										Failure of first Knockout pump						
Precipitation										Vac increased to 90 inches.						
NSTAR Power Reports										Shut 2 engines down and sucked in water.						
Date	1/19/2017	1/20/2017	1/21/2017	1/22/2017	1/23/2017	1/24/2017	1/25/2017	1/26/2017	1/27/2017	1/28/2017	1/29/2017	1/30/2017	1/31/2017	TOTAL		
Hour																
1	2,386	2,663	2,632	2,461	1,698	2,392	2,635	2,563	2,414	2,384	2,242	2,170	2,516			
2	2,388	2,651	2,629	2,462	2,393	2,390	2,564	2,560	2,414	2,383	2,237	2,165	2,514			
3	2,388	2,587	2,631	2,458	2,390	2,390	2,563	2,562	2,415	2,381	2,239	2,167	2,512			
4	2,387	2,590	2,630	2,463	2,392	2,395	2,562	2,563	2,415	2,382	2,242	2,168	2,514			
5	2,388	2,588	2,533	2,458	2,386	2,392	2,563	2,560	2,414	2,381	2,237	2,165	2,479			
6	2,387	2,587	2,513	2,460	2,386	2,391	2,561	2,559	2,411	2,381	2,237	2,167	2,426			
7	2,387	2,590	2,513	2,459	2,390	2,394	2,526	2,507	2,415	2,383	2,240	2,169	2,391			
8	2,387	2,587	2,513	2,461	2,387	2,393	2,492	2,491	2,413	2,381	2,239	2,166	2,366			
9	2,424	2,545	2,514	2,455	2,386	2,387	2,488	2,485	2,405	2,383	2,215	2,166	2,337			
10	2,612	2,534	2,515	2,463	2,384	2,389	2,482	2,486	2,411	2,347	2,170	2,166	2,337			
11	2,412	2,535	2,513	2,459	2,384	2,498	2,488	2,484	2,414	2,311	2,169	2,165	1,496			
12	2,320	2,578	2,515	2,457	2,384	2,754	2,487	2,486	2,414	2,311	2,167	1,619	1,854			
13	2,457	2,609	2,517	2,462	2,387	2,753	2,490	2,488	2,330	2,314	2,170	2,394	2,387			
14	2,715	2,605	2,513	2,460	2,387	2,732	2,488	2,487	2,438	2,312	2,168	2,423	2,382			
15	2,709	2,571	2,514	2,457	2,389	2,724	2,487	2,486	2,437	2,310	2,166	2,730	2,489			
16	2,695	2,357	2,518	2,457	2,394	2,707	2,563	2,491	2,419	2,310	2,169	2,722	2,513			
17	2,659	2,579	2,514	2,456	2,390	2,709	2,566	2,489	2,381	2,310	2,162	2,683	2,513			
18	2,664	2,701	2,508	2,453	2,391	2,709	2,559	2,487	2,376	2,309	2,165	2,593	2,511			
19	2,662	2,704	2,511	2,456	2,393	2,708	2,564	2,486	2,376	2,311	2,168	2,515	2,514			
20	2,664	2,643	2,510	2,453	2,390	2,708	2,563	2,486	2,381	2,245	2,166	2,513	2,512			
21	2,662	2,630	2,509	2,346	2,390	2,708	2,560	2,449	2,379	2,239	2,165	2,513	2,512			
22	2,661	2,635	2,462	1,317	2,392	2,711	2,564	2,414	2,382	2,241	2,170	2,516	2,515			
23	2,660	2,630	2,462	1,130	2,392	2,690	2,562	2,416	2,380	2,237	2,168	2,514	2,511			
24	2,659	2,631	2,462	1,083	2,389	2,634	2,561	2,414	2,382	2,238	2,164	2,513	2,491			
TOTAL	60,733	62,330	60,651	55,046	56,644	61,658	60,938	59,899	57,616	55,784	52,635	56,082	57,592			
Cumulative Output Sold, kW	1,113,973	1,176,303	1,236,954	1,292,000	1,348,644	1,410,302	1,471,240	1,531,139	1,588,755	1,644,539	1,697,174	1,753,256	1,810,848			
Transformer and line efficiency	99.8%	99.8%	99.8%	99.9%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.9%	0.0%		
Hourly average	2,531	2,597	2,527	2,294	2,360	2,569	2,539	2,496	2,401	2,324	2,193	2,337	2,400	2,434		

DECEMBER 2016																		
	Thursday 12/2/2016	Friday 12/2/2016	Saturday 12/3/2016	Sunday 12/4/2016	Monday 12/5/2016	Tuesday 12/5/2016	Wednesday 12/7/2016	Thursday 12/8/2016	Friday 12/9/2016	Saturday 12/10/2016	Sunday 12/11/2016	Monday 12/12/2016	Tuesday 12/13/2016	Wednesday 12/14/2016	Thursday 12/15/2016	Friday 12/16/2016	Saturday 12/17/2016	Sunday 12/18/2016
LFG and Biogas Flow to the Engines (KSCF)	1,406	1,439	1,468	1,476	1,392	1,450	1,415	1,262	1,474	1,440	1,458	1,420	1,393	1,360	1,374	1,372	1,290	1,274
LFG and Biogas Flow to the Engines (MMBTU HHV	- 802	- 811	- 816	- 805	- 771	- 797	- 779	- 668	- 801	- 772	- 787	- 796	- 771	- 751	- 755	- 730	- 709	- 710
LFG and Biogas Flow to the Flare (KSCF)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LFG and BiogasFlow to the Flare (MMBTU HHV)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LFG and Biogas Total Flow (KSCF)	1,406	1,439	1,468	1,476	1,392	1,450	1,415	1,262	1,474	1,440	1,458	1,420	1,393	1,360	1,374	1,372	1,290	1,274
LFG and Biogas Total Flow (MMBTU HHV)	802	811	816	805	771	797	779	668	801	772	787	796	771	751	755	730	709	710
Average Methane Content (%)	56.4	55.7	54.9	53.9	54.7	54.3	54.4	52.3	53.7	53.0	53.4	55.4	54.7	54.5	54.3	52.5	54.3	55.1
Engine 1 Hours	24	24	24	24	24	24	24	20	24	24	24	24	24	24	24	24	24	24
Engine 2 Hours	24	24	24	24	24	24	24	20	24	24	24	24	24	24	24	8	-	-
Engine 3 Hours	24	24	24	24	24	24	24	18	24	24	24	24	24	24	24	24	24	24
Engine 4 Hours	24	24	24	24	24	24	24	20	24	24	24	24	24	24	24	24	24	24
Generator 1 Power Output (kWhr)	17,610	16,798	16,798	17,084	17,992	17,652	17,990	13,440	15,752	15,852	15,976	16,610	15,646	15,606	15,608	18,296	19,742	19,738
Generator 2 Power Output (kWhr)	17,962	17,178	16,772	16,760	16,790	16,776	16,778	14,594	17,642	17,256	16,152	16,408	16,018	15,606	15,606	5,404	-	-
Generator 3 Power Output (kWhr)	15,576	15,580	15,580	14,850	14,402	14,394	14,394	10,152	13,672	10,438	12,566	13,210	13,210	13,210	13,214	17,166	19,502	19,500
Generator 4 Power Output (kWhr)	15,552	15,556	15,560	14,946	14,388	14,376	14,376	13,704	17,920	17,098	16,974	16,744	16,746	16,744	16,604	18,248	19,702	19,686
Gross Power Output (kW/hr)	66,745	65,149	64,753	63,683	63,631	63,259	63,580	51,933	64,968	60,705	61,855	62,979	61,632	61,169	61,039	59,105	58,942	58,910
Net Power Output (kW/hr)	64,903	63,328	62,956	61,845	61,789	61,400	61,737	50,283	62,943	59,109	59,874	61,156	59,830	59,388	59,176	57,270	57,238	57,250
Power Sold as metered by NStar, (kW/hr)	64,740	63,204	62,836	61,813	61,646	61,281	61,615	50,199	62,829	58,979	59,766	61,014	59,696	59,273	59,066	57,205	57,116	57,098
Offgrid RECs (KWhr)	1,843	1,821	1,797	1,840	1,841	1,858	1,844	1,650	2,024	1,597	1,981	1,821	1,802	1,772	1,863	1,836	1,703	1,660
Calculated Performance Results																		
Daily																		
Power output (kW average when running)																		
Generator 1	734	700	700	712	750	736	749	672	656	661	666	692	652	650	650	762	823	822
Generator 2	748	716	699	698	700	699	699	730	735	719	673	684	667	650	650	676	-	-
Generator 3	649	649	649	619	600	600	600	564	570	435	546	550	550	551	551	715	813	813
Generator 4	648	648	648	623	600	599	599	685	747	712	707	698	698	698	692	760	821	820
Power output (kW average over 24-hrs)																		
Facility Gross	2,781	2,715	2,698	2,653	2,651	2,636	2,649	2,164	2,707	2,529	2,577	2,624	2,568	2,549	2,543	2,463	2,456	2,455
Facility Net	2,704	2,639	2,623	2,577	2,575	2,558	2,572	2,095	2,623	2,463	2,495	2,548	2,493	2,475	2,466	2,386	2,385	2,385
In-plant load	77	76	75	77	77	77	77	69	84	67	83	76	75	74	78	76	71	69
Daily availability factor																		
Facility	100%	100%	100%	100%	100%	100%	100%	81%	100%	100%	99%	100%	100%	100%	100%	83%	75%	75%
Engine 1	100%	100%	100%	100%	100%	100%	100%	83%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Engine 2	100%	100%	100%	100%	100%	100%	100%	83%	100%	100%	100%	100%	100%	100%	100%	33%	0%	0%
Engine 3	100%	100%	100%	100%	100%	100%	100%	75%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%
Engine 4	100%	100%	100%	100%	100%	100%	100%	83%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Daily capacity factor																		
Facility	84%	82%	82%	80%	80%	80%	80%	66%	82%	77%	78%	80%	78%	77%	77%	75%	74%	74%
Engine 1	89%	85%	85%	86%	91%	89%	91%	81%	80%	80%	81%	84%	79%	79%	79%	92%	100%	100%
Engine 2	91%	87%	85%	85%	85%	85%	85%	88%	89%	87%	89%	83%	81%	79%	79%	82%	0%	0%
Engine 3	79%	79%	79%	75%	73%	73%	73%	68%	69%	53%	66%	67%	67%	67%	67%	87%	98%	98%
Engine 4	79%	79%	79%	75%	73%	73%	73%	83%	91%	86%	86%	85%	85%	85%	84%	92%	100%	99%
Cumulative by engine																		
Engine operating run hours in the month																		
Max Cumulative Available, hours	24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408	432
Engine 1	24	48	72	96	120	144	168	188	212	236	260	284	308	332	356	380	404	428
Engine 2	24	48	72	96	120	144	168	188	212	236	260	284	308	332	356	364	364	364
Engine 3	24	48	72	96	120	144	168	186	210	234	257	281	305	329	353	377	401	425
Engine 4	24	48	72	96	120	144	168	188	212	236	260	284	308	332	356	380	404	428
Engine operating run hours total from 0 hours																		
Engine 1	87,555	87,579	87,603	87,627	87,651	87,675	87,699	87,723	87,743	87,767	87,791	87,815	87,839	87,863	87,887	87,911	87,935	87,959
Engine 2	84,056	84,080	84,104	84,128	84,152	84,176	84,200	84,224	84,248	84,268	84,292	84,316	84,340	84,364	84,388	84,412	84,420	84,420
Engine 3	86,791	86,815	86,839	86,863	86,887	86,911	86,935	86,959	86,977	87,001	87,025	87,048	87,072	87,096	87,120	87,144	87,168	87,216
Engine 4	83,584	83,608	83,632	83,656	83,680	83,704	83,728	83,752	83,772	83,796	83,820	83,844	83,868	83,892	83,916	83,940	83,964	84,012
Cumulative availability, % December 1, 2016 @ 00:00 hours																		
Engine 1	100%	100%	100%	100%	100%	100%	100%	98%	98%	98%	98%	99%	99%	99%	99%	99%	99%	99%
Engine 2	100%	100%	100%	100%	100%	100%	100%	98%	98%	98%	98%	99%	99%	99%	99%	99%	95%	84%
Engine 3	100%	100%	100%	100%	100%	100%	100%	97%	98%	98%	98%	97%	98%	98%	98%	98%	98%	98%
Engine 4	100%	100%	100%	100%	100%	100%	100%	98%	98%	98%	98%	99%	99%	99%	99%	99%	99%	99%
Engine cumulative gross output, kWhr																		
Max cumulative capacity one engine	825	1,650	2,475	3,300	4,125	4,950	5,775	6,600	7,425	8,250	9,075	9,900	10,725	11,550	12,375	13,200	14,025	14,850
Engine 1	734	1,434	2,134	2,845	3,595	4,331	5,080	5,752	6,408	7,069	7,734	8,426	9,079	9,729	10,379	11,141	11,964	12,786
Engine 2	748	1,464	2,163	2,861	3,561	4,260	4,959	5,689	6,424	7,143	7,816	8,499	9,167	9,817	10,467	11,143	11,143	11,143
Engine 3	649	1,298	1,947	2,566	3,166	3,766	4,366	4,930	5,499	6,081	6,641	7,203	7,751	8,312	8,683	9,398	10,210	11,023
Engine 4	648	1,296	1,945	2,567	3,167	3,766	4,365	5,050	5,797	6,509	7,216	7,914	8,612	9,309	10,001	10,762	11,582	12,403
Cumulative capacity factor, %																		
Engine 1	89%	87%	86%	86%	87%	87%	88%	87%	86%	86%	85%	85%	85%	84%	84%	84%	85%	86%
Engine 2	91%	89%	87%	87%	86%	86%	87%	86%	85%	87%	85%	85%	85%	85%	85%	84%	79%	75%
Engine 3	79%	79%	79%	78%	77%	76%	76%	75%	74%	72%	71%	71%	70%	70%	70%	71%	73%	74%
Engine 4	79%	79%	79%	78%	77%	76%	76%	75%	74%	72%	70%	70%	70%	70%	70%	71%	73%	74%
Cumulative by Facility in mont																		
Max cumulative available engine run hours																		
Actual cumulative engine run hours	96	192	288	384	480	576	672	768	864	960	1,056	1,152	1,248	1,344	1,440	1,536	1,632	1,728
Cumulative Availability, %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	97.7%	97.9%	98.1%	98.2%	98.4%	98.5%	98.6%	98.7%	97.7%	96.4%	95.2%
Max cumulative gross output, kWhr																		
Actual cumulative gross output, kWhr	79,200	158,400	237,600	316,800	396,000	475,200	554,400	633,600	712,800	792,000	871,200	950,400	1,029,600	1,108,800	1,188,000	1,267,200	1,346,400	1,425,600
Cumulative Capacity Factor	66,745	131,894	196,647	260,330	323,961	387,220	450,800	502,733	567,701	628,406	690,261	753,240	814,872	876,041	937,080	996,185	1,055,127	1,114,037
	84.3%	83.3%	82.8%	82.2%	81.3%	81.5%	81.3%	79.3%	79.1%	79.3%	79.2%	79.3%	79.1%	79.0%	78.9%	78.6%	78.4%	78.1%
Cumulative fuel input, MMBtu HHV																		
Cumulative gross output, kWhr	802	1,613	2,429	3,233	4,004	4,801	5,580	6,248	7,049	7,821	8,609	9,404	10,175	10,925	11,681	12,410	13,119	13,829
	66,745	131,894	196,647	260,330	323,961	387,220	450,800	502,733	567,701	628,406	690,261	753,240	814,872	876,041	937,080	996,185	1,055,127	1,114,037
Heat Rate																		
Daily heat rate, Btu/kWe gross LHV	10,819	11,203	11,340	11,374	10,907	11,336	11,031	11,570	11,104	11,452	11,459	11,375	11,254	11,045	11,139	11,112	10,824	10,851

		Thursday 12/1/2016	Friday 12/2/2016	Saturday 12/3/2016	Sunday 12/4/2016	Monday 12/5/2016	Tuesday 12/6/2016	Wednesday 12/7/2016	Thursday 12/8/2016	Friday 12/9/2016	Saturday 12/10/2016	Sunday 12/11/2016	Monday 12/12/2016	Tuesday 12/13/2016	Wednesday 12/14/2016	Thursday 12/15/2016	Friday 12/16/2016	Saturday 12/17/2016	Sunday 12/18/2016
Daily heat rate, Btu/kWe gross HHV		12,019	12,445	12,597	12,634	12,117	12,593	12,254	12,853	12,335	12,722	12,730	12,636	12,502	12,269	12,374	12,344	12,024	12,056
Cumulative heat rate, Btu/kWe gross LHV		10,819	11,009	11,118	11,180	11,127	11,161	11,143	11,187	11,177	11,204	11,227	11,239	11,240	11,227	11,221	11,215	11,193	11,175
Cumulative heat rate, Btu/kWe gross HHV		12,019	12,230	12,351	12,420	12,360	12,398	12,378	12,427	12,417	12,446	12,472	12,485	12,487	12,471	12,465	12,458	12,434	12,414
Cumulative by Facility starting Calendar Year																			
Max cumulative available engine run hours		26,012	26,108	26,204	26,300	26,396	26,492	26,588	26,684	26,780	26,876	26,972	27,068	27,164	27,260	27,356	27,452	27,548	27,644
Actual cumulative engine run hours		23,756	23,852	23,948	24,044	24,140	24,236	24,332	24,410	24,506	24,602	24,697	24,793	24,889	24,985	25,081	25,161	25,233	25,305
Cumulative Availability, %		91.3%	91.4%	91.4%	91.4%	91.5%	91.5%	91.5%	91.5%	91.5%	91.5%	91.6%	91.6%	91.6%	91.7%	91.7%	91.7%	91.6%	91.5%
Max cumulative gross output, kWhr		21,459,900	21,539,100	21,618,300	21,697,500	21,776,700	21,855,900	21,935,100	22,014,300	22,093,500	22,172,700	22,251,900	22,331,100	22,410,300	22,489,500	22,568,700	22,647,900	22,727,100	22,806,300
Actual cumulative gross output, kWhr		17,015,579	17,080,728	17,145,481	17,209,164	17,272,795	17,336,054	17,399,634	17,451,567	17,516,535	17,577,240	17,639,095	17,702,074	17,763,706	17,824,875	17,885,914	17,945,019	18,003,961	18,062,871
Cumulative Capacity Factor		79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.2%	79.2%	79.2%
Cumulative fuel input, MMBtu HHV		216,837	217,648	218,464	219,268	220,039	220,836	221,615	222,283	223,084	223,856	224,644	225,439	226,210	226,960	227,716	228,445	229,154	229,864
Cumulative gross output, kWhr		17,015,579	17,080,728	17,145,481	17,209,164	17,272,795	17,336,054	17,399,634	17,451,567	17,516,535	17,577,240	17,639,095	17,702,074	17,763,706	17,824,875	17,885,914	17,945,019	18,003,961	18,062,871
Cumulative heat rate, Btu/kWe gross LHV		11,472	11,471	11,470	11,470	11,468	11,467	11,466	11,466	11,465	11,465	11,465	11,464	11,463	11,462	11,461	11,460	11,458	11,456
Cumulative heat rate, Btu/kWe gross HHV		12,743	12,742	12,742	12,741	12,739	12,739	12,737	12,737	12,736	12,736	12,736	12,735	12,734	12,733	12,732	12,730	12,728	12,726
Service																			
Engine 1																			
Engine 2																			
Engine 3																			
Engine 4																			
Battery charger failure - purchase new 1 and 1 spare.																			
Oil - oil and filter change																			
Facility outage for																			
H2S Treatment Connections																			
Frozen wellhead																			
Service - plugs, air filter, valve inspection and adjustment																			
Precipitation																			
NSTAR Power Reports		Thursday 12/1/2016	Friday 12/2/2016	Saturday 12/3/2016	Sunday 12/4/2016	Monday 12/5/2016	Tuesday 12/6/2016	Wednesday 12/7/2016	Thursday 12/8/2016	Friday 12/9/2016	Saturday 12/10/2016	Sunday 12/11/2016	Monday 12/12/2016	Tuesday 12/13/2016	Wednesday 12/14/2016	Thursday 12/15/2016	Friday 12/16/2016	Saturday 12/17/2016	Sunday 12/18/2016
Date																			
Hour																			
1		2,720	2,670	2,619	2,619	2,570	2,568	2,572	2,570	2,772	2,518	2,386	2,468	2,561	2,474	2,474	2,416	2,383	2,380
2		2,714	2,663	2,620	2,616	2,568	2,567	2,572	2,567	2,771	2,518	2,436	2,469	2,517	2,470	2,468	2,415	2,381	2,377
3		2,719	2,666	2,617	2,615	2,571	2,567	2,571	2,569	2,770	2,517	2,612	2,471	2,520	2,471	2,472	2,418	2,382	2,378
4		2,717	2,668	2,620	2,616	2,568	2,571	2,571	2,567	2,723	2,518	2,568	2,489	2,517	2,471	2,472	2,419	2,384	2,379
5		2,712	2,669	2,620	2,614	2,571	2,567	2,572	2,568	2,722	2,517	2,566	2,518	2,520	2,472	2,471	2,417	2,380	2,376
6		2,713	2,667	2,620	2,615	2,567	2,569	2,570	2,567	2,720	2,519	2,567	2,520	2,518	2,472	2,473	2,416	2,381	2,381
7		2,714	2,667	2,619	2,617	2,571	2,569	2,565	2,566	2,704	2,520	2,549	2,520	2,518	2,472	2,474	2,421	2,381	2,379
8		2,714	2,667	2,620	2,614	2,568	2,564	2,570	643	2,643	2,518	2,518	2,541	2,519	2,471	2,465	2,414	2,380	2,379
9		2,707	2,627	2,619	2,615	2,563	2,559	2,566	-	2,643	2,519	2,506	2,565	2,492	2,467	2,469	2,298	2,381	2,380
10		2,703	2,614	2,618	2,592	2,566	2,534	2,563	-	2,602	2,517	2,468	2,562	2,461	2,463	2,469	2,358	2,382	2,382
11		2,704	2,613	2,616	2,567	2,568	2,512	2,566	-	2,603	2,517	2,470	2,561	2,462	2,463	2,464	2,356	2,380	2,378
12		2,705	2,612	2,617	2,563	2,570	2,513	2,564	100	2,603	2,519	2,471	2,560	2,462	2,466	2,464	2,358	2,379	2,381
13		2,705	2,613	2,618	2,523	2,570	2,513	2,567	1,755	2,600	2,521	2,472	2,563	2,466	2,468	2,464	2,363	2,380	2,382
14		2,706	2,608	2,617	2,523	2,568	2,513	2,564	2,239	2,602	2,517	2,470	2,561	2,464	2,465	2,463	2,358	2,379	2,379
15		2,705	2,612	2,618	2,523	2,565	2,517	2,567	2,584	2,614	2,518	2,472	2,563	2,468	2,467	2,465	2,357	2,377	2,380
16		2,711	2,615	2,620	2,520	2,565	2,519	2,563	2,714	2,591	2,518	2,472	2,562	2,469	2,469	2,469	2,365	2,381	2,383
17		2,690	2,618	2,614	2,522	2,570	2,561	2,565	2,778	2,522	2,520	2,469	2,561	2,463	2,467	2,467	2,380	2,376	2,374
18		2,669	2,620	2,619	2,524	2,572	2,571	2,564	2,774	2,519	2,519	2,471	2,561	2,470	2,474	2,469	2,381	2,380	2,380
19		2,669	2,618	2,619	2,569	2,570	2,574	2,565	2,775	2,517	2,502	2,471	2,567	2,474	2,474	2,470	2,382	2,380	2,381
20		2,668	2,617	2,617	2,570	2,569	2,570	2,567	2,774	2,517	2,163	2,468	2,569	2,468	2,470	2,466	2,380	2,376	2,376
21		2,668	2,619	2,616	2,569	2,569	2,570	2,569	2,773	2,519	2,206	2,472	2,565	2,473	2,473	2,468	2,383	2,380	2,380
22		2,669	2,621	2,619	2,568	2,571	2,573	2,568	2,772	2,517	2,205	2,471	2,568	2,474	2,473	2,417	2,385	2,378	2,378
23		2,668	2,619	2,617	2,570	2,567	2,570	2,566	2,772	2,518	2,195	2,470	2,565	2,469	2,469	2,405	2,383	2,378	2,377
24		2,670	2,621	2,617	2,569	2,569	2,570	2,568	2,772	2,517	2,378	2,471	2,565	2,471	2,472	2,408	2,382	2,377	2,378
TOTAL		64,740	63,204	62,836	61,813	61,646	61,281	61,615	50,199	62,829	58,979	59,766	61,014	59,696	59,273	59,066	57,205	57,116	57,098
Cumulative Output Sold, kWhr		64,740	127,944	190,780	252,593	314,239	375,520	437,135	487,334	550,163	609,142	668,908	729,922	789,618	848,891	907,957	965,162	1,022,278	1,079,376
Transformer and line efficiency		99.7%	99.8%	99.8%	99.9%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.9%	99.8%	99.7%
Hourly average		2,698	2,634	2,618	2,576	2,569	2,553	2,567	2,092	2,618	2,457	2,490	2,542	2,487	2,470	2,461	2,384	2,380	2,379

DECEMBER 2016																
	Monday 12/19/2016	Tuesday 12/20/2016	Wednesday 12/21/2016	Thursday 12/22/2016	Friday 12/23/2016	Saturday 12/24/2016	Sunday 12/25/2016	Monday 12/26/2016	Tuesday 12/27/2016	Wednesday 12/28/2016	Thursday 12/29/2016	Friday 12/30/2016	Saturday 12/31/2016	TOTAL	Biogas	LFG
LFG and Biogas Flow to the Engine	1,371	1,470	1,467	1,426	1,375	1,405	1,448	1,473	1,414	1,316	1,453	1,423	1,411	43,612	1,658	42,054
LFG and Biogas Flow to the Engine	739	778	782	765	738	765	773	778	780	723	802	773	747	23,772	1,182	22,590
LFG and Biogas Flow to the Flare (	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0%	95%
LFG and BiogasFlow to the Flare (l	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LFG and Biogas Total Flow (KSCF)	1,371	1,470	1,467	1,426	1,375	1,405	1,448	1,473	1,414	1,316	1,453	1,423	1,411	43,612		
LFG and Biogas Total Flow (MMBT	739	778	782	765	738	765	773	778	780	723	802	773	747	23,772		
Average Methane Content (%)	53.3	52.3	52.7	53.0	53.1	53.8	52.8	52.2	54.5	54.3	54.5	53.7	52.3	53.9		
Engine 1 Hours	24	24	24	24	24	24	24	24	23	24	24	24	24	24		
Engine 2 Hours	12	24	24	24	24	24	24	24	24	23	24	24	24	24		
Engine 3 Hours	24	24	24	24	20	24	24	24	24	21	24	24	20	726		
Engine 4 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	740		
Generator 1 Power Output (kWhr)	19,268	16,828	17,154	16,796	17,214	16,788	16,056	16,408	15,992	14,248	16,128	15,450	16,618	519,128		
Generator 2 Power Output (kWhr)	5,384	13,300	13,260	13,260	15,676	16,192	16,188	15,964	15,874	14,242	16,978	15,628	16,522	442,170		
Generator 3 Power Output (kWhr)	17,266	16,058	15,584	15,586	9,928	12,044	12,044	12,046	12,584	12,022	14,618	15,016	10,264	435,676		
Generator 4 Power Output (kWhr)	19,224	17,932	17,834	16,744	16,780	16,142	16,142	16,144	16,432	15,364	16,948	15,992	16,472	513,072		
Gross Power Output (kWhr)	61,124	64,126	63,861	62,419	59,637	61,191	60,446	60,575	60,325	55,933	64,685	62,092	59,906	1,910,957		
Net Power Output (kWhr)	59,264	62,092	61,836	60,412	57,802	59,320	58,536	58,642	59,088	54,168	62,800	60,192	58,018	1,853,655		
Power Sold as metered by NStar, (l	59,149	62,000	61,725	60,304	57,678	59,179	58,426	58,528	58,928	54,066	62,686	60,093	57,894	1,850,032	CRMBCB inplant	
Offgrid REC's (kWhr)	1,860	2,036	2,023	2,007	1,836	1,871	1,910	1,933	1,837	1,765	1,885	1,900	1,888	57,304	11,335	20%
Calculated Performance Results																
Daily																
Power output (kW average whe																of total in-plant power
Generator 1	803	701	715	700	717	700	669	684	695	594	672	644	692			
Generator 2	449	554	553	553	653	675	675	665	661	619	707	651	688			
Generator 3	719	669	649	649	496	502	502	502	524	572	609	626	513			
Generator 4	801	747	743	698	699	673	673	673	685	640	706	666	666			
Power output (kW average over																
Facility Gross	2,547	2,672	2,661	2,601	2,485	2,550	2,519	2,524	2,539	2,331	2,695	2,587	2,496			
Facility Net	2,469	2,587	2,577	2,517	2,408	2,472	2,439	2,443	2,462	2,257	2,617	2,508	2,417			
In-plant load	78	85	84	84	76	78	80	81	77	74	79	79	79			
Daily availability factor																
Facility	88%	100%	100%	100%	96%	100%	100%	100%	99%	96%	100%	100%	96%			
Engine 1	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	100%			
Engine 2	50%	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%			
Engine 3	100%	100%	100%	100%	83%	100%	100%	100%	100%	88%	100%	100%	83%			
Engine 4	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Daily capacity factor																
Facility	77%	81%	81%	79%	75%	77%	76%	76%	77%	71%	82%	78%	76%			
Engine 1	97%	85%	87%	85%	87%	85%	81%	83%	84%	72%	81%	78%	84%			
Engine 2	54%	67%	67%	67%	79%	82%	82%	81%	80%	75%	86%	79%	83%			
Engine 3	87%	81%	79%	79%	60%	61%	61%	61%	64%	69%	74%	76%	62%			
Engine 4	97%	91%	90%	85%	85%	82%	82%	82%	83%	78%	86%	81%	83%			
Cumulative by engine																
Engine operating run hours in t																
Max Cumulative Available,	456	480	504	528	552	576	600	624	648	672	696	720	720			
Engine 1	452	476	500	524	548	572	596	620	643	667	691	715	715			
Engine 2	376	400	424	448	472	496	520	544	568	591	615	639	639			
Engine 3	449	473	497	521	541	565	589	613	637	658	682	706	702			
Engine 4	452	476	500	524	548	572	596	620	644	668	692	716	716			
Engine operating run hours tota																
Engine 1	88,007	88,031	88,055	88,079	88,103	88,127	88,151	88,175	88,198	88,222	88,246	88,270	88,270			
Engine 2	84,432	84,456	84,480	84,504	84,528	84,552	84,576	84,600	84,624	84,647	84,671	84,695	84,695			
Engine 3	87,240	87,264	87,288	87,312	87,332	87,356	87,380	87,404	87,428	87,449	87,473	87,497	87,493			
Engine 4	84,036	84,060	84,084	84,108	84,132	84,156	84,180	84,204	84,228	84,252	84,276	84,300	84,300			
Cumulative availability, %																
Engine 1	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%			
Engine 2	82%	83%	84%	85%	86%	86%	87%	87%	88%	88%	88%	89%	89%			
Engine 3	98%	99%	99%	99%	98%	98%	98%	98%	98%	98%	98%	98%	98%			
Engine 4	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%			
Engine cumulative gross output																
Max cumulative capacity on	15,675	16,500	17,325	18,150	18,975	19,800	20,625	21,450	22,275	23,100	23,925	24,750	24,750			
Engine 1	13,589	14,290	15,005	15,705	16,422	17,122	17,791	18,474	19,169	19,763	20,435	21,079	21,128			
Engine 2	11,582	12,146	12,698	13,251	13,904	14,579	15,253	15,918	16,580	17,199	17,906	18,557	18,595			
Engine 3	11,742	12,411	13,061	13,710	14,206	14,708	15,210	15,712	16,236	16,809	17,418	18,044	17,931			
Engine 4	13,204	13,951	14,694	15,392	16,091	16,763	17,436	18,109	18,793	19,433	20,140	20,806	20,826			
Cumulative capacity factor, %																
Engine 1	87%	87%	87%	87%	87%	86%	86%	86%	86%	86%	85%	85%	85%			
Engine 2	74%	74%	73%	73%	73%	74%	74%	74%	74%	74%	75%	75%	75%			
Engine 3	75%	75%	75%	76%	75%	74%	73%	73%	73%	73%	73%	73%	72%			
Engine 4	84%	85%	85%	85%	85%	85%	85%	84%	84%	84%	84%	84%	84%			
Cumulative by Facility in mont																
Max cumulative available engi	1,824	1,920	2,016	2,112	2,208	2,304	2,400	2,496	2,592	2,688	2,784	2,880	2,880			
Actual cumulative engine run h	1,729	1,825	1,921	2,017	2,109	2,205	2,301	2,397	2,492	2,584	2,680	2,776	2,772			
Cumulative Availability, %	94.8%	95.1%	95.3%	95.5%	95.5%	95.7%	95.9%	96.0%	96.1%	96.1%	96.3%	96.4%	96.3%			
Max cumulative gross output, k	1,504,800	1,584,000	1,663,200	1,742,400	1,821,600	1,900,800	1,980,000	2,059,200	2,138,400	2,217,600	2,296,800	2,376,000	2,376,000			
Actual cumulative gross output,	1,175,161	1,239,287	1,303,148	1,365,567	1,425,204	1,486,395	1,546,841	1,607,416	1,668,341	1,724,274	1,788,959	1,851,051	1,848,865			
Cumulative Capacity Factor	78.1%	78.2%	78.4%	78.4%	78.2%	78.2%	78.1%	78.1%	78.0%	77.8%	77.9%	77.9%	77.8%			
Cumulative fuel input, MMBtu f	14,569	15,346	16,128	16,893	17,631	18,396	19,169	19,947	20,727	21,450	22,252	23,025	22,999			
Cumulative gross output, kWhr	1,175,161	1,239,287	1,303,148	1,365,567	1,425,204	1,486,395	1,546,841	1,607,416	1,668,341	1,724,274	1,788,959	1,851,051	1,848,865			
Heat Rate																
Daily heat rate, Btu/kWe gross	10,888	10,916	11,027	11,026	11,144	11,251	11,512	11,568	11,523	11,630	11,163	11,211	11,222			

		Monday 12/19/2016	Tuesday 12/20/2016	Wednesday 12/21/2016	Thursday 12/22/2016	Friday 12/23/2016	Saturday 12/24/2016	Sunday 12/25/2016	Monday 12/26/2016	Tuesday 12/27/2016	Wednesday 12/28/2016	Thursday 12/29/2016	Friday 12/30/2016	Saturday 12/31/2016	TOTAL	Biogas	LFG
Daily heat rate, Btu/kWe gross		12,095	12,126	12,250	12,248	12,380	12,499	12,788	12,850	12,801	12,919	12,400	12,454	12,466			
Cumulative heat rate, Btu/kWe		11,160	11,147	11,141	11,136	11,136	11,141	11,156	11,171	11,184	11,198	11,197	11,198	11,198			
Cumulative heat rate, Btu/kWe		12,397	12,383	12,376	12,371	12,371	12,376	12,392	12,410	12,424	12,440	12,439	12,439	12,439			
Cumulative by Facility starting C.																	
Max cumulative available engine		27,740	27,836	27,932	28,028	28,124	28,220	28,316	28,412	28,508	28,604	28,700	28,796	28,796			
Actual cumulative engine run h		25,389	25,485	25,581	25,677	25,769	25,865	25,961	26,057	26,152	26,244	26,340	26,436	26,432			
Cumulative Availability, %		91.5%	91.6%	91.6%	91.6%	91.6%	91.7%	91.7%	91.7%	91.7%	91.7%	91.8%	91.8%	91.8%			
Max cumulative gross output, kW		22,885,500	22,964,700	23,043,900	23,123,100	23,202,300	23,281,500	23,360,700	23,439,900	23,519,100	23,598,300	23,677,500	23,756,700	23,756,700			
Actual cumulative gross output, Cumulative Capacity Factor		18,123,995	18,188,121	18,251,982	18,314,401	18,374,038	18,435,229	18,495,675	18,556,250	18,617,175	18,673,108	18,737,793	18,799,885	18,797,699			
		79.2%	79.2%	79.2%	79.2%	79.2%	79.2%	79.2%	79.2%	79.2%	79.1%	79.1%	79.1%	79.1%			
Cumulative fuel input, MMBtu h		230,604	231,381	232,163	232,928	233,666	234,431	235,204	235,982	236,762	237,485	238,287	239,060	239,034			
Cumulative gross output, kWh		18,123,995	18,188,121	18,251,982	18,314,401	18,374,038	18,435,229	18,495,675	18,556,250	18,617,175	18,673,108	18,737,793	18,799,885	18,797,699			
Cumulative heat rate, Btu/kWe		11,454	11,452	11,450	11,449	11,448	11,447	11,448	11,448	11,448	11,448	11,448	11,447	11,447			
Cumulative heat rate, Btu/kWe		12,724	12,722	12,720	12,718	12,717	12,716	12,717	12,717	12,717	12,718	12,717	12,716	12,716			
Service																	
Engine 1																	
Engine 2																	
Engine 3																	
Engine 4																	
Oil - oil and filter change																	
Service - plugs, air filter, valve insp																	
Precipitation																	
NSTAR Power Reports		Monday 12/19/2016	Tuesday 12/20/2016	Wednesday 12/21/2016	Thursday 12/22/2016	Friday 12/23/2016	Saturday 12/24/2016	Sunday 12/25/2016	Monday 12/26/2016	Tuesday 12/27/2016	Wednesday 12/28/2016	Thursday 12/29/2016	Friday 12/30/2016	Saturday 12/31/2016	TOTAL		
Date																	
Hour																	
1		2,379	2,688	2,564	2,516	2,514	2,463	2,464	2,416	2,468	2,481	2,546	2,618	2,421			
2		2,379	2,607	2,562	2,513	2,512	2,463	2,463	2,414	2,464	2,494	2,543	2,615	2,419			
3		2,381	2,608	2,563	2,517	2,511	2,465	2,463	2,414	2,466	2,494	2,544	2,616	2,417			
4		2,383	2,609	2,596	2,516	2,348	2,464	2,464	2,416	2,468	2,494	2,545	2,619	2,419			
5		2,380	2,606	2,609	2,513	2,028	2,463	2,462	2,429	2,466	2,494	2,542	2,614	2,417			
6		2,381	2,608	2,611	2,516	2,033	2,465	2,464	2,463	2,466	2,455	2,543	2,614	2,418			
7		2,383	2,610	2,611	2,515	2,036	2,466	2,464	2,465	2,468	2,447	2,546	2,536	2,421			
8		2,380	2,607	2,610	2,515	2,109	2,464	2,463	2,463	2,466	2,443	2,543	2,521	2,418			
9		2,380	2,602	2,609	2,505	2,584	2,466	2,464	2,461	2,465	2,441	2,540	2,511	2,419			
10		2,373	2,588	2,607	2,509	2,474	2,466	2,429	2,443	2,464	2,439	2,558	2,514	2,419			
11		1,809	2,555	2,586	2,505	2,466	2,469	2,417	2,384	2,109	1,990	2,610	2,495	2,419			
12		2,128	2,557	2,558	2,508	2,466	2,467	2,417	2,367	2,436	89	2,611	2,537	2,418			
13		2,225	2,560	2,562	2,510	2,470	2,470	2,421	2,387	2,493	310	2,614	2,542	2,422			
14		2,423	2,558	2,555	2,507	2,468	2,467	2,417	2,415	2,558	1,064	2,614	2,473	2,420			
15		2,589	2,559	2,560	2,512	2,470	2,468	2,418	2,416	2,558	2,619	2,613	2,481	2,256			
16		2,662	2,563	2,561	2,516	2,468	2,471	2,416	2,461	2,542	2,620	2,616	2,423	2,130			
17		2,655	2,561	2,562	2,514	2,464	2,464	2,414	2,463	2,448	2,614	2,734	2,423	2,242			
18		2,657	2,565	2,561	2,516	2,468	2,467	2,414	2,464	2,446	2,617	2,739	2,422	2,222			
19		2,685	2,567	2,563	2,514	2,466	2,469	2,417	2,464	2,445	2,618	2,740	2,421	2,397			
20		2,700	2,563	2,561	2,512	2,463	2,462	2,415	2,463	2,445	2,616	2,735	2,420	2,438			
21		2,704	2,564	2,560	2,514	2,466	2,466	2,415	2,465	2,446	2,595	2,690	2,420	2,585			
22		2,706	2,568	2,562	2,516	2,465	2,466	2,416	2,466	2,450	2,546	2,659	2,421	2,588			
23		2,703	2,562	2,519	2,512	2,464	2,464	2,414	2,466	2,445	2,543	2,645	2,418	2,584			
24		2,704	2,565	2,513	2,513	2,465	2,464	2,415	2,463	2,446	2,543	2,616	2,419	2,585			
TOTAL		59,149	62,000	61,725	60,304	57,678	59,179	58,426	58,528	58,928	54,066	62,686	60,093	57,894			
Cumulative Output Sold, kW		1,138,525	1,200,525	1,262,250	1,322,554	1,380,232	1,439,411	1,497,837	1,556,365	1,615,293	1,669,359	1,732,045	1,792,138	1,850,032			
Transformer and line efficiency		99.8%	99.9%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.7%	99.8%	99.8%	99.8%	99.8%	0.0%		
Hourly average		2,465	2,583	2,572	2,513	2,403	2,466	2,434	2,439	2,455	2,253	2,612	2,504	2,412	2,487		

NOVEMBER 2016								Daylight savings Add 1 hour Sunday 11/6/2016												
		Tuesday 11/1/2016	Wednesday 11/2/2016	Thursday 11/3/2016	Friday 11/4/2016	Saturday 11/5/2016	Sunday 11/6/2016	Monday 11/7/2016	Tuesday 11/8/2016	Wednesday 11/9/2016	Thursday 11/10/2016	Friday 11/11/2016	Saturday 11/12/2016	Sunday 11/13/2016	Monday 11/14/2016	Tuesday 11/15/2016	Wednesday 11/16/2016	Thursday 11/17/2016		
LFG and Biogas Flow to the Engines (KSCF)		1,216	1,154	1,203	1,373	1,529	1,562	1,532	1,536	1,441	1,506	1,585	1,649	1,591	1,577	1,568	1,482	1,483		
LFG and Biogas Flow to the Engines (MMBTU HHV)		680	657	684	752	831	848	827	844	814	839	867	862	844	837	844	816	814		
LFG and Biogas Flow to the Flare (KSCF)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LFG and Biogas Flow to the Flare (MMBTU HHV)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LFG and Biogas Total Flow (KSCF)		1,216	1,154	1,203	1,373	1,529	1,562	1,532	1,536	1,441	1,506	1,585	1,649	1,591	1,577	1,568	1,482	1,483		
LFG and Biogas Total Flow (MMBTU HHV)		680	657	684	752	831	848	827	844	814	839	867	862	844	837	844	816	814		
Average Methane Content (%)		55.2	56.3	56.2	54.1	53.7	53.6	53.3	54.3	55.8	55.0	54.1	51.6	52.4	52.4	53.2	54.4	54.2		
Engine 1 Hours		24	24	24	24	24	25	24	24	24	23	24	24	24	24	24	24	23		
Engine 2 Hours		24	23	24	24	24	25	24	24	24	24	24	24	24	24	24	22	24		
Engine 3 Hours		24	23	24	24	24	25	24	24	24	24	24	24	24	24	24	24	24		
Engine 4 Hours		-	-	1	17	24	25	24	24	23	24	24	24	24	24	24	24	24		
Generator 1 Power Output (kWhr)		19,736	18,060	19,732	19,244	19,146	19,968	18,992	19,160	18,546	18,980	19,734	19,274	17,974	18,616	18,302	18,382	16,282		
Generator 2 Power Output (kWhr)		19,714	18,454	19,718	19,214	19,108	19,930	19,124	19,122	18,558	19,232	19,710	19,090	17,966	18,062	18,612	16,736	17,798		
Generator 3 Power Output (kWhr)		16,772	15,636	16,760	16,762	16,750	17,468	16,304	16,760	15,792	15,304	16,316	16,422	16,086	15,580	16,010	16,164	15,576		
Generator 4 Power Output (kWhr)		-	-	-	8,350	14,390	15,004	14,880	15,556	15,034	15,290	16,302	15,702	16,738	16,740	16,742	16,878	17,928		
Gross Power Output (kWhr)		56,247	52,233	56,250	63,591	69,402	72,378	69,309	70,604	67,964	68,814	72,020	70,477	68,766	68,979	69,652	68,144	67,572		
Net Power Output (kWhr)		54,567	50,629	54,558	61,768	67,557	70,451	67,401	68,665	66,130	67,018	69,978	68,422	66,871	66,983	67,634	66,237	65,770		
Power Sold as metered by NStar, (kWhr)		54,445	50,503	54,450	61,669	67,513	70,308	67,298	68,524	65,969	66,858	69,781	68,310	66,689	66,809	67,431	66,059	65,600		
Offgrid RECs (kWhr)		1,680	1,603	1,692	1,823	1,847	1,925	1,908	1,939	1,834	1,796	2,043	2,005	1,895	1,995	2,019	1,906	1,801		
Calculated Performance Results																				
Daily																				
Power output (kW average when running)																				
Generator 1		822	753	822	802	798	799	791	798	773	825	822	803	749	776	763	766	708		
Generator 2		821	802	822	801	796	797	797	797	773	801	821	795	749	753	776	761	742		
Generator 3		699	680	698	698	698	699	679	698	658	638	680	684	670	649	667	674	649		
Generator 4		-	-	-	491	600	600	620	648	654	637	679	654	697	698	698	703	747		
Power output (kW average over 24-hrs)																				
Facility Gross		2,344	2,176	2,344	2,650	2,892	2,895	2,888	2,942	2,832	2,867	3,001	2,937	2,865	2,874	2,902	2,839	2,816		
Facility Net		2,274	2,110	2,273	2,574	2,815	2,818	2,808	2,861	2,755	2,792	2,916	2,853	2,786	2,791	2,818	2,760	2,740		
In-plant load		70	67	71	76	77	77	80	81	76	75	85	84	79	83	84	79	75		
Daily availability factor																				
Facility		75%	73%	76%	93%	100%	100%	100%	100%	99%	99%	100%	100%	100%	100%	100%	98%	99%		
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	96%		
Engine 2		100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	92%	100%		
Engine 3		100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		
Engine 4		0%	0%	4%	71%	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%	100%		
Daily capacity factor																				
Facility		71%	66%	71%	80%	88%	88%	88%	89%	86%	87%	91%	89%	87%	87%	88%	86%	85%		
Engine 1		100%	91%	100%	97%	97%	97%	96%	97%	94%	100%	100%	97%	91%	94%	92%	93%	86%		
Engine 2		100%	97%	100%	97%	97%	97%	97%	97%	94%	100%	100%	96%	91%	91%	94%	92%	90%		
Engine 3		85%	82%	85%	85%	85%	85%	82%	85%	80%	77%	82%	83%	81%	79%	81%	82%	79%		
Engine 4		0%	0%	0%	60%	73%	73%	75%	79%	79%	77%	82%	79%	85%	85%	85%	85%	91%		
Cumulative by engine																				
Engine operating run hours in the month																				
Max Cumulative Available, hours		24	48	72	96	120	145	169	193	217	241	265	289	313	337	361	385	409		
Engine 1		24	48	72	96	120	145	169	193	217	240	264	288	312	336	360	384	407		
Engine 2		24	47	71	95	119	144	168	192	216	240	264	288	312	336	360	382	406		
Engine 3		24	47	71	95	119	144	168	192	216	240	264	288	312	336	360	384	408		
Engine 4		0	0	1	18	42	67	91	115	138	162	186	210	234	258	282	306	330		
Engine operating run hours total from 0 hours																				
Engine 1	86,840	86,864	86,888	86,912	86,936	86,960	86,985	87,009	87,033	87,057	87,080	87,104	87,128	87,152	87,176	87,200	87,224	87,247		
Engine 2	83,337	83,361	83,384	83,408	83,432	83,456	83,481	83,505	83,529	83,553	83,577	83,601	83,625	83,649	83,673	83,697	83,719	83,743		
Engine 3	86,073	86,097	86,120	86,144	86,168	86,192	86,217	86,241	86,265	86,289	86,313	86,337	86,361	86,385	86,409	86,433	86,457	86,481		
Engine 4	82,942	82,942	82,942	82,943	82,960	82,984	83,009	83,033	83,057	83,080	83,104	83,128	83,152	83,176	83,200	83,224	83,248	83,272		
Cumulative availability, % November 1, 2016 @ 00:00 hours																				
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		
Engine 2		98%	98%	99%	99%	99%	99%	99%	99%	100%	100%	100%	100%	100%	100%	100%	99%	99%		
Engine 3		100%	98%	99%	99%	99%	99%	99%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%		
Engine 4		0%	0%	1%	19%	35%	46%	54%	60%	64%	67%	70%	73%	75%	77%	78%	79%	81%		
Engine cumulative gross output, kWhr																				
Max cumulative capacity one engine		825	1,650	2,475	3,300	4,125	4,950	5,775	6,600	7,425	8,250	9,075	9,900	10,725	11,550	12,375	13,200	14,025		
Engine 1		822	1,575	2,397	3,199	3,997	4,795	5,587	6,385	7,158	7,983	8,805	9,608	10,357	11,133	11,895	12,661	13,389		
Engine 2		821	1,624	2,445	3,246	4,042	4,839	5,636	6,433	7,206	8,007	8,829	9,624	10,373	11,125	11,901	12,662	13,403		
Engine 3		699	1,379	2,077	2,775	3,473	4,172	4,851	5,550	6,208	6,845	7,525	8,209	8,880	9,529	10,196	10,869	11,518		
Engine 4		-	-	-	491	1,091	1,691	2,311	2,959	3,613	4,250	4,929	5,583	6,281	6,978	7,676	8,379	9,126		
Cumulative capacity factor, %																				
Engine 1		100%	95%	97%	97%	97%	97%	97%	97%	96%	97%	97%	97%	97%	96%	96%	96%	95%		
Engine 2		100%	98%	99%	98%	98%	98%	98%	97%	97%	97%	97%	97%	97%	96%	96%	96%	96%		
Engine 3		85%	84%	84%	84%	84%	84%	84%	84%	83%	83%	83%	83%	83%	83%	82%	82%	82%		
Engine 4		0%	0%	0%	15%	26%	34%	40%	45%	49%	52%	54%	56%	59%	60%	62%	63%	65%		
Cumulative by Facility in month																				
Max cumulative available engine run hours		96	192	288	384	480	580	676	772	868	964	1,060	1,156	1,252	1,348	1,444	1,540	1,636		
Actual cumulative engine run hours		72	142	215	304	400	500	596	692	787	882	978	1,074	1,170	1,266	1,362	1,456	1,551		
Cumulative Availability, %		75.0%	74.0%	74.7%	79.2%	83.3%	86.2%	88.2%	89.6%	90.7%	91.5%	92.3%	92.9%	93.5%	93.9%	94.3%	94.5%	94.8%		
Max cumulative gross output, kWhr																				
Actual cumulative gross output, kWhr		56,247	108,480	164,730	228,321	297,723	370,101	439,410	510,014	577,978	646,792	718,812	789,289	858,055	927,034	996,686	1,064,830	1,132,402		
Cumulative Capacity Factor		71.0%	68.5%	69.3%	72.1%	75.2%	77.3%	78.8%	80.1%	80.7%	81.3%	82.2%	82.8%	83.1%	83.4%					

		Tuesday 11/1/2016	Wednesday 11/2/2016	Thursday 11/3/2016	Friday 11/4/2016	Saturday 11/5/2016	Sunday 11/6/2016	Monday 11/7/2016	Tuesday 11/8/2016	Wednesday 11/9/2016	Thursday 11/10/2016	Friday 11/11/2016	Saturday 11/12/2016	Sunday 11/13/2016	Monday 11/14/2016	Tuesday 11/15/2016	Wednesday 11/16/2016	Thursday 11/17/2016
	Cumulative gross output, kWhr	56,247	108,480	164,730	228,321	297,723	370,101	439,410	510,014	577,978	646,792	718,812	789,289	858,055	927,034	996,686	1,064,830	1,132,402
Heat Rate																		
	Daily heat rate, Btu/kWe gross LHV	10,875	11,325	10,940	10,648	10,783	10,548	10,735	10,765	10,784	10,974	10,837	11,008	11,043	10,924	10,912	10,777	10,841
	Daily heat rate, Btu/kWe gross HHV	12,081	12,580	12,153	11,829	11,978	11,718	11,925	11,958	11,980	12,191	12,038	12,228	12,268	12,136	12,122	11,972	12,043
	Cumulative heat rate, Btu/kWe gross LHV	10,875	11,091	11,040	10,931	10,896	10,828	10,813	10,807	10,804	10,822	10,824	10,840	10,856	10,861	10,865	10,859	10,858
	Cumulative heat rate, Btu/kWe gross HHV	12,081	12,321	12,264	12,143	12,104	12,029	12,012	12,005	12,002	12,022	12,024	12,042	12,060	12,066	12,069	12,063	12,062
Cumulative by Facility starting Calendar Year																		
	Max cumulative available engine run hours	25,916	26,012	26,108	26,204	26,300	26,400	26,496	26,592	26,688	26,784	26,880	26,976	27,072	27,168	27,264	27,360	27,456
	Actual cumulative engine run hours	23,660	23,730	23,803	23,892	23,988	24,088	24,184	24,280	24,375	24,470	24,566	24,662	24,758	24,854	24,950	25,044	25,139
	Cumulative Availability, %	91.3%	91.2%	91.2%	91.2%	91.2%	91.2%	91.2%	91.3%	91.3%	91.3%	91.4%	91.4%	91.4%	91.5%	91.5%	91.5%	91.6%
	Max cumulative gross output, kWhr	21,380,700	21,459,900	21,539,100	21,618,300	21,697,500	21,780,000	21,859,200	21,938,400	22,017,600	22,096,800	22,176,000	22,255,200	22,334,400	22,413,600	22,492,800	22,572,000	22,651,200
	Actual cumulative gross output, kWhr	16,948,834	17,001,067	17,057,317	17,120,908	17,190,310	17,262,688	17,331,997	17,402,601	17,470,565	17,539,379	17,611,399	17,681,876	17,750,642	17,819,621	17,889,273	17,957,417	18,024,989
	Cumulative Capacity Factor	79.3%	79.2%	79.2%	79.2%	79.2%	79.3%	79.3%	79.3%	79.3%	79.4%	79.4%	79.5%	79.5%	79.5%	79.5%	79.6%	79.6%
	Cumulative fuel input, MMBtu HHV	216,035	216,692	217,376	218,128	218,959	219,807	220,634	221,478	222,292	223,131	223,998	224,860	225,704	226,541	227,385	228,201	229,015
	Cumulative gross output, kWhr	16,948,834	17,001,067	17,057,317	17,120,908	17,190,310	17,262,688	17,331,997	17,402,601	17,470,565	17,539,379	17,611,399	17,681,876	17,750,642	17,819,621	17,889,273	17,957,417	18,024,989
	Cumulative heat rate, Btu/kWe gross LHV	11,474	11,474	11,472	11,469	11,466	11,462	11,459	11,457	11,454	11,452	11,450	11,448	11,446	11,444	11,442	11,440	11,437
	Cumulative heat rate, Btu/kWe gross HHV	12,746	12,746	12,744	12,740	12,737	12,733	12,730	12,727	12,724	12,722	12,719	12,717	12,715	12,713	12,711	12,708	12,705
Service																		
	Engine 1																	
	Engine 2																	
	Engine 3																	
	Engine 4																	
	Oil - oil and filter change																	
	Service - plugs, air filter, valve inspection and adjustment																	
Precipitation																		
	NSTAR Power Reports																	
	Date	11/1/2016	11/2/2016	11/3/2016	11/4/2016	11/5/2016	11/6/2016	11/7/2016	11/8/2016	11/9/2016	11/10/2016	11/11/2016	11/12/2016	11/13/2016	11/14/2016	11/15/2016	11/16/2016	11/17/2016
	Hour																	
	1	2,267	2,269	2,277	2,274	2,817	2,814	2,812	2,862	2,863	2,860	2,855	2,946	2,806	2,783	2,818	2,873	2,763
	2	2,275	2,268	2,277	2,276	2,817	2,811	2,810	2,858	2,863	2,860	2,855	2,944	2,805	2,830	2,795	2,873	2,817
	3	2,270	2,268	2,271	2,271	2,814	2,813	2,811	2,859	2,862	2,854	2,854	2,945	2,805	2,758	2,756	2,874	2,834
	4	2,273	2,268	2,273	2,273	2,816	2,810	2,810	2,860	2,863	2,860	2,854	2,944	2,807	2,761	2,756	2,875	2,795
	5	2,272	2,269	2,275	2,273	2,817	2,813	2,810	2,860	2,863	2,859	2,850	2,943	2,806	2,760	2,755	2,875	2,763
	6	2,271	2,268	2,275	2,271	2,814	2,808	2,813	2,861	2,862	2,860	2,854	2,942	2,805	2,760	2,757	2,875	2,762
	7	2,271	2,270	2,271	2,264	2,816	2,812	2,785	2,860	2,861	2,848	2,845	2,945	2,807	2,778	2,756	2,873	2,763
	8	2,265	2,271	2,270	2,113	2,818	2,810	2,760	2,852	2,861	2,861	2,848	2,942	2,806	2,889	2,756	2,868	2,736
	9	2,256	2,265	2,270	2,426	2,817	2,811	2,756	2,851	2,855	2,856	2,880	2,940	2,805	2,772	2,752	2,874	2,716
	10	2,268	2,264	2,265	2,610	2,811	2,808	2,613	2,850	2,850	2,855	2,913	2,939	2,803	2,818	2,747	2,885	2,774
	11	2,267	1,044	2,268	2,613	2,812	2,813	2,372	2,847	2,846	2,852	2,932	2,938	2,772	2,816	2,747	2,780	2,774
	12	2,268	149	2,267	2,640	2,810	2,814	2,856	2,846	2,841	1,255	2,927	2,806	2,758	2,816	2,747	2,607	2,775
	13	2,264	1,910	2,261	2,726	2,811	2,813	2,858	2,843	2,841	2,744	2,932	2,637	2,758	2,816	2,749	2,646	2,777
	14	2,263	2,088	2,256	2,539	2,810	2,813	2,854	2,842	2,843	2,932	2,932	2,685	2,756	2,815	2,809	2,374	2,360
	15	2,265	2,171	2,255	2,780	2,810	2,814	2,851	2,842	1,274	2,860	2,935	2,688	2,757	2,785	2,823	2,151	2,149
	16	2,270	2,261	2,257	2,807	2,811	2,816	2,859	2,846	1,846	2,857	2,938	2,758	2,759	2,749	2,848	2,542	2,527
	17	2,277	2,273	2,253	2,815	2,812	2,816	2,856	2,856	2,859	2,857	2,947	2,759	2,758	2,804	2,918	2,827	2,832
	18	2,273	2,274	2,262	2,814	2,810	2,815	2,858	2,859	2,858	2,858	2,950	2,760	2,760	2,756	2,873	2,802	2,832
	19	2,267	2,275	2,270	2,816	2,812	2,811	2,858	2,860	2,860	2,853	2,948	2,819	2,759	2,757	2,873	2,763	2,837
	20	2,269	2,277	2,276	2,812	2,812	2,812	2,858	2,861	2,860	2,853	2,948	2,806	2,759	2,758	2,871	2,764	2,837
	21	2,268	2,275	2,276	2,814	2,812	2,811	2,860	2,862	2,860	2,854	2,944	2,806	2,760	2,757	2,872	2,765	2,808
	22	2,269	2,275	2,278	2,815	2,814	2,813	2,861	2,863	2,859	2,857	2,945	2,807	2,760	2,757	2,901	2,764	2,790
	23	2,269	2,275	2,279	2,814	2,809	2,814	2,859	2,862	2,859	2,853	2,945	2,805	2,761	2,756	2,870	2,764	2,789
	24	2,268	2,276	2,268	2,813	2,811	2,812	2,858	2,862	2,860	2,854	2,947	2,806	2,757	2,758	2,882	2,765	2,790
	TOTAL	54,445	50,503	54,450	61,669	67,513	70,308	67,298	68,524	65,969	66,858	69,781	68,310	66,689	66,809	67,431	66,059	65,600
	Cumulative Output Sold, kWhr	54,445	104,948	159,398	221,067	288,580	358,888	426,186	494,710	560,679	627,537	697,318	765,628	832,317	899,126	966,557	1,032,616	1,098,216
	Transformer and line efficiency	99.8%	99.8%	99.8%	99.8%	99.9%	99.8%	99.8%	99.8%	99.8%	99.8%	99.7%	99.8%	99.7%	99.7%	99.7%	99.7%	99.7%
	Hourly average	2,269	2,104	2,269	2,570	2,813	2,812	2,804	2,855	2,749	2,786	2,908	2,846	2,779	2,784	2,810	2,752	2,733

NOVEMBER 2016																
	Friday 11/18/2016	Saturday 11/19/2016	Sunday 11/20/2016	Monday 11/21/2016	Tuesday 11/22/2016	Wednesday 11/23/2016	Thursday 11/24/2016	Friday 11/25/2016	Saturday 11/26/2016	Sunday 11/27/2016	Monday 11/28/2016	Tuesday 11/29/2016	Wednesday 11/30/2016	TOTAL	Biogas	LFG
LFG and Biogas Flow to the Engine	1,497	1,489	1,506	1,430	1,453	1,494	1,478	1,498	1,458	1,482	1,456	1,396	1,444	44,070	2,027	42,043
LFG and Biogas Flow to the Engine	810	822	849	799	816	819	807	817	809	818	801	783	818	24,225	1,477	22,748
LFG and Biogas Flow to the Flare (P)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1%	94%
LFG and Biogas Flow to the Flare (M)	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LFG and Biogas Total Flow (KSCF)	1,497	1,489	1,506	1,430	1,453	1,494	1,478	1,498	1,458	1,482	1,456	1,396	1,444	44,070		
LFG and Biogas Total Flow (MMBTU)	810	822	849	799	816	819	807	817	809	818	801	783	818	24,225		
Average Methane Content (%)	53.5	54.5	55.7	55.2	55.5	54.1	53.9	53.9	54.8	54.5	54.3	55.4	56.0	54.3		
Engine 1 Hours	24	24	24	23	22	24	24	24	24	24	24	24	24	716		
Engine 2 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	718		
Engine 3 Hours	24	24	24	24	24	24	24	24	24	24	24	23	24	719		
Engine 4 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	642		
Generator 1 Power Output (kW/hr)	16,250	16,792	16,006	15,082	13,792	15,624	15,624	15,624	15,624	15,622	15,626	17,010	17,978	526,782		
Generator 2 Power Output (kW/hr)	18,810	18,870	19,336	18,562	18,776	18,530	18,532	18,530	18,530	18,530	17,362	16,968	17,258	558,742		
Generator 3 Power Output (kW/hr)	14,676	14,402	15,256	14,418	14,680	14,392	14,392	14,390	14,392	14,388	14,394	13,572	14,872	464,686		
Generator 4 Power Output (kW/hr)	17,154	16,754	17,928	17,028	17,528	16,746	16,744	16,742	16,742	16,740	15,956	16,304	15,594	433,494		
Gross Power Output (kW/hr)	66,905	66,846	68,545	65,105	64,813	65,331	65,326	65,323	65,329	65,327	63,380	63,911	65,754	1,984,297		
Net Power Output (kW/hr)	65,071	65,061	66,752	63,246	62,841	63,362	63,454	63,428	63,483	63,477	61,575	62,131	63,924	1,928,494		
Power Sold as metered by NStar, (kWh)	64,899	64,884	66,588	63,129	62,711	63,265	63,339	63,293	63,356	63,362	61,474	61,988	63,764	1,924,268	CRMCB inplant	
Offgrid RECs (kW/hr)	1,835	1,786	1,792	1,859	1,973	1,968	1,873	1,895	1,846	1,850	1,805	1,780	1,830	55,803	8,891	
Calculated Performance Results																
Daily																
Power output (kW average wher																16%
Generator 1	677	700	667	656	627	651	651	651	651	651	651	709	749			of total in-plant power
Generator 2	784	786	806	773	782	772	772	772	772	772	723	707	719			
Generator 3	612	600	636	601	612	600	600	600	600	600	600	590	620			
Generator 4	715	698	747	710	730	698	698	698	698	698	665	679	650			
Power output (kW average over																
Facility Gross	2,788	2,785	2,856	2,713	2,701	2,722	2,722	2,722	2,722	2,722	2,641	2,663	2,740			
Facility Net	2,711	2,711	2,781	2,635	2,618	2,640	2,644	2,643	2,645	2,645	2,566	2,589	2,664			
In-plant load	76	74	75	77	82	82	78	79	77	77	75	74	76			
Daily availability factor																
Facility	100%	100%	100%	99%	98%	100%	100%	100%	100%	100%	100%	99%	100%			
Engine 1	100%	100%	100%	96%	92%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 3	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%			
Engine 4	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Daily capacity factor																
Facility	84%	84%	87%	82%	82%	82%	82%	82%	82%	82%	80%	81%	83%			
Engine 1	82%	85%	81%	79%	76%	79%	79%	79%	79%	79%	79%	86%	91%			
Engine 2	95%	95%	98%	94%	95%	94%	94%	94%	94%	94%	88%	86%	87%			
Engine 3	74%	73%	77%	73%	74%	73%	73%	73%	73%	73%	73%	72%	75%			
Engine 4	87%	85%	91%	86%	89%	85%	85%	85%	85%	85%	81%	82%	79%			
Cumulative by engine																
Engine operating run hours in th																
Max Cumulative Available, P	433	457	481	505	529	553	577	601	625	649	673	697	721			
Engine 1	431	455	479	502	524	548	572	596	620	644	668	692	716			
Engine 2	430	454	478	502	526	550	574	598	622	646	670	694	718			
Engine 3	432	456	480	504	528	552	576	600	624	648	672	696	719			
Engine 4	354	378	402	426	450	474	498	522	546	570	594	618	642			
Engine operating run hours total																
Engine 1	87,271	87,295	87,319	87,342	87,364	87,388	87,412	87,436	87,460	87,484	87,508	87,532	87,556			
Engine 2	83,767	83,791	83,815	83,839	83,863	83,887	83,911	83,935	83,959	83,983	84,007	84,031	84,055			
Engine 3	86,505	86,529	86,553	86,577	86,601	86,625	86,649	86,673	86,697	86,721	86,745	86,768	86,792			
Engine 4	83,296	83,320	83,344	83,368	83,392	83,416	83,440	83,464	83,488	83,512	83,536	83,560	83,584			
Cumulative availability, %																
Engine 1	100%	100%	100%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%			
Engine 2	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%			
Engine 3	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 4	82%	83%	84%	84%	85%	86%	86%	87%	87%	88%	88%	89%	89%			
Engine cumulative gross output, kWh																
Max cumulative capacity on	14,850	15,675	16,500	17,325	18,150	18,975	19,800	20,625	21,450	22,275	23,100	23,925	24,750			
Engine 1	14,046	14,746	15,413	16,069	16,696	17,347	17,998	18,649	19,300	19,950	20,602	21,310	22,059			
Engine 2	14,187	14,973	15,779	16,552	17,335	18,107	18,879	19,651	20,423	21,195	21,918	22,625	23,345			
Engine 3	12,130	12,730	13,366	13,966	14,578	15,178	15,777	16,377	16,977	17,576	18,176	18,766	19,366			
Engine 4	9,841	10,539	11,286	11,995	12,726	13,423	14,121	14,819	15,516	16,214	16,879	17,558	18,208			
Cumulative capacity factor, %																
Engine 1	95%	94%	93%	93%	92%	91%	91%	90%	90%	90%	89%	89%	89%			
Engine 2	96%	96%	96%	96%	96%	95%	95%	95%	95%	95%	95%	95%	94%			
Engine 3	82%	81%	81%	81%	80%	80%	80%	79%	79%	79%	79%	78%	78%			
Engine 4	66%	67%	68%	69%	70%	71%	71%	72%	72%	73%	73%	73%	74%			
Cumulative by Facility in month																
Max cumulative available engin	1,732	1,828	1,924	2,020	2,116	2,212	2,308	2,404	2,500	2,596	2,692	2,788	2,884			
Actual cumulative engine run h	1,647	1,743	1,839	1,934	2,028	2,124	2,220	2,316	2,412	2,508	2,604	2,699	2,795			
Cumulative Availability, %	95.1%	95.4%	95.6%	95.7%	95.8%	96.0%	96.2%	96.3%	96.5%	96.6%	96.7%	96.8%	96.9%			
Max cumulative gross output, kWh	1,428,900	1,508,100	1,587,300	1,666,500	1,745,700	1,824,900	1,904,100	1,983,300	2,062,500	2,141,700	2,220,900	2,300,100	2,379,300			
Actual cumulative gross output, kWh	1,199,307	1,266,153	1,334,698	1,399,803	1,464,616	1,529,947	1,595,273	1,660,596	1,725,925	1,791,252	1,854,632	1,918,543	1,984,297			
Cumulative Capacity Factor	83.9%	84.0%	84.1%	84.0%	83.9%	83.8%	83.7%	83.7%	83.7%	83.7%	83.5%	83.4%	83.4%			
Cumulative fuel input, MMBtu H	14,469	15,291	16,140	16,939	17,754	18,573	19,379	20,197	21,006	21,823	22,624	23,407	24,225			

	Friday 11/18/2016	Saturday 11/19/2016	Sunday 11/20/2016	Monday 11/21/2016	Tuesday 11/22/2016	Wednesday 11/23/2016	Thursday 11/24/2016	Friday 11/25/2016	Saturday 11/26/2016	Sunday 11/27/2016	Monday 11/28/2016	Tuesday 11/29/2016	Wednesday 11/30/2016	TOTAL	Biogas	LFG
Cumulative gross output, kWhr	1,199,307	1,266,153	1,334,698	1,399,803	1,464,616	1,529,947	1,595,273	1,660,596	1,725,925	1,791,252	1,854,632	1,918,543	1,984,297			
Heat Rate																
Daily heat rate, Btu/kWe gross L	10,897	11,067	11,151	11,045	11,327	11,278	11,114	11,263	11,150	11,266	11,372	11,029	11,201			
Daily heat rate, Btu/kWe gross F	12,105	12,294	12,387	12,269	12,582	12,529	12,346	12,512	12,387	12,515	12,633	12,251	12,443			
Cumulative heat rate, Btu/kWe c	10,860	10,871	10,886	10,893	10,912	10,928	10,936	10,948	10,956	10,967	10,981	10,983	10,990			
Cumulative heat rate, Btu/kWe c	12,064	12,077	12,093	12,101	12,122	12,139	12,148	12,162	12,171	12,183	12,199	12,200	12,208			
Cumulative by Facility starting Ca																
Max cumulative available engin	27,552	27,648	27,744	27,840	27,936	28,032	28,128	28,224	28,320	28,416	28,512	28,608	28,704			
Actual cumulative engine run h	25,235	25,331	25,427	25,522	25,616	25,712	25,808	25,904	26,000	26,096	26,192	26,287	26,383			
Cumulative Availability, %	91.6%	91.6%	91.6%	91.7%	91.7%	91.7%	91.8%	91.8%	91.8%	91.8%	91.9%	91.9%	91.9%			
Max cumulative gross output, kv	22,730,400	22,809,600	22,888,800	22,968,000	23,047,200	23,126,400	23,205,600	23,284,800	23,364,000	23,443,200	23,522,400	23,601,600	23,680,800			
Actual cumulative gross output,	18,091,894	18,158,740	18,227,285	18,292,390	18,357,203	18,422,534	18,487,860	18,553,183	18,618,512	18,683,839	18,747,219	18,811,130	18,876,884			
Cumulative Capacity Factor	79.6%	79.6%	79.6%	79.6%	79.7%	79.7%	79.7%	79.7%	79.7%	79.7%	79.7%	79.7%	79.7%			
Cumulative fuel input, MMBtu H	229,825	230,646	231,495	232,294	233,110	233,928	234,735	235,552	236,361	237,179	237,980	238,763	239,581			
Cumulative gross output, kWhr	18,091,894	18,158,740	18,227,285	18,292,390	18,357,203	18,422,534	18,487,860	18,553,183	18,618,512	18,683,839	18,747,219	18,811,130	18,876,884			
Cumulative heat rate, Btu/kWe c	11,435	11,434	11,433	11,432	11,431	11,431	11,430	11,429	11,428	11,427	11,427	11,426	11,425			
Cumulative heat rate, Btu/kWe c	12,703	12,702	12,700	12,699	12,699	12,698	12,697	12,696	12,695	12,694	12,694	12,693	12,692			
Service																
Engine 1																
Engine 2																
Engine 3																
Engine 4																
Oil - oil and filter change																
Service - plugs, air filter, valve inspe																
Precipitation																
NSTAR Power Reports	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday			
Date	11/18/2016	11/19/2016	11/20/2016	11/21/2016	11/22/2016	11/23/2016	11/24/2016	11/25/2016	11/26/2016	11/27/2016	11/28/2016	11/29/2016	11/30/2016	TOTAL		
Hour																
1	2,785	2,690	2,832	2,689	2,153	2,638	2,641	2,636	2,639	2,641	2,642	2,525	2,665			
2	2,787	2,685	2,832	2,692	2,152	2,640	2,639	2,639	2,637	2,640	2,639	2,526	2,663			
3	2,787	2,687	2,832	2,689	2,207	2,638	2,639	2,637	2,638	2,642	2,642	2,524	2,665			
4	2,788	2,689	2,833	2,689	2,659	2,640	2,639	2,638	2,642	2,642	2,639	2,526	2,667			
5	2,786	2,686	2,832	2,688	2,832	2,638	2,639	2,635	2,638	2,642	2,641	2,525	2,665			
6	2,765	2,688	2,834	2,654	2,772	2,639	2,639	2,638	2,637	2,641	2,640	2,526	2,666			
7	2,691	2,690	2,833	2,642	2,734	2,639	2,640	2,635	2,642	2,640	2,642	2,524	2,664			
8	2,690	2,689	2,836	2,640	2,700	2,637	2,640	2,639	2,639	2,642	2,640	2,522	2,657			
9	2,653	2,689	2,797	2,634	2,681	2,629	2,641	2,637	2,639	2,639	2,526	2,519	2,659			
10	2,634	2,687	2,788	2,630	2,676	2,629	2,640	2,638	2,642	2,639	2,512	2,520	2,657			
11	2,631	2,687	2,788	2,633	2,672	2,628	2,641	2,636	2,640	2,638	2,518	2,505	2,655			
12	2,677	2,687	2,787	2,631	2,671	2,628	2,641	2,637	2,639	2,638	2,520	2,274	2,657			
13	2,676	2,688	2,787	2,633	2,673	2,628	2,639	2,637	2,641	2,639	2,520	2,673	2,660			
14	2,673	2,689	2,787	2,633	2,675	2,626	2,639	2,637	2,640	2,638	2,521	2,659	2,658			
15	2,674	2,689	2,786	2,633	2,675	2,628	2,638	2,638	2,640	2,640	2,520	2,657	2,221			
16	2,681	2,689	2,788	2,635	2,675	2,633	2,639	2,634	2,640	2,642	2,520	2,660	2,542			
17	2,689	2,691	2,768	2,633	2,640	2,642	2,638	2,635	2,639	2,641	2,520	2,665	2,720			
18	2,691	2,736	2,716	2,638	2,635	2,639	2,639	2,639	2,638	2,637	2,521	2,667	2,721			
19	2,692	2,738	2,688	2,638	2,637	2,642	2,635	2,639	2,640	2,640	2,523	2,666	2,720			
20	2,689	2,739	2,688	2,636	2,636	2,641	2,637	2,639	2,640	2,638	2,524	2,665	2,718			
21	2,691	2,738	2,689	2,637	2,640	2,642	2,640	2,635	2,642	2,641	2,527	2,667	2,719			
22	2,691	2,739	2,690	2,638	2,638	2,640	2,638	2,640	2,642	2,642	2,526	2,666	2,715			
23	2,689	2,737	2,688	2,638	2,638	2,641	2,638	2,636	2,641	2,640	2,525	2,663	2,715			
24	2,689	2,757	2,689	2,226	2,640	2,640	2,640	2,639	2,641	2,640	2,526	2,664	2,715			
TOTAL	64,899	64,884	66,588	63,129	62,711	63,265	63,339	63,293	63,356	63,362	61,474	61,988	63,764			
Cumulative Output Sold, kW	1,163,115	1,227,999	1,294,587	1,357,716	1,420,427	1,483,692	1,547,031	1,610,324	1,673,680	1,737,042	1,798,516	1,860,504	1,924,268			
Transformer and line efficienc	99.7%	99.7%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.7%	0.0%		
Hourly average	2,704	2,704	2,775	2,630	2,613	2,636	2,639	2,637	2,640	2,640	2,561	2,583	2,657	2,669		

5/8/2017

		Saturday 10/1/2016	Sunday 10/2/2016	Monday 10/3/2016	Tuesday 10/4/2016	Wednesday 10/5/2016	Thursday 10/6/2016	Friday 10/7/2016	Saturday 10/8/2016	Sunday 10/9/2016	Monday 10/10/2016	Tuesday 10/11/2016	Wednesday 10/12/2016	Thursday 10/13/2016	Friday 10/14/2016	Saturday 10/15/2016	Sunday 10/16/2016	Monday 10/17/2016	Tuesday 10/18/2016
Daily heat rate, Btu/kWe gross HHV		12,324	12,674	12,427	12,556	12,693	12,602	12,629	12,308	12,347	12,375	12,669	12,267	13,584	12,058	11,997	12,001	12,170	12,575
Cumulative heat rate, Btu/kWe gross LHV		11,094	11,243	11,223	11,244	11,280	11,291	11,301	11,276	11,259	11,248	11,260	11,244	11,296	11,263	11,229	11,200	11,185	11,192
Cumulative heat rate, Btu/kWe gross HHV		12,324	12,489	12,468	12,490	12,531	12,543	12,554	12,526	12,507	12,495	12,508	12,490	12,548	12,511	12,474	12,442	12,425	12,433
Cumulative by Facility starting Calendar Year																			
Max cumulative available engine run hours	23,036	23,132	23,228	23,324	23,420	23,516	23,612	23,708	23,804	23,900	23,996	24,092	24,188	24,284	24,380	24,476	24,572	24,668	
Actual cumulative engine run hours	21,166	21,251	21,348	21,444	21,540	21,636	21,732	21,794	21,866	21,938	22,010	22,081	22,135	22,220	22,316	22,412	22,412	22,506	
Cumulative Availability, %	91.9%	91.9%	91.9%	91.9%	92.0%	92.0%	92.0%	91.9%	91.9%	91.8%	91.7%	91.7%	91.7%	91.5%	91.5%	91.5%	91.6%	91.2%	91.2%
Max cumulative gross output, kWhr	19,004,700	19,083,900	19,163,100	19,242,300	19,321,500	19,400,700	19,479,900	19,559,100	19,638,300	19,717,500	19,796,700	19,875,900	19,955,100	20,034,300	20,113,500	20,192,700	20,271,900	20,351,100	
Actual cumulative gross output, kWhr	15,079,378	15,138,844	15,205,650	15,271,537	15,336,047	15,400,813	15,460,951	15,520,148	15,579,330	15,636,170	15,688,227	15,743,056	15,783,774	15,845,973	15,910,672	15,976,375	16,042,685	16,106,343	
Cumulative Capacity Factor	79.3%	79.3%	79.3%	79.4%	79.4%	79.4%	79.4%	79.4%	79.3%	79.3%	79.2%	79.2%	79.1%	79.1%	79.1%	79.1%	79.1%	79.1%	
Cumulative fuel input, MMBtu HHV	193,135	193,888	194,719	195,546	196,365	197,181	197,940	198,669	199,400	200,103	200,763	201,435	201,988	202,738	203,515	204,303	205,110	205,911	
Cumulative gross output, kWhr	15,079,378	15,138,844	15,205,650	15,271,537	15,336,047	15,400,813	15,460,951	15,520,148	15,579,330	15,636,170	15,688,227	15,743,056	15,783,774	15,845,973	15,910,672	15,976,375	16,042,685	16,106,343	
Cumulative heat rate, Btu/kWe gross LHV	11,530	11,529	11,528	11,527	11,526	11,525	11,525	11,525	11,522	11,520	11,517	11,517	11,518	11,517	11,514	11,512	11,509	11,509	
Cumulative heat rate, Btu/kWe gross HHV	12,808	12,807	12,806	12,805	12,804	12,803	12,803	12,801	12,799	12,797	12,797	12,795	12,797	12,794	12,791	12,788	12,785	12,784	
Service																			
Engine 1		Tecjet position failure																	
Engine 2												Top-End	Top-End	Shutdown for					
Engine 3										Redo Harness				LFG REPIPING					
Engine 4														Top-End					
Oil - oil and filter change																			
Service - plugs, air filter, valve inspection and adjustment																			
Precipitation																			
NSTAR Power Reports		Saturday 10/1/2016	Sunday 10/2/2016	Monday 10/3/2016	Tuesday 10/4/2016	Wednesday 10/5/2016	Thursday 10/6/2016	Friday 10/7/2016	Saturday 10/8/2016	Sunday 10/9/2016	Monday 10/10/2016	Tuesday 10/11/2016	Wednesday 10/12/2016	Thursday 10/13/2016	Friday 10/14/2016	Saturday 10/15/2016	Sunday 10/16/2016	Monday 10/17/2016	Tuesday 10/18/2016
Date																			
Hour																			
1		2,685	2,662	2,641	2,735	2,540	2,639	2,619	2,389	2,388	2,388	2,268	2,274	2,223	2,289	2,604	2,605	2,673	2,687
2		2,685	2,682	2,641	2,733	2,573	2,638	2,617	2,388	2,388	2,387	2,268	2,272	2,223	2,289	2,605	2,606	2,672	2,687
3		2,684	2,569	2,641	2,732	2,560	2,638	2,617	2,387	2,388	2,387	2,268	2,271	2,223	2,289	2,604	2,605	2,671	2,686
4		2,685	2,349	2,712	2,721	2,541	2,640	2,618	2,388	2,388	2,386	2,269	2,272	2,224	2,291	2,606	2,605	2,672	2,686
5		2,685	1,956	2,670	2,639	2,539	2,638	2,617	2,386	2,388	2,387	2,269	2,272	2,223	2,290	2,605	2,605	2,672	2,686
6		2,686	1,956	2,640	2,675	2,539	2,637	2,617	2,386	2,388	2,387	2,268	2,271	2,222	2,290	2,604	2,604	2,671	2,685
7		2,687	1,957	2,641	2,734	2,540	2,639	2,553	2,386	2,389	2,386	2,270	2,271	2,224	2,295	2,606	2,605	2,622	2,687
8		2,621	1,957	2,641	2,725	2,539	2,639	2,522	2,387	2,388	2,381	2,266	2,264	2,221	2,292	2,606	2,605	2,600	2,687
9		2,633	1,957	2,630	2,575	2,532	2,629	2,531	2,388	2,389	2,374	2,257	2,257	2,218	2,286	2,601	2,597	2,637	2,625
10		2,684	1,976	2,625	2,686	2,600	2,543	2,377	2,388	2,391	2,379	2,257	2,255	1,213	2,285	2,597	2,597	2,672	2,607
11		2,683	2,093	2,701	2,620	2,626	2,629	1,176	2,386	2,391	2,373	2,255	2,255	-	2,291	2,596	2,622	2,677	2,603
12		2,683	1,958	2,715	2,618	2,623	2,626	1,449	2,385	2,389	2,374	1,025	2,254	-	2,335	2,597	2,670	2,671	2,596
13		2,683	2,073	2,715	2,620	2,624	2,627	2,632	2,385	2,391	2,182	849	2,256	-	2,815	2,599	2,672	2,670	2,601
14		2,683	2,164	2,718	2,619	2,627	2,627	2,763	2,385	2,390	2,354	868	2,255	-	2,749	2,600	2,671	2,668	2,598
15		2,682	2,700	2,720	2,618	2,630	2,492	2,760	2,385	2,389	2,359	2,245	2,016	-	2,746	2,598	2,672	2,668	2,598
16		2,684	2,738	2,724	2,623	2,638	2,235	2,571	2,387	2,391	2,367	2,260	1,627	430	2,749	2,600	2,673	2,672	2,603
17		2,684	2,737	2,730	2,626	2,639	2,565	2,388	2,388	2,389	2,372	2,262	2,229	1,612	2,745	2,602	2,673	2,682	2,609
18		2,683	2,737	2,732	2,628	2,640	2,703	2,388	2,388	2,389	2,377	2,264	2,090	2,281	2,746	2,600	2,673	2,683	2,062
19		2,683	2,736	2,734	2,630	2,639	2,705	2,390	2,387	2,389	2,044	2,267	2,213	2,284	2,749	2,600	2,674	2,685	2,072
20		2,683	2,735	2,735	2,634	2,640	2,710	2,391	2,387	2,389	1,624	2,271	2,216	2,283	2,752	2,602	2,673	2,686	2,132
21		2,682	2,735	2,734	2,635	2,638	2,616	2,389	2,387	2,388	1,996	2,272	2,221	2,287	2,719	2,602	2,673	2,685	2,351
22		2,683	2,735	2,735	2,636	2,640	2,618	2,390	2,388	2,388	2,128	2,273	2,222	2,288	2,668	2,604	2,673	2,686	2,662
23		2,681	2,735	2,733	2,636	2,638	2,618	2,389	2,387	2,388	2,262	2,273	2,224	2,289	2,603	2,603	2,673	2,686	2,726
24		2,660	2,728	2,733	2,555	2,638	2,618	2,389	2,387	2,386	2,267	2,273	2,223	2,289	2,604	2,604	2,672	2,686	2,725
TOTAL		64,272	57,625	64,641	63,653	62,383	62,669	58,153	57,285	57,332	54,921	50,317	52,980	39,257	60,167	62,445	63,398	64,067	61,661
Cumulative Output Sold, kWhr		64,272	121,897	186,538	250,191	312,574	375,243	433,396	490,681	548,013	602,934	653,251	706,231	745,488	805,655	868,100	931,498	995,565	1,057,226
Transformer and line efficiency		99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.8%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.8%
Hourly average		2,678	2,401	2,693	2,652	2,599	2,611	2,423	2,387	2,389	2,288	2,097	2,208	1,636	2,507	2,602	2,642	2,669	2,569

OCTOBER 2016																		
	Wednesday 10/19/2016	Thursday 10/20/2016	Friday 10/21/2016	Saturday 10/22/2016	Sunday 10/23/2016	Monday 10/24/2016	Tuesday 10/25/2016	Wednesday 10/26/2016	Thursday 10/27/2016	Friday 10/28/2016	Saturday 10/29/2016	Sunday 10/30/2016	Monday 10/31/2016	TOTAL	Biogas	LFG		
LFG and Biogas Flow to the Engine	1,416	1,410	1,442	1,115	1,300	1,403	1,255	1,524	1,555	1,543	1,527	1,525	1,432	42,220	3,025	39,196		
LFG and Biogas Flow to the Engine	805	800	823	651	732	787	698	828	840	854	837	841	791	23,879	2,204	21,675		
LFG and Biogas Flow to the Flare (l)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.2%	91%		
LFG and Biogas Flow to the Flare (l)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LFG and Biogas Total Flow (KSCF)	1,416	1,410	1,442	1,115	1,300	1,403	1,255	1,524	1,555	1,543	1,527	1,525	1,432	42,220				
LFG and Biogas Total Flow (MMBT	805	800	823	651	732	787	698	828	840	854	837	841	791	23,879				
Average Methane Content (%)	56.2	56.0	56.4	57.7	55.6	55.4	55.0	53.6	53.4	54.7	54.2	54.5	54.6	55.9				
Engine 1 Hours	24	24	24	16	24	24	18	22	24	24	24	24	24	24				
Engine 2 Hours	24	24	24	24	24	23	19	24	24	24	24	24	24	24				
Engine 3 Hours	24	24	24	6	12	23	19	24	24	24	24	24	24	24				
Engine 4 Hours	24	24	24	24	24	24	19	24	24	24	24	24	17	664				
Generator 1 Power Output (kWhr)	16,524	16,786	17,462	10,230	16,412	17,476	14,476	17,320	19,660	19,730	19,728	19,728	19,736	533,606				
Generator 2 Power Output (kWhr)	19,110	19,108	19,584	19,954	19,494	17,970	14,660	19,716	19,630	19,720	19,718	18,868	18,202	527,668				
Generator 3 Power Output (kWhr)	12,028	12,026	12,694	3,134	5,514	11,490	9,888	13,858	14,408	14,410	14,408	14,402	14,658	359,260				
Generator 4 Power Output (kWhr)	17,650	17,326	18,422	19,512	19,060	16,876	14,648	19,706	19,526	19,568	18,824	19,084	14,086	530,328				
Gross Power Output (kWhr)	65,336	65,266	68,170	52,808	60,544	63,829	53,706	70,589	73,217	73,422	72,679	72,078	66,678	1,951,623				
Net Power Output (kWhr)	63,345	63,474	66,253	51,379	58,890	62,186	52,292	68,781	71,305	71,508	70,776	70,149	64,831	1,895,302				
Power Sold as metered by NStar, (l	63,146	63,272	66,034	51,283	58,703	62,149	52,060	68,656	71,180	71,360	70,614	69,970	64,728	1,890,381	CRMCB inplant			
Offgrid RECs (kWhr)	1,991	1,792	1,918	1,429	1,654	1,643	1,414	1,808	1,912	1,914	1,903	1,929	1,847	56,324	6,925			
Calculated Performance Results															12%			
Daily															of total in-plant			
Power output (kW average whe															power			
Generator 1	689	699	728	639	684	728	804	787	819	822	822	822	822					
Generator 2	796	796	816	831	812	781	772	822	818	822	822	786	758					
Generator 3	501	501	529	522	460	500	520	577	600	600	600	600	611					
Generator 4	735	722	768	813	794	703	771	821	814	815	784	795	829					
Power output (kW average over																		
Facility Gross	2,722	2,719	2,840	2,200	2,523	2,660	2,238	2,941	3,051	3,059	3,028	3,003	2,778					
Facility Net	2,639	2,645	2,761	2,141	2,454	2,591	2,179	2,866	2,971	2,980	2,949	2,923	2,701					
In-plant load	83	75	80	60	69	68	59	75	80	80	79	80	77					
Daily availability factor																		
Facility	100%	100%	100%	73%	88%	98%	78%	98%	100%	100%	100%	100%	93%					
Engine 1	100%	100%	100%	67%	100%	100%	75%	92%	100%	100%	100%	100%	100%					
Engine 2	100%	100%	100%	100%	100%	96%	79%	100%	100%	100%	100%	100%	100%					
Engine 3	100%	100%	100%	25%	50%	96%	79%	100%	100%	100%	100%	100%	100%					
Engine 4	100%	100%	100%	100%	100%	100%	79%	100%	100%	100%	100%	100%	71%					
Daily capacity factor																		
Facility	82%	82%	86%	67%	76%	81%	68%	89%	92%	93%	92%	91%	84%					
Engine 1	83%	85%	88%	78%	83%	88%	97%	95%	99%	100%	100%	100%	100%					
Engine 2	97%	97%	99%	101%	98%	95%	94%	100%	99%	100%	100%	95%	92%					
Engine 3	61%	61%	64%	63%	56%	61%	63%	70%	73%	73%	73%	73%	74%					
Engine 4	89%	88%	93%	99%	96%	85%	93%	100%	99%	99%	95%	96%	100%					
Cumulative by engine																		
Engine operating run hours in t																		
Max Cumulative Available,	456	480	504	528	552	576	600	624	648	672	696	720	720					
Engine 1	416	440	464	480	504	528	546	568	592	616	640	664	664					
Engine 2	376	400	424	448	472	495	514	538	562	586	610	634	634					
Engine 3	352	376	400	406	418	441	460	484	508	532	556	580	580					
Engine 4	388	412	436	460	484	508	527	551	575	599	623	647	640					
Engine operating run hours tota																		
Engine 1	86,544	86,568	86,592	86,608	86,632	86,656	86,674	86,696	86,720	86,744	86,768	86,792	86,792					
Engine 2	83,031	83,055	83,079	83,103	83,127	83,150	83,169	83,193	83,217	83,241	83,265	83,289	83,289					
Engine 3	85,797	85,821	85,845	85,851	85,863	85,886	85,905	85,929	85,953	85,977	86,001	86,025	86,025					
Engine 4	82,642	82,666	82,690	82,714	82,738	82,762	82,781	82,805	82,829	82,853	82,877	82,901	82,894					
Cumulative availability, %																		
Engine 1	91%	92%	92%	91%	91%	92%	91%	91%	91%	92%	92%	92%	92%					
Engine 2	82%	83%	84%	85%	86%	86%	86%	86%	87%	87%	88%	88%	88%					
Engine 3	77%	78%	79%	77%	76%	77%	77%	78%	78%	79%	80%	81%	81%					
Engine 4	85%	86%	87%	87%	88%	88%	88%	88%	89%	89%	90%	90%	89%					
Engine cumulative gross output																		
Max cumulative capacity on	15,675	16,500	17,325	18,150	18,975	19,800	20,625	21,450	22,275	23,100	23,925	24,750	24,750					
Engine 1	13,286	13,985	14,713	15,352	16,036	16,764	17,568	18,356	19,175	19,997	20,819	21,641	21,641					
Engine 2	12,893	13,689	14,505	15,336	16,148	16,930	17,701	18,523	19,341	20,162	20,984	21,770	21,742					
Engine 3	9,209	9,710	10,239	10,761	11,220	11,720	12,240	12,818	13,418	14,019	14,619	15,219	15,230					
Engine 4	12,939	13,661	14,428	15,241	16,036	16,739	17,510	18,331	19,144	19,960	20,744	21,539	21,573					
Cumulative capacity factor, %																		
Engine 1	85%	85%	85%	85%	85%	85%	85%	86%	86%	87%	87%	87%	87%					
Engine 2	82%	83%	84%	84%	85%	86%	86%	86%	87%	87%	88%	88%	88%					
Engine 3	59%	59%	59%	59%	59%	59%	59%	60%	60%	61%	61%	61%	62%					
Engine 4	83%	83%	83%	84%	85%	85%	85%	85%	86%	86%	87%	87%	87%					
Cumulative by Facility in month																		
Max cumulative available engi	1,824	1,920	2,016	2,112	2,208	2,304	2,400	2,496	2,592	2,688	2,784	2,880	2,880					
Actual cumulative engine run h	1,532	1,628	1,724	1,878	1,972	2,047	2,047	2,141	2,237	2,333	2,429	2,525	2,518					
Cumulative Availability, %	84.0%	84.8%	85.5%	84.9%	85.1%	85.6%	85.3%	85.8%	86.3%	86.8%	87.2%	87.7%	87.4%					
Max cumulative gross output, k	1,504,800	1,584,000	1,663,200	1,742,400	1,821,600	1,900,800	1,980,000	2,059,200	2,138,400	2,217,600	2,296,800	2,376,000	2,376,000					
Actual cumulative gross output,	1,158,637	1,223,903	1,292,073	1,344,881	1,405,425	1,469,254	1,522,960	1,593,549	1,666,766	1,740,188	1,812,867	1,884,945	1,879,545					
Cumulative Capacity Factor	77.0%	77.3%	77.7%	77.2%	77.2%	77.3%	76.9%	77.4%	77.9%	78.5%	78.9%	79.3%	79.1%					
Cumulative fuel input, MMBtu f-	14,399	15,198	16,022	16,673	17,404	18,191	18,889	19,717	20,557	21,410	22,247	23,088	23,038					
Cumulative gross output, kWhr	1,158,637	1,223,903	1,292,073	1,344,881	1,405,425	1,469,254	1,522,960	1,593,549	1,666,766	1,740,188	1,812,867	1,884,945	1,879,545					
Heat Rate																		
Daily heat rate, Btu/kWe gross	11,094	11																

		Wednesday 10/19/2016	Thursday 10/20/2016	Friday 10/21/2016	Saturday 10/22/2016	Sunday 10/23/2016	Monday 10/24/2016	Tuesday 10/25/2016	Wednesday 10/26/2016	Thursday 10/27/2016	Friday 10/28/2016	Saturday 10/29/2016	Sunday 10/30/2016	Monday 10/31/2016	TOTAL	Biogas	LFG
Daily heat rate, Btu/kWe gross		12,324	12,256	12,074	12,333	12,082	12,327	12,995	11,724	11,471	11,626	11,521	11,667	11,861			
Cumulative heat rate, Btu/kWe		11,187	11,179	11,162	11,160	11,148	11,146	11,165	11,138	11,102	11,075	11,047	11,026	11,034			
Cumulative heat rate, Btu/kWe		12,427	12,418	12,400	12,397	12,384	12,381	12,403	12,373	12,333	12,303	12,272	12,249	12,257			
Cumulative by Facility starting C.																	
Max cumulative available engine		24,764	24,860	24,956	25,052	25,148	25,244	25,340	25,436	25,532	25,628	25,724	25,820	25,820			
Actual cumulative engine run h		22,602	22,698	22,794	22,864	22,948	23,042	23,117	23,211	23,307	23,403	23,499	23,595	23,588			
Cumulative Availability, %		91.3%	91.3%	91.3%	91.3%	91.3%	91.3%	91.2%	91.3%	91.3%	91.3%	91.4%	91.4%	91.4%			
Max cumulative gross output, kW		20,430,300	20,509,500	20,588,700	20,667,900	20,747,100	20,826,300	20,905,500	20,984,700	21,063,900	21,143,100	21,222,300	21,301,500	21,301,500			
Actual cumulative gross output, kW		16,171,679	16,236,945	16,305,115	16,357,923	16,418,467	16,482,296	16,536,002	16,606,591	16,679,808	16,753,230	16,825,909	16,897,987	16,892,587			
Cumulative Capacity Factor		79.2%	79.2%	79.2%	79.1%	79.1%	79.1%	79.1%	79.1%	79.2%	79.3%	79.3%	79.3%	79.3%			
Cumulative fuel input, MMBtu/h		206,716	207,516	208,339	208,990	209,722	210,508	211,206	212,034	212,874	213,727	214,565	215,406	215,356			
Cumulative gross output, kWh		16,171,679	16,236,945	16,305,115	16,357,923	16,418,467	16,482,296	16,536,002	16,606,591	16,679,808	16,753,230	16,825,909	16,897,987	16,892,587			
Cumulative heat rate, Btu/kWe		11,507	11,505	11,502	11,501	11,499	11,497	11,498	11,494	11,489	11,484	11,479	11,475	11,476			
Cumulative heat rate, Btu/kWe		12,783	12,780	12,778	12,776	12,774	12,772	12,773	12,768	12,762	12,757	12,752	12,747	12,749			
Service																	
Engine 1					Turbo failure. Repaired and return to service.												
Engine 2									Eversource Scheduled								
Engine 3					Head gasket leak	Repaired and returned to service.				Maintenance Midnight - 8 AM							
Engine 4																	
Oil - oil and filter change									District Header work					Aftercooler failure			
Service - plugs, air filter, valve insp									Connected 3 wells. 2 more to go								
Precipitation																	
NSTAR Power Reports		Wednesday 10/19/2016	Thursday 10/20/2016	Friday 10/21/2016	Saturday 10/22/2016	Sunday 10/23/2016	Monday 10/24/2016	Tuesday 10/25/2016	Wednesday 10/26/2016	Thursday 10/27/2016	Friday 10/28/2016	Saturday 10/29/2016	Sunday 10/30/2016	Monday 10/31/2016	TOTAL		
Hour																	
1		2,726	2,641	2,639	2,841	2,190	2,715	-	2,939	2,980	2,981	2,932	2,925	2,888			
2		2,689	2,641	2,638	2,841	2,189	2,715	-	2,902	2,981	2,982	2,931	2,924	2,829			
3		2,654	2,639	2,637	2,839	2,188	2,715	-	2,137	2,981	2,981	2,931	2,925	2,834			
4		2,657	2,641	2,638	2,840	2,189	2,715	-	2,138	2,983	2,981	2,932	2,894	2,836			
5		2,657	2,640	2,637	2,840	2,188	2,716	-	2,408	2,968	2,980	2,931	2,831	2,970			
6		2,656	2,640	2,635	2,698	2,189	2,715	400	2,857	2,934	2,978	2,932	2,831	2,961			
7		2,658	2,641	2,638	2,313	2,189	2,717	2,043	2,914	2,936	2,978	2,933	2,832	2,843			
8		2,658	2,641	2,634	1,928	2,189	2,716	2,794	2,913	2,906	2,979	2,934	2,833	2,834			
9		2,653	2,633	2,629	1,642	2,188	2,712	2,825	2,906	2,923	2,975	2,931	2,830	2,828			
10		2,256	2,631	2,695	1,600	2,185	2,706	2,916	2,906	2,890	2,974	2,933	2,828	2,828			
11		2,639	2,629	2,763	1,599	2,182	2,715	2,924	2,917	2,971	2,974	2,933	2,829	2,831			
12		2,678	2,627	2,821	1,598	2,199	2,753	2,923	2,959	2,973	2,974	2,930	2,827	2,831			
13		2,644	2,629	2,823	1,596	2,237	2,546	2,924	2,976	2,974	2,974	2,932	2,940	2,832			
14		2,611	2,628	2,821	1,596	2,670	779	2,924	2,976	2,975	2,974	2,978	2,971	2,854			
15		2,608	2,627	2,826	1,597	2,755	2,039	2,927	2,978	2,976	2,974	2,976	2,969	2,878			
16		2,611	2,632	2,838	1,596	2,757	2,761	2,938	2,978	2,979	2,978	2,977	2,973	2,882			
17		2,629	2,637	2,840	1,955	2,763	2,769	2,941	2,984	2,982	2,985	2,977	2,973	2,884			
18		2,632	2,638	2,840	2,206	2,761	2,770	2,941	2,982	2,983	2,983	2,975	2,975	2,799			
19		2,637	2,640	2,840	2,212	2,762	2,771	2,942	2,984	2,983	2,982	2,976	2,980	2,171			
20		2,637	2,640	2,840	2,189	2,761	2,771	2,939	2,982	2,982	2,981	2,935	2,980	2,178			
21		2,637	2,639	2,840	2,190	2,761	2,770	2,940	2,981	2,979	2,980	2,927	2,980	2,173			
22		2,640	2,641	2,840	2,189	2,761	2,772	2,940	2,980	2,981	2,949	2,927	2,982	2,225			
23		2,640	2,639	2,841	2,190	2,735	2,772	2,941	2,980	2,981	2,933	2,926	2,982	2,270			
24		2,639	2,638	2,841	2,188	2,715	2,019	2,938	2,979	2,979	2,930	2,925	2,956	2,269			
TOTAL		63,146	63,272	66,034	51,283	58,703	62,149	52,060	68,656	71,180	71,360	70,614	69,970	64,728			
Cumulative Output Sold, kW		1,120,372	1,183,644	1,249,678	1,300,961	1,359,664	1,421,813	1,473,873	1,542,529	1,613,709	1,685,069	1,755,683	1,825,653	1,890,381			
Transformer and line efficiency		99.7%	99.7%	99.7%	99.8%	99.7%	99.9%	99.6%	99.8%	99.8%	99.8%	99.8%	99.7%	99.8%	0.0%		
Hourly average		2,631	2,636	2,751	2,137	2,446	2,590	2,169	2,861	2,966	2,973	2,942	2,915	2,697	2,541		

SEPTEMBER 2016																		
		Thursday 9/1/2016	Friday 9/2/2016	Saturday 9/3/2016	Sunday 9/4/2016	Monday 9/5/2016	Tuesday 9/6/2016	Wednesday 9/7/2016	Thursday 9/8/2016	Friday 9/9/2016	Saturday 9/10/2016	Sunday 9/11/2016	Monday 9/12/2016	Tuesday 9/13/2016	Wednesday 9/14/2016	Thursday 9/15/2016	Friday 9/16/2016	Saturday 9/17/2016
LFG and Biogas Flow to the Engines (KSCF)		1,560	1,519	1,317	1,342	1,451	1,405	1,342	1,434	1,533	1,526	1,350	1,364	1,445	1,541	1,562	1,449	1,194
LFG and Biogas Flow to the Engines (MMBTU HHV)		850	815	728	732	791	775	758	800	839	833	749	759	806	852	854	798	685
LFG and Biogas Flow to the Flare (KSCF)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LFG and BiogasFlow to the Flare (MMBTU HHV)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LFG and Biogas Total Flow (KSCF)		1,560	1,519	1,317	1,342	1,451	1,405	1,342	1,434	1,533	1,526	1,350	1,364	1,445	1,541	1,562	1,449	1,194
LFG and Biogas Total Flow (MMBTU HHV)		850	815	728	732	791	775	758	800	839	833	749	759	806	852	854	798	685
Average Methane Content (%)		53.9	53.0	54.6	53.9	53.9	54.5	55.8	55.1	54.1	54.0	54.8	55.0	55.1	54.6	54.0	54.4	56.7
Engine 1 Hours		24	24	24	24	24	24	24	24	24	24	23	24	24	24	23	25	24
Engine 2 Hours		24	24	24	24	24	24	24	24	24	24	24	24	23	24	24	24	24
Engine 3 Hours		24	20	6	24	24	24	23	24	22	22	6	1	11	24	23	24	-
Engine 4 Hours		24	24	12	-	-	-	-	12	24	24	23	24	24	24	24	24	24
Generator 1 Power Output (kWhr)		17,508	16,384	19,980	19,976	19,982	19,980	19,982	18,460	16,554	19,198	18,175	18,702	18,278	16,454	19,558	19,510	19,734
Generator 2 Power Output (kWhr)		16,004	16,546	19,948	19,958	19,958	19,958	19,960	18,472	16,568	19,168	18,175	19,946	18,334	15,630	19,250	19,036	19,704
Generator 3 Power Output (kWhr)		12,054	10,132	4,056	19,512	19,726	19,728	17,742	17,662	15,112	9,484	4,000	-	5,674	14,092	7,642	8,166	166
Generator 4 Power Output (kWhr)		17,558	16,576	10,178	-	-	-	-	5,822	13,850	15,284	18,175	19,690	18,116	16,722	18,840	18,318	19,692
Gross Power Output (kWhr)		63,161	59,691	54,165	59,486	59,708	59,716	57,736	60,448	62,107	63,163	58,526	58,394	60,467	62,920	65,331	65,056	59,323
Net Power Output (kWhr)		60,958	57,603	52,470	57,294	57,920	57,829	55,755	58,344	59,874	61,097	56,814	56,620	58,419	60,697	63,231	63,063	57,532
Power Sold as metered by NStar, (kWhr)		60,792	57,436	52,334	57,129	57,764	57,666	55,589	58,167	59,682	58,689	56,644	56,471	58,223	60,529	63,010	62,869	57,370
Offgrid RECs (kWhr)		2,203	2,086	1,696	2,192	1,787	1,887	1,982	2,105	2,232	2,066	1,712	1,774	2,049	2,222	2,101	1,993	1,791
Calculated Performance Results																		
Daily																		
Power output (kW average when running)																		
Generator 1		730	683	833	832	833	833	833	769	690	800	790	779	762	686	850	780	822
Generator 2		667	689	831	832	832	832	832	770	690	799	757	831	797	651	802	793	821
Generator 3		502	507	676	813	822	822	771	736	687	431	667	-	516	587	332	340	-
Generator 4		732	691	848	-	-	-	-	485	577	637	790	820	755	697	785	763	821
Power output (kW average over 24-hrs)																		
Facility Gross		2,632	2,487	2,257	2,479	2,488	2,488	2,406	2,519	2,588	2,632	2,439	2,433	2,519	2,622	2,722	2,711	2,472
Facility Net		2,540	2,400	2,186	2,387	2,413	2,410	2,323	2,431	2,495	2,546	2,367	2,359	2,434	2,529	2,635	2,628	2,397
In-plant load		92	87	71	91	75	79	83	88	93	86	71	74	85	93	88	83	75
Daily availability factor																		
Facility		100%	96%	69%	75%	75%	75%	74%	88%	98%	98%	79%	76%	85%	100%	98%	101%	75%
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	96%	104%	100%
Engine 2		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	100%
Engine 3		100%	83%	25%	100%	100%	100%	96%	100%	92%	92%	25%	4%	46%	100%	96%	100%	0%
Engine 4		100%	100%	50%	0%	0%	0%	0%	50%	100%	100%	96%	100%	100%	100%	100%	100%	100%
Daily capacity factor																		
Facility		80%	75%	68%	75%	75%	75%	73%	76%	78%	80%	74%	74%	76%	79%	82%	82%	75%
Engine 1		88%	83%	101%	101%	101%	101%	101%	93%	84%	97%	96%	94%	92%	83%	103%	95%	100%
Engine 2		81%	84%	101%	101%	101%	101%	101%	93%	84%	97%	92%	101%	97%	79%	97%	96%	100%
Engine 3		61%	61%	82%	99%	100%	100%	94%	89%	83%	52%	81%	0%	63%	71%	40%	41%	0%
Engine 4		89%	84%	103%	0%	0%	0%	0%	59%	70%	77%	96%	99%	91%	84%	95%	93%	99%
Cumulative by engine																		
Engine operating run hours in the month																		
Max Cumulative Available, hours		24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408
Engine 1		24	48	72	96	120	144	168	192	216	240	263	287	311	335	358	383	407
Engine 2		24	48	72	96	120	144	168	192	216	240	264	288	311	335	359	383	407
Engine 3		24	44	50	74	98	122	145	169	191	213	219	220	231	255	278	302	302
Engine 4		24	48	60	60	60	60	60	72	96	120	143	167	191	215	239	263	287
Engine operating run hours total from 0 hours																		
Engine 1		85,409	85,433	85,457	85,481	85,505	85,529	85,553	85,577	85,601	85,625	85,649	85,672	85,696	85,720	85,744	85,767	85,792
Engine 2		81,936	81,960	81,984	82,008	82,032	82,056	82,080	82,104	82,128	82,152	82,176	82,200	82,224	82,247	82,271	82,295	82,343
Engine 3		84,874	84,898	84,918	84,924	84,948	84,972	84,996	85,019	85,043	85,065	85,087	85,093	85,094	85,105	85,129	85,152	85,176
Engine 4		81,656	81,680	81,704	81,716	81,716	81,716	81,716	81,716	81,728	81,752	81,776	81,799	81,823	81,847	81,871	81,895	81,943
Cumulative availability, % September 1, 2016 @ 00:00 hours																		
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	100%
Engine 2		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Engine 3		100%	92%	69%	77%	82%	85%	86%	88%	88%	89%	83%	76%	74%	76%	77%	79%	74%
Engine 4		100%	100%	83%	63%	50%	42%	36%	38%	44%	50%	54%	58%	61%	64%	66%	68%	70%
Engine cumulative gross output, kWhr																		
Max cumulative capacity one engine		825	1,650	2,475	3,300	4,125	4,950	5,775	6,600	7,425	8,250	9,075	9,900	10,725	11,550	12,375	13,200	14,025
Engine 1		730	1,412	2,245	3,077	3,910	4,742	5,575	6,344	7,034	7,834	8,624	9,403	10,165	10,850	11,700	12,481	13,303
Engine 2		667	1,356	2,187	3,019	3,851	4,682	5,514	6,284	6,974	7,733	8,530	9,361	10,158	10,809	11,611	12,405	13,226
Engine 3		502	1,009	1,685	2,498	3,320	4,142	4,913	5,649	6,336	6,767	7,434	7,434	7,950	8,537	8,869	9,209	9,209
Engine 4		732	1,422	2,270	2,270	2,270	2,270	2,270	2,756	3,333	3,970	4,760	5,580	6,335	7,032	7,817	8,580	9,400
Cumulative capacity factor, %																		
Engine 1		88%	86%	91%	93%	95%	96%	97%	96%	95%	95%	95%	95%	95%	94%	95%	95%	95%
Engine 2		81%	82%	88%	91%	93%	95%	95%	95%	94%	94%	94%	95%	95%	94%	94%	94%	94%
Engine 3		61%	61%	68%	76%	80%	84%	85%	86%	85%	82%	82%	75%	74%	74%	72%	70%	66%
Engine 4		89%	86%	92%	69%	55%	46%	39%	42%	45%	48%	52%	56%	59%	61%	63%	65%	67%
Cumulative by Facility in month																		
Max cumulative available engine run hours		96	192	288	384	480	576	672	768	864	960	1,056	1,152	1,248	1,344	1,440	1,536	1,632
Actual cumulative engine run hours		96	188	254	326	398	470	541	625	719	813	889	962	1,044	1,140	1,234	1,331	1,403
Cumulative Availability, %		100.0%	97.9%	88.2%	84.9%	82.9%	81.6%	80.5%	81.4%	83.2%	84.7%	84.2%	83.5%	83.7%	84.8%	85.7%	86.7%	86.0%
Max cumulative gross output, kWhr		79,200	158,400	237,600	316,800	396,000	475,200	554,400	633,600	712,800	792,000	871,200	950,400	1,029,600	1,108,800	1,188,000	1,267,200	1,346,400
Actual cumulative gross output, kWhr		63,161	122,852	177,017	236,503	296,211	355,927	413,663	474,111	536,218	599,381	657,907	716,301	776,768	839,688	905,019	970,075	1,029,398
Cumulative Capacity Factor		79.7%	77.6%	74.5%	74.7%	74.8%	74.9%	74.6%	74.8%	75.2%	75.7%	75.5%	75.4%	75.7%	76.2%	76.7%	76.6%	76.5%
Cumulative fuel input, MMBtu HHV		850	1,665	2,393	3,125	3,916	4,691	5,449	6,248	7,087	7,920	8,669	9,428	10,234	11,086	11,940	12,737	13,422

		Thursday 9/1/2016	Friday 9/2/2016	Saturday 9/3/2016	Sunday 9/4/2016	Monday 9/5/2016	Tuesday 9/6/2016	Wednesday 9/7/2016	Thursday 9/8/2016	Friday 9/9/2016	Saturday 9/10/2016	Sunday 9/11/2016	Monday 9/12/2016	Tuesday 9/13/2016	Wednesday 9/14/2016	Thursday 9/15/2016	Friday 9/16/2016	Saturday 9/17/2016
Cumulative gross output, kWhr		63,161	122,852	177,017	236,503	296,211	355,927	413,663	474,111	536,218	599,381	657,907	716,301	776,768	839,688	905,019	970,075	1,029,398
Heat Rate																		
Daily heat rate, Btu/kWe gross LHV		12,119	12,291	12,092	11,082	11,921	11,678	11,817	11,906	12,159	11,878	11,514	11,699	12,001	12,187	11,769	11,035	10,396
Daily heat rate, Btu/kWe gross HHV		13,462	13,654	13,433	12,310	13,243	12,973	13,127	13,226	13,507	13,194	12,791	12,996	13,331	13,538	13,073	12,259	11,549
Cumulative heat rate, Btu/kWe gross LHV		12,119	12,202	12,169	11,895	11,901	11,863	11,857	11,863	11,897	11,895	11,861	11,848	11,860	11,885	11,876	11,820	11,738
Cumulative heat rate, Btu/kWe gross HHV		13,462	13,555	13,518	13,214	13,220	13,179	13,171	13,178	13,216	13,214	13,176	13,162	13,175	13,202	13,193	13,130	13,039
Cumulative by Facility starting Calendar Year																		
Max cumulative available engine run hours		20,156	20,252	20,348	20,444	20,540	20,636	20,732	20,828	20,924	21,020	21,116	21,212	21,308	21,404	21,500	21,596	21,692
Actual cumulative engine run hours		18,558	18,650	18,716	18,788	18,860	18,932	19,003	19,087	19,181	19,275	19,351	19,424	19,506	19,602	19,696	19,793	19,865
Cumulative Availability, %		92.1%	92.1%	92.0%	91.9%	91.8%	91.7%	91.7%	91.6%	91.7%	91.7%	91.6%	91.6%	91.5%	91.6%	91.6%	91.7%	91.6%
Max cumulative gross output, kWhr		16,628,700	16,707,900	16,787,100	16,866,300	16,945,500	17,024,700	17,103,900	17,183,100	17,262,300	17,341,500	17,420,700	17,499,900	17,579,100	17,658,300	17,737,500	17,816,700	17,895,900
Actual cumulative gross output, kWhr		13,197,677	13,257,368	13,311,533	13,371,019	13,430,727	13,490,443	13,548,179	13,608,627	13,670,734	13,733,897	13,792,423	13,850,817	13,911,284	13,974,204	14,039,535	14,104,591	14,163,914
Cumulative Capacity Factor		79.4%	79.3%	79.3%	79.3%	79.3%	79.2%	79.2%	79.2%	79.2%	79.2%	79.2%	79.1%	79.1%	79.1%	79.2%	79.2%	79.1%
Cumulative fuel input, MMBtu HHV		169,498	170,313	171,041	171,773	172,564	173,338	174,096	174,896	175,735	176,568	177,317	178,075	178,882	179,733	180,587	181,385	182,070
Cumulative gross output, kWhr		13,197,677	13,257,368	13,311,533	13,371,019	13,430,727	13,490,443	13,548,179	13,608,627	13,670,734	13,733,897	13,792,423	13,850,817	13,911,284	13,974,204	14,039,535	14,104,591	14,163,914
Cumulative heat rate, Btu/kWe gross LHV		11,561	11,565	11,567	11,565	11,566	11,567	11,568	11,569	11,572	11,573	11,573	11,574	11,575	11,578	11,579	11,577	11,572
Cumulative heat rate, Btu/kWe gross HHV		12,843	12,847	12,849	12,847	12,848	12,849	12,850	12,852	12,855	12,856	12,856	12,857	12,859	12,862	12,863	12,860	12,854
Service																		
Engine 1																		
Engine 2																		
Engine 3																		
Engine 4																		
Oil - oil and filter change											EverSource Trip							
Service - plugs, air filter, valve inspection and adjustment																		
Precipitation																		
NSTAR Power Reports		Thursday 9/1/2016	Friday 9/2/2016	Saturday 9/3/2016	Sunday 9/4/2016	Monday 9/5/2016	Tuesday 9/6/2016	Wednesday 9/7/2016	Thursday 9/8/2016	Friday 9/9/2016	Saturday 9/10/2016	Sunday 9/11/2016	Monday 9/12/2016	Tuesday 9/13/2016	Wednesday 9/14/2016	Thursday 9/15/2016	Friday 9/16/2016	Saturday 9/17/2016
Hour																		
1		2,505	2,553	2,403	2,155	2,407	2,407	2,410	2,387	2,405	2,700	1,066	2,403	2,397	2,602	2,093	2,683	2,559
2		2,505	2,553	2,414	2,383	2,407	2,406	2,410	2,387	2,404	2,699	2,296	2,404	2,397	2,601	2,601	2,683	2,389
3		2,505	2,552	2,417	2,384	2,407	2,405	2,409	2,388	2,403	2,698	2,537	2,404	2,396	2,543	2,602	2,683	2,386
4		2,506	2,553	2,417	2,386	2,407	2,405	2,408	2,388	2,404	2,698	2,603	2,405	2,397	2,456	2,645	2,684	2,385
5		2,506	2,551	2,417	2,388	2,406	2,405	2,407	2,388	2,404	2,698	2,606	2,405	2,397	2,450	2,677	2,683	2,385
6		2,507	2,552	2,417	2,389	2,406	2,405	2,400	2,388	2,404	2,698	2,606	2,406	2,397	2,526	2,678	2,683	2,385
7		2,508	2,553	2,418	2,390	2,407	2,406	2,404	2,390	2,405	2,146	2,387	2,407	2,398	2,494	2,678	2,685	2,385
8		2,498	2,412	2,417	2,389	2,405	2,398	1,842	2,389	2,402	2,324	2,317	2,403	2,393	2,454	2,674	2,682	2,384
9		2,444	2,350	2,415	2,386	2,405	2,396	2,262	2,386	2,394	2,480	2,317	2,391	2,378	2,469	2,612	2,609	2,386
10		2,500	2,350	2,411	2,384	2,406	2,398	2,269	1,972	2,393	2,477	2,343	2,391	1,194	2,514	2,612	2,554	2,384
11		2,500	2,349	2,409	2,383	2,404	2,401	2,327	2,219	2,584	2,165	2,392	2,386	2,366	2,360	2,639	2,532	2,383
12		2,495	2,350	2,409	2,383	2,405	2,396	2,360	2,369	2,649	2,516	2,396	2,208	2,363	2,274	2,601	2,574	2,383
13		2,497	2,349	1,841	2,382	2,405	2,397	2,361	2,369	2,726	2,546	2,399	1,669	2,370	2,541	2,583	2,652	2,383
14		2,617	2,398	1,654	2,382	2,404	2,389	2,360	2,630	2,656	2,545	2,396	2,267	2,564	2,580	2,606	2,564	2,380
15		2,641	2,449	1,598	2,383	2,405	2,391	2,363	2,635	2,653	2,546	2,394	2,389	2,560	2,577	2,631	2,596	2,380
16		2,610	2,409	1,600	2,384	2,407	2,394	2,368	2,550	2,656	2,546	2,394	2,387	2,538	2,582	2,665	2,482	2,382
17		2,577	2,406	1,601	2,383	2,408	2,407	2,367	2,546	2,661	2,549	2,395	2,388	2,524	2,589	2,656	2,627	2,381
18		2,552	2,364	1,987	2,385	2,409	2,408	2,368	2,521	2,666	2,551	2,396	2,391	2,594	2,594	2,675	2,530	2,382
19		2,554	2,366	2,408	2,397	2,411	2,409	2,373	2,524	2,297	2,553	2,398	2,394	2,597	2,597	2,678	2,558	2,383
20		2,552	2,366	2,408	2,406	2,410	2,408	2,373	2,513	1,978	2,553	2,399	2,394	2,601	2,597	2,679	2,412	2,381
21		2,553	2,077	2,408	2,406	2,409	2,409	2,389	2,550	2,128	2,553	2,400	2,394	2,600	2,596	2,680	2,675	2,381
22		2,554	2,028	2,409	2,407	2,408	2,409	2,387	2,471	2,609	2,554	2,402	2,395	2,601	2,597	2,682	2,680	2,380
23		2,553	2,185	1,750	2,407	2,408	2,408	2,386	2,403	2,701	2,552	2,402	2,395	2,600	2,599	2,681	2,680	2,381
24		2,553	2,361	1,706	2,407	2,408	2,409	2,386	2,404	2,700	342	2,403	2,395	2,601	2,337	2,682	2,678	2,382
TOTAL		60,792	57,436	52,334	57,129	57,764	57,666	55,589	58,167	59,682	58,689	56,644	56,471	58,223	60,529	63,010	62,869	57,370
Cumulative Output Sold, kWhr		60,792	118,228	170,562	227,691	285,455	343,121	398,710	456,877	516,559	575,248	631,892	688,363	746,586	807,115	870,125	932,994	990,364
Transformer and line efficiency		99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%
Hourly average		2,533	2,393	2,181	2,380	2,407	2,403	2,316	2,424	2,487	2,445	2,360	2,353	2,426	2,522	2,625	2,620	2,390

SEPTEMBER 2016																
	Sunday 9/18/2016	Monday 9/19/2016	Tuesday 9/20/2016	Wednesday 9/21/2016	Thursday 9/22/2016	Friday 9/23/2016	Saturday 9/24/2016	Sunday 9/25/2016	Monday 9/26/2016	Tuesday 9/27/2016	Wednesday 9/28/2016	Thursday 9/29/2016	Friday 9/30/2016	TOTAL	Biogas	LFG
LFG and Biogas Flow to the Engine	1,196	1,333	1,417	1,411	1,434	1,433	1,382	1,310	1,417	1,464	1,487	1,486	1,459	42,562	3,305	39,257
LFG and Biogas Flow to the Engine	688	761	797	793	806	809	781	745	798	824	825	818	803	23,670	2,408	21,262
LFG and Biogas Flow to the Flare (P)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.2%	90%
LFG and Biogas Flow to the Flare (M)	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LFG and Biogas Total Flow (KSCF)	1,196	1,333	1,417	1,411	1,434	1,433	1,382	1,310	1,417	1,464	1,487	1,486	1,459	42,562		
LFG and Biogas Total Flow (MMBTU)	688	761	797	793	806	809	781	745	798	824	825	818	803	23,670		
Average Methane Content (%)	56.8	56.4	55.6	55.5	55.6	55.7	55.8	56.2	55.6	55.6	54.9	54.4	54.4	55.0		
Engine 1 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	719		
Engine 2 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	719		
Engine 3 Hours	-	15	23	24	24	24	24	16	24	24	24	23	24	571		
Engine 4 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	599		
Generator 1 Power Output (kW/hr)	19,734	19,430	19,102	18,682	18,244	18,648	19,148	19,466	18,766	18,210	18,058	18,090	17,272	561,265		
Generator 2 Power Output (kW/hr)	19,700	19,390	18,816	18,040	17,360	18,064	17,362	19,428	19,706	19,706	19,390	17,494	17,072	558,143		
Generator 3 Power Output (kW/hr)	-	7,086	11,730	12,028	12,026	11,882	12,032	4,930	7,128	8,094	9,050	10,238	12,622	303,794		
Generator 4 Power Output (kW/hr)	19,690	19,374	18,142	18,948	18,838	17,836	17,328	19,404	19,686	19,682	19,682	19,016	17,924	454,371		
Gross Power Output (kW/hr)	59,168	65,303	67,815	67,724	66,502	66,469	65,925	63,266	65,327	65,721	66,185	64,832	64,891	1,878,526		
Net Power Output (kW/hr)	57,312	63,216	65,631	65,604	64,394	64,388	63,972	61,339	63,238	63,669	64,173	62,900	62,897	1,818,253		
Power Sold as metered by NStar, (k	57,118	62,989	65,434	65,383	64,198	64,183	63,768	61,161	63,048	63,453	63,966	62,710	62,684	1,810,459	CRMCB inplant	
Offgrid RECs (kW/hr)	1,855	2,088	2,184	2,120	2,108	2,081	1,954	1,927	2,089	2,052	2,012	1,932	1,994	60,274	6,414	
Calculated Performance Results																
Daily																
Power output (kW average wher																11%
Generator 1	822	810	796	778	760	777	798	811	782	759	752	754	720			of total in-plant power
Generator 2	821	808	784	752	723	753	723	810	821	821	808	729	711			
Generator 3	-	472	510	501	501	495	501	308	297	337	377	445	526			
Generator 4	820	807	756	790	785	743	722	809	820	820	820	792	747			
Power output (kW average over																
Facility Gross	2,465	2,721	2,826	2,822	2,771	2,770	2,747	2,636	2,722	2,738	2,758	2,701	2,704			
Facility Net	2,388	2,634	2,735	2,734	2,683	2,683	2,666	2,556	2,635	2,653	2,674	2,621	2,621			
In-plant load	77	87	91	88	88	87	81	80	87	86	84	81	83			
Daily availability factor																
Facility	75%	91%	99%	100%	100%	100%	100%	92%	100%	100%	100%	99%	100%			
Engine 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 3	0%	63%	96%	100%	100%	100%	100%	67%	100%	100%	100%	96%	100%			
Engine 4	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Daily capacity factor																
Facility	75%	82%	86%	86%	84%	84%	83%	80%	82%	83%	84%	82%	82%			
Engine 1	100%	98%	96%	94%	92%	94%	97%	98%	95%	92%	91%	91%	87%			
Engine 2	99%	98%	95%	91%	88%	91%	88%	98%	100%	100%	98%	88%	86%			
Engine 3	0%	57%	62%	61%	61%	60%	61%	37%	36%	41%	46%	54%	64%			
Engine 4	99%	98%	92%	96%	95%	90%	88%	98%	99%	99%	99%	96%	91%			
Cumulative by engine																
Engine operating run hours in th																
Max Cumulative Available, P	432	456	480	504	528	552	576	600	624	648	672	696	720			
Engine 1	431	455	479	503	527	551	575	599	623	647	671	695	719			
Engine 2	431	455	479	503	527	551	575	599	623	647	671	695	719			
Engine 3	302	317	340	364	388	412	436	452	476	500	524	547	571			
Engine 4	311	335	359	383	407	431	455	479	503	527	551	575	599			
Engine operating run hours total																
Engine 1	85,840	85,864	85,888	85,912	85,936	85,960	85,984	86,008	86,032	86,056	86,080	86,104	86,128			
Engine 2	82,367	82,391	82,415	82,439	82,463	82,487	82,511	82,535	82,559	82,583	82,607	82,631	82,655			
Engine 3	85,176	85,191	85,214	85,238	85,262	85,286	85,310	85,326	85,350	85,374	85,398	85,421	85,445			
Engine 4	81,967	81,991	82,015	82,039	82,063	82,087	82,111	82,135	82,159	82,183	82,207	82,231	82,255			
Cumulative availability, %																
Engine 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 3	70%	70%	71%	72%	73%	75%	76%	75%	76%	77%	78%	79%	79%			
Engine 4	72%	73%	75%	76%	77%	78%	79%	80%	81%	82%	83%	83%	83%			
Engine cumulative gross output,																
Max cumulative capacity on	14,850	15,675	16,500	17,325	18,150	18,975	19,800	20,625	21,450	22,275	23,100	23,925	24,750			
Engine 1	14,125	14,935	15,731	16,509	17,269	18,046	18,844	19,655	20,437	21,196	21,948	22,702	23,422			
Engine 2	14,046	14,854	15,638	16,390	17,113	17,866	18,589	19,399	20,220	21,041	21,849	22,578	23,289			
Engine 3	9,209	9,682	10,192	10,693	11,194	11,689	12,190	12,498	12,795	13,133	13,510	13,955	14,481			
Engine 4	10,221	11,028	11,784	12,574	13,358	14,102	14,824	15,632	16,452	17,272	18,093	18,885	19,632			
Cumulative capacity factor, %																
Engine 1	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%			
Engine 2	95%	95%	95%	95%	94%	94%	94%	94%	94%	94%	95%	94%	94%			
Engine 3	62%	62%	62%	62%	62%	62%	62%	61%	60%	59%	58%	58%	59%			
Engine 4	69%	70%	71%	73%	74%	74%	75%	76%	77%	78%	78%	79%	79%			
Cumulative by Facility in month																
Max cumulative available engin	1,728	1,824	1,920	2,016	2,112	2,208	2,304	2,400	2,496	2,592	2,688	2,784	2,880			
Actual cumulative engine run h	1,475	1,562	1,657	1,753	1,849	1,945	2,041	2,129	2,225	2,321	2,417	2,512	2,608			
Cumulative Availability, %	85.4%	85.6%	86.3%	87.0%	87.5%	88.1%	88.6%	88.7%	89.1%	89.5%	89.9%	90.2%	90.6%			
Max cumulative gross output, kV	1,425,600	1,504,800	1,584,000	1,663,200	1,742,400	1,821,600	1,900,800	1,980,000	2,059,200	2,138,400	2,217,600	2,296,800	2,376,000			
Actual cumulative gross output,	1,088,566	1,153,869	1,221,684	1,289,408	1,355,910	1,422,379	1,488,304	1,551,570	1,616,897	1,682,618	1,748,803	1,813,635	1,878,526			
Cumulative Capacity Factor	76.4%	76.7%	77.1%	77.5%	77.8%	78.1%	78.3%	78.4%	78.7%	78.9%	79.0%	79.0%	79.1%			
Cumulative fuel input, MMBtu H	14,110	14,871	15,668	16,461	17,267	18,075	18,856	19,601	20,399	21,223	22,049	22,866	23,670			

	Sunday 9/18/2016	Monday 9/19/2016	Tuesday 9/20/2016	Wednesday 9/21/2016	Thursday 9/22/2016	Friday 9/23/2016	Saturday 9/24/2016	Sunday 9/25/2016	Monday 9/26/2016	Tuesday 9/27/2016	Wednesday 9/28/2016	Thursday 9/29/2016	Friday 9/30/2016	TOTAL	Biogas	LFG
Cumulative gross output, kWhr	1,088,566	1,153,869	1,221,684	1,289,408	1,355,910	1,422,379	1,488,304	1,551,570	1,616,897	1,682,618	1,748,803	1,813,635	1,878,526			
Heat Rate																
Daily heat rate, Btu/kWe gross L	10,461	10,489	10,582	10,534	10,912	10,951	10,660	10,606	10,989	11,289	11,226	11,355	11,144			
Daily heat rate, Btu/kWe gross F	11,621	11,652	11,756	11,702	12,121	12,165	11,842	11,782	12,208	12,541	12,471	12,614	12,379			
Cumulative heat rate, Btu/kWe c	11,668	11,602	11,545	11,492	11,463	11,440	11,405	11,372	11,357	11,354	11,349	11,350	11,343			
Cumulative heat rate, Btu/kWe c	12,962	12,888	12,825	12,766	12,734	12,708	12,669	12,633	12,616	12,613	12,608	12,608	12,600			
Cumulative by Facility starting Ca																
Max cumulative available engin	21,788	21,884	21,980	22,076	22,172	22,268	22,364	22,460	22,556	22,652	22,748	22,844	22,940			
Actual cumulative engine run h	19,937	20,024	20,119	20,215	20,311	20,407	20,503	20,591	20,687	20,783	20,879	20,974	21,070			
Cumulative Availability, %	91.5%	91.5%	91.5%	91.6%	91.6%	91.6%	91.7%	91.7%	91.7%	91.7%	91.8%	91.8%	91.8%			
Max cumulative gross output, kW	17,975,100	18,054,300	18,133,500	18,212,700	18,291,900	18,371,100	18,450,300	18,529,500	18,608,700	18,687,900	18,767,100	18,846,300	18,925,500			
Actual cumulative gross output, kWhr	14,223,082	14,288,385	14,356,200	14,423,924	14,490,426	14,556,895	14,622,820	14,686,086	14,751,413	14,817,134	14,883,319	14,948,151	15,013,042			
Cumulative Capacity Factor	79.1%	79.1%	79.2%	79.2%	79.2%	79.2%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%	79.3%			
Cumulative fuel input, MMBtu H	182,758	183,519	184,316	185,108	185,914	186,723	187,504	188,249	189,047	189,871	190,696	191,514	192,317			
Cumulative gross output, kWhr	14,223,082	14,288,385	14,356,200	14,423,924	14,490,426	14,556,895	14,622,820	14,686,086	14,751,413	14,817,134	14,883,319	14,948,151	15,013,042			
Cumulative heat rate, Btu/kWe c	11,567	11,562	11,557	11,553	11,550	11,547	11,543	11,539	11,536	11,535	11,534	11,534	11,532			
Cumulative heat rate, Btu/kWe c	12,849	12,844	12,839	12,833	12,830	12,827	12,823	12,818	12,815	12,814	12,813	12,812	12,810			
Service																
Engine 1																
Engine 2																
Engine 3																
Engine 4																
Oil - oil and filter change																
Service - plugs, air filter, valve inspe																
Precipitation																
NSTAR Power Reports	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday			
Date	9/18/2016	9/19/2016	9/20/2016	9/21/2016	9/22/2016	9/23/2016	9/24/2016	9/25/2016	9/26/2016	9/27/2016	9/28/2016	9/29/2016	9/30/2016	TOTAL		
Hour																
1	2,382	2,381	2,793	2,727	2,726	2,655	2,648	2,525	2,580	2,582	2,650	2,626	2,589			
2	2,384	2,380	2,792	2,730	2,728	2,655	2,659	2,314	2,579	2,581	2,651	2,633	2,556			
3	2,382	2,380	2,793	2,797	2,727	2,655	2,658	2,316	2,577	2,581	2,650	2,655	2,606			
4	2,383	2,380	2,794	2,796	2,686	2,655	2,659	2,316	2,579	2,580	2,650	2,655	2,573			
5	2,383	2,380	2,794	2,797	2,655	2,653	2,658	2,315	2,581	2,579	2,650	2,604	2,567			
6	2,381	2,380	2,703	2,796	2,655	2,636	2,659	2,313	2,575	2,579	2,650	2,560	2,485			
7	2,384	2,381	2,721	2,797	2,657	2,585	2,659	2,315	2,576	2,582	2,650	2,561	2,487			
8	2,383	2,381	2,715	2,796	2,655	2,583	2,660	2,313	2,575	2,581	2,581	2,583	2,488			
9	2,383	2,374	2,492	2,775	2,646	2,584	2,659	2,361	2,572	2,621	2,554	2,651	2,481			
10	2,382	2,423	2,788	2,674	2,643	2,652	2,657	2,661	2,483	2,672	2,643	2,654	2,548			
11	2,378	2,855	2,782	2,643	2,641	2,647	2,656	2,675	2,669	2,674	2,685	2,652	2,593			
12	2,375	2,830	2,656	2,639	2,642	2,643	2,657	2,677	2,668	2,671	2,735	2,649	2,592			
13	2,375	2,786	2,682	2,642	2,685	2,711	2,656	2,677	2,668	2,686	2,739	2,649	2,662			
14	2,375	2,784	2,709	2,640	2,714	2,716	2,656	2,676	2,668	2,709	2,741	2,568	2,642			
15	2,375	2,783	2,711	2,639	2,713	2,603	2,656	2,676	2,663	2,738	2,693	2,715	2,672			
16	2,378	2,787	2,716	2,704	2,715	2,765	2,658	2,678	2,673	2,740	2,652	2,677	2,678			
17	2,378	2,788	2,721	2,720	2,719	2,790	2,656	2,677	2,674	2,745	2,658	2,682	2,679			
18	2,378	2,787	2,721	2,722	2,722	2,793	2,656	2,677	2,679	2,679	2,650	2,658	2,681			
19	2,380	2,790	2,724	2,725	2,725	2,795	2,659	2,677	2,680	2,651	2,658	2,682	2,683			
20	2,380	2,792	2,724	2,726	2,726	2,796	2,657	2,676	2,679	2,650	2,656	2,629	2,683			
21	2,380	2,792	2,724	2,725	2,647	2,752	2,656	2,675	2,678	2,650	2,657	2,485	2,684			
22	2,379	2,792	2,726	2,726	2,582	2,694	2,657	2,675	2,679	2,651	2,657	2,487	2,685			
23	2,380	2,791	2,726	2,724	2,581	2,583	2,656	2,674	2,679	2,650	2,709	2,485	2,684			
24	2,380	2,792	2,727	2,723	2,608	2,582	2,656	2,622	2,614	2,650	2,739	2,487	2,685			
TOTAL	57,118	62,989	65,434	65,383	64,198	64,183	63,768	61,161	63,048	63,453	63,966	62,710	62,684			
Cumulative Output Sold, kWh	1,047,482	1,110,471	1,175,905	1,241,288	1,305,486	1,369,669	1,433,437	1,494,598	1,557,646	1,621,099	1,685,065	1,747,775	1,810,459			
Transformer and line efficienc	99.7%	99.6%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	0.0%		
Hourly average	2,380	2,625	2,726	2,724	2,675	2,674	2,657	2,548	2,627	2,644	2,665	2,613	2,612	2,515		

[illegible]

		Monday 8/1/2016	Tuesday 8/2/2016	Wednesday 8/3/2016	Thursday 8/4/2016	Friday 8/5/2016	Saturday 8/6/2016	Sunday 8/7/2016	Monday 8/8/2016	Tuesday 8/9/2016	Wednesday 8/10/2016	Thursday 8/11/2016	Friday 8/12/2016	Saturday 8/13/2016	Sunday 8/14/2016	Monday 8/15/2016	Tuesday 8/16/2016	Wednesday 8/17/2016	Thursday 8/18/2016
Daily heat rate, Btu/kWe gross HHV		13,177	13,137	13,034	13,792	12,963	13,376	13,171	12,521	12,894	13,191	13,208	13,268	13,354	12,928	13,126	13,043	13,371	13,319
Cumulative heat rate, Btu/kWe gross LHV		11,862	11,844	11,807	11,948	11,890	11,915	11,907	11,831	11,806	11,813	11,820	11,830	11,844	11,830	11,829	11,823	11,836	11,845
Cumulative heat rate, Btu/kWe gross HHV		13,177	13,157	13,116	13,272	13,208	13,236	13,227	13,143	13,115	13,123	13,130	13,141	13,157	13,141	13,140	13,134	13,148	13,158
Cumulative by Facility starting Calendar Year																			
Max cumulative available engine run hours		17,276	17,372	17,468	17,564	17,660	17,756	17,852	17,948	18,044	18,140	18,236	18,332	18,428	18,524	18,620	18,716	18,812	18,908
Actual cumulative engine run hours		15,864	15,960	16,056	16,141	16,237	16,333	16,417	16,489	16,573	16,669	16,764	16,859	16,940	17,012	17,094	17,190	17,286	17,382
Cumulative Availability, %		91.8%	91.9%	91.9%	91.9%	91.9%	92.0%	92.0%	91.9%	91.8%	91.9%	91.9%	92.0%	91.9%	91.8%	91.8%	91.8%	91.9%	91.9%
Max cumulative gross output, kWhr		14,252,700	14,331,900	14,411,100	14,490,300	14,569,500	14,648,700	14,727,900	14,807,100	14,886,300	14,965,500	15,044,700	15,123,900	15,203,100	15,282,300	15,361,500	15,440,700	15,519,900	15,599,100
Actual cumulative gross output, kWhr		11,333,274	11,397,765	11,463,109	11,521,671	11,587,467	11,649,759	11,710,375	11,770,272	11,833,347	11,896,793	11,958,120	12,018,892	12,077,046	12,136,227	12,196,534	12,258,523	12,321,025	12,384,807
Cumulative Capacity Factor		79.5%	79.5%	79.5%	79.5%	79.5%	79.5%	79.5%	79.5%	79.5%	79.5%	79.5%	79.5%	79.4%	79.4%	79.4%	79.4%	79.4%	79.4%
Cumulative fuel input, MMBtu HHV		144,887	145,735	146,586	147,394	148,247	149,080	149,878	150,628	151,442	152,279	153,089	153,895	154,672	155,437	156,228	157,037	157,872	158,722
Cumulative gross output, kWhr		11,333,274	11,397,765	11,463,109	11,521,671	11,587,467	11,649,759	11,710,375	11,770,272	11,833,347	11,896,793	11,958,120	12,018,892	12,077,046	12,136,227	12,196,534	12,258,523	12,321,025	12,384,807
Cumulative heat rate, Btu/kWe gross LHV		11,508	11,510	11,511	11,516	11,517	11,520	11,521	11,520	11,521	11,521	11,521	11,521	11,529	11,529	11,531	11,532	11,534	11,537
Cumulative heat rate, Btu/kWe gross HHV		12,784	12,786	12,788	12,793	12,794	12,797	12,799	12,797	12,798	12,800	12,802	12,804	12,807	12,808	12,809	12,810	12,813	12,816
Service																			
Engine 1																			
Engine 2																			
Engine 3																			
Engine 4																			
#10 Head change																			
Oil - oil and filter change																			
Service - plugs, air filter, valve inspection and adjustment																			
Precipitation																			
NSTAR Power Reports																			
Date		Monday 8/1/2016	Tuesday 8/2/2016	Wednesday 8/3/2016	Thursday 8/4/2016	Friday 8/5/2016	Saturday 8/6/2016	Sunday 8/7/2016	Monday 8/8/2016	Tuesday 8/9/2016	Wednesday 8/10/2016	Thursday 8/11/2016	Friday 8/12/2016	Saturday 8/13/2016	Sunday 8/14/2016	Monday 8/15/2016	Tuesday 8/16/2016	Wednesday 8/17/2016	Thursday 8/18/2016
Hour																			
1		2,595	2,600	2,603	2,699	2,788	2,503	2,499	2,418	2,418	2,693	2,470	2,451	2,357	2,381	2,382	2,383	2,467	2,497
2		2,589	2,596	2,598	2,694	2,784	2,497	2,494	2,414	2,414	2,688	2,465	2,445	2,352	2,377	2,377	2,380	2,501	2,498
3		2,595	2,600	2,603	2,699	2,788	2,501	2,498	2,418	2,418	2,692	2,467	2,448	2,355	2,379	2,382	2,383	2,486	2,498
4		2,597	2,601	2,604	2,700	2,789	2,502	2,499	2,419	2,418	2,693	2,469	2,451	2,357	2,381	2,384	2,385	2,430	2,487
5		2,592	2,595	2,598	2,696	2,785	2,497	2,494	2,414	2,415	2,689	2,429	2,446	2,352	2,376	2,379	2,380	2,463	2,472
6		2,597	2,600	2,603	2,687	2,641	2,501	2,499	2,418	2,418	2,693	2,422	2,449	2,356	2,378	2,383	2,408	2,471	2,412
7		2,597	2,581	2,604	2,654	2,594	2,501	2,501	2,420	2,420	2,693	2,422	2,451	2,225	2,379	2,385	2,432	2,409	2,413
8		2,589	2,543	2,595	2,641	2,594	2,494	2,493	2,411	2,411	2,601	2,412	2,445	2,018	2,371	2,378	2,465	2,400	2,431
9		2,589	2,514	2,548	2,566	2,727	2,497	2,494	2,404	2,403	2,525	2,449	2,443	2,006	2,374	2,373	2,472	2,359	2,468
10		2,590	2,535	2,539	2,199	2,620	2,498	2,494	2,403	2,403	2,464	2,555	2,538	2,254	2,373	2,372	2,476	2,360	2,522
11		2,584	2,571	2,533	2,77	2,648	2,492	2,486	2,401	2,394	2,466	2,551	2,531	2,386	2,369	2,369	2,478	2,587	2,543
12		2,589	2,594	2,537	2,71	2,663	2,493	2,489	2,404	2,392	2,469	2,266	2,233	2,366	2,372	2,371	2,481	2,593	2,560
13		2,590	2,594	2,568	141	2,754	2,493	2,050	2,405	2,457	2,469	2,350	2,404	2,368	2,373	2,369	2,681	2,591	2,588
14		2,585	2,589	2,584	987	2,656	2,489	2,322	2,398	2,630	2,465	2,637	2,458	2,367	2,367	2,457	2,675	2,666	2,582
15		2,589	2,593	2,589	2,613	2,536	2,492	2,371	2,401	2,652	2,466	2,671	2,433	2,368	2,370	2,666	2,674	2,683	2,597
16		2,592	2,593	2,626	2,887	2,587	2,492	2,400	2,404	2,654	2,466	2,672	2,464	2,369	2,372	2,613	2,675	2,681	2,626
17		2,593	2,591	2,684	2,876	2,588	2,490	2,400	2,402	2,674	2,463	2,566	2,437	2,365	2,366	2,579	2,531	2,667	2,629
18		2,597	2,597	2,695	2,881	2,595	2,497	2,410	2,408	2,604	2,468	2,052	2,442	2,370	2,370	2,508	2,396	2,412	2,632
19		2,598	2,603	2,698	2,884	2,598	2,498	2,413	2,412	2,681	2,471	2,114	2,447	2,374	2,372	2,469	2,397	2,354	2,638
20		2,594	2,600	2,693	2,876	2,556	2,494	2,410	2,409	2,685	2,466	2,465	2,397	2,369	2,369	2,372	2,399	2,453	2,641
21		2,599	2,603	2,697	2,881	2,503	2,497	2,416	2,414	2,689	2,469	2,503	2,354	2,373	2,376	2,346	2,399	2,496	2,643
22		2,600	2,604	2,697	2,881	2,503	2,499	2,417	2,416	2,691	2,470	2,450	2,357	2,375	2,378	2,383	2,524	2,496	2,644
23		2,593	2,597	2,693	2,781	2,498	2,494	2,412	2,411	2,686	2,465	2,446	2,352	2,370	2,375	2,378	2,540	2,496	2,644
24		2,598	2,602	2,698	2,788	2,502	2,497	2,416	2,416	2,692	2,468	2,450	2,356	2,376	2,379	2,382	2,487	2,498	2,644
TOTAL		62,231	62,096	62,887	56,259	63,297	59,908	58,377	57,840	60,719	60,972	58,753	58,232	55,828	56,977	58,057	59,501	60,019	61,309
Cumulative Output Sold, kWhr		62,231	124,327	187,214	243,473	306,770	366,678	425,055	482,895	543,614	604,586	663,339	721,571	777,399	834,376	892,433	951,934	1,011,953	1,073,262
Transformer and line efficiency		99.7%	99.7%	99.7%	99.7%	99.7%	99.6%	99.7%	99.6%	99.6%	99.7%	99.6%	99.7%	99.6%	99.7%	99.7%	99.6%	99.6%	99.6%
Hourly average		2,593	2,587	2,620	2,344	2,637	2,496	2,432	2,410	2,530	2,541	2,448	2,426	2,326	2,374	2,419	2,479	2,501	2,555

AUGUST 2016																	
	Friday 8/19/2016	Saturday 8/20/2016	Sunday 8/21/2016	Monday 8/22/2016	Tuesday 8/23/2016	Wednesday 8/24/2016	Thursday 8/25/2016	Friday 8/26/2016	Saturday 8/27/2016	Sunday 8/28/2016	Monday 8/29/2016	Tuesday 8/30/2016	Wednesday 8/31/2016	TOTAL	Biogas	LFG	
LFG and Biogas Flow to the Engine	1,530	1,389	1,382	1,499	1,554	1,492	1,596	1,598	1,593	1,565	1,511	1,563	1,553	47,644	3,041	44,603	
LFG and Biogas Flow to the Engine	820	766	772	826	830	822	869	871	852	837	820	846	842	25,459	2,187	23,272	
LFG and Biogas Flow to the Flare (l)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6%	91%	
LFG and Biogas Total Flow (KSCF)	1,530	1,389	1,382	1,499	1,554	1,492	1,596	1,598	1,593	1,565	1,511	1,563	1,553	47,644			
LFG and Biogas Total Flow (MMBT)	820	766	772	826	830	822	869	871	852	837	820	846	842	25,459			
Average Methane Content (%)	52.9	54.5	55.2	54.4	52.8	54.4	53.8	53.8	52.9	52.9	53.6	53.5	53.6	52.8			
Engine 1 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	740			
Engine 2 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	738			
Engine 3 Hours	16	-	-	14	24	20	24	24	24	24	24	24	24	570			
Engine 4 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	741			
Generator 1 Power Output (kWhr)	17,572	19,980	19,978	18,870	16,998	17,794	17,746	17,636	16,890	16,826	17,742	17,598	17,698	537,320			
Generator 2 Power Output (kWhr)	17,060	19,958	19,952	18,526	16,124	17,478	17,758	17,506	16,790	16,656	13,208	14,096	13,978	526,986			
Generator 3 Power Output (kWhr)	9,042	-	-	7,406	13,216	8,440	11,646	12,620	12,618	12,614	12,602	13,200	12,546	322,192			
Generator 4 Power Output (kWhr)	17,884	19,940	19,938	18,324	16,050	17,710	18,338	17,488	17,690	17,336	18,100	17,896	17,216	541,984			
Gross Power Output (kWhr)	61,558	59,908	59,905	63,143	62,402	61,445	65,484	65,258	64,016	63,453	61,668	62,804	61,471	1,928,757			
Net Power Output (kWhr)	59,352	57,984	58,116	61,143	60,326	59,297	63,173	62,931	61,922	61,407	59,606	60,767	59,346	1,862,329			
Power Sold as metered by NStar, (l Offgrid REC's (kWhr)	59,163	57,796	57,931	60,946	60,157	59,097	62,966	62,713	61,703	61,200	59,397	60,579	59,173	1,856,083	CRMBCB inplant		
	2,205	1,924	1,789	2,001	2,076	2,148	2,311	2,327	2,094	2,046	2,060	2,037	2,125	66,427	8,775		
Calculated Performance Results																	
Daily																	
Power output (kW average whe																	
Generator 1	732	833	832	786	708	741	739	735	704	701	739	733	737				
Generator 2	711	832	831	772	672	728	740	729	700	694	600	587	582				
Generator 3	565	-	-	529	551	422	485	526	526	526	525	550	523				
Generator 4	745	831	831	764	669	738	764	729	737	722	754	746	717				
Power output (kW average over																	
Facility Gross	2,565	2,496	2,496	2,631	2,600	2,560	2,729	2,719	2,667	2,644	2,569	2,617	2,561				
Facility Net	2,473	2,416	2,422	2,548	2,514	2,471	2,632	2,622	2,580	2,559	2,484	2,532	2,473				
In-plant load	92	80	75	83	87	90	96	97	87	85	86	85	89				
Daily availability factor																	
Facility	92%	75%	75%	90%	100%	96%	100%	100%	100%	100%	98%	100%	100%				
Engine 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%				
Engine 2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	92%	100%	100%				
Engine 3	67%	0%	0%	58%	100%	83%	100%	100%	100%	100%	100%	100%	100%				
Engine 4	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%				
Daily capacity factor																	
Facility	78%	76%	76%	80%	79%	78%	83%	82%	81%	80%	78%	79%	78%				
Engine 1	89%	101%	101%	95%	86%	90%	90%	89%	85%	85%	90%	89%	89%				
Engine 2	86%	101%	101%	94%	81%	88%	90%	88%	85%	84%	73%	71%	71%				
Engine 3	69%	0%	0%	64%	67%	51%	59%	64%	64%	64%	64%	67%	63%				
Engine 4	90%	101%	101%	93%	81%	89%	93%	88%	89%	88%	91%	90%	87%				
Cumulative by engine																	
Engine operating run hours in t																	
Max Cumulative Available,	456	480	504	528	552	576	600	624	648	672	696	720	720				
Engine 1	452	476	500	524	548	572	596	620	644	668	692	716	716				
Engine 2	453	477	501	525	549	573	597	621	645	669	691	715	715				
Engine 3	344	344	344	358	382	402	426	450	474	498	522	546	546				
Engine 4	453	477	501	525	549	573	597	621	645	669	693	717	717				
Engine operating run hours tota																	
Engine 1	85,145	85,169	85,193	85,217	85,241	85,265	85,289	85,313	85,337	85,361	85,385	85,409	85,409				
Engine 2	81,674	81,698	81,722	81,746	81,770	81,794	81,818	81,842	81,866	81,890	81,912	81,936	81,936				
Engine 3	84,672	84,672	84,686	84,710	84,730	84,754	84,778	84,802	84,826	84,850	84,874	84,874	84,874				
Engine 4	81,391	81,415	81,439	81,463	81,487	81,511	81,535	81,559	81,583	81,607	81,631	81,655	81,655				
Cumulative availability, %																	
Engine 1	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%				
Engine 2	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%				
Engine 3	75%	72%	68%	68%	69%	70%	71%	72%	73%	74%	75%	76%	76%				
Engine 4	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%				
Engine cumulative gross output																	
Max cumulative capacity on	15,675	16,500	17,325	18,150	18,975	19,800	20,625	21,450	22,275	23,100	23,925	24,750	24,750				
Engine 1	13,510	14,343	15,175	15,962	16,670	17,411	18,150	18,885	19,589	20,290	21,029	21,762	21,767				
Engine 2	13,629	14,460	15,291	16,063	16,735	17,463	18,203	18,933	19,632	20,326	20,927	21,514	21,509				
Engine 3	9,983	9,983	9,983	10,512	11,063	11,485	11,970	12,496	13,021	13,547	14,072	14,622	14,595				
Engine 4	13,671	14,502	15,332	16,096	16,765	17,503	18,267	18,995	19,732	20,455	21,209	21,955	21,926				
Cumulative capacity factor, %																	
Engine 1	86%	87%	88%	88%	88%	88%	88%	88%	88%	88%	88%	88%	88%				
Engine 2	87%	88%	88%	89%	88%	88%	88%	88%	88%	88%	88%	87%	87%				
Engine 3	64%	61%	58%	58%	58%	58%	58%	58%	58%	58%	59%	59%	59%				
Engine 4	87%	88%	88%	89%	88%	88%	89%	89%	89%	89%	89%	89%	89%				
Cumulative by Facility in month																	
Max cumulative available engi	1,824	1,920	2,016	2,112	2,208	2,304	2,400	2,496	2,592	2,688	2,784	2,880	2,880				
Actual cumulative engine run h	1,702	1,774	1,846	1,932	2,028	2,120	2,216	2,312	2,408	2,504	2,598	2,694	2,694				
Cumulative Availability, %	93.3%	92.4%	91.6%	91.5%	91.8%	92.0%	92.3%	92.6%	92.9%	93.2%	93.3%	93.5%	93.5%				
Max cumulative gross output, k	1,504,800	1,584,000	1,663,200	1,742,400	1,821,600	1,900,800	1,980,000	2,059,200	2,138,400	2,217,600	2,296,800	2,376,000	2,376,000				
Actual cumulative gross output,	1,177,802	1,237,710	1,297,615	1,360,758	1,423,160	1,484,605	1,550,089	1,615,347	1,679,363	1,742,816	1,804,482	1,867,286	1,865,953				
Cumulative Capacity Factor	78.3%	78.1%	78.0%	78.1%	78.1%	78.1%	78.3%	78.4%	78.5%	78.6%	78.6%	78.6%	78.5%				
Cumulative fuel input, MMBtu f	15,507	16,273	17,045	17,871	18,701	19,522	20,392	21,262	22,114	22,952	23,771	24,617	24,613				
Cumulative gross output, kWhr	1,177,802	1,237,710	1,297,615	1,360,758	1,423,160	1,484,605	1,550,089	1,615,347	1,679,363	1,742,816	1,804,482	1,867,286	1,865,953				
Heat Rate																	
Daily heat rate, Btu/kWe gross	11,987	11,507	11,604	11,769	11,978	12,035	11,951	12,008	11,984	11,879	11,963	12,123	12,328				

		Friday 8/19/2016	Saturday 8/20/2016	Sunday 8/21/2016	Monday 8/22/2016	Tuesday 8/23/2016	Wednesday 8/24/2016	Thursday 8/25/2016	Friday 8/26/2016	Saturday 8/27/2016	Sunday 8/28/2016	Monday 8/29/2016	Tuesday 8/30/2016	Wednesday 8/31/2016	TOTAL	Biogas	LFG
Daily heat rate, Btu/kWe gross		13,316	12,783	12,890	13,073	13,306	13,370	13,277	13,339	13,312	13,196	13,289	13,467	13,694			
Cumulative heat rate, Btu/kWe		11,852	11,835	11,825	11,822	11,829	11,837	11,842	11,849	11,854	11,855	11,859	11,868	11,874			
Cumulative heat rate, Btu/kWe		13,166	13,148	13,136	13,133	13,140	13,150	13,155	13,163	13,168	13,169	13,173	13,183	13,191			
Cumulative by Facility starting C.																	
Max cumulative available engine		19,004	19,100	19,196	19,292	19,388	19,484	19,580	19,676	19,772	19,868	19,964	20,060	20,060			
Actual cumulative engine run h		17,470	17,542	17,614	17,700	17,796	17,888	17,984	18,080	18,176	18,272	18,366	18,462	18,462			
Cumulative Availability, %		91.9%	91.8%	91.8%	91.7%	91.8%	91.8%	91.8%	91.9%	91.9%	92.0%	92.0%	92.0%	92.0%			
Max cumulative gross output, kW		15,678,300	15,757,500	15,836,700	15,915,900	15,995,100	16,074,300	16,153,500	16,232,700	16,311,900	16,391,100	16,470,300	16,549,500	16,549,500			
Actual cumulative gross output, kW		12,446,365	12,506,273	12,566,178	12,629,321	12,691,723	12,753,168	12,818,652	12,883,910	12,947,926	13,011,379	13,073,045	13,135,849	13,134,516			
Cumulative Capacity Factor		79.4%	79.4%	79.3%	79.4%	79.3%	79.3%	79.4%	79.4%	79.4%	79.4%	79.4%	79.4%	79.4%			
Cumulative fuel input, MMBtu		159,542	160,307	161,080	161,905	162,735	163,557	164,426	165,297	166,149	166,986	167,806	168,652	168,648			
Cumulative gross output, kWh		12,446,365	12,506,273	12,566,178	12,629,321	12,691,723	12,753,168	12,818,652	12,883,910	12,947,926	13,011,379	13,073,045	13,135,849	13,134,516			
Cumulative heat rate, Btu/kWe		11,539	11,539	11,539	11,540	11,542	11,545	11,547	11,549	11,551	11,553	11,555	11,558	11,559			
Cumulative heat rate, Btu/kWe		12,818	12,818	12,819	12,820	12,822	12,825	12,827	12,830	12,832	12,834	12,836	12,839	12,840			
Service																	
Engine 1																	
Engine 2																	
Engine 3																	
Engine 4																	
Oil - oil and filter change																	
Service - plugs, air filter, valve insp																	
Precipitation																	
NSTAR Power Reports		Friday 8/19/2016	Saturday 8/20/2016	Sunday 8/21/2016	Monday 8/22/2016	Tuesday 8/23/2016	Wednesday 8/24/2016	Thursday 8/25/2016	Friday 8/26/2016	Saturday 8/27/2016	Sunday 8/28/2016	Monday 8/29/2016	Tuesday 8/30/2016	Wednesday 8/31/2016	TOTAL		
Date																	
Hour																	
1		2,644	2,412	2,415	2,418	2,587	2,434	2,623	2,628	2,607	2,556	2,553	2,510	2,417			
2		2,643	2,412	2,414	2,415	2,586	2,433	2,622	2,638	2,638	2,555	2,598	2,509	2,417			
3		2,644	2,412	2,416	2,415	2,500	2,266	2,621	2,560	2,555	2,555	2,574	2,509	2,417			
4		2,644	2,413	2,416	2,415	2,440	2,120	2,607	2,621	2,585	2,556	2,556	2,502	2,417			
5		2,594	2,412	2,414	2,417	2,440	2,121	2,621	2,637	2,622	2,556	2,523	2,463	2,455			
6		2,524	2,412	2,415	2,419	2,440	2,122	2,621	2,557	2,603	2,556	2,459	2,463	2,464			
7		2,499	2,413	2,417	2,419	2,454	2,138	2,622	2,546	2,613	2,558	2,559	2,469	2,465			
8		2,495	2,409	2,414	2,418	2,456	2,388	2,616	2,543	2,630	2,555	2,526	2,507	2,440			
9		2,386	2,405	2,411	2,411	2,464	2,401	2,612	2,547	2,598	2,551	1,961	2,502	2,409			
10		2,391	2,405	2,412	2,407	2,500	2,400	2,612	2,634	2,557	2,551	2,065	2,511	2,490			
11		2,413	2,403	2,411	2,692	2,499	2,438	2,610	2,631	2,547	2,549	2,072	2,546	2,495			
12		2,413	2,402	2,411	2,627	2,500	2,509	2,610	2,631	2,547	2,549	2,449	2,545	2,491			
13		2,413	2,401	2,410	2,691	2,499	2,540	2,610	2,631	2,548	2,549	2,632	2,547	2,492			
14		2,412	2,400	2,409	2,676	2,529	2,601	2,661	2,652	2,546	2,547	2,628	2,545	2,491			
15		2,410	2,401	2,411	2,642	2,577	2,610	2,676	2,654	2,546	2,544	2,586	2,546	2,516			
16		2,395	2,402	2,411	2,643	2,606	2,611	2,679	2,538	2,547	2,546	2,538	2,552	2,380			
17		2,399	2,402	2,412	2,645	2,555	2,616	2,685	2,562	2,547	2,539	2,546	2,554	2,388			
18		2,400	2,405	2,414	2,646	2,534	2,619	2,688	2,597	2,549	2,552	2,535	2,555	2,502			
19		2,403	2,410	2,416	2,647	2,506	2,622	2,690	2,632	2,551	2,555	2,505	2,558	2,504			
20		2,405	2,412	2,416	2,648	2,594	2,622	2,672	2,648	2,552	2,554	2,503	2,558	2,504			
21		2,408	2,412	2,416	2,537	2,595	2,622	2,574	2,652	2,552	2,556	2,506	2,559	2,506			
22		2,409	2,414	2,417	2,533	2,432	2,621	2,546	2,652	2,554	2,553	2,508	2,560	2,505			
23		2,409	2,413	2,416	2,580	2,431	2,621	2,543	2,676	2,554	2,477	2,506	2,559	2,504			
24		2,410	2,414	2,417	2,585	2,433	2,622	2,545	2,646	2,555	2,581	2,509	2,450	2,504			
TOTAL		59,163	57,796	57,931	60,946	60,157	59,097	62,966	62,713	61,703	61,200	59,397	60,579	59,173			
Cumulative Output Sold, kW		1,132,425	1,190,221	1,248,152	1,309,098	1,369,255	1,428,352	1,491,318	1,554,031	1,615,734	1,676,934	1,736,331	1,796,910	1,856,083			
Transformer and line efficiency		99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.6%	99.7%	99.6%	99.7%	99.7%	0.0%		
Hourly average		2,465	2,408	2,414	2,539	2,507	2,462	2,624	2,613	2,571	2,550	2,475	2,524	2,466	2,495		

JULY 2016																				
			Friday 7/1/2016	Saturday 7/2/2016	Sunday 7/3/2016	Monday 7/4/2016	Tuesday 7/5/2016	Wednesday 7/6/2016	Thursday 7/7/2016	Friday 7/8/2016	Saturday 7/9/2016	Sunday 7/10/2016	Monday 7/11/2016	Tuesday 7/12/2016	Wednesday 7/13/2016	Thursday 7/14/2016	Friday 7/15/2016	Saturday 7/16/2016	Sunday 7/17/2016	Monday 7/18/2016
LFG and Biogas Flow to the Engines (KSCF)		1,626	1,609	1,599	1,547	1,479	1,496	1,456	1,455	1,484	1,525	1,520	1,486	1,382	1,456	1,480	1,521	1,537	1,503	
LFG and Biogas Flow to the Engines (MMBTU HHV)		807	797	779	765	759	765	746	758	773	775	771	767	719	765	781	773	770	768	
LFG and Biogas Flow to the Flare (KSCF)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Flow to the Flare (MMBTU HHV)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Total Flow (KSCF)		1,626	1,609	1,599	1,547	1,479	1,496	1,456	1,455	1,484	1,525	1,520	1,486	1,382	1,456	1,480	1,521	1,537	1,503	
LFG and Biogas Total Flow (MMBTU HHV)		807	797	779	765	759	765	746	758	773	775	771	767	719	765	781	773	770	768	
Average Methane Content (%)		49.0	48.9	48.1	48.8	50.7	50.5	50.6	51.5	51.5	50.2	50.1	51.0	51.4	51.9	52.1	50.2	49.5	50.5	
Engine 1 Hours		24	24	24	24	24	24	24	24	24	24	24	23	19	12	24	24	24	24	
Engine 2 Hours		24	24	14	-	-	-	-	-	-	-	-	-	8	24	24	24	24	24	
Engine 3 Hours		24	24	24	24	24	24	23	24	24	24	24	24	24	20	24	24	24	13	
Engine 4 Hours		24	24	24	24	24	24	24	24	24	24	24	24	22	14	3	-	-	11	
Generator 1 Power Output (kWhr)		15,584	15,022	17,048	19,986	19,986	19,984	19,982	19,982	19,984	19,986	19,986	14,920	-	8,706	19,772	19,860	19,856	19,858	
Generator 2 Power Output (kWhr)		15,378	15,030	8,836	-	-	-	-	-	-	-	-	5,302	19,852	19,538	19,538	19,850	19,854	19,850	
Generator 3 Power Output (kWhr)		15,350	14,996	16,616	19,972	19,152	19,988	18,116	19,262	19,972	19,968	19,972	19,974	16,512	19,744	19,744	19,740	19,736	19,850	
Generator 4 Power Output (kWhr)		15,624	15,002	16,934	19,950	19,950	19,946	19,942	19,946	19,938	19,932	19,906	19,034	16,282	10,026	418	-	-	8,974	
Gross Power Output (kWhr)		61,920	60,038	59,418	59,888	59,070	59,896	58,020	59,157	59,855	59,841	59,726	59,178	52,560	57,960	59,788	59,462	59,455	58,992	
Net Power Output (kWhr)		59,443	57,695	57,096	57,719	56,954	57,931	56,039	57,016	57,780	57,723	57,559	56,934	50,395	55,867	57,563	57,185	57,233	56,674	
Power Sold as metered by NStar, (kWhr)		59,290	57,517	56,941	57,562	56,802	57,770	55,875	56,858	57,588	57,560	57,393	56,750	50,279	55,734	57,413	57,015	57,077	56,505	
Offgrid RECs (kWhr)		2,476	2,343	2,320	2,169	2,115	1,965	1,981	2,141	2,095	2,118	2,167	2,244	2,165	2,102	2,225	2,277	2,222	2,318	
Calculated Performance Results																				
Daily																				
Power output (kW average when running)																				
Generator 1		649	626	710	833	833	833	833	833	833	833	869	785	-	726	824	828	827	827	
Generator 2		641	626	631	-	-	-	-	-	-	-	-	663	827	814	827	827	827	827	
Generator 3		640	625	692	832	798	833	788	803	832	832	832	826	823	823	823	823	822	791	
Generator 4		651	625	706	831	831	831	831	831	831	831	825	793	740	716	139	-	-	816	
Power output (kW average over 24-hrs)																				
Facility Gross		2,580	2,502	2,476	2,495	2,461	2,496	2,418	2,465	2,494	2,493	2,489	2,466	2,190	2,415	2,491	2,478	2,477	2,458	
Facility Net		2,477	2,404	2,379	2,405	2,373	2,414	2,335	2,376	2,407	2,405	2,398	2,372	2,100	2,328	2,398	2,383	2,385	2,361	
In-plant load		103	98	97	90	88	82	83	89	87	88	90	94	90	88	93	95	93	97	
Daily availability factor																				
Facility		100%	100%	90%	75%	75%	75%	74%	75%	75%	75%	74%	78%	69%	77%	78%	75%	75%	75%	
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	79%	0%	50%	100%	100%	100%	100%	
Engine 2		100%	100%	58%	0%	0%	0%	0%	0%	0%	0%	0%	33%	100%	100%	100%	100%	100%	100%	
Engine 3		100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	83%	100%	100%	100%	100%	54%	
Engine 4		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	92%	58%	13%	0%	0%	46%	
Daily capacity factor																				
Facility		78%	76%	75%	76%	75%	76%	73%	75%	76%	76%	75%	75%	66%	73%	75%	75%	75%	74%	
Engine 1		79%	76%	86%	101%	101%	101%	101%	101%	101%	101%	105%	95%	0%	88%	100%	100%	100%	100%	
Engine 2		78%	76%	77%	0%	0%	0%	0%	0%	0%	0%	0%	80%	100%	99%	100%	100%	100%	100%	
Engine 3		78%	76%	84%	101%	97%	101%	95%	97%	101%	101%	101%	101%	100%	100%	100%	100%	100%	96%	
Engine 4		79%	76%	86%	101%	101%	101%	101%	101%	101%	101%	100%	96%	90%	87%	17%	0%	0%	99%	
Cumulative by engine																				
Engine operating run hours in the month																				
Max Cumulative Available, hours		24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408	432	
Engine 1		24	48	72	96	120	144	168	192	216	240	263	282	294	318	342	366	390	390	
Engine 2		24	48	62	62	62	62	62	62	62	62	62	70	94	118	142	166	190	214	
Engine 3		24	48	72	96	120	144	167	191	215	239	263	287	307	331	355	379	403	416	
Engine 4		24	48	72	96	120	144	168	192	216	240	264	288	310	324	327	327	327	338	
Engine operating run hours total from 0 hours																				
Engine 1	83,998	84,022	84,046	84,070	84,094	84,118	84,142	84,166	84,190	84,214	84,238	84,261	84,280	84,280	84,292	84,316	84,340	84,364	84,388	
Engine 2	80,700	80,724	80,748	80,762	80,762	80,762	80,762	80,762	80,762	80,762	80,762	80,762	80,770	80,794	80,818	80,842	80,866	80,890	80,914	
Engine 3	83,699	83,723	83,747	83,771	83,795	83,819	83,843	83,866	83,890	83,914	83,938	83,962	83,986	84,006	84,030	84,054	84,078	84,102	84,115	
Engine 4	80,290	80,314	80,338	80,362	80,386	80,410	80,434	80,458	80,482	80,506	80,530	80,554	80,578	80,600	80,614	80,617	80,617	80,617	80,628	
Cumulative availability, %		July 1, 2016 @ 00:00 hours																		
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	98%	90%	88%	88%	89%	90%	90%	
Engine 2		100%	100%	86%	65%	52%	43%	37%	32%	29%	26%	23%	24%	30%	35%	39%	43%	47%	50%	
Engine 3		100%	100%	100%	100%	100%	100%	100%	99%	99%	100%	100%	100%	98%	99%	99%	99%	99%	96%	
Engine 4		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	96%	91%	85%	80%	78%	
Engine cumulative gross output, kWhr																				
Max cumulative capacity one engine		825	1,650	2,475	3,300	4,125	4,950	5,775	6,600	7,425	8,250	9,075	9,900	10,725	11,550	12,375	13,200	14,025	14,850	
Engine 1		649	1,275	1,986	2,818	3,651	4,484	5,316	6,149	6,982	7,814	8,683	9,468	10,194	11,018	11,845	12,672	13,500	13,500	
Engine 2		641	1,267	1,898	1,898	1,898	1,898	1,898	1,898	1,898	1,898	1,898	2,561	3,388	4,202	5,029	5,856	6,684	7,511	
Engine 3		640	1,264	1,957	2,789	3,587	4,420	5,207	6,010	6,842	7,674	8,506	9,339	10,164	10,987	11,810	12,632	13,454	14,245	
Engine 4		651	1,276	1,982	2,813	3,644	4,475	5,306	6,137	6,968	7,799	8,624	9,417	10,157	10,873	11,012	11,012	11,012	11,828	
Cumulative capacity factor, %																				
Engine 1		79%	77%	80%	85%	89%	91%	92%	93%	94%	95%	96%	96%	88%	88%	89%	90%	90%	91%	
Engine 2		78%	77%	77%	58%	46%	38%	33%	29%	26%	23%	21%	26%	32%	36%	41%	44%	48%	51%	
Engine 3		78%	77%	79%	85%	87%	89%	90%	91%	92%	93%	94%	94%	95%	95%	94%	93%	92%	90%	
Engine 4		79%	77%	80%	85%	88%	90%	92%	93%	94%	95%	95%	95%	95%	94%	89%	83%	79%	80%	
Cumulative by Facility in month																				
Max cumulative available engine run hours		96	192	288	384	480	576	672	768	864	960	1,056	1,152	1,248	1,344	1,440	1,536	1,632	1,728	
Actual cumulative engine run hours		96	192	278	350	422	494	565	637	709	781	852	927	1,007	1,087	1,167	1,247	1,327	1,407	
Cumulative Availability, %		100.0%	100.0%	96.5%	91.1%	87.9%	85.8%	84.1%	82.9%	82.1%	81.4%	80.7%	80.5%	79.6%	79.4%	79.3%	79.0%	78.8%	78.6%	

		Friday 7/1/2016	Saturday 7/2/2016	Sunday 7/3/2016	Monday 7/4/2016	Tuesday 7/5/2016	Wednesday 7/6/2016	Thursday 7/7/2016	Friday 7/8/2016	Saturday 7/9/2016	Sunday 7/10/2016	Monday 7/11/2016	Tuesday 7/12/2016	Wednesday 7/13/2016	Thursday 7/14/2016	Friday 7/15/2016	Saturday 7/16/2016	Sunday 7/17/2016	Monday 7/18/2016
Daily heat rate, Btu/kWe gross HHV		13,028	13,275	13,109	12,765	12,846	12,767	12,852	12,820	12,918	12,954	12,909	12,963	13,674	13,197	13,058	12,997	12,958	13,024
Cumulative heat rate, Btu/kWe gross LHV		11,728	11,837	11,825	11,742	11,707	11,672	11,658	11,643	11,641	11,643	11,641	11,644	11,689	11,703	11,706	11,706	11,703	11,704
Cumulative heat rate, Btu/kWe gross HHV		13,028	13,150	13,136	13,044	13,005	12,966	12,950	12,934	12,932	12,934	12,932	12,935	12,985	13,000	13,004	13,003	13,001	13,002
Cumulative by Facility starting Calendar Year																			
Max cumulative available engine run hours	14,396	14,492	14,588	14,684	14,780	14,876	14,972	15,068	15,164	15,260	15,356	15,452	15,548	15,644	15,740	15,836	15,932	16,028	
Actual cumulative engine run hours	13,464	13,560	13,646	13,718	13,790	13,862	13,933	14,005	14,077	14,149	14,220	14,295	14,361	14,435	14,510	14,582	14,654	14,726	
Cumulative Availability, %	93.5%	93.6%	93.5%	93.4%	93.3%	93.2%	93.1%	92.9%	92.8%	92.7%	92.6%	92.5%	92.4%	92.3%	92.2%	92.1%	92.0%	91.9%	
Max cumulative gross output, kWhr	11,876,700	11,955,900	12,035,100	12,114,300	12,193,500	12,272,700	12,351,900	12,431,100	12,510,300	12,589,500	12,668,700	12,747,900	12,827,100	12,906,300	12,985,500	13,064,700	13,143,900	13,223,100	
Actual cumulative gross output, kWhr	9,530,823	9,590,861	9,650,277	9,710,165	9,769,235	9,829,131	9,887,151	9,946,308	10,006,163	10,066,004	10,125,730	10,184,908	10,237,468	10,295,437	10,355,225	10,414,687	10,474,142	10,533,134	
Cumulative Capacity Factor	80.2%	80.2%	80.2%	80.2%	80.1%	80.1%	80.0%	80.0%	80.0%	80.0%	79.9%	79.9%	79.8%	79.8%	79.7%	79.7%	79.7%	79.7%	
Cumulative fuel input, MMBtu HHV	121,277	122,074	122,853	123,617	124,376	125,141	125,887	126,645	127,418	128,193	128,964	129,732	130,450	131,215	131,996	132,769	133,539	134,307	
Cumulative gross output, kWhr	9,530,823	9,590,861	9,650,277	9,710,165	9,769,235	9,829,131	9,887,151	9,946,308	10,006,163	10,066,004	10,125,730	10,184,908	10,237,468	10,295,437	10,355,225	10,414,687	10,474,142	10,533,134	
Cumulative heat rate, Btu/kWe gross LHV	11,455	11,458	11,460	11,460	11,461	11,461	11,462	11,462	11,463	11,463	11,465	11,465	11,466	11,471	11,473	11,475	11,476	11,477	
Cumulative heat rate, Btu/kWe gross HHV	12,725	12,728	12,731	12,731	12,731	12,732	12,732	12,733	12,733	12,734	12,735	12,736	12,738	12,742	12,745	12,747	12,748	12,749	
Service																			
Engine 1																			
Engine 2																			
Engine 3																			
Engine 4																			
Oil - oil and filter change																			
Service - plugs, air filter, valve inspection and adjustment																			
Precipitation																			
NSTAR Power Reports		Friday 7/1/2016	Saturday 7/2/2016	Sunday 7/3/2016	Monday 7/4/2016	Tuesday 7/5/2016	Wednesday 7/6/2016	Thursday 7/7/2016	Friday 7/8/2016	Saturday 7/9/2016	Sunday 7/10/2016	Monday 7/11/2016	Tuesday 7/12/2016	Wednesday 7/13/2016	Thursday 7/14/2016	Friday 7/15/2016	Saturday 7/16/2016	Sunday 7/17/2016	Monday 7/18/2016
Date																			
Hour																			
1		2,491	2,402	2,397	2,402	2,400	2,409	2,414	2,389	2,406	2,398	2,402	2,407	2,384	2,281	2,396	2,382	2,384	2,380
2		2,485	2,397	2,394	2,398	2,397	2,404	2,414	2,384	2,401	2,393	2,397	2,403	2,377	2,270	2,390	2,375	2,378	2,373
3		2,491	2,402	2,399	2,404	2,403	2,411	2,413	2,391	2,408	2,399	2,404	2,410	2,383	2,271	2,396	2,381	2,384	2,380
4		2,490	2,401	2,398	2,403	2,404	2,411	2,414	2,390	2,406	2,398	2,404	2,410	2,375	2,271	2,396	2,381	2,384	2,380
5		2,486	2,396	2,394	2,399	2,399	2,406	2,413	2,382	2,402	2,393	2,399	2,405	2,318	2,265	2,390	2,375	2,377	2,374
6		2,493	2,402	2,399	2,405	2,406	2,412	2,414	2,385	2,408	2,399	2,404	2,411	1,996	2,262	2,397	2,381	2,384	2,381
7		2,491	2,402	2,397	2,403	2,405	2,407	2,415	2,385	2,407	2,399	2,403	2,410	1,583	2,253	2,397	2,381	2,384	2,378
8		2,484	2,395	2,389	2,396	2,400	2,396	2,409	2,379	2,399	2,393	2,366	2,394	1,460	2,236	2,387	2,374	2,377	2,371
9		2,481	2,400	2,392	2,400	2,398	2,405	2,404	2,383	2,403	2,398	2,336	2,362	1,145	2,290	2,379	2,378	2,383	2,371
10		2,480	2,398	2,391	2,399	2,398	2,408	2,405	2,378	2,401	2,400	2,354	2,325	1,881	2,280	2,375	2,377	2,382	2,368
11		2,477	2,393	2,386	2,394	2,394	2,406	2,403	2,375	2,394	2,396	2,385	2,350	1,662	2,337	2,365	2,368	2,374	2,358
12		2,483	2,397	2,391	2,398	2,400	2,404	2,402	2,382	2,399	2,402	2,393	2,385	1,692	2,347	2,366	2,368	2,379	2,364
13		2,481	2,397	2,389	2,397	2,399	2,404	2,085	2,380	2,398	2,400	2,392	2,385	2,170	2,351	2,364	2,366	2,379	2,020
14		2,475	2,392	2,384	2,391	2,395	2,402	2,200	2,374	2,393	2,395	2,389	2,382	1,847	2,122	2,540	2,364	2,371	2,239
15		2,438	2,396	2,280	2,396	2,395	2,400	1,868	2,378	2,398	2,401	2,390	2,381	2,282	2,384	2,507	2,371	2,375	2,364
16		2,432	2,395	2,284	2,396	2,394	2,400	1,856	2,372	2,397	2,400	2,393	2,208	2,328	2,387	2,354	2,370	2,375	2,368
17		2,485	2,391	2,334	2,391	2,393	2,407	2,232	2,378	2,392	2,395	2,387	2,368	2,318	2,382	2,366	2,364	2,370	2,371
18		2,547	2,396	2,341	2,398	2,169	2,408	2,388	1,951	2,398	2,402	2,395	2,059	2,311	2,389	2,378	2,372	2,379	2,380
19		2,546	2,395	2,342	2,399	1,902	2,409	2,390	2,401	2,399	2,401	2,395	2,365	2,312	2,394	2,377	2,380	2,377	2,381
20		2,456	2,390	2,338	2,395	2,325	2,410	2,384	2,400	2,393	2,396	2,392	2,379	2,303	2,389	2,373	2,377	2,371	2,376
21		2,400	2,396	2,344	2,401	2,407	2,412	2,390	2,407	2,398	2,402	2,403	2,391	2,302	2,394	2,380	2,384	2,379	2,382
22		2,400	2,396	2,380	2,400	2,407	2,412	2,389	2,406	2,398	2,402	2,403	2,391	2,291	2,394	2,382	2,384	2,379	2,383
23		2,396	2,391	2,396	2,396	2,403	2,413	2,384	2,401	2,392	2,396	2,400	2,384	2,276	2,389	2,376	2,378	2,372	2,378
24		2,402	2,397	2,402	2,401	2,409	2,414	2,389	2,407	2,398	2,402	2,407	2,385	2,283	2,396	2,382	2,384	2,380	2,385
TOTAL		59,290	57,517	56,941	57,562	56,802	57,770	55,875	56,858	57,588	57,560	57,393	56,750	50,279	55,734	57,413	57,015	57,077	56,505
Cumulative Output Sold, kWhr		59,290	116,807	173,748	231,310	288,112	345,882	401,757	458,615	516,203	573,763	631,156	687,906	738,185	793,919	851,332	908,347	965,424	1,021,929
Transformer and line efficiency		99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.8%	99.8%	99.7%	99.7%	99.7%	99.7%
Hourly average		2,470	2,397	2,373	2,398	2,367	2,407	2,328	2,369	2,400	2,398	2,391	2,365	2,095	2,322	2,392	2,376	2,378	2,354

JULY 2016																
	Tuesday 7/19/2016	Wednesday 7/20/2016	Thursday 7/21/2016	Friday 7/22/2016	Saturday 7/23/2016	Sunday 7/24/2016	Monday 7/25/2016	Tuesday 7/26/2016	Wednesday 7/27/2016	Thursday 7/28/2016	Friday 7/29/2016	Saturday 7/30/2016	Sunday 7/31/2016	TOTAL	Biogas	LFG
LFG and Biogas Flow to the Engine	1,359	1,292	1,385	1,714	1,759	1,716	1,695	1,539	1,478	1,670	1,654	1,708	1,712	47,842	3,426	44,416
LFG and Biogas Flow to the Engine	704	660	733	871	887	859	862	808	801	856	833	849	852	24,413	2,427	21,986
LFG and Biogas Flow to the Flare (l)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.9%	90%
LFG and Biogas Flow to the Flare (l)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LFG and Biogas Total Flow (KSCF)	1,359	1,292	1,385	1,714	1,759	1,716	1,695	1,539	1,478	1,670	1,654	1,708	1,712	47,842		
LFG and Biogas Total Flow (MMBT	704	660	733	871	887	859	862	808	801	856	833	849	852	24,413		
Average Methane Content (%)	51.2	50.5	52.3	50.2	49.8	49.5	50.3	51.9	53.5	50.7	49.7	49.1	49.2	50.4		
Engine 1 Hours	24	18	24	24	24	24	24	24	24	24	24	24	24	696		
Engine 2 Hours	24	19	24	24	24	24	24	24	24	24	24	24	24	521		
Engine 3 Hours	-	-	9	24	24	24	24	11	5	21	24	24	24	630		
Engine 4 Hours	24	24	24	24	24	24	23	24	24	24	24	24	24	649		
Generator 1 Power Output (kWhr)	16,314	13,312	15,700	17,978	16,780	16,644	17,072	18,418	19,832	18,396	16,782	16,786	16,346	530,856		
Generator 2 Power Output (kWhr)	16,742	13,998	15,938	17,978	17,730	16,196	16,890	18,412	19,820	19,246	16,782	16,780	16,778	536,630		
Generator 3 Power Output (kWhr)	-	-	4,688	13,950	16,200	16,190	16,196	-	6,906	3,242	10,860	14,404	14,400	460,526		
Generator 4 Power Output (kWhr)	16,658	16,140	15,900	17,944	17,942	16,724	15,682	18,108	19,454	19,324	17,704	16,738	16,730	486,752		
Gross Power Output (kWhr)	49,729	43,455	52,206	67,835	68,626	65,731	65,838	61,880	62,371	67,824	65,673	64,717	64,261	1,864,377		
Net Power Output (kWhr)	47,632	41,414	50,156	65,264	66,044	63,252	63,298	59,694	60,321	65,358	63,405	62,460	61,992	1,795,076		
Power Sold as metered by NStar, (l	47,484	41,310	50,043	65,079	65,860	63,089	63,120	59,536	60,136	65,136	63,202	62,266	61,802	1,789,992	CRMCB inplant	
Offgrid REC's (kWhr)	2,097	2,041	2,051	2,571	2,582	2,479	2,540	2,186	2,050	2,466	2,268	2,257	2,269	69,300	10,006	
Calculated Performance Results																
Daily																14%
Power output (kW average whe																of total in-plant power
Generator 1	680	740	654	749	699	694	711	767	826	767	699	699	681			
Generator 2	698	737	664	749	739	675	704	767	826	802	699	699	699			
Generator 3	-	-	521	581	675	675	675	628	648	517	600	600	600			
Generator 4	694	673	663	748	748	697	682	755	811	805	738	697	697			
Power output (kW average over																
Facility Gross	2,072	1,811	2,175	2,826	2,859	2,739	2,743	2,578	2,599	2,826	2,736	2,697	2,678			
Facility Net	1,985	1,726	2,090	2,719	2,752	2,636	2,637	2,487	2,513	2,723	2,642	2,603	2,583			
In-plant load	87	85	85	107	108	103	106	91	85	103	95	94	95			
Daily availability factor																
Facility	75%	64%	84%	100%	100%	100%	99%	86%	80%	97%	100%	100%	100%			
Engine 1	100%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 2	100%	79%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 3	0%	0%	38%	100%	100%	100%	100%	46%	21%	88%	100%	100%	100%			
Engine 4	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%			
Daily capacity factor																
Facility	63%	55%	66%	86%	87%	83%	83%	78%	79%	86%	83%	82%	81%			
Engine 1	82%	90%	79%	91%	85%	84%	86%	93%	100%	93%	85%	85%	83%			
Engine 2	85%	89%	80%	91%	90%	82%	85%	93%	100%	97%	85%	85%	85%			
Engine 3	0%	0%	63%	70%	82%	82%	82%	76%	79%	63%	73%	73%	73%			
Engine 4	84%	82%	80%	91%	91%	84%	83%	91%	98%	98%	89%	85%	84%			
Cumulative by engine																
Engine operating run hours in t																
Max Cumulative Available,	456	480	504	528	552	576	600	624	648	672	696	720	720			
Engine 1	414	432	456	480	504	528	552	576	600	624	648	672	672			
Engine 2	238	257	281	305	329	353	377	401	425	449	473	497	497			
Engine 3	416	416	425	449	473	497	521	532	537	558	582	606	606			
Engine 4	362	386	410	434	458	482	505	529	553	577	601	625	625			
Engine operating run hours tota																
Engine 1	84,412	84,430	84,454	84,478	84,502	84,526	84,550	84,574	84,598	84,622	84,646	84,670	84,670			
Engine 2	80,938	80,957	80,981	81,005	81,029	81,053	81,077	81,101	81,125	81,149	81,173	81,197	81,197			
Engine 3	84,115	84,115	84,124	84,148	84,172	84,196	84,220	84,231	84,236	84,257	84,281	84,305	84,305			
Engine 4	80,652	80,676	80,700	80,724	80,748	80,772	80,795	80,819	80,843	80,867	80,891	80,915	80,915			
Cumulative availability, %																
Engine 1	91%	90%	90%	91%	91%	92%	92%	92%	93%	93%	93%	93%	93%			
Engine 2	52%	54%	56%	58%	60%	61%	63%	64%	66%	67%	68%	69%	69%			
Engine 3	91%	87%	84%	85%	86%	86%	87%	85%	83%	83%	84%	84%	84%			
Engine 4	79%	80%	81%	82%	83%	84%	84%	85%	85%	86%	86%	87%	87%			
Engine cumulative gross output																
Max cumulative capacity on	15,675	16,500	17,325	18,150	18,975	19,800	20,625	21,450	22,275	23,100	23,925	24,750	24,750			
Engine 1	14,180	14,919	15,573	16,322	17,022	17,715	18,426	19,194	20,020	20,787	21,486	22,185	22,167			
Engine 2	8,208	8,945	9,609	10,358	11,097	11,772	12,475	13,243	14,068	14,870	15,570	16,269	16,269			
Engine 3	14,245	14,245	14,766	15,347	16,022	16,697	17,372	17,999	18,648	19,165	19,765	20,365	20,365			
Engine 4	12,522	13,195	13,857	14,605	15,353	16,049	16,731	17,486	18,296	19,101	19,839	20,537	20,536			
Cumulative capacity factor, %																
Engine 1	90%	90%	90%	90%	90%	89%	89%	89%	90%	90%	90%	90%	90%			
Engine 2	52%	54%	55%	57%	58%	59%	60%	62%	63%	64%	65%	66%	66%			
Engine 3	91%	86%	85%	85%	84%	84%	84%	84%	84%	83%	83%	82%	82%			
Engine 4	80%	80%	80%	80%	81%	81%	81%	82%	82%	83%	83%	83%	83%			
Cumulative by Facility in month																
Max cumulative available engin	1,824	1,920	2,016	2,112	2,208	2,304	2,400	2,496	2,592	2,688	2,784	2,880	2,880			
Actual cumulative engine run h	1,430	1,491	1,572	1,668	1,764	1,860	1,955	2,038	2,115	2,208	2,304	2,400	2,400			
Cumulative Availability, %	78.4%	77.7%	78.0%	79.0%	79.9%	80.7%	81.5%	81.7%	81.6%	82.1%	82.8%	83.3%	83.3%			
Max cumulative gross output, k	1,504,800	1,584,000	1,663,200	1,742,400	1,821,600	1,900,800	1,980,000	2,059,200	2,138,400	2,217,600	2,296,800	2,376,000	2,376,000			
Actual cumulative gross output,	1,113,960	1,157,415	1,209,621	1,277,456	1,346,082	1,411,813	1,477,651	1,539,531	1,601,902	1,669,726	1,735,399	1,800,116	1,799,660			
Cumulative Capacity Factor	74.0%	73.1%	72.7%	73.3%	73.9%	74.3%	74.6%	74.8%	74.9%	75.3%	75.6%	75.8%	75.7%			
Cumulative fuel input, MMBtu f	14,541	15,201	15,935	16,806	17,693	18,553	19,414	20,223	21,024	21,880	22,712	23,561	23,564			
Cumulative gross output, kWhr	1,113,960	1,157,415	1,209,621	1,277,456	1,346,082	1,411,813	1,477,651	1,539,531	1,601,902	1,669,726	1,735,399	1,800,116	1,799,660			
Heat Rate																
Daily heat rate, Btu/kWe gross	12,746	13,672	12,644	11,563	11,639	11,770	11,785	11,760	11,559	11,361	11,413	11,809	11,935			

		Tuesday 7/19/2016	Wednesday 7/20/2016	Thursday 7/21/2016	Friday 7/22/2016	Saturday 7/23/2016	Sunday 7/24/2016	Monday 7/25/2016	Tuesday 7/26/2016	Wednesday 7/27/2016	Thursday 7/28/2016	Friday 7/29/2016	Saturday 7/30/2016	Sunday 7/31/2016	TOTAL	Biogas	LFG
Daily heat rate, Btu/kWe gross		14,159	15,188	14,046	12,844	12,930	13,075	13,091	13,064	12,841	12,621	12,678	13,119	13,258			
Cumulative heat rate, Btu/kWe		11,751	11,823	11,858	11,843	11,832	11,829	11,827	11,825	11,814	11,796	11,781	11,782	11,787			
Cumulative heat rate, Btu/kWe		13,054	13,134	13,173	13,156	13,144	13,141	13,139	13,136	13,124	13,104	13,088	13,089	13,094			
Cumulative by Facility starting C.																	
Max cumulative available engine		16,124	16,220	16,316	16,412	16,508	16,604	16,700	16,796	16,892	16,988	17,084	17,180	17,180			
Actual cumulative engine run h		14,798	14,859	14,940	15,036	15,132	15,228	15,323	15,406	15,483	15,576	15,672	15,768	15,768			
Cumulative Availability, %		91.8%	91.6%	91.6%	91.6%	91.7%	91.7%	91.8%	91.7%	91.7%	91.7%	91.7%	91.8%	91.8%			
Max cumulative gross output, kW		13,302,300	13,381,500	13,460,700	13,539,900	13,619,100	13,698,300	13,777,500	13,856,700	13,935,900	14,015,100	14,094,300	14,173,500	14,173,500			
Actual cumulative gross output, kW		10,582,863	10,626,318	10,678,524	10,746,359	10,814,985	10,880,716	10,946,554	11,008,434	11,070,805	11,138,629	11,204,302	11,269,019	11,268,563			
Cumulative Capacity Factor		79.6%	79.4%	79.3%	79.4%	79.4%	79.4%	79.5%	79.4%	79.4%	79.5%	79.5%	79.5%	79.5%			
Cumulative fuel input, MMBtu		135,012	135,672	136,405	137,276	138,163	139,023	139,885	140,693	141,494	142,350	143,183	144,032	144,035			
Cumulative gross output, kWh		10,582,863	10,626,318	10,678,524	10,746,359	10,814,985	10,880,716	10,946,554	11,008,434	11,070,805	11,138,629	11,204,302	11,269,019	11,268,563			
Cumulative heat rate, Btu/kWe		11,484	11,493	11,499	11,499	11,500	11,502	11,504	11,505	11,505	11,504	11,504	11,506	11,506			
Cumulative heat rate, Btu/kWe		12,758	12,767	12,774	12,774	12,775	12,777	12,779	12,780	12,781	12,780	12,779	12,781	12,782			
Service																	
Engine 1																	
Engine 2																	
Engine 3																	
Engine 4																	
Starter failure *****																	
Oil - oil and filter change																	
Service - plugs, air filter, valve inspection																	
Precipitation																	
NSTAR Power Reports																	
Date		7/19/2016	7/20/2016	7/21/2016	7/22/2016	7/23/2016	7/24/2016	7/25/2016	7/26/2016	7/27/2016	7/28/2016	7/29/2016	7/30/2016	7/31/2016	TOTAL		
Hour																	
1		2,385	2,334	2,414	2,647	2,810	2,668	2,594	2,786	2,391	2,685	2,691	2,600	2,595			
2		2,380	2,328	2,408	2,640	2,804	2,721	2,588	2,780	2,385	2,685	2,685	2,594	2,590			
3		2,386	2,333	2,414	2,646	2,808	2,738	2,594	2,786	2,390	2,688	2,691	2,600	2,594			
4		2,387	2,333	2,415	2,645	2,808	2,739	2,595	2,688	2,390	2,788	2,691	2,601	2,596			
5		2,381	2,327	2,409	2,640	2,803	2,735	2,589	2,565	2,386	2,782	2,686	2,595	2,590			
6		2,387	2,333	2,415	2,645	2,807	2,740	2,595	2,570	2,393	2,787	2,691	2,601	2,594			
7		2,388	2,331	2,414	2,643	2,808	2,740	2,594	2,570	2,391	2,786	2,693	2,601	2,595			
8		2,372	2,300	2,403	2,632	2,788	2,640	2,586	2,563	2,383	2,751	2,687	2,593	2,562			
9		2,377	630	1,010	2,631	2,734	2,588	2,582	2,564	2,379	2,655	2,688	2,594	2,547			
10		2,376	394	553	2,631	2,732	2,588	2,579	2,563	2,378	2,654	2,677	2,594	2,548			
11		1,077	382	546	2,625	2,727	2,578	2,574	2,240	2,373	2,568	2,587	2,587	2,541			
12		380	387	595	2,629	2,728	2,582	2,575	2,321	2,377	2,389	2,593	2,592	2,546			
13		547	377	743	2,647	2,727	2,582	2,630	2,373	2,375	2,391	2,594	2,594	2,547			
14		541	370	736	2,766	2,719	2,575	2,642	2,367	2,365	2,387	2,586	2,589	2,540			
15		548	230	1,933	2,793	2,724	2,581	2,672	2,372	2,045	2,627	2,591	2,592	2,546			
16		1,676	766	2,858	2,795	2,725	2,586	2,721	2,374	2,399	2,869	2,592	2,592	2,547			
17		2,393	2,290	2,845	2,795	2,721	2,579	2,723	2,370	2,412	2,870	2,594	2,589	2,572			
18		2,397	2,411	2,853	2,801	2,725	2,589	2,091	2,377	2,936	2,841	2,600	2,593	2,593			
19		2,394	2,410	2,852	2,804	2,729	2,590	2,678	2,380	2,981	2,784	2,598	2,597	2,596			
20		2,381	2,405	2,642	2,801	2,728	2,587	2,779	2,380	2,978	2,782	2,594	2,593	2,591			
21		2,334	2,411	2,648	2,807	2,711	2,592	2,786	2,387	2,984	2,788	2,599	2,597	2,594			
22		2,334	2,411	2,649	2,807	2,666	2,592	2,786	2,389	2,984	2,788	2,600	2,595	2,594			
23		2,329	2,405	2,641	2,801	2,661	2,586	2,781	2,382	2,655	2,767	2,594	2,589	2,590			
24		2,334	2,412	2,647	2,808	2,667	2,593	2,786	2,389	2,406	2,691	2,600	2,594	2,594			
TOTAL		47,484	41,310	50,043	65,079	65,860	63,089	63,120	59,536	60,136	65,136	63,202	62,266	61,802			
Cumulative Output Sold, kW		1,069,413	1,110,723	1,160,766	1,225,845	1,291,705	1,354,794	1,417,914	1,477,450	1,537,586	1,602,722	1,665,924	1,728,190	1,789,992			
Transformer and line efficiency		99.7%	99.7%	99.8%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	0.0%		
Hourly average		1,979	1,721	2,085	2,712	2,744	2,629	2,630	2,481	2,506	2,714	2,633	2,594	2,575	2,406		

CRMC Bioenergy Biogas Flow Rate SCADA											
			Minutes	Totalizer Reading,	scfm	Tot KSCF	% Methane			Heat valued per time period,	Tot Heat value
Data Point	Date	Time	in Period	KSCF		in month	Month	End	Start	MMBtu	in month, MMBtu
2016-61	1-Jul-16	0:00	3,630	1,019.98	99	1,274.29		72%	72%	263.1	933.7
2016-62	1-Jul-16	11:25	685	1,088.12	99			72%	70%	49.0	
2016-63	15-Jul-16	10:18	20,093	2,543.53	72			70%	70%	1,031.0	
2016-64	18-Jul-16	10:23	4,325	2,882.87	78			70%	70%	240.4	
2016-65	19-Jul-16	9:28	1,385	2,975.71	67			70%	70%	65.8	
2016-66	22-Jul-16	9:42	4,334	3,376.55	92			70%	70%	284.0	
2016-67	22-Jul-16	9:42	-	-	-	Reset to 0		70%	70%		
2016-68	29-Jul-16	12:09	10,227	886.58	87			70%	70%	628.1	
2016-69	1-Aug-16	0:00	3,591	1,069.14	51	3,425.71		70%	70%	129.3	2,427.5
2016-70	1-Aug-16	11:20	680	1,103.71	51			70%	70%	24.5	
2016-71	5-Aug-16	13:29	5,889	1,514.32	70			70%	70%	290.9	
2016-72	11-Aug-16	11:26	8,517	2,285.05	90			70%	70%	546.0	
2016-73	15-Aug-16	12:00	5,794	2,709.63	73			70%	72%	305.1	
2016-74	15-Aug-16	12:00	-	-	-	Reset to 0		72%	72%		
2016-75	16-Aug-16	13:33	1,533	54.91	36			72%	72%	40.0	
2016-76	24-Aug-16	9:54	11,301	712.25	58			72%	72%	479.0	
2016-77	1-Sep-16	0:00	10,926	1,400.38	63	3,040.87		72%	72%	501.4	2,186.8
2016-78	1-Sep-16	10:45	645	1,441.00	63			72%	72%	29.6	
2016-79	12-Sep-16	9:35	15,770	2,628.13	75			72%	72%	865.0	
2016-80	20-Sep-16	15:37	11,882	3,354.42	61			72%	72%	529.2	
2016-81	22-Sep-16	15:07	2,850	3,468.74	40			72%	72%	83.3	
2016-82	28-Sep-16	12:00	8,453	4,352.84	105			72%	72%	644.2	
2016-83	1-Oct-16	0:00	3,600	4,705.12	98	3,304.74		72%	72%	256.7	2,408.0
2016-84	3-Oct-16	9:41	3,461	5,043.80	98			72%	72%	246.8	
2016-85	17-Oct-16	14:25	20,444	6,568.03	75			72%	72%	1,110.6	
2016-86	20-Oct-16	16:37	4,452	6,939.36	83			72%	72%	270.6	
2016-87	24-Oct-16	12:04	5,487	7,384.04	81			72%	72%	324.0	
2016-88	27-Oct-16	14:39	4,475	7,629.42	55			72%	72%	178.8	
2016-89	1-Nov-16	0:00	6,321	7,729.69	16	3,024.57		72%	72%	73.1	2,203.8
2016-90	1-Nov-16	9:55	595	7,739.13	16			72%	72%	6.9	
2016-91	15-Nov-16	12:18	20,303	8,943.65	59			72%	72%	877.7	
2016-92	18-Nov-16	15:43	4,525	9,114.97	38			72%	72%	124.8	
2016-93	26-Nov-16	11:30	11,267	9,532.95	37			72%	72%	304.6	
2016-94	1-Dec-16	0:00	6,510	9,757.04	34	2,027.34		72%	72%	163.3	1,477.2
2016-95	1-Dec-16	8:57	537	9,775.52	34			72%	72%	13.5	
2016-96	8-Dec-16	16:07	10,510	10,142.05	35			72%	72%	267.1	
2016-97	12-Dec-16	10:36	5,429	10,352.59	39			72%	72%	153.4	
2016-98	13-Dec-16	9:50	1,394	10,405.21	38			72%	72%	38.3	
2016-99	15-Dec-16	10:34	2,924	10,514.63	37			72%	72%	79.7	
2016-100	16-Dec-16	11:09	1,475	10,575.08	41			74%	74%	45.3	
2016-101	19-Dec-16	10:12	4,263	10,729.48	36			78%	78%	121.9	
2016-102	20-Dec-16	9:13	1,381	10,780.55	37			78%	78%	40.3	
2016-103	22-Dec-16	10:23	2,950	10,886.08	36			78%	78%	83.3	
2016-104	27-Dec-16	10:24	7,201	11,129.36	34			78%	78%	192.0	
2016-105	28-Dec-16	9:36	1,392	11,175.26	33			78%	78%	36.2	
2016-106	29-Dec-16	10:34	1,498	11,228.06	35			78%	78%	41.7	
2016-107	29-Dec-16	14:40	246	11,237.34	38			78%	78%	7.3	
2016-108	30-Dec-16	9:00	1,100	11,280.83	40			78%	78%	34.3	
2016-94	31-Dec-16	0:00	900	11,315.41	38	1,558.37		78%	78%	27.3	1,181.7
2016-109	3-Jan-17	9:16	4,876	11,502.75	38			76%	76%	144.1	
2016-110	4-Jan-17	9:35	1,459	11,553.13	35			74%	74%	37.7	
2016-111	5-Jan-17	11:22	1,547	11,610.89	37			72%	72%	42.1	
2016-112	9-Jan-17	9:58	5,676	11,839.32	40			70%	70%	161.8	
2016-113	9-Jan-17	11:19	81	11,840.64	16			70%	70%	0.9	
2016-114	9-Jan-17	11:19	-	-	-	Reset to 0		70%	70%		
2016-115	10-Jan-17	9:58	1,359	23.99	18			70%	70%	17.0	
2016-116	12-Jan-17	9:06	2,828	102.87	28			70%	70%	55.9	

Data Point	Date	Time	Minutes in Period	Totalizer Reading, KSCF	scfm	Tot KSCF in month	% Methane			Heat valued per time period, MMBtu	Tot Heat value in month, MMBtu
							Month	End	Start		
2016-117	13-Jan-17	9:43	1,477	153.68	34			70%	70%	36.0	
2016-118	16-Jan-17	12:12	4,469	252.29	22			70%	70%	69.9	
2016-118	19-Jan-17	15:57	4,545	366.20	25			70%	70%	80.7	
2016-119	20-Jan-17	9:48	1,071	406.35	37			70%	70%	28.4	
2016-120	23-Jan-17	10:05	4,337	556.72	35			70%	70%	106.5	
2016-121	24-Jan-17	10:00	1,435	607.67	36			70%	70%	36.1	
2016-122	25-Jan-17	9:21	1,401	663.63	40			70%	70%	39.6	
2016-123	26-Jan-17	12:14	1,613	723.11	37			70%	70%	42.1	
2016-124	30-Jan-17	9:15	5,581	904.75	33			70%	70%	128.7	
2016-125	1-Feb-17	0:00	2,325	982.60	33	1,507.83		70%	70%	55.1	1,082.7
2016-126	1-Feb-17	12:00	720	1,006.71	33			70%	70%	17.1	
2016-127	7-Feb-17	9:22	8,482	1,293.46	34			70%	72%	206.0	
2016-128	8-Feb-17	10:28	1,506	1,344.03	34			72%	72%	36.8	
2016-129	13-Feb-17	10:01	7,173	1,561.77	30			72%	72%	158.7	
2016-130	21-Feb-17	14:18	11,777	1,929.96	31			72%	72%	268.3	
2016-131	22-Feb-17	9:41	1,163	1,979.45	43			72%	72%	36.1	
2016-132	24-Feb-17	12:59	3,078	2,096.41	38			72%	72%	85.2	
2016-133	28-Feb-17	3:08	5,169	2,298.29	39			72%	72%	147.1	
2016-134	1-Mar-17	0:00	1,252	2,326.52	23	1,343.91		72%	72%	20.6	975.8
2016-135	1-Mar-17	10:19	619	2,340.47	23			72%	72%	10.2	
2016-136	3-Mar-17	12:15	2,996	2,446.54	35			72%	72%	77.3	
2016-137	13-Mar-17	9:53	14,258	2,895.16	31			72%	72%	326.9	
2016-138	14-Mar-17	10:15	1,462	2,932.21	25			72%	72%	27.0	
2016-139	17-Mar-17	8:47	4,232	3,068.68	32	Wecare addition		72%	72%	99.4	
2016-140	18-Mar-17	9:45	1,498	3,119.19	34			72%	72%	36.8	
2016-141	20-Mar-17	10:30	2,925	3,210.19	31			72%	72%	66.3	
2016-142	20-Mar-17	10:30	-	-		Reset to 0		72%	72%		
2016-143	21-Mar-17	11:07	1,477	55.49	38			72%	72%	40.4	
2016-144	23-Mar-17	9:47	2,800	175.44	43			72%	72%	87.4	
2016-145	24-Mar-17	10:53	1,506	235.95	40			72%	72%	44.1	
2016-146	28-Mar-17	13:27	5,914	441.14	35			72%	72%	149.5	
2016-147	30-Mar-17	17:11	3,104	537.22	31			72%	72%	70.0	
2016-148	31-Mar-17	12:33	1,162	576.09	33			72%	72%	28.3	
2016-149	31-Mar-17	20:28	475	593.11	36			72%	72%	12.4	
2016-150	1-Apr-17	0:00	212	601.02	37	1,484.69		72%	72%	5.8	1,081.8
2016-151	3-Apr-17	8:40	3,400	740.00	41			72%	72%	101.3	
2016-152	3-Apr-17	8:40	-	-		Reset to 0		72%	72%		
2016-153	3-Apr-17	11:08	148	5.50	37			72%	72%	4.0	
2016-154	4-Apr-17	10:11	1,383	50.50	33			72%	72%	32.8	
2016-155	10-Apr-17	11:23	8,712	280.47	26			72%	72%	167.6	
2016-156	11-Apr-17	10:01	1,358	333.61	39			72%	72%	38.7	
2016-157	11-Apr-17	19:46	585	355.08	37			72%	72%	15.6	
2016-158	12-Apr-17	11:00	914	390.00	38	Reset to 0		72%	72%	25.4	
2016-159	12-Apr-17	11:00	-	-				72%	72%		
2016-160	13-Apr-17	9:49	1,369	42.62	31			72%	72%	31.1	
2016-161	14-Apr-17	9:15	1,406	85.00	30			72%	72%	30.9	
2016-162	17-Apr-17	8:42	4,287	267.95	43			72%	72%	133.3	
2016-163	18-Apr-17	9:25	1,483	336.60	46			72%	72%	50.0	
2016-164	19-Apr-17	15:29	1,804	435.00	55			72%	72%	71.7	
2016-165	19-Apr-17	15:29	-	-		Reset to 0		72%	72%		
2016-166	20-Apr-17	10:07	1,118	48.84	44			72%	72%	35.6	
2016-167	21-Apr-17	10:37	1,470	90.07	28			72%	72%	30.0	
2016-168	24-Apr-17	11:04	4,347	225.47	31			72%	72%	98.7	
2016-170	25-Apr-17	23:00	2,156	-		Reset to 0		72%	72%		
2016-171	26-Apr-17	8:42	582	23.35	40			72%	72%	17.0	
2016-172	1-May-17	0:00	6,678	240.51	33	1,165.57		72%	72%	158.2	1,047.7
2016-173	1-May-17	11:00	660	261.97	33			72%	72%	15.6	

Exhibit 6

Calibration of the LFG and biogas flow rates and composition meters for the periods.

Landfill Gas Flow Calculation												
Crapo Hill Landfill, New Bedford/Dartmouth, Massachusetts												
Note: Calculation of volumetric flow of LFG through a pipe using a pitot tube and manometer.												
		Engine 1, kW	830	700	680	750	800	750	800	850	800	800
		Engine 2, kW	-	700	650	770	800	700	800	820	820	-
		Engine 3, kW	790	635	500	400	700	600	250	-	820	650
		Engine 4, kW	830	700	650	750	650	600	800	820	-	815
		Gross, kW	2,450	2,735	2,480	2,670	2,950	2,650	2,650	2,490	2,440	2,265
MEASURING INSTRUMENT:		Pitot Tube:	166	166	166	166	166	166	166	166	166	166
		Manometer:	Dwyer Mark II	Dwyer Mark II	Dwyer Mark II	Dwyer Mark II	Dwyer Mark II	Dwyer Mark II	Dwyer Mark II	Dwyer Mark II	Dwyer Mark II	Dwyer Mark II
DATE OF MEASUREMENT:			7-Jul-16	3-Aug-16	2-Sep-16	7-Oct-16	8-Nov-16	7-Dec-16	11-Jan-17	2-Feb-17	9-Mar-17	19-Apr-17
TIME OF MEASUREMENT:			10:30	11:30	11:30	9:00	11:30	11:00	10:00	11:00	11:30	11:50
PARAMETERS		UNITS	VALUES	VALUES	VALUES	VALUES	VALUES	VALUES	VALUES	VALUES	VALUES	VALUES
Pipe dimensions												
	Inside Diameter	inches	10.420	10.420	10.420	10.420	10.420	10.420	10.420	10.420	10.420	10.420
	Area of cross section	square feet	0.5922	0.5922	0.5922	0.5922	0.5922	0.5922	0.5922	0.5922	0.5922	0.5922
Flow Calculation												
Kp	pitot tube constant	ft/sec((lb/lb-mole)(in. Hg)/(R)(in H20))*1/2	85.49	85.49	85.49	85.49	85.49	85.49	85.49	85.49	85.49	85.49
Cp	Pitot tube coefficient	dimensionless	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
dP	Average velocity pressure of stack gas	in H2O	0.221	0.284	0.254	0.234	0.268	0.227	0.227	0.187	0.208	0.178
Blower Inlet												
Ts	Stack temperature	Degrees Fahrenheit	85	85	84	82	78	74	70	68	70	75
		Degrees Rankine	545	545	544	542	538	534	530	528	530	535
Pg	Stack static pressure	inch H2O	-60	-60	-59	-60	-60	-60	-60	-62	-63	-65
		inch Hg	(4.41)	(4.41)	(4.34)	(4.41)	(4.41)	(4.41)	(4.41)	(4.56)	(4.63)	(4.78)
Ps	Absolute stack gas pressure	inch Hg	25.39	25.74	25.66	25.86	25.73	25.92	25.89	25.44	25.22	25.74
Blower Outlet												
Ts	Stack temperature	Degrees Fahrenheit	125	123	125	120	116	118	116	115	116	116
		Degrees Rankine	585	583	585	580	576	578	576	575	576	576
Pg	Stack static pressure	inch H2O	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	52.6	52.6
		inch Hg	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	3.87	3.87
		psig	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.90	1.90
Pbar	Barometric pressure	inch Hg	29.80	30.15	30.00	30.27	30.14	30.33	30.30	30.00	29.85	30.52
Ps	Absolute stack gas pressure	inch Hg	33.87	34.22	34.07	34.34	34.21	34.40	34.37	34.07	33.72	34.39
Ms	Molecular weight of stack gas, wet	lb/lb-mole	28.13	28.15	27.42	26.73	27.18	27.15	27.55	27.96	27.45	27.84
Vs	Average stack gas velocity	feet per second	35.1	39.5	37.9	36.7	38.8	35.5	35.1	31.8	34.1	31.1
Qact	Volumetric Flow	actual cubic feet per minute	1,248	1,405	1,347	1,302	1,379	1,260	1,247	1,131	1,212	1,107
Qstd	Volumetric Flow at actual methane content	standard cubic feet per minute *	1,026	1,171	1,121	1,096	1,163	1,079	1,075	961	1,017	939
Qstd corr	Volumetric Flow at 50% methane	standard cubic feet per minute **	1,005	1,148	1,178	1,224	1,252	1,180	1,133	952	1,074	939
Ht HHV	Heat input	MMBtu per hour HHV	30.52	34.84	35.75	37.15	38.01	35.84	34.39	28.90	32.61	28.52
Ht LHV	Heat input	MMBtu per hour LHV	27.47	31.36	32.18	33.44	34.21	32.26	30.96	26.01	29.36	25.68
	Methane Content	%, vol/vol wet	49.00%	49.00%	52.50%	55.80%	53.80%	54.70%	52.70%	49.50%	52.80%	50.00%
Diff. between pitot tube and orifice reading:			-0.1%	0.8%	0.0%	0.7%	1.5%	-1.2%	-1.1%	1.1%	0.9%	1.3%
dP	Delta pressure across orifice plate	inches H2O	8.40	10.50	9.90	9.10	10.10	9.10	9.00	7.00	8.00	6.50
Qact	Volumetric Flow	acfm	1,005	1,122	1,091	1,042	1,093	1,040	1,032	910	976	880
Qstd	Volumetric Flow at actual methane content	standard cubic feet per minute *	1,027	1,162	1,121	1,088	1,146	1,092	1,087	951	1,008	927
Qstd	Volumetric Flow at 50% methane	standard cubic feet per minute **	1,006	1,139	1,177	1,215	1,233	1,195	1,146	942	1,065	927
Ht HHV	Heat input	MMBtu per hour HHV	30.55	34.57	35.75	36.87	37.44	36.27	34.78	28.59	32.33	28.14
Ht LHV	Heat input	MMBtu per hour LHV	27.50	31.12	32.18	33.19	33.71	32.65	31.31	25.73	29.10	25.33
* Standard conditions are corrected to 68 degrees F and 29.92 in Hg at actual methane content.												
** Standard conditions corrected to 50 % methane content.												
Input values are in blue or bold.												
Calculated output values are in black or not bold.												
Calculation Formulas:												
Vs = Kp*Cp*(sqrt dP) * sqrt (Ts/(Ps*Ms))												
Qact = Vs * A * 60												
Qstd = Qact * Tstd/ Ts * Ps/Pstd												
Flow, ACFM = 96.3221*SQRT(dP)*SQRT((460+Temperature)/(2.703*(Pressure +14.7)))												
Conversions and constants												
13.5958 in H2O/in Hg												
1 PSI = 2.036 in HG												
1 PSI = 27.68 in WG												
Tstd = 528 degrees R												
Pstd = 29.92 in Hg												
Methane heat content = 1,012 BTU per scf HHV												
Methane heat content = 911 BTU per scf LHV												

Landfill Gas Flow Measurements										
Crapo Hill Landfill, New Bedford/Dartmouth, Massachusetts										
Measurements by	TY/RB	TY/RB	TY/RB	TY/RB	TY/RB	TY/RB	TY/RB	TY/RB	TY/RB	TY/RB
Date	7-Jul-16	3-Aug-16	2-Sep-16	7-Oct-16	8-Nov-16	7-Dec-16	11-Jan-17	2-Feb-17	9-Mar-17	19-Apr-17
Time	10:30	11:30	11:30	9:00	11:30	11:00	10:00	11:00	11:30	11:50
Flow valve										
Pipe inside diameter, inches	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42
Orifice measurement, cfm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ambient Temperature, F	76	69	69	57	41	37	48	35	50	41
Barometric Pressure, In Hg	29.80	30.15	30.00	30.27	30.14	30.33	30.30	30.00	29.85	30.52
Blower Inlet Temperature, F	85	85	84	82	78	74	70	68	70	75
Outlet Temperature, F	125	123	125	120	116	118	116	115	116	116
Blower Inlet Pressure (SP), In H2O	-60	-60	-59	-60	-60	-60	-60	-62	-63	-65
Blower Outlet Pressure, PSIG	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9
Blower Outlet Pressure, In H2O	55.36	55.36	55.36	55.36	55.36	55.36	55.36	55.36	52.59	52.59
Measurement										
Manometer										
Pitot Tube										
Velocity Pressure (dP)										
Point										
1	0.21	0.28	0.25	0.23	0.26	0.22	0.22	0.18	0.20	0.17
2	0.21	0.28	0.25	0.23	0.27	0.22	0.22	0.18	0.21	0.18
3	0.22	0.29	0.26	0.23	0.27	0.23	0.23	0.19	0.21	0.18
4	0.22	0.29	0.26	0.24	0.27	0.23	0.23	0.19	0.21	0.18
5	0.23	0.29	0.26	0.24	0.27	0.23	0.23	0.19	0.21	0.18
6	0.23	0.29	0.26	0.24	0.27	0.23	0.23	0.19	0.21	0.18
7	0.23	0.29	0.26	0.24	0.27	0.23	0.23	0.19	0.21	0.18
8	0.23	0.28	0.25	0.23	0.27	0.23	0.23	0.19	0.21	0.18
9	0.21	0.27	0.24	0.23	0.26	0.22	0.22	0.18	0.20	0.17
Average	0.221	0.284	0.254	0.234	0.268	0.227	0.227	0.187	0.208	0.178
Gas Composition										
Compound, %v/v										
Methane (CH4)	49.0%	49.0%	52.5%	55.8%	53.8%	54.7%	52.7%	49.5%	52.8%	50.0%
Carbon dioxide (CO2)	39.8%	39.9%	38.0%	36.0%	37.0%	37.2%	38.0%	38.0%	37.5%	38.0%
Oxygen (O2)	1.20%	1.30%	1.00%	1.00%	1.20%	1.10%	1.00%	1.30%	1.00%	1.10%
Balance gas	10.00%	9.80%	8.50%	7.20%	8.00%	7.00%	8.30%	11.20%	8.70%	10.90%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Moisture (H2O) (included in balance gas)	4.1%	4.1%	4.0%	3.7%	3.3%	2.8%	2.5%	2.3%	2.5%	2.8%
Molecular weight, lb/lb-mole wet	28.13	28.15	27.42	26.73	27.18	27.15	27.55	27.96	27.45	27.84

Biogas Flow Measurements									
$Q = \sqrt{\frac{dP}{S_s} \cdot \frac{(T + 460)}{(K^2 \cdot D^4 \cdot P \cdot 16590)}}$									
		SCADA Reading				SCADA Reading	P	P	T
		Pre-calibration	Measured	Measured	Difference between	Post-calibration	static pressure	static pressure	temperature
Month	Date	flow rate, scfm	dP, inch WG	flow rate, scfm	Measured and SCADA, %	flow rate, scfm	inch WG	psia	F
Jul-16	7-Jul-16	70	1.1	69	1.4%	70	-30	13.61	85
Aug-16	3-Aug-16	60	0.8	59	1.9%	60	-30	13.61	85
Sep-16	2-Sep-16	60	0.8	59	1.9%	60	-30	13.61	85
Oct-16	7-Oct-16	72	1.2	72	-0.1%	72	-30	13.61	85
Nov-16	8-Nov-16	35	0.28	35	0.5%	35	-30	13.61	85
Dec-16	7-Dec-16	35	0.28	35	0.5%	35	-30	13.61	85
Jan-17	11-Jan-17	35	0.28	35	1.2%	35	-35	13.43	85
Feb-17	2-Feb-17	33	0.26	34	-3.0%	33	-35	13.43	85
Mar-17	9-Mar-17	33	0.25	33	0.0%	33	-35	13.43	85
Apr-17	19-Apr-17	55	0.68	55	0.0%	55	-35	13.43	85

CommonWealth New Bedford Energy, LLC
 Greater New Bedford LFG Utilization Project
 300 Samuel Barnett Blvd.
 New Bedford, Massachusetts
 (508) 985-0923

'California Analytical' Analyzer Calibration Results

Month: July 2016		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
7/3/16	7/8/16	86 Deg F	55%	54.20%	51.92%	0.02%	54.25%	52.15%
7/10/16	7/14/16	86 Deg F	55%	54.20%	51.39%	0.38%	54.30%	51.30%
7/17/16	7/22/16	89 Deg F	55%	54.12%	49.58%	0.25%	54.32%	50.15%
7/24/16	7/29/16	90 Deg F	55%	54.10%	48.37%	0.48%	54.54%	48.24%

CommonWealth New Bedford Energy, LLC
 Greater New Bedford LFG Utilization Project
 300 Samuel Barnett Blvd.
 New Bedford, Massachusetts
 (508) 985-0923

'California Analytical' Analyzer Calibration Results

Month: August 2016		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
7/31/16	8/4/16	91 Deg F	55%	54.07%	57.67%	0.02%	54.25%	57.62%
8/7/16	8/12/16	91 Deg F	55%	54.07%	51.65%	0.07%	54.32%	51.15%
8/14/16	8/18/16	91 Deg F	55%	54.07%	53.09%	0.10%	54.15%	53.00%
8/21/16	8/23/16	91 Deg F	55%	54.07%	52.37%	0.20%	54.08%	53.22%

CommonWealth New Bedford Energy, LLC
 Greater New Bedford LFG Utilization Project
 300 Samuel Barnett Blvd.
 New Bedford, Massachusetts
 (508) 985-0923

'California Analytical' Analyzer Calibration Results

Month: September 2016		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
8/28/16	9/1/16	91 Deg F	55%	54.07%	53.10%	0.01%	54.23%	53.19%
9/4/16	9/8/16	89 Deg F	55%	54.12%	54.70%	0.42%	54.25%	54.79%
9/11/16	9/16/16	90 Deg F	55%	54.10%	53.10%	0.70%	54.47%	54.40%
9/18/16	9/22/16	91 Deg F	55%	54.07%	54.62%	0.02%	54.17%	54.67%
9/25/16	9/30/16	88 Deg F	55%	54.15%	53.76%	0.01%	54.74%	53.92%

CommonWealth New Bedford Energy, LLC
 Greater New Bedford LFG Utilization Project
 300 Samuel Barnett Blvd.
 New Bedford, Massachusetts
 (508) 985-0923

‘California Analytical’ Analyzer Calibration Results

Month: October 2016		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
10/2/16	10/7/16	88 Deg F	55%	54.15%	54.68%	0.35%	54.18%	54.62%
10/9/16	10/13/16	82 Deg F	55%	54.28%	54.35%	0.22%	54.65%	54.39%
10/16/16	10/21/16	87 Deg F	55%	54.17%	56.45%	0.50%	54.83%	56.59%
10/23/16	10/28/16	84 Deg F	55%	54.24%	54.13%	0.02%	54.09%	54.56%

CommonWealth New Bedford Energy, LLC
 Greater New Bedford LFG Utilization Project
 300 Samuel Barnett Blvd.
 New Bedford, Massachusetts
 (508) 985-0923

'California Analytical' Analyzer Calibration Results

Month: November 2016		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
10/30/16	11/3/16	84 Deg F	55%	54.24%	55.42%	0.02%	53.85%	55.52%
11/6/16	11/10/16	82 Deg F	55%	54.28%	53.05%	-0.01%	54.02%	53.65%
11/13/16	11/18/16	81 Deg F	55%	54.30%	52.38%	0.20%	53.95%	53.02%
11/20/16	11/21/16	79 Deg F	55%	54.34%	54.61%	0.30%	53.74%	55.46%

CommonWealth New Bedford Energy, LLC
 Greater New Bedford LFG Utilization Project
 300 Samuel Barnett Blvd.
 New Bedford, Massachusetts
 (508) 985-0923

'California Analytical' Analyzer Calibration Results

Month: December 2016		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
11/27/16	12/2/16	77 Deg F	55%	54.38%	54.57%	0.12%	55.56%	54.50%
12/4/16	12/6/16	76 Deg F	55%	54.40%	53.36%	-0.38%	54.41%	53.07%
12/11/16	12/14/16	74 Deg F	55%	54.44%	55.14%	-0.13%	55.38%	53.30%
12/18/16	12/22/16	71 Deg F	55%	54.49%	52.35%	-0.22%	54.77%	53.02%
12/25/16	12/30/16	71 Deg F	55%	54.49%	52.38%	0.25%	55.03%	52.49%

CommonWealth New Bedford Energy, LLC
 Greater New Bedford LFG Utilization Project
 300 Samuel Barnett Blvd.
 New Bedford, Massachusetts
 (508) 985-0923

'California Analytical' Analyzer Calibration Results

Month: Jan 2017		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
1/1/17	1/5/17	68	55%	54.53%	51.39%	0.01%	55.24%	51.30%
1/8/17	1/12/17	68	55%	54.53%	53.46%	0.04%	54.75%	53.42%
1/15/17	1/19/17	69	55%	54.52%	51.80%	0.02%	55.19%	51.75%
1/22/17	1/23/17	68	55%	54.53%	50.94%	0.02%	55.17%	50.46%

CommonWealth New Bedford Energy, LLC
 Greater New Bedford LFG Utilization Project
 300 Samuel Barnett Blvd.
 New Bedford, Massachusetts
 (508) 985-0923

‘California Analytical’ Analyzer Calibration Results

Month: Feb 2017		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
2/5/17	2/6/17	66 Deg F	55%	54.56%	52.40%	0.18%	54.75%	52.17%
2/12/17	2/15/17	66 Deg F	55%	54.56%	54.75%	0.12%	54.74%	54.65%
2/19/17	2/24/17	66 Deg F	55%	54.56%	51.27%	-0.45%	54.05%	50.88%

CommonWealth New Bedford Energy, LLC
 Greater New Bedford LFG Utilization Project
 300 Samuel Barnett Blvd.
 New Bedford, Massachusetts
 (508) 985-0923

'California Analytical' Analyzer Calibration Results

Month: March 2017		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
2/26/17	3/2/17	68 Deg F	55%	54.53%	57.10%	0.20%	54.78%	54.69%
3/5/17	3/10/17	67 Deg F	55%	54.55%	51.57%	0.04%	53.92%	51.24%
3/12/17	3/15/17	64 Deg F	55%	54.59%	50.72%	0.02%	55.45%	50.78%
3/19/17	3/24/17	65 Deg F	55%	54.58%	49.98%	-0.07%	54.97%	50.38%
3/26/17	3/30/17	65 Deg F	55%	54.58%	51.58%	0.02%	55.54%	51.50%

CommonWealth New Bedford Energy, LLC
 Greater New Bedford LFG Utilization Project
 300 Samuel Barnett Blvd.
 New Bedford, Massachusetts
 (508) 985-0923

'California Analytical' Analyzer Calibration Results

Month: April 2017		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
4/2/17	4/5/17	66 Deg F	55%	54.56%	52.02%	-0.07%	54.16%	52.83%
4/9/17	4/12/17	77 Deg F	55%	54.46%	49.78%	-0.02%	54.25%	49.91%
4/16/17	4/19/17	77 Deg F	55%	54.46%	49.50%	0.02%	54.60%	49.60%
4/23/17	4/27/17	76 Deg F	55%	54.46%	51.94%	0.01%	54.42%	51.98%

CRMC Bioenergy LLC						
Biogas Methane Calibration						
		SCADA Reading		Measured		SCADA Reading
		Pre-calibration	Calibration	Calibration	Difference between	Pre-calibration
Month	Date	Methane, %	Methane, %	Methane, %	Measured and SCADA, %	Methane, %
Jul-16	7-Jul-16	70.0%	55.0%	55.1%	-0.2%	70.0%
Aug-16	3-Aug-16	70.0%	55.0%	55.0%	0.0%	70.0%
Sep-16	2-Sep-16	72.0%	55.0%	55.1%	-0.2%	72.0%
Oct-16	7-Oct-16	72.0%	55.0%	54.9%	0.2%	72.0%
Nov-16	8-Nov-16	72.0%	55.0%	55.0%	0.0%	72.0%
Dec-16	7-Dec-16	72.0%	55.0%	55.0%	0.0%	72.0%
Jan-17	11-Jan-17	70.0%	55.0%	55.2%	-0.4%	70.0%
Feb-17	2-Feb-17	70.0%	55.0%	55.3%	-0.5%	70.0%
Mar-17	9-Mar-17	72.0%	55.0%	54.8%	0.4%	72.0%
Apr-17	19-Apr-17	72.0%	55.0%	55.3%	-0.5%	72.0%

CERTIFICATION OF CALIBRATION

ISSUED BY: QED Environmental Systems, Inc. Services Facility

Date Of Calibration: March 2, 2017

Certificate Number: GM10457_8/31624



PJLA
Calibration

No. 66916

Page 1 of 2

Approved By Signatory

Dan McCarty
Laboratory Inspection



QED Environmental Systems, Inc. Services Facility,
2355 Bishop Circle West, Dexter, MI 48130
www.qedenv.com

Customer: Greater New Bedford Refuse

300 Samuel Barnet Blvd.
Management District
New Bedford MA 02745
USA

Description: Gas Analyser

Model: GEM2000

Serial Number: GM10457

Accredited Results:

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.41
15.0	15.0	0.65
50.0	49.5	1.05

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.8	0.43
15.0	14.8	0.71
50.0	50.4	1.20

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
20.7	20.7	0.25

Gas cylinders are traceable and details can be provided if requested.

CH₄, CO₂ readings recorded at: 31.4 °C/88.5 °F

Barometric Pressure: 29.16 "Hg

O₂ readings recorded at: 22.1 °C/71.7 °F

Method of Test: The analyzer is calibrated in a temperature controlled chamber using reference gases. All analyzers are calibrated in accordance with our procedure ISP-17 using high purity grade gas.

All calibrations are performed in accordance with ISO 17025 at LANDTEC, an ISO 17025:2005 – accredited service facility through PJLA.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST requirements.

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

CERTIFICATE OF CALIBRATION

Certificate number:

GM10457_10/30603

Date of calibration:

Wednesday, October 05, 2016

Product:

GEM2000

Serial number:

GM10457

Calibration temperature range:

N/A

Primary Gas Channels

Methane (CH4)		Carbon Dioxide (CO2)	
Certified Gas (%)	Reading (%)	Certified Gas (%)	Reading (%)
5.00	5.3	5.00	5.3
15.00	15.4	15.00	15.7
50.00	50.8	50.00	51.7

Oxygen (O2)	
Certified Gas (%)	Reading (%)
20.70	20.5

Barometer	
Certified (mbar / "Hg)	Reading (mbar / "Hg)
0983 / 29.03	0986 / 29.11

Approved by: Dan McCarty

(Name)

(Signature)

All gases are traceable to certified National Standards

As the Manufacturer, we recommend that this unit be Serviced in accordance with the date specified by the analyser. This is to be done ONLY by a QED Environmental Inc approved Service Facility.

Exhibit 7

Attestation Statement

Attestation Statement

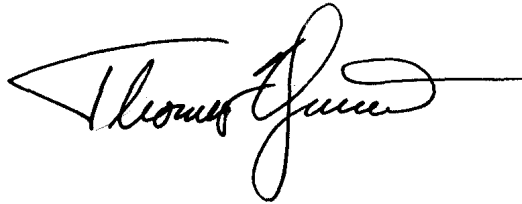
As an officer of Commonwealth New Bedford Energy LLC (CNBE) I hereby certify that the verified carbon units (VCUs) verified under the verified carbon standard (VCS) for the period July 1, 2016 through April 30, 2017 from the Project Activity will be registered on the Markit Environmental Registry (formerly TZ1) only, which is an accredited VCS register.

Thomas Yeransian

Name

Principal of Commonwealth Resource Management Corporation,
Member of Commonwealth New Bedford Energy LLC

Title

A handwritten signature in black ink, appearing to read "Thomas Yeransian", with a long horizontal flourish extending to the right.

Signature

May 26, 2017

Date