

MONITORING REPORT #2016-1
FOR THE GREATER NEW BEDFORD LFG
UTILIZATION PROJECT
DARTMOUTH, MASSACHUSETTS

FOR VERIFICATION PERIOD
MARCH 29, 2016 THROUGH JUNE 30, 2016

SEPTEMBER 23, 2016

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1.0 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 23,061 metric tons of CO₂e for the verification period March 29, 2016 through June 30, 2016.

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

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1.4 Other Entities Involved in the Project None**1.5 Project Start Date**

January 1, 2002

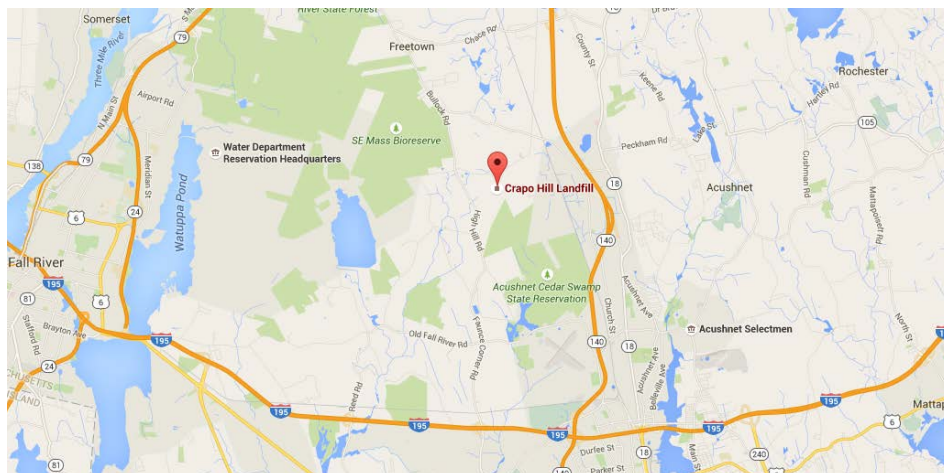
1.6 Project Crediting Period

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.

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 $F_{CH4,BL,y}$

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.

3 DATA AND PARAMETERS

3.1 Data and Parameters Available at Validation

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 data or description of measurement methods and procedures applied	Value required by VCS. Shall be updated to 25 or the latest 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

Data / Parameter	Regulatory requirements
	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.
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)

Data Unit / Parameter:	Methane content 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.
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 monitoring/recording	Twice a month (approximately every two weeks)
Value applied:	6% was used in the ex-ante calculation based on two years of data (June 2013 – June 2015)
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 CO2/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 CO2/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	0.289955 tonnes CO2/MWh
Monitoring equipment	None
QA/QC procedures to be applied	None
Purpose of data	Calculation of project emissions
Calculation method	637.90 lbs CO2/MWh*0.454545455 kg/lbs*0.001 tonnes/kg = 0.289955 tonnes CO2/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:	<i>This was converted from the MMBtu/barrel data provided by the USEPA. 5.809 MMBtu/barrel</i>
Frequency of monitoring/recording:	<i>Annual</i>
Value applied:	0.13831 MMBtu/ gallon See ExAnteEstimate or Annual Calculation Workbooks for conversion
Monitoring equipment:	None
QA/QC procedures to be applied:	<i>None</i>
Calculation method:	<i>None</i>
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 procedures to be applied:	This was converted from the Tg C/Qbtu data provided by the US EPA. See ExAnteEstimate or Annual Calculation Workbooks 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

At least twice a month, a trained operator balances the landfill gas collection wellfield. In the course of 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 in close proximity to 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 all of 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.

APPENDIX A: SEE ATTACHED EXHIBITS 1 THROUGH 7.

1. Exhibit 1 summarizes the emission reductions from methane oxidation during energy generation and flaring from March 29, 2016 through June 30, 2016.
2. Exhibit 2 provides gas totalizer readings, and methane content readings for the period from March 29, 2016 through June 30, 2016, 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 March 29, 2016 through June 30, 2016, 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 the calibration of the LFG flow rate and provides a compilation of methane content calibration reports for the California Analytical Analyzer for the periods.
7. Exhibit 7 provides Attestation Statement

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		29-Mar-16
End date		30-Jun-16
Methane delivered	scf	66,982,977
Emission Reductions	metric tons CO2e	26,512
Flaring		
Start date		29-Mar-16
End date		30-Jun-16
Methane delivered	scf	-
Emission Reductions	metric tons CO2e	-
Subtotal		
Methane delivered	scf	66,982,977
Emission Reductions	metric tons CO2e	26,512
Deductions		
Oxidation potential	metric tons CO2e	2,651
District Initial System	metric tons CO2e	795
Electricity use utility and diesel backup	metric tons CO2e	4
Total		
Emission Reductions eligible under VCS program	metric tons CO2e	23,061

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

Physical constants:									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, March 25, 2015, v3.5					
Methane, molecular weight (lb per lb-mole)		16												
Pounds to metric ton		2,205												
Gas constant, scf per lb-mole		385												
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
	29-Mar-16													
29-Mar-16	31-Mar-16	2,178	-	2,178	2,152,631	2,152,631	41	41	100.0%	41	41	21	852	852
1-Apr-16	29-Apr-16	22,207	2,178	20,028	19,790,950	21,943,581	373	414	100.0%	373	414	21	7,833	8,685
1-May-16	31-May-16	45,889	22,207	23,683	23,401,754	45,345,335	441	855	100.0%	441	855	21	9,262	17,947
1-Jun-16	30-Jun-16	67,787	45,889	21,897	21,637,642	66,982,977	408	1,262	100.0%	408	1,262	21	8,564	26,512

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, March 25, 2015, v3.5															
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								
50%	-	-	21	-	-	-	-								
50%	-	-	21	-	-	-	-								
50%	-	-	21	-	-	-	-								
50%	-	-	21	-	-	-	-								

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

	Formula variables	Value used	Units	Source if appropriate
$ER_y = BE_y - PE_y$				
23,061	BE_y	see below	tCO2e/period	
	PE_y	4.08	tCO2e/period	See Electricity Tab + Emergency Generator Tab
$BE_y = BE_{CH4,y}$				
23,065	$BE_{CH4,y}$	see below	tCO2e/period	
$BE_{CH4,y} = ((1 - OX_{top_layer}) \times F_{CH4,PJ,y} - F_{CH,BL,y}) \times GWP_{CH4}$				
23,065	OX_{top_layer}	0.1		ACM001 Methodology value
	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	
$F_{CH4,PJ,y} = F_{CH4,flared,y} + F_{CH4,EL,y}$				
1,262	$F_{CH4,flared,y}$	0	t CH4/period	See Exhibit 3 tab
	$F_{CH4,EL,y}$	1262	t CH4/period	See Exhibit 2 tab
$F_{CH4,BL,y} = F_{CH4,BL,sys,y}$				
$F_{CH4,BL,sys,y} = \%DistrictInitialSystem \times F_{CH4,PJ,y}$				
38	$\%DistrictInitialSystem$	6		See DistrictInitialSystemTab
	$F_{CH4,PJ,y}$	see above	t CH4/period	
		50%	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	MW/hr	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

Supporting Information for Exhibit 4

Fossil Fuel Project Emissions

Emergency Generator - Diesel Use

Gallons of Diesel Consumed (1 year Actual)

399	FC_{Diesel}	= Number of hours run * Gallons used/hour
$COEF_{\text{Diesel},2015} = NCV_{\text{Diesel},2015} * EF_{CO2,\text{Diesel},2015}$		
$COEF_{\text{Diesel},2015}$	0.010229	See inputs on USEPA Data Conversions Tab
$PE_{FC,2015} = FC_{\text{Diesel},2015} * COEF_{\text{Diesel},2015}$		
PEFC, 2010	4.08	tonnes CO2

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 Nov 2014 - Nov 2015, the generator ran 19 hours (see log and validator observation from site visit)
The generator requires 8.4 gallons/hour running at 3/4 Load (see estimate fuel consumption)

March 29 - June 30, 2016 actual fuel consumed =
47.5 hours*8.4 gallons/hour
399 gallons

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
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%
1-May-14	51	1,039	5%
1-Jun-14	65	1,071	6%
1-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%
1-Sep-14	48	1,055	5%
1-Oct-14	97	1,081	9%
1-Dec-14	65	1,086	6%
1-Dec-14	64	1,075	6%
1-Mar-15	50	1,019	5%
1-Apr-15	48	1,329	4%
1-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%
Average			6%

Exhibit 5

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

JUNE 2016																				
			Wednesday 6/1/2016	Thursday 6/2/2016	Friday 6/3/2016	Saturday 6/4/2016	Sunday 6/5/2016	Monday 6/6/2016	Tuesday 6/7/2016	Wednesday 6/8/2016	Thursday 6/9/2016	Friday 6/10/2016	Saturday 6/11/2016	Sunday 6/12/2016	Monday 6/13/2016	Tuesday 6/14/2016	Wednesday 6/15/2016	Thursday 6/16/2016	Friday 6/17/2016	
LFG and Biogas Flow to the Engines (KSCF)			1,326	1,337	1,380	1,337	1,356	1,293	1,266	500	1,403	1,343	1,326	1,449	1,449	1,464	1,484	1,437	1,379	
LFG and Biogas Flow to the Engines (MMBTU HHV)			699	708	737	715	729	724	730	290	797	771	768	830	811	807	817	806	779	
LFG and Biogas Flow to the Flare (KSCF)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Flow to the Flare (MMBTU HHV)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Total Flow (KSCF)			1,326	1,337	1,380	1,337	1,356	1,293	1,266	500	1,403	1,343	1,326	1,449	1,449	1,464	1,484	1,437	1,379	
LFG and Biogas Total Flow (MMBTU HHV)			699	708	737	715	729	724	730	290	797	771	768	830	811	807	817	806	779	
Average Methane Content (%)			52.1	52.3	52.8	52.9	53.2	55.4	57.0	57.4	56.1	56.7	57.2	56.6	55.3	54.5	54.4	55.5	55.9	
Engine 1 Hours			24	24	24	24	24	24	22	57	18	24	24	24	24	24	24	24	24	
Engine 2 Hours			-	-	-	-	-	-	-	7	16	-	-	17	22	24	24	13	-	
Engine 3 Hours			24	24	24	24	24	24	22	8	24	24	24	24	22	24	24	24	24	
Engine 4 Hours			24	24	24	24	24	24	23	7	24	24	24	24	24	24	24	24	24	
Generator 1 Power Output (kWhr)			20,000	19,986	19,986	19,986	19,982	17,976	18,608	4,464	13,268	19,982	19,980	19,976	19,444	18,560	18,562	19,172	19,982	
Generator 2 Power Output (kWhr)			-	-	-	-	-	-	-	4,272	10,976	-	-	4,382	5,518	5,008	5,016	2,808	-	
Generator 3 Power Output (kWhr)			19,984	19,972	19,972	19,972	19,968	18,596	18,604	4,408	18,192	19,966	19,966	19,022	17,586	18,556	18,560	19,168	19,972	
Generator 4 Power Output (kWhr)			19,958	19,946	19,946	19,944	19,942	18,576	17,152	4,380	18,174	19,946	19,944	18,976	18,830	18,506	18,506	19,198	19,940	
Gross Power Output (kWhr)			59,906	59,866	59,867	59,864	59,856	55,119	54,336	17,540	60,554	59,846	59,846	62,331	61,348	60,587	60,607	60,310	59,843	
Net Power Output (kWhr)			57,926	57,959	57,995	58,009	58,053	53,318	52,545	16,949	58,581	58,029	58,104	60,339	59,257	58,494	58,517	58,286	57,981	
Power Sold as metered by NStar, (kWhr)			57,723	57,805	57,843	57,843	57,912	53,188	52,499	16,806	58,450	57,901	57,986	60,178	59,095	58,316	58,336	58,115	57,810	
Offgrid RECs (kWhr)			1,980	1,907	1,872	1,855	1,803	1,801	1,791	591	1,973	1,817	1,742	1,993	2,091	2,092	2,090	2,024	1,863	
Calculated Performance Results																				
Daily																				
Power output (kW average when running)																				
	Generator 1		833	833	833	833	833	749	846	78	737	833	833	832	810	773	773	799	833	
	Generator 2		-	-	-	-	-	-	-	610	686	-	-	258	251	209	209	216	-	
	Generator 3		833	832	832	832	832	775	846	551	758	832	832	793	799	773	773	799	832	
	Generator 4		832	831	831	831	831	774	746	626	757	831	831	791	785	771	771	800	831	
Power output (kW average over 24-hrs)																				
	Facility Gross		2,496	2,494	2,494	2,494	2,494	2,297	2,264	731	2,523	2,494	2,494	2,597	2,556	2,524	2,525	2,513	2,493	
	Facility Net		2,414	2,415	2,416	2,417	2,419	2,222	2,189	706	2,441	2,418	2,421	2,514	2,469	2,437	2,438	2,429	2,416	
	In-plant load		83	79	78	77	75	75	75	25	82	76	73	83	87	87	87	84	78	
Daily availability factor																				
	Facility		75%	75%	75%	75%	75%	75%	70%	83%	85%	75%	75%	93%	96%	100%	100%	89%	75%	
	Engine 1		100%	100%	100%	100%	100%	100%	92%	239%	75%	100%	100%	100%	100%	100%	100%	100%	100%	
	Engine 2		0%	0%	0%	0%	0%	0%	0%	29%	67%	0%	0%	71%	92%	100%	100%	54%	0%	
	Engine 3		100%	100%	100%	100%	100%	100%	92%	33%	100%	100%	100%	100%	92%	100%	100%	100%	100%	
	Engine 4		100%	100%	100%	100%	100%	100%	96%	29%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Daily capacity factor																				
	Facility		76%	76%	76%	76%	76%	70%	69%	22%	76%	76%	76%	79%	77%	76%	77%	76%	76%	
	Engine 1		101%	101%	101%	101%	101%	91%	103%	9%	89%	101%	101%	101%	98%	94%	94%	97%	101%	
	Engine 2		0%	0%	0%	0%	0%	0%	0%	74%	83%	0%	0%	31%	30%	25%	25%	26%	0%	
	Engine 3		101%	101%	101%	101%	101%	94%	103%	67%	92%	101%	101%	96%	97%	94%	94%	97%	101%	
	Engine 4		101%	101%	101%	101%	101%	94%	90%	76%	92%	101%	101%	96%	95%	93%	93%	97%	101%	
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	166	223.4	241.4	265.4	289.4	313.4	337.4	361.4	385.4	409.4	433.4	
	Engine 2		0	0	0	0	0	0	0	7	23	23	23	40	62	86	110	123	123	
	Engine 3		24	48	72	96	120	144	166	174	198	222	246	270	292	316	340	364	388	
	Engine 4		24	48	72	96	120	144	167	174	198	222	246	270	294	318	342	366	390	
Engine operating run hours total from 0 hours																				
	Engine 1	83,304	83,328	83,352	83,376	83,400	83,424	83,448	83,470	83,527	83,545	83,569	83,593	83,617	83,641	83,665	83,689	83,713	83,737	
	Engine 2	80,362	80,362	80,362	80,362	80,362	80,362	80,362	80,362	80,369	80,385	80,385	80,385	80,402	80,424	80,448	80,472	80,485	80,485	
	Engine 3	83,004	83,028	83,052	83,076	83,100	83,124	83,148	83,170	83,178	83,202	83,226	83,250	83,274	83,296	83,320	83,344	83,368	83,392	
	Engine 4	79,590	79,614	79,638	79,662	79,686	79,710	79,734	79,757	79,764	79,788	79,812	79,836	79,860	79,884	79,908	79,932	79,956	79,980	
Cumulative availability, % June 1, 2016 @ 00:00 hours																				
	Engine 1		100%	100%	100%	100%	100%	100%	99%	116%	112%	111%	110%	109%	108%	108%	107%	107%	106%	
	Engine 2		0%	0%	0%	0%	0%	0%	0%	4%	11%	10%	9%	14%	20%	26%	31%	32%	30%	
	Engine 3		100%	100%	100%	100%	100%	100%	99%	91%	92%	93%	93%	94%	94%	94%	94%	95%	95%	
	Engine 4		100%	100%	100%	100%	100%	100%	99%	91%	92%	93%	93%	94%	94%	95%	95%	95%	96%	
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		833	1,666	2,499	3,332	4,164	4,913	5,759	6,600	7,425	8,250	9,071	9,881	10,655	11,428	12,227	13,060		
	Engine 2		-	-	-	-	-	-	-	610	1,296	1,296	1,296	1,554	1,805	2,014	2,223	2,439	2,439	
	Engine 3		833	1,665	2,497	3,329	4,161	4,936	5,782	6,633	7,091	7,923	8,754	9,547	10,346	11,120	11,893	12,692	13,524	
	Engine 4		832	1,663	2,494	3,325	4,156	4,930	5,675	6,301	7,058	7,889	8,720	9,511	10,296	11,067	11,838	12,638	13,469	
Cumulative capacity factor, %																				
	Engine 1		101%	101%	101%	101%	101%	99%	100%	88%	89%	90%	91%	92%	92%	92%	92%	93%	93%	
	Engine 2		0%	0%	0%	0%	0%	0%	0%	9%	17%	16%	14%	16%	17%	17%	18%	18%	17%	
	Engine 3		101%	101%	101%	101%	101%	100%	100%	96%	95%	96%	96%	96%	96%	96%	96%	96%	96%	
	Engine 4		101%	101%	101%	101%	101%	100%	98%	95%	95%	96%	96%	96%	96%	96%	96%	96%	96%	

		Wednesday 6/1/2016	Thursday 6/2/2016	Friday 6/3/2016	Saturday 6/4/2016	Sunday 6/5/2016	Monday 6/6/2016	Tuesday 6/7/2016	Wednesday 6/8/2016	Thursday 6/9/2016	Friday 6/10/2016	Saturday 6/11/2016	Sunday 6/12/2016	Monday 6/13/2016	Tuesday 6/14/2016	Wednesday 6/15/2016	Thursday 6/16/2016	Friday 6/17/2016
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		72	144	216	288	360	432	499	578	660	732	804	893	985	1,081	1,177	1,262	1,334
Cumulative Availability, %		75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	74.3%	75.3%	76.4%	76.3%	76.2%	77.6%	79.0%	80.5%	81.8%	82.2%	81.8%
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		59,906	119,772	179,639	239,503	299,359	354,478	408,814	426,354	486,908	546,754	606,600	668,931	730,279	790,866	851,473	911,783	971,626
Cumulative Capacity Factor		75.6%	75.6%	75.6%	75.6%	75.6%	74.6%	73.7%	67.3%	68.3%	69.0%	69.6%	70.4%	70.9%	71.3%	71.7%	72.0%	72.2%
Cumulative fuel input, MMBtu HHV		699	1,407	2,144	2,860	3,589	4,313	5,043	5,334	6,130	6,901	7,669	8,498	9,310	10,117	10,933	11,740	12,519
Cumulative gross output, kWhr		59,906	119,772	179,639	239,503	299,359	354,478	408,814	426,354	486,908	546,754	606,600	668,931	730,279	790,866	851,473	911,783	971,626
Heat Rate																		
Daily heat rate, Btu/kWe gross LHV		10,499	10,648	11,088	10,756	10,970	11,828	12,097	14,894	11,847	11,590	11,552	11,980	11,906	11,989	12,129	12,035	11,724
Daily heat rate, Btu/kWe gross HHV		11,663	11,828	12,317	11,949	12,186	13,139	13,439	16,545	13,160	12,875	12,833	13,308	13,226	13,318	13,474	13,369	13,024
Cumulative heat rate, Btu/kWe gross LHV		10,499	10,573	10,745	10,748	10,792	10,953	11,105	11,261	11,334	11,362	11,381	11,437	11,476	11,515	11,559	11,590	11,599
Cumulative heat rate, Btu/kWe gross HHV		11,663	11,746	11,936	11,939	11,989	12,167	12,336	12,510	12,590	12,622	12,642	12,704	12,748	12,792	12,840	12,875	12,885
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
Actual cumulative engine run hours		13,255	13,327	13,399	13,471	13,543	13,615	13,682	13,761	13,843	13,915	13,987	14,076	14,168	14,264	14,360	14,445	14,517
Cumulative Availability, %		92.1%	92.0%	91.8%	91.7%	91.6%	91.5%	91.4%	91.3%	91.3%	91.2%	91.1%	91.1%	91.1%	91.2%	91.2%	91.2%	91.1%
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
Actual cumulative gross output, kWhr		9,452,302	9,512,168	9,572,035	9,631,899	9,691,755	9,746,874	9,801,210	9,818,750	9,879,304	9,939,150	9,998,996	10,061,327	10,122,675	10,183,262	10,243,869	10,304,179	10,364,022
Cumulative Capacity Factor		79.6%	79.6%	79.5%	79.5%	79.5%	79.4%	79.3%	79.0%	79.0%	78.9%	78.9%	78.9%	78.9%	78.9%	78.9%	78.9%	78.9%
Cumulative fuel input, MMBtu HHV		120,329	121,037	121,775	122,490	123,220	123,944	124,674	124,964	125,761	126,532	127,300	128,129	128,940	129,747	130,564	131,370	132,150
Cumulative gross output, kWhr		9,452,302	9,512,168	9,572,035	9,631,899	9,691,755	9,746,874	9,801,210	9,818,750	9,879,304	9,939,150	9,998,996	10,061,327	10,122,675	10,183,262	10,243,869	10,304,179	10,364,022
Cumulative heat rate, Btu/kWe gross LHV		11,460	11,455	11,452	11,448	11,445	11,447	11,451	11,457	11,459	11,460	11,461	11,464	11,467	11,470	11,474	11,477	11,478
Cumulative heat rate, Btu/kWe gross HHV		12,730	12,724	12,722	12,717	12,714	12,716	12,720	12,727	12,730	12,731	12,731	12,735	12,738	12,741	12,746	12,749	12,751
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		Wednesday 6/1/2016	Thursday 6/2/2016	Friday 6/3/2016	Saturday 6/4/2016	Sunday 6/5/2016	Monday 6/6/2016	Tuesday 6/7/2016	Wednesday 6/8/2016	Thursday 6/9/2016	Friday 6/10/2016	Saturday 6/11/2016	Sunday 6/12/2016	Monday 6/13/2016	Tuesday 6/14/2016	Wednesday 6/15/2016	Thursday 6/16/2016	Friday 6/17/2016
Date																		
Hour																		
1		2,404	2,413	2,412	2,411	2,412	2,413	2,388	-	2,505	2,417	2,417	2,416	2,543	2,434	2,436	2,434	2,411
2		2,403	2,412	2,411	2,410	2,411	2,411	2,386	-	2,503	2,414	2,415	2,414	2,540	2,431	2,433	2,431	2,408
3		2,408	2,416	2,416	2,415	2,414	2,415	2,391	-	2,506	2,419	2,420	2,418	2,545	2,435	2,438	2,437	2,413
4		2,405	2,413	2,413	2,412	2,413	2,412	2,388	-	2,503	2,417	2,417	2,416	2,542	2,434	2,435	2,434	2,411
5		2,405	2,412	2,411	2,410	2,411	2,411	2,387	-	2,500	2,415	2,415	2,414	2,540	2,431	2,433	2,432	2,408
6		2,410	2,417	2,416	2,415	2,415	2,416	2,391	-	2,506	2,420	2,419	2,419	2,544	2,437	2,438	2,437	2,414
7		2,407	2,414	2,414	2,412	2,413	2,413	2,389	-	2,503	2,418	2,418	2,414	2,541	2,434	2,435	2,435	2,411
8		2,404	2,412	2,412	2,410	2,411	2,408	2,379	-	2,499	2,413	2,414	2,632	2,534	2,429	2,429	2,431	2,400
9		2,403	2,409	2,413	2,414	2,415	2,406	2,377	-	2,495	2,409	2,416	2,542	2,530	2,425	2,425	2,430	2,402
10		2,399	2,403	2,404	2,410	2,414	2,400	1,789	-	2,392	2,406	2,413	2,540	2,376	2,424	2,422	2,425	2,405
11		2,397	2,401	2,401	2,407	2,412	1,058	1,890	-	2,362	2,404	2,411	2,538	2,393	2,422	2,420	2,421	2,404
12		2,400	2,404	2,405	2,410	2,416	630	2,271	-	2,402	2,408	2,416	2,542	2,211	2,428	2,425	2,425	2,409
13		2,399	2,400	2,406	2,407	2,414	1,776	2,341	-	2,399	2,406	2,413	2,539	2,169	2,425	2,423	2,456	2,408
14		2,396	2,400	2,406	2,405	2,411	2,371	2,344	-	2,397	2,401	2,412	2,537	2,604	2,423	2,421	2,414	2,403
15		2,401	2,398	2,408	2,408	2,415	1,795	2,347	-	2,402	2,405	2,419	2,541	2,595	2,427	2,425	2,403	2,401
16		2,401	2,399	2,408	2,407	2,412	2,362	2,345	-	2,258	2,404	2,418	2,539	2,428	2,425	2,425	2,397	2,403
17		2,402	2,402	2,408	2,405	2,412	2,382	2,343	-	2,407	2,411	2,417	2,536	2,430	2,421	2,430	2,399	2,406
18		2,409	2,411	2,412	2,410	2,416	2,388	2,347	1,504	2,417	2,415	2,420	2,540	2,434	2,431	2,435	2,406	2,413
19		2,409	2,409	2,410	2,409	2,414	2,386	2,348	2,628	2,415	2,414	2,417	2,539	2,432	2,433	2,435	2,410	2,413
20		2,409	2,410	2,409	2,408	2,411	2,384	2,346	2,618	2,414	2,413	2,414	2,537	2,430	2,429	2,433	2,409	2,412
21		2,414	2,415	2,414	2,413	2,414	2,389	2,352	2,539	2,418	2,420	2,418	2,543	2,435	2,435	2,438	2,414	2,417
22		2,412	2,412	2,411	2,411	2,412	2,387	2,378	2,507	2,416	2,417	2,415	2,541	2,433	2,434	2,434	2,413	2,414
23		2,411	2,409	2,410	2,410	2,410	2,385	1,582	2,503	2,413	2,415	2,414	2,538	2,430	2,431	2,431	2,409	2,410
24		2,415	2,414	2,413	2,414	2,414	2,390	-	2,507	2,418	2,420	2,418	2,543	2,436	2,438	2,437	2,413	2,414
TOTAL		57,723	57,805	57,843	57,843	57,912	53,188	52,499	16,806	58,450	57,901	57,986	60,178	59,095	58,316	58,336	58,115	57,810
Cumulative Output Sold, kWhr		57,723	115,528	173,371	231,214	289,126	342,314	394,813	411,619	470,069	527,970	585,956	646,134	705,229	763,545	821,881	879,996	937,806
Transformer and line efficiency		99.6%	99.7%	99.7%	99.7%	99.8%	99.8%	99.9%	99.2%	99.8%	99.8%	99.8%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%
Hourly average		2,405	2,409	2,410	2,410	2,413	2,216	2,187	700	2,435	2,413	2,416	2,507	2,462	2,430	2,431	2,421	2,409

JUNE 2016																
	Saturday 6/18/2016	Sunday 6/19/2016	Monday 6/20/2016	Tuesday 6/21/2016	Wednesday 6/22/2016	Thursday 6/23/2016	Friday 6/24/2016	Saturday 6/25/2016	Sunday 6/26/2016	Monday 6/27/2016	Tuesday 6/28/2016	Wednesday 6/29/2016	Thursday 6/30/2016	TOTAL	Biogas	LFG
LFG and Biogas Flow to the Engine	1,402	1,404	1,419	1,420	1,465	1,496	1,610	1,577	1,585	1,520	1,541	1,366	1,629	41,961	1,274	40,687
LFG and Biogas Flow to the Engine	772	767	794	806	832	801	840	799	793	782	791	724	812	22,831	934	21,897
LFG and Biogas Flow to the Flare (t	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1%	96%
LFG and BiogasFlow to the Flare (lb	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LFG and Biogas Total Flow (KSCF)	1,402	1,404	1,419	1,420	1,465	1,496	1,610	1,577	1,585	1,520	1,541	1,366	1,629	41,961		
LFG and Biogas Total Flow (MMBTU)	772	767	794	806	832	801	840	799	793	782	791	724	812	22,831		
Average Methane Content (%)	54.4	54.0	55.3	56.1	56.1	52.9	51.5	50.0	49.4	50.9	50.7	52.4	49.3	53.8		
Engine 1 Hours	24	24	24	24	24	22	24	24	24	24	24	24	24	743		
Engine 2 Hours	-	-	8	10	10	22	24	24	24	24	24	21	24	338		
Engine 3 Hours	24	24	24	24	24	19	24	24	24	24	24	24	24	695		
Engine 4 Hours	24	24	24	24	24	22	24	24	24	24	24	24	24	700		
Generator 1 Power Output (kWhr)	19,984	19,986	18,378	17,538	19,596	17,066	15,416	13,248	13,234	16,680	17,976	14,816	15,716	529,548		
Generator 2 Power Output (kWhr)	-	-	4,546	5,474	5,012	13,602	16,660	15,564	15,290	7,622	7,360	7,302	15,604	152,016		
Generator 3 Power Output (kWhr)	19,970	19,970	19,050	18,478	19,568	13,306	16,190	15,578	15,652	17,408	17,454	14,732	15,584	535,404		
Generator 4 Power Output (kWhr)	19,940	19,940	19,332	19,140	19,532	16,612	16,588	15,900	15,656	17,076	16,860	14,510	16,064	539,014		
Gross Power Output (kWhr)	59,840	59,838	61,256	60,596	63,660	60,607	64,817	60,278	59,811	58,568	59,489	51,064	62,956	1,754,406		
Net Power Output (kWhr)	57,979	57,965	59,259	58,589	61,640	58,542	62,492	58,129	57,618	56,344	57,157	49,037	60,514	1,695,607		
Power Sold as metered by NStar, (kWhr)	57,813	57,805	59,095	58,436	61,466	61,948	62,339	57,962	57,453	56,166	57,003	48,895	60,360	1,694,547	CRMCB inplant	
Offgrid RECs (kWhr)	1,860	1,873	1,998	2,006	2,021	2,066	2,325	2,149	2,193	2,224	2,332	2,027	2,442	58,801	8,426	
Calculated Performance Results																
Daily															14%	
Power output (kW average whe															of total in-plant power	
Generator 1	833	833	766	731	817	776	642	552	551	695	749	617	655			
Generator 2	-	-	568	547	501	618	694	649	637	318	307	348	650			
Generator 3	832	832	794	770	815	700	675	649	652	725	727	614	649			
Generator 4	831	831	806	798	814	755	691	663	652	712	703	605	669			
Power output (kW average over																
Facility Gross	2,493	2,493	2,552	2,525	2,653	2,525	2,701	2,512	2,492	2,440	2,479	2,128	2,623		2,440	
Facility Net	2,416	2,415	2,469	2,441	2,568	2,439	2,604	2,422	2,401	2,348	2,382	2,043	2,521		2,359	
In-plant load	78	78	83	84	84	86	97	90	91	93	97	84	102			
Daily availability factor																
Facility	75%	75%	83%	85%	85%	89%	100%	100%	100%	100%	100%	97%	100%			
Engine 1	100%	100%	100%	100%	100%	92%	100%	100%	100%	100%	100%	100%	100%			
Engine 2	0%	0%	33%	42%	42%	92%	100%	100%	100%	100%	100%	88%	100%			
Engine 3	100%	100%	100%	100%	100%	79%	100%	100%	100%	100%	100%	100%	100%			
Engine 4	100%	100%	100%	100%	100%	92%	100%	100%	100%	100%	100%	100%	100%			
Daily capacity factor																
Facility	76%	76%	77%	77%	80%	77%	82%	76%	76%	74%	75%	64%	79%			
Engine 1	101%	101%	93%	89%	99%	94%	78%	67%	67%	84%	91%	75%	79%			
Engine 2	0%	0%	69%	66%	61%	75%	84%	79%	77%	38%	37%	42%	79%			
Engine 3	101%	101%	96%	93%	99%	85%	82%	79%	79%	88%	88%	74%	79%			
Engine 4	101%	101%	98%	97%	99%	92%	84%	80%	79%	86%	85%	73%	81%			
Cumulative by engine																
Engine operating run hours in th																
Max Cumulative Available, t	432	456	480	504	528	552	576	600	624	648	672	696	720			
Engine 1	457.4	481.4	505.4	529.4	553.4	575.4	599.4	623.4	647.4	671.4	695.4	719.4	743.4			
Engine 2	123	123	131	141	151	173	197	221	245	269	293	314	338			
Engine 3	412	436	460	484	508	527	551	575	599	623	647	671	695			
Engine 4	414	438	462	486	510	532	556	580	604	628	652	676	700			
Engine operating run hours tota																
Engine 1	83,761	83,785	83,809	83,833	83,857	83,879	83,903	83,927	83,951	83,975	83,999	84,023	84,047			
Engine 2	80,485	80,485	80,493	80,503	80,513	80,535	80,559	80,583	80,607	80,631	80,655	80,679	80,700			
Engine 3	83,416	83,440	83,464	83,488	83,512	83,531	83,555	83,579	83,603	83,627	83,651	83,675	83,699			
Engine 4	80,004	80,028	80,052	80,076	80,100	80,122	80,146	80,170	80,194	80,218	80,242	80,266	80,290			
Cumulative availability, %																
Engine 1	106%	106%	105%	105%	105%	104%	104%	104%	104%	104%	103%	103%	103%			
Engine 2	28%	27%	27%	28%	29%	31%	34%	37%	39%	42%	44%	45%	47%			
Engine 3	95%	96%	96%	96%	96%	95%	96%	96%	96%	96%	96%	96%	97%			
Engine 4	96%	96%	96%	96%	97%	96%	97%	97%	97%	97%	97%	97%	97%			
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	13,892	14,725	15,491	16,222	17,038	17,814	18,456	19,008	19,560	20,255	21,004	21,621	22,276			
Engine 2	2,439	2,439	3,007	3,554	4,055	4,674	5,368	6,016	6,653	7,271	7,278	7,625	8,276			
Engine 3	14,356	15,188	15,982	16,752	17,567	18,267	18,942	19,591	20,243	20,968	21,696	22,309	22,959			
Engine 4	14,299	15,130	15,936	16,733	17,547	18,302	18,993	19,656	20,308	21,020	21,722	22,327	22,996			
Cumulative capacity factor, %																
Engine 1	94%	94%	94%	94%	94%	94%	93%	92%	91%	91%	91%	90%	90%			
Engine 2	16%	16%	18%	21%	22%	25%	27%	29%	31%	31%	32%	32%	33%			
Engine 3	97%	97%	97%	97%	97%	96%	96%	95%	94%	94%	94%	93%	93%			
Engine 4	96%	97%	97%	97%	97%	96%	96%	95%	95%	94%	94%	93%	93%			

	Saturday 6/18/2016	Sunday 6/19/2016	Monday 6/20/2016	Tuesday 6/21/2016	Wednesday 6/22/2016	Thursday 6/23/2016	Friday 6/24/2016	Saturday 6/25/2016	Sunday 6/26/2016	Monday 6/27/2016	Tuesday 6/28/2016	Wednesday 6/29/2016	Thursday 6/30/2016	TOTAL	Biogas	LFG
Cumulative by Facility in month																
Max cumulative available engine run hours	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 hours	1,406	1,478	1,558	1,640	1,722	1,807	1,903	1,999	2,095	2,191	2,287	2,380	2,476			
Cumulative Availability, %	81.4%	81.1%	81.2%	81.4%	81.6%	81.9%	82.6%	83.3%	84.0%	84.5%	85.1%	85.5%	86.0%			
Max cumulative gross output, kWh	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, kWh	1,031,466	1,091,304	1,152,560	1,213,156	1,276,816	1,337,423	1,402,240	1,462,518	1,522,329	1,580,897	1,640,386	1,691,450	1,754,406			
Cumulative Capacity Factor	72.4%	72.5%	72.8%	72.9%	73.3%	73.4%	73.8%	73.9%	73.9%	73.9%	74.0%	73.6%	73.8%			
Cumulative fuel input, MMBtu/H	13,291	14,058	14,852	15,658	16,490	17,290	18,130	18,929	19,722	20,504	21,295	22,019	22,831			
Cumulative gross output, kWh	1,031,466	1,091,304	1,152,560	1,213,156	1,276,816	1,337,423	1,402,240	1,462,518	1,522,329	1,580,897	1,640,386	1,691,450	1,754,406			
Heat Rate																
Daily heat rate, Btu/kWe gross	11,612	11,534	11,667	11,974	11,765	11,894	11,663	11,926	11,934	12,026	11,963	12,765	11,615			
Daily heat rate, Btu/kWe gross	12,899	12,813	12,960	13,301	13,069	13,213	12,956	13,249	13,257	13,359	13,290	14,180	12,903			
Cumulative heat rate, Btu/kWe gross	11,599	11,596	11,600	11,618	11,626	11,638	11,639	11,651	11,662	11,675	11,686	11,718	11,715			
Cumulative heat rate, Btu/kWe gross	12,885	12,881	12,886	12,906	12,915	12,928	12,929	12,943	12,955	12,970	12,981	13,018	13,014			
Cumulative by Facility starting 6/1/2016																
Max cumulative available engine run hours	16,028	16,124	16,220	16,316	16,412	16,508	16,604	16,700	16,796	16,892	16,988	17,084	17,180			
Actual cumulative engine run hours	14,589	14,661	14,741	14,823	14,905	14,990	15,086	15,182	15,278	15,374	15,470	15,563	15,659			
Cumulative Availability, %	91.0%	90.9%	90.9%	90.9%	90.8%	90.8%	90.9%	90.9%	91.0%	91.0%	91.1%	91.1%	91.1%			
Max cumulative gross output, kWh	13,223,100	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			
Actual cumulative gross output, kWh	10,423,862	10,483,700	10,544,956	10,605,552	10,669,212	10,729,819	10,794,636	10,854,914	10,914,725	10,973,293	11,032,782	11,083,846	11,146,802			
Cumulative Capacity Factor	78.8%	78.8%	78.8%	78.8%	78.8%	78.8%	78.8%	78.8%	78.8%	78.7%	78.7%	78.6%	78.6%			
Cumulative fuel input, MMBtu/H	132,922	133,688	134,482	135,288	136,120	136,921	137,761	138,559	139,352	140,135	140,925	141,649	142,462			
Cumulative gross output, kWh	10,423,862	10,483,700	10,544,956	10,605,552	10,669,212	10,729,819	10,794,636	10,854,914	10,914,725	10,973,293	11,032,782	11,083,846	11,146,802			
Cumulative heat rate, Btu/kWe gross	11,479	11,479	11,480	11,483	11,485	11,487	11,488	11,491	11,493	11,496	11,499	11,504	11,505			
Cumulative heat rate, Btu/kWe gross	12,752	12,752	12,753	12,756	12,758	12,761	12,762	12,765	12,767	12,771	12,773	12,780	12,780			
Service																
Engine 1																
Engine 2																
Engine 3																
Engine 4																
Oil - oil and filter change																
Service - plugs, air filter, valve inspection																
Precipitation																
NSTAR Power Reports	Saturday 6/18/2016	Sunday 6/19/2016	Monday 6/20/2016	Tuesday 6/21/2016	Wednesday 6/22/2016	Thursday 6/23/2016	Friday 6/24/2016	Saturday 6/25/2016	Sunday 6/26/2016	Monday 6/27/2016	Tuesday 6/28/2016	Wednesday 6/29/2016	Thursday 6/30/2016	TOTAL		
Hour																
1	2,413	2,411	2,412	2,484	2,415	2,605	2,779	2,425	2,406	2,346	2,422	2,098	2,499			
2	2,410	2,408	2,410	2,480	2,411	2,602	2,644	2,468	2,402	2,287	2,385	2,096	2,494			
3	2,415	2,413	2,415	2,485	2,416	2,607	2,649	2,480	2,406	2,166	2,373	2,103	2,498			
4	2,413	2,412	2,414	2,484	2,416	2,606	2,648	2,480	2,406	1,956	2,380	2,102	2,497			
5	2,410	2,409	2,411	2,480	2,412	2,602	2,644	2,475	2,401	1,954	2,375	2,098	2,492			
6	2,416	2,414	2,415	2,486	2,418	2,609	2,649	2,434	2,407	1,963	2,392	2,104	2,497			
7	2,412	2,411	2,413	2,484	2,416	2,606	2,645	2,408	2,403	1,961	2,397	2,101	2,496			
8	2,408	2,405	2,406	2,481	2,411	2,600	2,613	2,401	2,397	1,955	2,385	2,096	2,489			
9	2,411	2,408	2,403	2,480	2,406	2,593	2,575	2,403	2,400	2,377	2,415	1,300	2,486			
10	2,408	2,407	2,398	2,419	2,400	2,444	2,482	2,403	2,398	2,534	2,426	842	2,484			
11	2,404	2,403	2,396	2,392	2,394	1,850	1,812	2,397	2,394	2,472	2,508	842	2,480			
12	2,408	2,408	2,400	2,399	2,403	1,532	2,584	2,402	2,399	2,349	2,502	841	2,483			
13	2,406	2,406	2,401	2,400	2,402	1,694	2,601	2,400	2,397	2,488	2,515	895	2,489			
14	2,403	2,403	2,398	2,394	2,412	2,232	2,673	2,397	2,394	2,481	2,507	1,124	2,494			
15	2,407	2,408	2,404	2,399	2,777	2,286	2,507	2,400	2,399	2,485	2,514	2,503	2,535			
16	2,406	2,407	2,402	2,399	2,787	2,796	2,392	2,399	2,398	2,499	2,514	2,692	2,534			
17	2,403	2,403	2,369	2,403	2,791	2,979	2,643	2,395	2,394	2,485	2,515	2,691	2,534			
18	2,408	2,410	2,699	2,412	2,797	2,987	2,674	2,384	2,400	2,517	2,519	2,697	2,541			
19	2,407	2,409	2,698	2,412	2,796	2,983	2,691	2,401	2,399	2,520	2,445	2,696	2,544			
20	2,405	2,407	2,674	2,410	2,793	2,978	2,685	2,397	2,302	2,470	2,127	2,690	2,540			
21	2,411	2,412	2,557	2,415	2,799	2,983	2,696	2,404	2,381	2,509	2,097	2,640	2,546			
22	2,410	2,411	2,556	2,413	2,799	2,981	2,695	2,403	2,401	2,491	2,098	2,578	2,554			
23	2,407	2,407	2,551	2,409	2,781	2,906	2,686	2,400	2,394	2,473	2,093	2,541	2,586			
24	2,412	2,413	2,493	2,416	2,614	2,887	2,672	2,406	2,375	2,428	2,099	2,525	2,568			
TOTAL	57,813	57,805	59,095	58,436	61,466	61,948	62,339	57,962	57,453	56,166	57,003	48,895	60,360			
Cumulative Output Sold, kWh	995,619	1,053,424	1,112,519	1,170,955	1,232,421	1,294,369	1,356,708	1,414,670	1,472,123	1,528,289	1,585,292	1,634,187	1,694,547			
Transformer and line efficiency	99.7%	99.7%	99.7%	99.7%	99.7%	105.8%	99.8%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	0.0%		
Hourly average	2,409	2,409	2,462	2,435	2,561	2,581	2,597	2,415	2,394	2,340	2,375	2,037	2,515	2,354		

MAY 2016																		
CNBE Daily Reports Summary Data																		
	Sunday 5/1/2016	Monday 5/2/2016	Tuesday 5/3/2016	Wednesday 5/4/2016	Thursday 5/5/2016	Friday 5/6/2016	Saturday 5/7/2016	Sunday 5/8/2016	Monday 5/9/2016	Tuesday 5/10/2016	Wednesday 5/11/2016	Thursday 5/12/2016	Friday 5/13/2016	Saturday 5/14/2016	Sunday 5/15/2016	Monday 5/16/2016	Tuesday 5/17/2016	
LFG and Biogas Flow to the Engines (KSCF)	1,471	1,463	1,478	1,427	1,435	1,454	1,421	1,375	1,418	1,388	1,405	1,418	1,408	1,437	1,405	1,429	1,437	
LFG and Biogas Flow to the Engines (MMBTU)	824	824	830	813	825	828	818	791	799	779	793	798	796	814	798	804	806	
LFG and Biogas Flow to the Flare (KSCF)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Flow to the Flare (MMBTU HHV)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Total Flow (KSCF)	1,471	1,463	1,478	1,427	1,435	1,454	1,421	1,375	1,418	1,388	1,405	1,418	1,408	1,437	1,405	1,429	1,437	
LFG and Biogas Total Flow (MMBTU HHV)	824	824	830	813	825	828	818	791	799	779	793	798	796	814	798	804	806	
Average Methane Content (%)	55.3	55.7	55.5	56.3	56.8	56.3	56.8	56.8	55.7	55.5	55.8	55.6	55.8	56.0	56.1	55.6	55.4	
Engine 1 Hours	24	24	24	24	24	24	24	24	22	24	24	24	24	24	24	24	24	
Engine 2 Hours	24	24	24	24	24	24	23	25	24	24	24	24	24	24	24	24	24	
Engine 3 Hours	24	24	24	24	24	24	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)	16,214	16,214	16,216	16,214	16,216	16,216	16,218	16,068	13,524	13,246	13,246	13,244	13,636	14,430	14,426	14,428	14,430	
Generator 2 Power Output (kWhr)	15,006	15,022	15,028	15,252	15,026	15,024	15,024	15,022	15,718	15,024	15,022	15,024	14,684	14,430	14,430	14,432	14,430	
Generator 3 Power Output (kWhr)	14,978	15,226	14,994	14,992	14,994	14,992	14,990	14,990	15,360	14,992	14,992	14,992	15,506	16,190	16,044	14,994	14,992	
Generator 4 Power Output (kWhr)	14,984	15,840	16,750	16,750	16,750	16,246	14,980	14,980	15,332	16,200	16,250	16,754	16,734	15,370	14,980	15,526	15,778	
Gross Power Output (kWhr)	61,185	62,297	62,974	63,208	62,982	62,485	61,220	61,070	59,945	59,471	59,525	60,023	60,560	60,410	59,867	59,347	59,588	
Net Power Output (kWhr)	59,063	60,221	60,914	61,184	60,925	60,431	59,366	59,209	57,931	57,384	57,491	57,910	58,501	58,450	57,916	57,224	57,513	
Power Sold as metered by NStar, (kWhr)	58,960	60,089	60,789	61,063	60,815	60,301	59,238	59,092	57,792	57,242	57,344	57,766	58,344	58,272	57,754	57,089	57,355	
Offgrid RECs (kWhr)	2,122	2,076	2,060	2,024	2,058	2,054	1,853	1,861	2,014	2,087	2,034	2,113	2,059	1,960	1,950	2,123	2,075	
Calculated Performance Results																		
Daily																		
Power output (kW average when running)																		
Generator 1	676	676	676	676	676	676	676	670	615	552	552	552	568	601	601	601	601	
Generator 2	625	626	626	636	626	626	653	601	655	626	626	626	612	601	601	601	601	
Generator 3	624	634	625	625	625	625	625	625	640	625	625	625	646	675	669	625	625	
Generator 4	624	660	698	698	698	677	624	624	639	675	677	698	697	640	624	647	657	
Power output (kW average over 24-hrs)																		
Facility Gross	2,549	2,596	2,624	2,634	2,624	2,604	2,551	2,545	2,498	2,478	2,480	2,501	2,523	2,517	2,494	2,473	2,483	
Facility Net	2,461	2,509	2,538	2,549	2,539	2,518	2,474	2,467	2,414	2,391	2,395	2,413	2,438	2,435	2,413	2,384	2,396	
In-plant load	88	87	86	84	86	86	77	78	84	87	85	88	86	82	81	88	86	
Daily availability factor																		
Facility	100%	100%	100%	100%	100%	100%	99%	101%	98%	100%	100%	100%	100%	100%	100%	100%	100%	
Engine 1	100%	100%	100%	100%	100%	100%	100%	100%	92%	100%	100%	100%	100%	100%	100%	100%	100%	
Engine 2	100%	100%	100%	100%	100%	100%	98%	104%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Engine 3	100%	100%	100%	100%	100%	100%	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	77%	79%	80%	80%	80%	79%	77%	77%	76%	75%	75%	76%	76%	76%	76%	75%	75%	
Engine 1	82%	82%	82%	82%	82%	82%	82%	81%	75%	67%	67%	67%	69%	73%	73%	73%	73%	
Engine 2	76%	76%	76%	77%	76%	76%	79%	73%	79%	76%	76%	76%	74%	73%	73%	73%	73%	
Engine 3	76%	77%	76%	76%	76%	76%	76%	76%	78%	76%	76%	76%	78%	82%	81%	76%	76%	
Engine 4	76%	80%	85%	85%	85%	82%	76%	76%	77%	82%	82%	85%	85%	78%	76%	78%	80%	
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	214	238	262	286	310	334	358	382	406	
Engine 2	24	48	72	96	120	144	167	192	216	240	264	288	312	336	360	384	408	
Engine 3	24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408	
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	82,561	82,585	82,609	82,633	82,657	82,681	82,705	82,729	82,753	82,775	82,799	82,823	82,847	82,871	82,895	82,919	82,943	
Engine 2	79,754	79,778	79,802	79,826	79,850	79,874	79,898	79,921	79,946	79,970	79,994	80,018	80,042	80,066	80,090	80,114	80,138	
Engine 3	82,262	82,286	82,310	82,334	82,358	82,382	82,406	82,430	82,454	82,478	82,502	82,526	82,550	82,574	82,598	82,622	82,646	
Engine 4	78,848	78,872	78,896	78,920	78,944	78,968	78,992	79,016	79,040	79,064	79,088	79,112	79,136	79,160	79,184	79,208	79,232	
Cumulative availability, %	May 1, 2016 @ 00:00 hours																	
Engine 1	100%	100%	100%	100%	100%	100%	100%	100%	99%	99%	99%	99%	99%	99%	99%	99%	100%	
Engine 2	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%	
Engine 3	100%	100%	100%	100%	100%	100%	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%	
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	676	1,351	2,027	2,702	3,378	4,054	4,730	5,399	6,014	6,566	7,118	7,669	8,238	8,839	9,440	10,041	10,642	
Engine 2	625	1,251	1,877	2,513	3,139	3,765	4,418	5,019	5,674	6,300	6,926	7,552	8,164	8,765	9,366	9,968	10,569	
Engine 3	624	1,259	1,883	2,508	3,133	3,757	4,382	5,007	5,647	6,271	6,896	7,521	8,167	8,841	9,510	10,134	10,759	
Engine 4	624	1,284	1,982	2,680	3,378	4,055	4,679	5,303	5,942	6,617	7,294	7,992	8,690	9,330	9,954	10,601	11,259	
Cumulative capacity factor, %																		
Engine 1	82%	82%	82%	82%	82%	82%	82%	82%	81%	80%	78%	77%	77%	77%	76%	76%	76%	
Engine 2	76%	76%	76%	76%	76%	76%	77%	76%	76%	76%	76%	76%	76%	76%	76%	76%	75%	
Engine 3	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	77%	77%	77%	77%	
Engine 4	76%	78%	80%	81%	82%	82%	81%	80%	80%	80%	80%	81%	81%	81%	80%	80%	80%	

		Sunday 5/1/2016	Monday 5/2/2016	Tuesday 5/3/2016	Wednesday 5/4/2016	Thursday 5/5/2016	Friday 5/6/2016	Saturday 5/7/2016	Sunday 5/8/2016	Monday 5/9/2016	Tuesday 5/10/2016	Wednesday 5/11/2016	Thursday 5/12/2016	Friday 5/13/2016	Saturday 5/14/2016	Sunday 5/15/2016	Monday 5/16/2016	Tuesday 5/17/2016
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	192	288	384	480	576	671	768	862	958	1,054	1,150	1,246	1,342	1,438	1,534	1,630
Cumulative Availability, %		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	100.0%	99.8%	99.8%	99.8%	99.8%	99.8%	99.9%	99.9%	99.9%	99.9%
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	950,400	1,029,600	1,108,800	1,188,000	1,267,200	1,346,400
Actual cumulative gross output, kWhr		61,185	123,482	186,456	249,664	312,646	375,131	436,351	497,421	557,366	616,837	676,362	736,385	796,945	857,355	917,222	976,569	1,036,157
Cumulative Capacity Factor		77.3%	78.0%	78.5%	78.8%	79.0%	78.9%	78.7%	78.5%	78.2%	77.9%	77.6%	77.5%	77.4%	77.3%	77.2%	77.1%	77.0%
Cumulative fuel input, MMBtu HHV		824	1,648	2,478	3,291	4,116	4,944	5,762	6,553	7,351	8,131	8,923	9,722	10,517	11,332	12,130	12,934	13,739
Cumulative gross output, kWhr		61,185	123,482	186,456	249,664	312,646	375,131	436,351	497,421	557,366	616,837	676,362	736,385	796,945	857,355	917,222	976,569	1,036,157
Heat Rate																		
Daily heat rate, Btu/kWe gross LHV		12,123	11,908	11,869	11,571	11,797	11,926	12,024	11,655	11,994	11,798	11,988	11,971	11,831	12,136	11,998	12,194	12,172
Daily heat rate, Btu/kWe gross HHV		13,467	13,229	13,185	12,854	13,105	13,248	13,357	12,947	13,324	13,106	13,317	13,298	13,142	13,481	13,328	13,546	13,521
Cumulative heat rate, Btu/kWe gross LHV		12,123	12,015	11,966	11,866	11,852	11,864	11,887	11,858	11,873	11,866	11,876	11,884	11,880	11,898	11,905	11,922	11,936
Cumulative heat rate, Btu/kWe gross HHV		13,467	13,347	13,292	13,181	13,166	13,180	13,205	13,173	13,189	13,181	13,193	13,202	13,197	13,217	13,224	13,244	13,260
Cumulative by Facility starting Calendar Year																		
Max cumulative available engine run hours		11,516	11,612	11,708	11,804	11,900	11,996	12,092	12,188	12,284	12,380	12,476	12,572	12,668	12,764	12,860	12,956	13,052
Actual cumulative engine run hours		10,515	10,611	10,707	10,803	10,899	10,995	11,090	11,187	11,281	11,377	11,473	11,569	11,665	11,761	11,857	11,953	12,049
Cumulative Availability, %		91.3%	91.4%	91.4%	91.5%	91.6%	91.7%	91.7%	91.8%	91.8%	91.9%	92.0%	92.0%	92.1%	92.1%	92.2%	92.3%	92.3%
Max cumulative gross output, kWhr		9,500,700	9,579,900	9,659,100	9,738,300	9,817,500	9,896,700	9,975,900	10,055,100	10,134,300	10,213,500	10,292,700	10,371,900	10,451,100	10,530,300	10,609,500	10,688,700	10,767,900
Actual cumulative gross output, kWhr		7,643,524	7,705,821	7,768,795	7,832,003	7,894,985	7,957,470	8,018,690	8,079,760	8,139,705	8,199,176	8,258,701	8,318,724	8,379,284	8,439,694	8,499,561	8,558,908	8,618,496
Cumulative Capacity Factor		80.5%	80.4%	80.4%	80.4%	80.4%	80.4%	80.4%	80.4%	80.3%	80.3%	80.2%	80.2%	80.2%	80.1%	80.1%	80.1%	80.0%
Cumulative fuel input, MMBtu HHV		96,824	97,648	98,478	99,291	100,116	100,944	101,761	102,552	103,351	104,130	104,923	105,721	106,517	107,331	108,129	108,933	109,739
Cumulative gross output, kWhr		7,643,524	7,705,821	7,768,795	7,832,003	7,894,985	7,957,470	8,018,690	8,079,760	8,139,705	8,199,176	8,258,701	8,318,724	8,379,284	8,439,694	8,499,561	8,558,908	8,618,496
Cumulative heat rate, Btu/kWe gross LHV		11,403	11,407	11,411	11,412	11,415	11,419	11,424	11,426	11,430	11,433	11,437	11,440	11,443	11,448	11,452	11,457	11,462
Cumulative heat rate, Btu/kWe gross HHV		12,667	12,672	12,676	12,678	12,681	12,685	12,691	12,692	12,697	12,700	12,705	12,709	12,712	12,717	12,722	12,727	12,733
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		Sunday 5/1/2016	Monday 5/2/2016	Tuesday 5/3/2016	Wednesday 5/4/2016	Thursday 5/5/2016	Friday 5/6/2016	Saturday 5/7/2016	Sunday 5/8/2016	Monday 5/9/2016	Tuesday 5/10/2016	Wednesday 5/11/2016	Thursday 5/12/2016	Friday 5/13/2016	Saturday 5/14/2016	Sunday 5/15/2016	Monday 5/16/2016	Tuesday 5/17/2016
Date																		
Hour																		
1		2,454	2,456	2,531	2,533	2,534	2,533	2,463	2,465	2,414	2,334	2,409	2,409	2,411	2,484	2,412	2,359	2,359
2		2,456	2,457	2,531	2,536	2,535	2,534	2,465	2,467	2,415	2,336	2,409	2,410	2,413	2,484	2,413	2,359	2,360
3		2,458	2,460	2,534	2,537	2,537	2,537	2,467	2,469	2,418	2,339	2,413	2,411	2,416	2,486	2,415	2,362	2,362
4		2,454	2,456	2,530	2,533	2,533	2,532	2,465	2,465	2,413	2,333	2,341	2,408	2,412	2,483	2,413	2,357	2,359
5		2,456	2,458	2,531	2,535	2,535	2,534	2,465	2,467	2,416	2,336	2,337	2,409	2,412	2,483	2,412	2,358	2,360
6		2,458	2,460	2,534	2,538	2,536	2,536	2,468	2,469	2,418	2,338	2,340	2,411	2,417	2,434	2,416	2,362	2,362
7		2,454	2,457	2,531	2,533	2,534	2,533	2,465	2,467	2,416	2,352	2,338	2,411	2,414	2,413	2,412	2,359	2,361
8		2,456	2,458	2,533	2,537	2,535	2,531	2,468	2,468	2,416	2,413	2,341	2,410	2,413	2,412	2,413	2,352	2,363
9		2,458	2,447	2,527	2,530	2,531	2,533	2,469	2,471	2,417	2,408	2,340	2,406	2,410	2,414	2,412	2,351	2,359
10		2,454	2,453	2,527	2,528	2,527	2,530	2,468	2,468	2,398	2,403	2,341	2,402	2,405	2,411	2,408	2,347	2,351
11		2,456	2,457	2,524	2,531	2,532	2,530	2,469	2,469	2,371	2,386	2,407	2,404	2,405	2,412	2,408	2,346	2,350
12		2,458	2,462	2,536	2,538	2,533	2,532	2,473	2,472	2,471	2,372	2,408	2,406	2,405	2,413	2,414	2,351	2,355
13		2,454	2,532	2,529	2,534	2,531	2,528	2,468	2,469	2,420	2,403	2,405	2,401	2,401	2,410	2,412	2,348	2,352
14		2,457	2,580	2,532	2,536	2,533	2,527	2,470	2,469	2,402	2,403	2,405	2,402	2,425	2,410	2,412	2,415	2,404
15		2,459	2,580	2,534	2,599	2,535	2,527	2,473	2,472	2,421	2,409	2,407	2,404	2,522	2,412	2,415	2,424	2,423
16		2,455	2,576	2,532	2,602	2,529	2,526	2,469	2,469	2,448	2,402	2,404	2,398	2,341	2,409	2,412	2,420	2,422
17		2,457	2,585	2,537	2,608	2,537	2,525	2,470	2,470	2,420	2,402	2,407	2,401	2,327	2,410	2,413	2,420	2,424
18		2,460	2,549	2,540	2,556	2,539	2,478	2,472	2,472	2,392	2,404	2,415	2,404	2,483	2,414	2,415	2,428	2,428
19		2,456	2,534	2,536	2,537	2,535	2,466	2,469	2,468	2,390	2,407	2,412	2,401	2,484	2,411	2,412	2,435	2,427
20		2,458	2,536	2,537	2,537	2,535	2,466	2,469	2,467	2,391	2,413	2,414	2,406	2,485	2,412	2,412	2,435	2,433
21		2,460	2,537	2,537	2,538	2,537	2,467	2,471	2,469	2,392	2,415	2,416	2,411	2,488	2,415	2,414	2,397	2,437
22		2,455	2,531	2,534	2,534	2,533	2,463	2,465	2,418	2,387	2,410	2,411	2,412	2,483	2,412	2,367	2,361	2,434
23		2,457	2,533	2,534	2,535	2,533	2,465	2,468	2,414	2,385	2,411	2,411	2,413	2,484	2,413	2,360	2,360	2,433
24		2,460	2,535	2,538	2,538	2,536	2,468	2,469	2,418	2,361	2,413	2,413	2,416	2,488	2,415	2,362	2,363	2,437
TOTAL		58,960	60,089	60,789	61,063	60,815	60,301	59,238	59,092	57,792	57,242	57,344	57,766	58,344	58,272	57,754	57,069	57,355
Cumulative Output Sold, kWhr		58,960	119,049	179,838	240,901	301,716	362,017	421,255	480,347	538,139	595,381	652,725	710,491	768,835	827,107	884,861	941,930	999,285
Transformer and line efficiency		99.8%	99.8%	99.8%	99.8%	99.8%	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		2,457	2,504	2,533	2,544	2,534	2,513	2,468	2,462	2,408	2,385	2,389	2,407	2,431	2,428	2,406	2,378	2,390

MAY 2016																				
CNBE Daily Reports Summary Data		Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday					
		5/18/2016	5/19/2016	5/20/2016	5/21/2016	5/22/2016	5/23/2016	5/24/2016	5/25/2016	5/26/2016	5/27/2016	5/28/2016	5/29/2016	5/30/2016	5/31/2016	TOTAL	Biogas	LFG		
LFG and Biogas Flow to the Engine		1,423	1,413	1,439	1,437	1,438	1,395	1,376	1,394	1,405	1,383	1,379	1,393	1,357	1,346	43,848	983	42,865		
LFG and Biogas Flow to the Engine		795	796	805	807	815	788	739	718	728	726	725	731	725	720	24,356	673	23,683		
LFG and Biogas Flow to the Flare (t		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8%	97%		
LFG and BiogasFlow to the Flare (lb		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
LFG and Biogas Total Flow (KSCF)		1,423	1,413	1,439	1,437	1,438	1,395	1,376	1,394	1,405	1,383	1,379	1,393	1,357	1,346	43,848				
LFG and Biogas Total Flow (MMBTU)		795	796	805	807	815	788	739	718	728	726	725	731	725	720	24,356				
Average Methane Content (%)		55.2	55.7	55.2	55.5	56.0	55.8	53.0	50.9	51.2	51.9	51.9	51.8	52.8	52.8	54.9				
Engine 1 Hours		24	24	24	24	24	24	24	24	24	24	24	24	24	24	742				
Engine 2 Hours		24	24	23	24	24	24	24	24	10	-	-	-	-	-	609				
Engine 3 Hours		24	23	24	24	24	24	24	24	24	24	24	24	24	24	743				
Engine 4 Hours		24	22	24	24	24	24	24	24	24	24	24	24	24	24	742				
Generator 1 Power Output (kWhr)		14,428	16,044	15,608	15,608	15,604	15,610	15,608	15,012	17,710	19,986	19,986	19,984	19,988	19,972	495,334				
Generator 2 Power Output (kWhr)		14,432	15,418	13,798	14,428	14,430	14,430	14,434	14,430	5,850	-	-	-	-	-	375,248				
Generator 3 Power Output (kWhr)		14,994	14,394	15,580	15,578	15,580	14,810	14,624	14,394	17,684	19,970	19,974	19,968	19,972	19,956	495,696				
Generator 4 Power Output (kWhr)		15,354	13,488	14,668	14,382	14,718	14,384	14,414	14,832	17,886	19,946	19,946	19,940	19,944	19,932	504,038				
Gross Power Output (kWhr)		59,175	59,327	59,636	59,986	60,329	59,231	59,065	58,676	59,106	59,849	59,856	59,847	59,849	59,817	1,869,906				
Net Power Output (kWhr)		57,155	57,330	57,620	58,038	58,391	57,192	57,065	56,621	57,111	57,924	57,986	57,993	58,056	57,846	1,807,961				
Power Sold as metered by NStar, (k		56,996	57,152	57,444	57,854	58,218	57,014	56,904	56,437	56,918	57,755	57,810	57,825	57,910	57,719	1,803,241	CRMCB inplant			
Offgrid RECs (kWhr)		2,020	1,998	2,016	1,948	1,938	2,039	2,000	2,055	1,995	1,925	1,870	1,854	1,793	1,971	61,945	9,370			
Calculated Performance Results																	15%			
Daily																	of total in-plant			
Power output (kW average whe																	power			
Generator 1		601	669	650	650	650	650	650	626	738	833	833	833	833	832					
Generator 2		601	642	600	601	601	601	601	601	585	-	-	-	-	-					
Generator 3		625	626	649	649	617	609	600	737	832	832	832	832	832	832					
Generator 4		640	613	611	599	613	599	601	618	745	831	831	831	831	831					
Power output (kW average over																				
Facility Gross		2,466	2,472	2,485	2,499	2,514	2,468	2,461	2,445	2,463	2,494	2,494	2,494	2,494	2,492	2,516				
Facility Net		2,381	2,389	2,401	2,418	2,433	2,383	2,378	2,359	2,380	2,414	2,416	2,416	2,419	2,410	2,432				
In-plant load		84	83	84	81	81	85	83	86	83	80	78	77	75	82					
Daily availability factor																				
Facility		100%	97%	99%	100%	100%	100%	100%	100%	85%	75%	75%	75%	75%	75%					
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%					
Engine 2		100%	100%	96%	100%	100%	100%	100%	100%	42%	0%	0%	0%	0%	0%					
Engine 3		100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%					
Engine 4		100%	92%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%					
Daily capacity factor																				
Facility		75%	75%	75%	76%	76%	75%	75%	74%	75%	76%	76%	76%	76%	76%					
Engine 1		73%	81%	79%	79%	79%	79%	79%	76%	89%	101%	101%	101%	101%	101%					
Engine 2		73%	78%	73%	73%	73%	73%	73%	73%	71%	0%	0%	0%	0%	0%					
Engine 3		76%	76%	79%	79%	79%	75%	74%	73%	89%	101%	101%	101%	101%	101%					
Engine 4		78%	74%	74%	73%	74%	73%	73%	75%	90%	101%	101%	101%	101%	101%					
Cumulative by engine																				
Engine operating run hours in th																				
Max Cumulative Available, t		432	456	480	504	528	552	576	600	624	648	672	696	720	720					
Engine 1		430	454	478	502	526	550	574	598	622	646	670	694	718	718					
Engine 2		432	456	479	503	527	551	575	599	609	609	609	609	609	609					
Engine 3		432	455	479	503	527	551	575	599	623	647	671	695	719	719					
Engine 4		432	454	478	502	526	550	574	598	622	646	670	694	718	718					
Engine operating run hours tota																				
Engine 1		82,991	83,015	83,039	83,063	83,087	83,111	83,135	83,159	83,183	83,207	83,231	83,255	83,279	83,279					
Engine 2		80,186	80,210	80,233	80,257	80,281	80,305	80,329	80,353	80,363	80,363	80,363	80,363	80,363	80,363					
Engine 3		82,694	82,717	82,741	82,765	82,789	82,813	82,837	82,861	82,885	82,909	82,933	82,957	82,981	82,981					
Engine 4		79,280	79,302	79,326	79,350	79,374	79,398	79,422	79,446	79,470	79,494	79,518	79,542	79,566	79,566					
Cumulative availability, %																				
Engine 1		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%					
Engine 2		100%	100%	100%	100%	100%	100%	100%	100%	98%	94%	91%	88%	85%	85%					
Engine 3		100%	100%	100%	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%					
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	24,750					
Engine 1		11,243	11,912	12,562	13,213	13,863	14,513	15,164	15,789	16,527	17,360	18,192	19,025	19,858	19,857					
Engine 2		11,170	11,813	12,412	13,014	13,615	14,216	14,818	15,419	16,004	16,004	16,004	16,004	16,004	16,004					
Engine 3		11,384	12,010	12,659	13,308	13,957	14,574	15,183	15,783	16,520	17,352	18,184	19,016	19,849	19,848					
Engine 4		11,898	12,511	13,123	13,722	14,335	14,934	15,535	16,153	16,898	17,729	18,560	19,391	20,222	20,222					
Cumulative capacity factor, %																				
Engine 1		76%	76%	76%	76%	76%	76%	77%	77%	77%	78%	79%	80%	80%	80%					
Engine 2		75%	75%	75%	75%	75%	75%	75%	75%	75%	72%	69%	67%	65%	65%					
Engine 3		77%	77%	77%	77%	77%	77%	77%	77%	77%	78%	79%	79%	80%	80%					
Engine 4		80%	80%	80%	79%	79%	79%	78%	78%	79%	80%	80%	81%	82%	82%					

	Wednesday 5/18/2016	Thursday 5/19/2016	Friday 5/20/2016	Saturday 5/21/2016	Sunday 5/22/2016	Monday 5/23/2016	Tuesday 5/24/2016	Wednesday 5/25/2016	Thursday 5/26/2016	Friday 5/27/2016	Saturday 5/28/2016	Sunday 5/29/2016	Monday 5/30/2016	Tuesday 5/31/2016	TOTAL	Biogas	LFG
Cumulative by Facility in month																	
Max cumulative available engine run hours	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	2,880			
Actual cumulative engine run hours	1,726	1,819	1,914	2,010	2,106	2,202	2,298	2,394	2,476	2,548	2,620	2,692	2,764	2,764			
Cumulative Availability, %	99.9%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.8%	99.2%	98.3%	97.5%	96.7%	96.0%	96.0%			
Max cumulative gross output, kWh	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	2,376,000			
Actual cumulative gross output, kWh	1,095,332	1,154,659	1,214,295	1,274,281	1,334,610	1,393,841	1,452,906	1,511,582	1,570,688	1,630,537	1,690,393	1,750,240	1,810,089	1,810,057			
Cumulative Capacity Factor	76.8%	76.7%	76.7%	76.6%	76.6%	76.5%	76.4%	76.3%	76.3%	76.3%	76.2%	76.2%	76.2%	76.2%			
Cumulative fuel input, MMBtu/H	14,534	15,331	16,136	16,943	17,758	18,546	19,285	20,002	20,730	21,456	22,181	22,911	23,636	23,631			
Cumulative gross output, kWh	1,095,332	1,154,659	1,214,295	1,274,281	1,334,610	1,393,841	1,452,906	1,511,582	1,570,688	1,630,537	1,690,393	1,750,240	1,810,089	1,810,057			
Heat Rate																	
Daily heat rate, Btu/kWe gross	12,095	12,084	12,147	12,115	12,162	11,982	11,255	11,008	11,083	10,918	10,901	10,991	10,900	10,829			
Daily heat rate, Btu/kWe gross	13,436	13,424	13,494	13,458	13,511	13,311	12,503	12,228	12,312	12,129	12,109	12,209	12,109	12,030			
Cumulative heat rate, Btu/kWe gross	11,945	11,952	11,962	11,969	11,978	11,978	11,949	11,912	11,881	11,846	11,812	11,784	11,755	11,752			
Cumulative heat rate, Btu/kWe gross	13,269	13,277	13,288	13,296	13,306	13,306	13,273	13,233	13,198	13,159	13,122	13,090	13,058	13,055			
Cumulative by Facility starting Calendar Year																	
Max cumulative available engine run hours	13,148	13,244	13,340	13,436	13,532	13,628	13,724	13,820	13,916	14,012	14,108	14,204	14,300	14,300			
Actual cumulative engine run hours	12,145	12,238	12,333	12,429	12,525	12,621	12,717	12,813	12,895	12,967	13,039	13,111	13,183	13,183			
Cumulative Availability, %	92.4%	92.4%	92.5%	92.5%	92.6%	92.6%	92.7%	92.7%	92.7%	92.5%	92.4%	92.3%	92.2%	92.2%			
Max cumulative gross output, kWh	10,847,100	10,926,300	11,005,500	11,084,700	11,163,900	11,243,100	11,322,300	11,401,500	11,480,700	11,559,900	11,639,100	11,718,300	11,797,500	11,797,500			
Actual cumulative gross output, kWh	8,677,671	8,736,998	8,796,634	8,856,620	8,916,949	8,976,180	9,035,245	9,093,921	9,153,027	9,212,876	9,272,732	9,332,579	9,392,428	9,392,396			
Cumulative Capacity Factor	80.0%	80.0%	79.9%	79.9%	79.9%	79.8%	79.8%	79.8%	79.7%	79.7%	79.7%	79.6%	79.6%	79.6%			
Cumulative fuel input, MMBtu/H	110,534	111,330	112,135	112,942	113,758	114,546	115,284	116,002	116,730	117,456	118,180	118,911	119,636	119,631			
Cumulative gross output, kWh	8,677,671	8,736,998	8,796,634	8,856,620	8,916,949	8,976,180	9,035,245	9,093,921	9,153,027	9,212,876	9,272,732	9,332,579	9,392,428	9,392,396			
Cumulative heat rate, Btu/kWe gross	11,466	11,471	11,475	11,480	11,484	11,488	11,486	11,483	11,480	11,477	11,473	11,470	11,466	11,466			
Cumulative heat rate, Btu/kWe gross	12,738	12,742	12,748	12,752	12,757	12,761	12,759	12,756	12,753	12,749	12,745	12,741	12,737	12,737			
Service																	
Engine 1																	
Engine 2																	
Engine 3																	
Engine 4																	
Oil - oil and filter change																	
Service - plugs, air filter, valve inspection																	
Precipitation																	
NSTAR Power Reports	Wednesday 5/18/2016	Thursday 5/19/2016	Friday 5/20/2016	Saturday 5/21/2016	Sunday 5/22/2016	Monday 5/23/2016	Tuesday 5/24/2016	Wednesday 5/25/2016	Thursday 5/26/2016	Friday 5/27/2016	Saturday 5/28/2016	Sunday 5/29/2016	Monday 5/30/2016	Tuesday 5/31/2016	TOTAL		
Hour																	
1	2,434	2,364	2,411	2,410	2,412	2,410	2,363	2,362	2,360	2,412	2,410	2,409	2,412	2,411			
2	2,434	2,364	2,412	2,411	2,412	2,410	2,362	2,361	2,360	2,411	2,410	2,409	2,411	2,410			
3	2,438	2,367	2,414	2,415	2,415	2,413	2,366	2,365	2,364	2,414	2,414	2,413	2,415	2,414			
4	2,435	2,363	2,411	2,409	2,456	2,409	2,363	2,363	2,361	2,413	2,411	2,411	2,413	2,411			
5	2,434	2,364	2,411	2,410	2,460	2,409	2,363	2,362	2,338	2,411	2,411	2,411	2,412	2,411			
6	2,371	2,369	2,414	2,414	2,463	2,414	2,368	2,366	2,317	2,416	2,416	2,415	2,416	2,414			
7	2,365	2,365	2,412	2,412	2,460	2,412	2,366	2,364	2,314	2,413	2,413	2,412	2,414	2,413			
8	2,358	2,366	2,411	2,410	2,460	2,411	2,365	2,362	2,312	2,411	2,411	2,408	2,414	2,411			
9	2,356	2,176	2,405	2,412	2,462	2,382	2,360	2,356	2,305	2,405	2,412	2,411	2,418	2,408			
10	2,350	2,211	2,400	2,408	2,458	2,352	2,352	2,353	2,303	2,399	2,408	2,407	2,415	2,402			
11	2,352	2,432	2,401	2,408	2,410	2,352	2,353	2,352	2,367	2,398	2,406	2,406	2,412	2,402			
12	2,356	2,441	2,405	2,408	2,414	2,351	2,356	2,345	2,372	2,399	2,408	2,409	2,415	2,400			
13	2,352	2,322	2,401	2,406	2,410	2,347	2,353	2,303	2,394	2,394	2,406	2,407	2,412	2,399			
14	2,353	2,403	2,401	2,407	2,410	2,347	2,357	2,301	2,395	2,391	2,404	2,405	2,411	2,396			
15	2,351	2,449	2,358	2,411	2,413	2,351	2,358	2,304	2,396	2,394	2,407	2,408	2,414	2,399			
16	2,351	2,447	1,939	2,409	2,410	2,349	2,416	2,346	2,396	2,399	2,404	2,405	2,412	2,396			
17	2,353	2,447	2,386	2,409	2,410	2,359	2,402	2,354	2,402	2,405	2,403	2,405	2,411	2,398			
18	2,365	2,433	2,456	2,413	2,413	2,362	2,409	2,358	2,407	2,410	2,408	2,409	2,414	2,403			
19	2,362	2,408	2,456	2,410	2,411	2,361	2,408	2,357	2,405	2,407	2,406	2,408	2,412	2,401			
20	2,364	2,411	2,457	2,411	2,411	2,361	2,411	2,358	2,406	2,408	2,405	2,408	2,411	2,401			
21	2,368	2,415	2,449	2,415	2,414	2,365	2,366	2,363	2,412	2,413	2,410	2,413	2,414	2,406			
22	2,364	2,411	2,410	2,411	2,411	2,362	2,361	2,360	2,410	2,410	2,408	2,411	2,410	2,404			
23	2,363	2,410	2,410	2,410	2,410	2,360	2,361	2,359	2,409	2,409	2,408	2,410	2,409	2,402			
24	2,367	2,414	2,414	2,415	2,413	2,365	2,365	2,363	2,413	2,413	2,411	2,415	2,413	2,407			
TOTAL	56,996	57,152	57,444	57,854	58,218	57,014	56,904	56,437	56,918	57,755	57,810	57,825	57,910	57,719			
Cumulative Output Sold, kWh	1,056,281	1,113,433	1,170,877	1,228,731	1,286,949	1,343,963	1,400,867	1,457,304	1,514,222	1,571,977	1,629,787	1,687,612	1,745,522	1,803,241			
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%	99.8%	0.0%		
Hourly average	2,375	2,381	2,394	2,411	2,426	2,376	2,371	2,352	2,372	2,406	2,409	2,409	2,413	2,405	2,424		

APRIL 2016																			
CNBE Daily Reports Summary Data																			
		Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
		4/1/2016	4/2/2016	4/3/2016	4/4/2016	4/5/2016	4/6/2016	4/7/2016	4/8/2016	4/9/2016	4/10/2016	4/11/2016	4/12/2016	4/13/2016	4/14/2016	4/15/2016	4/16/2016	4/17/2016	
LFG and Biogas Flow to the Engines (KSCF)		1,107	1,244	100	632	1,395	1,255	1,091	1,226	1,335	1,457	1,408	1,375	1,360	1,308	1,369	1,326	1,326	
LFG and Biogas Flow to the Engines (MMBTU)		639	697	50	351	800	728	649	722	761	797	784	765	764	756	778	750	751	
LFG and Biogas Flow to the Flare (KSCF)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Flow to the Flare (MMBTU HHV)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFG and Biogas Total Flow (KSCF)		1,107	1,244	100	632	1,395	1,255	1,091	1,226	1,335	1,457	1,408	1,375	1,360	1,308	1,369	1,326	1,326	
LFG and Biogas Total Flow (MMBTU HHV)		639	697	50	351	800	728	649	722	761	797	784	765	764	756	778	750	751	
Average Methane Content (%)		57.1	55.4	49.4	54.9	56.6	57.3	58.8	58.2	56.4	54.1	55.0	55.0	55.5	57.1	56.1	55.9	56.0	
Engine 1 Hours		-	-	-	-	-	-	-	-	-	-	-	-	-	1	6	-	-	
Engine 2 Hours		24	24	2	7	24	24	24	24	23	24	24	24	24	22	24	24	24	
Engine 3 Hours		8	24	3	9	24	24	24	24	24	24	24	24	24	24	24	24	24	
Engine 4 Hours		24	24	2	9	24	18	9	20	24	24	23	24	24	24	24	24	24	
Generator 1 Power Output (kWhr)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,032	-	-	
Generator 2 Power Output (kWhr)		19,734	19,726	1,420	6,434	19,730	19,718	19,688	19,736	18,294	19,968	19,972	19,826	19,954	17,814	19,732	19,736	19,736	
Generator 3 Power Output (kWhr)		3,166	9,682	702	6,430	19,736	19,730	19,694	19,740	19,880	19,974	19,974	19,974	19,974	19,968	19,410	19,800	18,562	
Generator 4 Power Output (kWhr)		19,958	19,964	1,346	6,450	19,712	12,492	2,716	10,684	19,858	19,954	18,608	19,778	18,526	19,288	19,424	18,592	18,522	
Gross Power Output (kWhr)		42,776	49,386	3,572	19,180	59,068	51,840	41,994	50,079	57,907	59,765	58,447	59,469	58,353	56,961	60,499	58,042	56,749	
Net Power Output (kWhr)		41,347	48,049	3,352	18,310	56,985	49,869	40,322	48,495	56,245	58,037	56,700	57,704	56,547	55,192	58,586	56,221	54,971	
Power Sold as metered by NStar, (kWhr)		41,281	47,919	3,458	18,254	56,883	49,847	40,256	48,380	56,120	57,887	56,550	57,573	56,436	55,101	58,446	56,090	54,827	
Offgrid REC's (kWhr)		1,430	1,337	220	870	2,083	1,971	1,672	1,584	1,662	1,728	1,747	1,766	1,806	1,770	1,913	1,820	1,778	
Calculated Performance Results																			
Daily																			
Power output (kW average when running)																			
Generator 1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	339	-	-	
Generator 2		822	822	710	919	822	822	820	822	795	832	832	826	831	810	822	822	822	
Generator 3		396	403	234	714	822	822	821	823	828	832	832	832	832	832	809	825	773	
Generator 4		832	832	673	717	821	694	302	534	827	831	809	824	772	804	809	775	772	
Power output (kW average over 24-hrs)																			
Facility Gross		1,782	2,058	149	799	2,461	2,160	1,750	2,087	2,413	2,490	2,435	2,478	2,431	2,373	2,521	2,418	2,365	
Facility Net		1,723	2,002	140	763	2,374	2,078	1,680	2,021	2,344	2,418	2,363	2,404	2,356	2,300	2,441	2,343	2,290	
In-plant load		60	56	9	36	87	82	70	66	69	72	73	74	75	74	80	76	74	
Daily availability factor																			
Facility		58%	75%	7%	26%	75%	69%	59%	71%	74%	75%	74%	75%	75%	74%	81%	75%	75%	
Engine 1		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	25%	0%	0%	
Engine 2		100%	100%	8%	29%	100%	100%	100%	100%	96%	100%	100%	100%	100%	92%	100%	100%	100%	
Engine 3		33%	100%	13%	38%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Engine 4		100%	100%	8%	38%	100%	75%	38%	83%	100%	100%	96%	100%	100%	100%	100%	100%	100%	
Daily capacity factor																			
Facility		54%	62%	5%	24%	75%	65%	53%	63%	73%	75%	74%	75%	74%	72%	76%	73%	72%	
Engine 1		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	41%	0%	0%	
Engine 2		100%	100%	86%	111%	100%	100%	99%	100%	96%	101%	101%	100%	101%	98%	100%	100%	100%	
Engine 3		48%	49%	28%	87%	100%	100%	99%	100%	100%	101%	101%	101%	101%	101%	98%	100%	94%	
Engine 4		101%	101%	82%	87%	100%	84%	37%	65%	100%	101%	98%	100%	94%	97%	98%	94%	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		0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	7	7	
Engine 2		24	48	50	57	81	105	129	153	176	200	224	248	272	294	318	342	366	
Engine 3		8	32	35	44	68	92	116	140	164	188	212	236	260	284	308	332	356	
Engine 4		24	48	50	59	83	101	110	130	154	178	201	225	249	273	297	321	345	
Engine operating run hours total from 0 hours																			
Engine 1		82,274	82,274	82,274	82,274	82,274	82,274	82,274	82,274	82,274	82,274	82,274	82,274	82,274	82,275	82,281	82,281	82,281	
Engine 2		79,078	79,102	79,126	79,128	79,135	79,159	79,183	79,207	79,231	79,254	79,278	79,302	79,326	79,350	79,372	79,396	79,420	
Engine 3		81,639	81,647	81,671	81,674	81,683	81,707	81,731	81,755	81,779	81,803	81,827	81,851	81,875	81,899	81,923	81,947	81,971	
Engine 4		78,192	78,216	78,240	78,242	78,251	78,275	78,293	78,302	78,322	78,346	78,370	78,393	78,417	78,441	78,465	78,489	78,513	
Cumulative availability, %		April 1, 2016 @ 00:00 hours																	
Engine 1		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	2%	2%	
Engine 2		100%	100%	69%	59%	68%	73%	77%	80%	81%	83%	85%	86%	87%	88%	88%	89%	90%	
Engine 3		33%	67%	49%	46%	57%	64%	69%	73%	76%	78%	80%	82%	83%	85%	86%	86%	87%	
Engine 4		100%	100%	69%	61%	69%	70%	65%	68%	71%	74%	76%	78%	80%	81%	83%	84%	85%	
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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	339	339	339	
Engine 2		822	1,644	2,354	3,273	4,095	4,917	5,737	6,560	7,355	8,187	9,019	9,845	10,677	11,486	12,309	13,131	13,953	
Engine 3		396	799	1,033	1,748	2,570	3,392	4,213	5,035	5,863	6,696	7,528	8,360	9,192	10,024	10,833	11,658	12,432	
Engine 4		832	1,663	2,336	3,053	3,874	4,568	4,870	5,404	6,232	7,063	7,872	8,696	9,468	10,272	11,081	11,856	12,628	
Cumulative capacity factor, %																			
Engine 1		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	3%	2%	
Engine 2		100%	100%	95%	99%	99%	99%	99%	99%	99%	99%	99%	99%	100%	99%	99%	99%	99%	
Engine 3		48%	48%	42%	53%	62%	69%	73%	76%	79%	81%	83%	84%	86%	87%	88%	88%	89%	
Engine 4		101%	101%	94%	93%	94%	92%	84%	82%	84%	86%	87%	88%	88%	89%	90%	90%	90%	

	Friday 4/1/2016	Saturday 4/2/2016	Sunday 4/3/2016	Monday 4/4/2016	Tuesday 4/5/2016	Wednesday 4/6/2016	Thursday 4/7/2016	Friday 4/8/2016	Saturday 4/9/2016	Sunday 4/10/2016	Monday 4/11/2016	Tuesday 4/12/2016	Wednesday 4/13/2016	Thursday 4/14/2016	Friday 4/15/2016	Saturday 4/16/2016	Sunday 4/17/2016
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	56	128	135	160	232	298	355	423	494	566	637	709	781	852	930	1,002	1,074
Cumulative Availability, %	58.3%	66.7%	46.9%	41.7%	48.3%	51.7%	52.8%	55.1%	57.2%	59.0%	60.3%	61.5%	62.6%	63.4%	64.6%	65.2%	65.8%
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	42,776	92,162	95,734	114,914	173,982	225,822	267,816	317,895	375,802	435,567	494,014	553,483	611,836	668,797	729,296	787,338	844,087
Cumulative Capacity Factor	54.0%	58.2%	40.3%	36.3%	43.9%	47.5%	48.3%	50.2%	52.7%	55.0%	56.7%	58.2%	59.4%	60.3%	61.4%	62.1%	62.7%
Cumulative fuel input, MMBtu HHV	639	1,337	1,387	1,738	2,538	3,266	3,914	4,636	5,397	6,194	6,978	7,743	8,507	9,264	10,041	10,792	11,543
Cumulative gross output, kWhr	42,776	92,162	95,734	114,914	173,982	225,822	267,816	317,895	375,802	435,567	494,014	553,483	611,836	668,797	729,296	787,338	844,087
Heat Rate																	
Daily heat rate, Btu/kWe gross LHV	13,452	12,710	12,601	16,488	12,189	12,640	13,904	12,975	11,835	12,003	12,071	11,583	11,791	11,951	11,575	11,638	11,913
Daily heat rate, Btu/kWe gross HHV	14,943	14,119	13,998	18,316	13,540	14,041	15,445	14,413	13,147	13,334	13,409	12,867	13,098	13,276	12,858	12,929	13,234
Cumulative heat rate, Btu/kWe gross LHV	13,452	13,054	13,037	13,613	13,130	13,017	13,156	13,128	12,928	12,802	12,715	12,593	12,517	12,469	12,394	12,339	12,310
Cumulative heat rate, Btu/kWe gross HHV	14,943	14,502	14,483	15,123	14,585	14,461	14,615	14,583	14,362	14,221	14,125	13,990	13,905	13,851	13,769	13,707	13,675
Cumulative by Facility starting Calendar Year																	
Max cumulative available engine run hours	8,636	8,732	8,828	8,924	9,020	9,116	9,212	9,308	9,404	9,500	9,596	9,692	9,788	9,884	9,980	10,076	10,172
Actual cumulative engine run hours	8,233	8,305	8,312	8,337	8,409	8,475	8,532	8,600	8,671	8,743	8,814	8,886	8,958	9,029	9,107	9,179	9,251
Cumulative Availability, %	95.3%	95.1%	94.2%	93.4%	93.2%	93.0%	92.6%	92.4%	92.2%	92.0%	91.8%	91.7%	91.5%	91.3%	91.3%	91.1%	90.9%
Max cumulative gross output, kWhr	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	8,391,900
Actual cumulative gross output, kWhr	5,947,892	5,997,278	6,000,850	6,020,030	6,079,098	6,130,938	6,172,932	6,223,011	6,280,918	6,340,683	6,399,130	6,458,599	6,516,952	6,573,913	6,634,412	6,692,454	6,749,203
Cumulative Capacity Factor	83.5%	83.3%	82.4%	81.8%	81.7%	81.5%	81.2%	81.0%	81.0%	80.9%	80.8%	80.8%	80.7%	80.6%	80.6%	80.5%	80.4%
Cumulative fuel input, MMBtu HHV	74,709	75,407	75,457	75,808	76,608	77,336	77,984	78,706	79,467	80,264	81,048	81,813	82,577	83,334	84,112	84,862	85,613
Cumulative gross output, kWhr	5,947,892	5,997,278	6,000,850	6,020,030	6,079,098	6,130,938	6,172,932	6,223,011	6,280,918	6,340,683	6,399,130	6,458,599	6,516,952	6,573,913	6,634,412	6,692,454	6,749,203
Cumulative heat rate, Btu/kWe gross LHV	11,307	11,319	11,319	11,336	11,344	11,355	11,372	11,385	11,389	11,395	11,401	11,403	11,407	11,411	11,413	11,415	11,419
Cumulative heat rate, Btu/kWe gross HHV	12,561	12,573	12,574	12,593	12,602	12,614	12,633	12,648	12,652	12,659	12,665	12,667	12,671	12,676	12,678	12,680	12,685
Service																	
Engine 1																	
Engine 2																	
Engine 3	Dropped valves, Replace 6 cylinder heads and 1 piston																
Engine 4						Cylinder head #7 change											
Oil - oil and filter change			Failed Utility Breaker				Dungs valve stuck on E-4. H2S safety.										
Service - plugs, air filter, valve inspection and adjustment						District change valving											
Precipitation																	
NSTAR Power Reports	Friday 4/1/2016	Saturday 4/2/2016	Sunday 4/3/2016	Monday 4/4/2016	Tuesday 4/5/2016	Wednesday 4/6/2016	Thursday 4/7/2016	Friday 4/8/2016	Saturday 4/9/2016	Sunday 4/10/2016	Monday 4/11/2016	Tuesday 4/12/2016	Wednesday 4/13/2016	Thursday 4/14/2016	Friday 4/15/2016	Saturday 4/16/2016	Sunday 4/17/2016
Date	4/1/2016	4/2/2016	4/3/2016	4/4/2016	4/5/2016	4/6/2016	4/7/2016	4/8/2016	4/9/2016	4/10/2016	4/11/2016	4/12/2016	4/13/2016	4/14/2016	4/15/2016	4/16/2016	4/17/2016
Hour																	
1	1,596	1,989	1,993	-	2,364	2,370	1,565	1,922	2,385	2,408	2,408	2,412	2,352	2,353	2,277	2,395	2,278
2	1,668	1,996	1,213	-	2,370	2,375	1,569	1,927	2,388	2,411	2,411	2,415	2,358	2,357	2,276	2,355	2,281
3	1,928	1,997	-	-	2,371	2,376	1,569	1,927	2,389	2,411	2,411	2,417	2,358	2,358	2,278	2,341	2,282
4	2,080	1,991	229	-	2,365	2,371	1,563	1,921	2,383	2,405	2,408	2,412	2,352	2,353	2,272	2,335	2,278
5	2,136	1,997	-	-	2,370	2,376	1,568	1,925	2,387	2,410	2,411	2,416	2,355	2,357	2,276	2,338	2,280
6	2,087	1,997	23	-	2,370	2,375	1,569	1,925	2,350	2,410	2,414	2,416	2,357	2,358	2,278	2,340	2,283
7	1,834	1,992	-	-	2,365	2,371	1,565	1,921	1,714	2,406	2,409	2,402	2,342	2,354	2,273	2,336	2,278
8	1,597	1,998	-	-	2,367	2,369	1,570	1,916	1,611	2,410	2,414	2,363	2,346	2,345	2,279	2,342	2,283
9	1,593	1,999	-	-	2,362	2,370	1,565	1,925	2,308	2,414	2,411	2,360	2,350	2,350	2,279	2,343	2,286
10	1,585	1,994	-	-	2,359	2,360	1,557	1,922	2,391	2,411	2,405	2,394	2,321	2,348	2,401	2,340	2,283
11	1,588	1,999	-	-	2,369	2,359	1,564	1,926	2,416	2,417	2,409	2,401	2,328	2,052	2,670	2,345	2,288
12	1,592	2,000	-	-	2,370	2,364	1,575	1,740	2,416	2,419	2,411	2,406	2,352	1,599	2,746	2,347	2,290
13	1,586	1,994	-	-	2,364	2,369	1,566	1,675	2,412	2,412	2,405	2,401	2,347	1,620	2,743	2,342	2,285
14	1,591	2,000	-	-	2,369	2,370	1,541	1,578	2,420	2,416	2,407	2,401	2,354	2,328	2,782	2,345	2,289
15	1,589	2,000	-	36	2,373	1,731	1,755	1,578	2,420	2,417	2,414	2,402	2,358	2,403	2,795	2,347	2,290
16	1,584	1,995	-	757	2,367	1,609	1,758	1,603	2,414	2,413	2,407	2,404	2,349	2,400	2,593	2,341	2,285
17	1,592	2,000	-	1,269	2,377	1,635	1,586	2,321	2,418	2,417	2,413	2,413	2,354	2,401	2,410	2,344	2,289
18	1,593	2,000	-	1,983	2,380	1,799	1,694	2,394	2,419	2,416	2,414	2,419	2,358	2,403	2,410	2,345	2,291
19	1,590	1,994	-	2,365	2,374	1,735	1,930	2,389	2,411	2,410	2,409	2,412	2,357	2,401	2,403	2,338	2,285
20	1,595	1,999	-	2,370	2,377	1,873	1,923	2,391	2,416	2,411	2,371	2,417	2,361	2,402	2,404	2,341	2,287
21	1,594	1,999	-	2,370	2,377	1,587	1,927	2,392	2,415	2,412	1,603	2,417	2,359	2,400	2,403	2,342	2,288
22	1,783	1,993	-	2,365	2,371	1,565	1,922	2,385	2,410	2,407	1,952	2,360	2,353	2,393	2,397	2,281	2,280
23	2,044	1,998	-	2,368	2,375	1,568	1,928	2,389	2,413	2,411	2,415	2,356	2,357	2,395	2,400	2,282	2,283
24	1,856	1,998	-	2,371	2,377	1,570	1,927	2,388	2,414	2,413	2,418	2,357	2,358	2,371	2,401	2,285	2,285
TOTAL	41,281	47,919	3,458	18,254	56,883	49,847	40,256	48,380	56,120	57,887	56,550	57,573	56,436	55,101	58,446	56,090	54,827
Cumulative Output Sold, kWhr	41,281	89,200	92,658	110,912	167,795	217,642	257,898	306,278	362,398	420,285	476,835	534,408	590,844	645,945	704,391	760,481	815,308
Transformer and line efficiency	99.8%	99.7%	103.2%	99.7%	99.8%	100.0%	99.8%	99.8%	99.8%	99.7%	99.7%	99.8%	99.8%	99.8%	99.8%	99.8%	99.7%
Hourly average	1,720	1,997	144	761	2,370	2,077	1,677	2,016	2,338	2,412	2,356	2,399	2,352	2,296	2,435	2,337	2,288

APRIL 2016																
CNBE Daily Reports Summary Data																
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
	4/18/2016	4/19/2016	4/20/2016	4/21/2016	4/22/2016	4/23/2016	4/24/2016	4/25/2016	4/26/2016	4/27/2016	4/28/2016	4/29/2016	4/30/2016	TOTAL	Biogas	LFG
LFG and Biogas Flow to the Engine	1,444	1,448	1,341	1,288	1,428	1,477	1,439	1,446	1,493	1,537	1,549	1,527	1,493	39,223	2,684	36,539
LFG and Biogas Flow to the Engine	795	782	728	699	775	802	782	783	818	843	876	864	839	21,930	1,901	20,028
LFG and Biogas Flow to the Flare (I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7%	91%
LFG and Biogas Flow to the Flare (I	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LFG and Biogas Total Flow (KSCF	1,444	1,448	1,341	1,288	1,428	1,477	1,439	1,446	1,493	1,537	1,549	1,527	1,493	39,223		
LFG and Biogas Total Flow (MMBT	795	782	728	699	775	802	782	783	818	843	876	864	839	21,930		
Average Methane Content (%)	54.4	53.4	53.7	53.7	53.6	53.7	53.7	53.5	54.1	54.2	55.8	55.9	55.5	55.2		
Engine 1 Hours	14	14	12	24	24	24	24	24	24	24	24	24	24	24	287	
Engine 2 Hours	24	24	24	24	24	24	24	24	24	24	23	24	24	24	677	
Engine 3 Hours	24	24	13	-	13	24	24	24	24	24	24	24	24	24	622	
Engine 4 Hours	24	24	24	24	24	24	23	24	24	24	24	24	24	24	656	
Generator 1 Power Output (kWhr)	6,262	7,514	8,978	19,738	18,348	16,746	15,312	17,208	17,934	17,980	18,254	18,570	17,080	201,956		
Generator 2 Power Output (kWhr)	19,230	19,156	19,966	19,964	17,742	15,020	16,518	16,978	17,324	17,026	16,366	16,776	15,650	528,934		
Generator 3 Power Output (kWhr)	18,736	18,488	10,862	-	8,076	15,480	15,276	16,300	16,142	16,744	17,800	16,188	15,390	461,876		
Generator 4 Power Output (kWhr)	18,800	18,352	19,948	19,950	17,732	14,986	13,636	14,490	16,872	16,994	16,548	16,658	15,290	486,128		
Gross Power Output (kWhr)	62,947	63,414	59,706	59,671	61,899	62,236	60,750	64,971	68,267	68,732	68,952	68,178	63,413	1,677,223		
Net Power Output (kWhr)	61,016	61,542	57,917	57,855	59,918	60,365	58,852	62,957	66,132	66,583	66,752	65,971	61,298	1,624,090		
Power Sold as metered by NStar, (	60,836	61,412	57,777	57,700	59,754	60,231	58,711	62,818	66,183	66,435	66,605	65,824	61,183	1,620,777	CRMCB Inplant	
Offgrid RECs (kWhr)	1,931	1,872	1,789	1,816	1,981	1,871	1,899	2,014	2,135	2,149	2,200	2,207	2,115	53,136	10,734	
Calculated Performance Results															20%	
Daily															of total in-plant	
Power output (kW average whe															power	
Generator 1	447	537	748	822	765	698	638	717	747	749	761	774	712			
Generator 2	801	798	832	832	739	626	688	707	722	709	712	699	652			
Generator 3	781	770	836	-	621	645	637	679	673	698	742	675	641			
Generator 4	783	765	831	831	739	624	593	604	703	708	690	694	637			
Power output (kW average ove																
Facility Gross	2,623	2,642	2,488	2,486	2,579	2,593	2,531	2,707	2,844	2,864	2,873	2,841	2,642			
Facility Net	2,542	2,564	2,413	2,411	2,497	2,515	2,452	2,623	2,756	2,774	2,781	2,749	2,554			
In-plant load	80	78	75	76	83	78	79	84	89	90	92	92	88			
Daily availability factor																
Facility	90%	90%	76%	75%	89%	100%	99%	100%	100%	100%	99%	100%	100%			
Engine 1	58%	58%	50%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	98%	100%	100%			
Engine 3	100%	100%	54%	0%	54%	100%	100%	100%	100%	100%	100%	100%	100%			
Engine 4	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%			
Daily capacity factor																
Facility	79%	80%	75%	75%	78%	79%	77%	82%	86%	87%	87%	86%	80%			
Engine 1	54%	65%	91%	100%	93%	85%	77%	87%	91%	92%	91%	94%	86%			
Engine 2	97%	97%	101%	101%	90%	76%	83%	86%	87%	86%	86%	85%	79%			
Engine 3	95%	93%	101%	0%	75%	78%	77%	82%	82%	85%	85%	90%	78%			
Engine 4	95%	93%	101%	101%	90%	76%	72%	73%	85%	86%	84%	84%	77%			
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	21	35	47	71	95	119	143	167	191	215	239	263	287			
Engine 2	390	414	438	462	486	510	534	558	582	606	629	653	677			
Engine 3	380	404	417	417	430	454	478	502	526	550	574	598	622			
Engine 4	369	393	417	441	465	489	512	536	560	584	608	632	656			
Engine operating run hours to t																
Engine 1	82,295	82,309	82,321	82,345	82,369	82,393	82,417	82,441	82,465	82,489	82,513	82,537	82,561			
Engine 2	79,468	79,492	79,516	79,540	79,564	79,588	79,612	79,636	79,660	79,684	79,707	79,731	79,755			
Engine 3	82,019	82,043	82,056	82,056	82,069	82,093	82,117	82,141	82,165	82,189	82,213	82,237	82,261			
Engine 4	78,561	78,585	78,609	78,633	78,657	78,681	78,704	78,728	78,752	78,776	78,800	78,824	78,848			
Cumulative availability, %																
Engine 1	5%	8%	10%	14%	18%	22%	25%	28%	31%	33%	36%	38%	40%			
Engine 2	90%	91%	92%	92%	92%	92%	93%	93%	93%	94%	94%	94%	94%			
Engine 3	88%	89%	87%	83%	81%	82%	83%	84%	84%	85%	85%	86%	86%			
Engine 4	85%	86%	87%	88%	88%	89%	89%	89%	90%	90%	90%	91%	91%			
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	786	1,323	2,071	2,893	3,658	4,356	4,994	5,711	6,458	7,207	7,968	8,741	9,453			
Engine 2	14,755	15,553	16,385	17,216	17,956	18,582	19,270	19,977	20,699	21,408	22,120	22,819	23,471			
Engine 3	13,212	13,983	14,818	14,818	15,439	16,084	16,721	17,400	18,073	18,770	19,512	20,186	20,828			
Engine 4	13,411	14,176	15,007	15,838	16,577	17,201	17,794	18,398	19,101	19,809	20,499	21,193	21,830			
Cumulative capacity factor, %																
Engine 1	5%	8%	13%	17%	20%	23%	25%	28%	30%	32%	34%	37%	38%			
Engine 2	99%	99%	99%	99%	99%	98%	97%	97%	96%	96%	96%	95%	95%			
Engine 3	89%	89%	90%	86%	85%	85%	84%	84%	84%	84%	84%	84%	84%			
Engine 4	90%	90%	91%	91%	91%	91%	90%	89%	89%	89%	89%	89%	88%			

	Monday 4/18/2016	Tuesday 4/19/2016	Wednesday 4/20/2016	Thursday 4/21/2016	Friday 4/22/2016	Saturday 4/23/2016	Sunday 4/24/2016	Monday 4/25/2016	Tuesday 4/26/2016	Wednesday 4/27/2016	Thursday 4/28/2016	Friday 4/29/2016	Saturday 4/30/2016	TOTAL	Biogas	LFG
Cumulative by Facility in month																
Max cumulative available engine	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 time	1,160	1,246	1,319	1,391	1,476	1,572	1,667	1,763	1,859	1,955	2,050	2,146	2,242			
Cumulative Availability, %	67.1%	68.3%	68.7%	69.0%	69.9%	71.2%	72.4%	73.5%	74.5%	75.4%	76.3%	77.1%	77.8%			
Max cumulative gross output, kWh	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, kWh	907,034	970,448	1,030,154	1,089,825	1,151,724	1,213,960	1,274,710	1,339,681	1,407,948	1,476,680	1,545,632	1,613,810	1,677,223			
Cumulative Capacity Factor	63.6%	64.5%	65.0%	65.5%	66.1%	66.6%	67.1%	67.7%	68.4%	69.1%	69.7%	70.3%	70.6%			
Cumulative fuel input, MMBtu	12,338	13,120	13,848	14,548	15,323	16,125	16,907	17,690	18,508	19,351	20,226	21,091	21,930			
Cumulative gross output, kWh	907,034	970,448	1,030,154	1,089,825	1,151,724	1,213,960	1,274,710	1,339,681	1,407,948	1,476,680	1,545,632	1,613,810	1,677,223			
Heat Rate																
Daily heat rate, Btu/kWe gross	11,368	11,108	10,978	10,548	11,276	11,606	11,583	10,854	10,784	11,036	11,431	11,411	11,909			
Daily heat rate, Btu/kWe gross	12,628	12,340	12,195	11,718	12,527	12,893	12,867	12,058	11,979	12,259	12,699	12,676	13,229			
Cumulative heat rate, Btu/kWe	12,245	12,170	12,101	12,016	11,977	11,958	11,940	11,887	11,834	11,796	11,780	11,765	11,770			
Cumulative heat rate, Btu/kWe	13,602	13,520	13,443	13,349	13,304	13,283	13,263	13,205	13,146	13,104	13,086	13,069	13,075			
Cumulative by Facility starting C																
Max cumulative available engine	10,268	10,364	10,460	10,556	10,652	10,748	10,844	10,940	11,036	11,132	11,228	11,324	11,420			
Actual cumulative engine run time	9,337	9,423	9,496	9,568	9,653	9,749	9,844	9,940	10,036	10,132	10,227	10,323	10,419			
Cumulative Availability, %	90.9%	90.9%	90.8%	90.6%	90.6%	90.7%	90.8%	90.9%	90.9%	91.0%	91.1%	91.2%	91.2%			
Max cumulative gross output, kWh	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	9,421,500			
Actual cumulative gross output, kWh	6,812,150	6,875,564	6,935,270	6,994,941	7,056,840	7,119,076	7,179,826	7,244,797	7,313,064	7,381,796	7,450,748	7,518,926	7,582,339			
Cumulative Capacity Factor	80.4%	80.4%	80.4%	80.3%	80.3%	80.3%	80.3%	80.3%	80.3%	80.4%	80.4%	80.5%	80.5%			
Cumulative fuel input, MMBtu	86,408	87,190	87,918	88,618	89,393	90,195	90,977	91,761	92,578	93,421	94,297	95,161	96,000			
Cumulative gross output, kWh	6,812,150	6,875,564	6,935,270	6,994,941	7,056,840	7,119,076	7,179,826	7,244,797	7,313,064	7,381,796	7,450,748	7,518,926	7,582,339			
Cumulative heat rate, Btu/kWe	11,418	11,416	11,412	11,404	11,403	11,405	11,407	11,402	11,396	11,393	11,393	11,393	11,397			
Cumulative heat rate, Btu/kWe	12,684	12,681	12,677	12,669	12,668	12,670	12,671	12,666	12,659	12,656	12,656	12,656	12,661			
Service																
Engine 1	Return to service															
Engine 2																
Engine 3																
Engine 4																
Oil - oil and filter change																
Service - plugs, air filter, valve insp																
Precipitation																
NSTAR Power Reports	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
Date	4/18/2016	4/19/2016	4/20/2016	4/21/2016	4/22/2016	4/23/2016	4/24/2016	4/25/2016	4/26/2016	4/27/2016	4/28/2016	4/29/2016	4/30/2016	TOTAL		
Hour																
1	2,280	2,733	2,411	2,408	2,403	2,559	2,413	2,584	2,754	2,771	2,796	2,743	2,745			
2	2,282	2,687	2,412	2,410	2,405	2,562	2,416	2,558	2,781	2,774	2,798	2,747	2,747			
3	2,285	2,683	2,414	2,411	2,408	2,564	2,418	2,531	2,781	2,775	2,799	2,747	2,749			
4	2,279	2,653	2,411	2,406	2,403	2,559	2,498	2,485	2,765	2,770	2,793	2,743	2,744			
5	2,283	2,657	2,413	2,411	2,406	2,561	2,535	2,486	2,706	2,772	2,758	2,745	2,689			
6	2,284	2,658	2,414	2,412	2,408	2,564	2,487	2,489	2,708	2,774	2,749	2,748	2,679			
7	2,279	2,655	2,410	2,408	2,406	2,539	2,483	2,485	2,705	2,772	2,747	2,744	2,675			
8	2,284	2,609	2,410	2,409	2,406	2,493	2,487	2,490	2,708	2,776	2,749	2,721	2,674			
9	2,280	2,706	2,410	2,405	2,396	2,496	2,489	2,498	2,706	2,774	2,748	2,698	2,609			
10	2,320	2,753	2,403	2,397	2,392	2,491	2,486	2,550	2,742	2,770	2,745	2,718	2,453			
11	2,357	2,495	2,406	2,399	2,391	2,494	2,488	2,675	2,773	2,774	2,624	2,750	2,460			
12	2,603	2,401	2,409	2,399	2,389	2,494	2,491	2,674	2,778	2,776	2,755	2,752	2,463			
13	2,688	2,710	2,389	2,395	2,641	2,491	2,487	2,690	2,772	2,772	2,936	2,747	2,460			
14	2,692	2,742	2,390	2,396	2,696	2,493	2,490	2,699	2,766	2,768	2,938	2,750	2,462			
15	2,697	2,539	2,403	2,395	2,544	2,494	2,491	2,260	2,766	2,496	2,699	2,750	2,466			
16	2,722	2,379	2,400	2,393	2,569	2,490	2,487	2,737	2,768	2,712	2,844	2,745	2,458			
17	2,772	2,425	2,405	2,402	2,559	2,493	2,491	2,798	2,779	2,803	2,813	2,744	2,455			
18	2,777	2,453	2,408	2,408	2,562	2,495	2,493	2,780	2,778	2,805	2,799	2,749	2,458			
19	2,776	2,408	2,406	2,404	2,559	2,490	2,488	2,776	2,773	2,801	2,793	2,745	2,454			
20	2,781	2,413	2,408	2,407	2,563	2,493	2,421	2,740	2,775	2,802	2,757	2,748	2,457			
21	2,781	2,414	2,414	2,409	2,564	2,493	2,010	2,709	2,778	2,803	2,728	2,749	2,458			
22	2,775	2,412	2,409	2,403	2,559	2,487	2,037	2,704	2,772	2,797	2,745	2,745	2,454			
23	2,779	2,413	2,411	2,406	2,561	2,491	2,514	2,709	2,773	2,798	2,745	2,747	2,456			
24	2,780	2,414	2,411	2,407	2,564	2,445	2,611	2,711	2,776	2,800	2,747	2,749	2,458			
TOTAL	60,836	61,412	57,777	57,700	59,754	60,231	58,711	62,818	66,183	66,435	66,605	65,824	61,183			
Cumulative Output Sold, kWh	876,144	937,556	995,333	1,053,033	1,112,787	1,173,018	1,231,729	1,294,547	1,360,730	1,427,165	1,493,770	1,559,594	1,620,777			
Transformer and line efficiency	99.7%	99.8%	99.8%	99.7%	99.7%	99.8%	99.8%	99.8%	100.1%	99.8%	99.8%	99.8%	99.8%	0.0%		
Hourly average	2,535	2,559	2,407	2,404	2,490	2,510	2,446	2,617	2,758	2,768	2,775	2,743	2,549	2,251		

MARCH 2016															DLST																	
CNBE Daily Reports Summary Data																																
		Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		Monday	Tuesday	Wednesday	Thursday													
		3/1/2016	3/2/2016	3/3/2016	3/4/2016	3/5/2016	3/6/2016	3/7/2016	3/8/2016	3/9/2016	3/10/2016	3/11/2016	3/12/2016	3/13/2016	3/14/2016	3/15/2016	3/16/2016	3/17/2016														
LFG and Biogas Flow to the Engines (KSCF)		1,616	1,570	1,597	1,465	1,449	1,461	1,549	1,573	1,553	1,596	1,391	1,313	1,259	1,297	1,279	1,354	1,465														
LFG and Biogas Flow to the Engines (MMBTU)		921	885	859	799	789	804	873	887	872	905	788	746	711	725	744	787	817														
LFG and Biogas Flow to the Flare (KSCF)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
LFG and BiogasFlow to the Flare (MMBTU HHV)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
LFG and Biogas Total Flow (KSCF)		1,616	1,570	1,597	1,465	1,449	1,461	1,549	1,573	1,553	1,596	1,391	1,313	1,259	1,297	1,279	1,354	1,465														
LFG and Biogas Total Flow (MMBTU HHV)		921	885	859	799	789	804	873	887	872	905	788	746	711	725	744	787	817														
Average Methane Content (%)		56.4	55.7	53.1	53.9	53.8	54.4	55.7	55.7	55.5	56.1	55.9	56.1	55.8	55.3	57.5	57.4	55.1														
Engine 1 Hours		24	23	24	22	24	24	24	24	24	24	24	5	-	-	-	8	23														
Engine 2 Hours		24	23	24	23	24	24	24	24	24	24	24	24	23	24	24	24	23														
Engine 3 Hours		24	23	24	23	24	24	24	24	24	24	24	24	23	24	24	24	23														
Engine 4 Hours		24	23	24	23	24	24	23	24	24	24	24	24	23	24	24	24	22														
Generator 1 Power Output (kWhr)		13,218	13,256	14,414	12,450	12,056	12,690	13,754	14,856	14,420	14,420	2,690	-	-	-	-	3,558	10,634														
Generator 2 Power Output (kWhr)		18,096	17,434	16,700	16,060	16,326	16,196	18,414	18,682	17,010	18,108	19,808	18,048	17,232	17,974	19,194	18,498	18,210														
Generator 3 Power Output (kWhr)		17,942	18,352	18,066	16,792	17,576	18,158	19,148	17,758	19,028	19,564	18,756	17,958	17,212	17,960	17,828	18,248	18,224														
Generator 4 Power Output (kWhr)		18,680	18,454	18,728	17,714	17,502	18,806	17,378	17,666	18,958	18,368	18,394	17,944	17,202	17,948	19,278	19,950	18,636														
Gross Power Output (kWhr)		67,934	67,496	67,911	63,009	63,446	65,850	68,650	68,934	69,370	70,423	59,581	53,915	51,611	53,837	56,223	60,165	65,638														
Net Power Output (kWhr)		65,944	65,640	65,980	61,248	61,670	63,411	66,846	67,179	67,583	68,640	57,944	52,432	50,146	52,285	54,640	58,517	63,974														
Power Sold as metered by NStar, (kWhr)		65,790	65,512	65,867	61,156	61,557	63,277	66,701	67,036	67,395	68,439	57,805	52,275	49,966	52,138	54,493	58,344	63,811														
Offgrid RECs (kWhr)		1,990	1,856	1,930	1,761	1,776	2,439	1,139	1,753	1,788	1,783	1,637	1,483	1,465	1,552	1,583	1,648	1,663														
Calculated Performance Results																																
Daily																																
Power output (kW average when running)																																
Generator 1															551	576	601	566	502	529	573	619	601	601	538	-	-	-	445	462		
Generator 2															754	758	696	698	680	675	767	778	709	755	825	752	749	749	800	771	792	
Generator 3															748	798	753	730	732	757	798	740	793	815	782	748	748	748	743	760	792	
Generator 4															778	802	780	770	729	784	756	736	790	765	766	748	748	748	803	831	847	
Power output (kW average over 24-hrs)																																
Facility Gross															2,831	2,812	2,830	2,625	2,644	2,744	2,860	2,872	2,890	2,934	2,483	2,246	2,244	2,243	2,343	2,507	2,735	
Facility Net															2,748	2,735	2,749	2,552	2,570	2,642	2,785	2,799	2,816	2,860	2,414	2,185	2,180	2,179	2,277	2,438	2,666	
In-plant load															83	77	80	73	74	102	75	73	74	74	68	62	64	65	66	69	69	
Daily availability factor																																
Facility															100%	96%	100%	95%	100%	100%	99%	100%	100%	100%	80%	75%	75%	75%	75%	83%	95%	
Engine 1															100%	96%	100%	92%	100%	100%	100%	100%	100%	100%	21%	0%	0%	0%	0%	33%	96%	
Engine 2															100%	96%	100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	
Engine 3															100%	96%	100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	
Engine 4															100%	96%	100%	96%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	92%	
Daily capacity factor																																
Facility															86%	85%	86%	80%	80%	83%	87%	87%	88%	89%	75%	68%	68%	68%	71%	76%	83%	
Engine 1															67%	70%	73%	69%	61%	64%	69%	75%	73%	73%	65%	0%	0%	0%	0%	54%	56%	
Engine 2															91%	92%	84%	85%	82%	82%	93%	94%	86%	91%	100%	91%	91%	91%	97%	93%	96%	
Engine 3															91%	97%	91%	88%	89%	92%	97%	90%	96%	99%	95%	91%	91%	91%	90%	92%	96%	
Engine 4															94%	97%	95%	93%	88%	95%	92%	89%	96%	93%	93%	91%	91%	91%	97%	101%	103%	
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	335	359	383	407	
Engine 1															24	47	71	93	117	141	165	189	213	237	242	242	242	242	242	242	250	273
Engine 2															24	47	71	94	118	142	166	190	214	238	262	286	309	333	357	381	404	
Engine 3															24	47	71	94	118	142	166	190	214	238	262	286	309	333	357	381	404	
Engine 4															24	47	71	94	118	142	165	189	213	237	261	285	308	332	356	380	402	
Engine operating run hours total from 0 hours																																
Engine 1															81,803	81,827	81,850	81,874	81,896	81,920	81,944	81,968	81,992	82,016	82,040	82,045	82,045	82,045	82,045	82,053	82,076	
Engine 2															78,340	78,364	78,387	78,411	78,434	78,458	78,482	78,506	78,530	78,554	78,578	78,602	78,626	78,649	78,673	78,697	78,721	78,744
Engine 3															80,920	80,944	80,967	80,991	81,014	81,038	81,062	81,086	81,110	81,134	81,158	81,182	81,206	81,229	81,253	81,277	81,301	81,324
Engine 4															77,454	77,478	77,501	77,525	77,548	77,572	77,596	77,619	77,643	77,667	77,691	77,715	77,739	77,762	77,786	77,810	77,834	77,856
Cumulative availability, %															March 1, 2016 @ 00:00 hours																	
Engine 1															100%	98%	99%	97%	98%	98%	98%	98%	98%	99%	99%	92%	84%	78%	72%	67%	65%	67%
Engine 2															100%	98%	99%	98%	98%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
Engine 3															100%	98%	99%	98%	98%	98%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
Engine 4															100%	98%	99%	98%	98%	98%	99%	98%	98%	99%	99%	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	
Engine 1															551	1,127	1,728	2,294	2,796	3,325	3,898	4,517	5,118	5,718	6,256	6,256	6,256	6,256	6,256	6,256	6,701	7,164
Engine 2															754	1,512	2,208	2,906	3,586	4,261	5,028	5,807	6,516	7,270	8,095	8,847	9,597	10,346	11,145	11,916	12,708	
Engine 3															748	1,545	2,298	3,028	3,761	4,517	5,315	6,055	6,848	7,663	8,445	9,193	9,941	10,689	11,432	12,193	12,985	
Engine 4															778	1,581	2,361	3,131	3,860	4,644	5,400	6,136	6,926	7,691	8,457	9,205	9,953	10,701	11,504	12,335	13,182	
Cumulative capacity factor, %																																
Engine 1															67%	68%	70%	70%	68%	67%	67%	68%	69%	69%	69%	63%	58%	54%	51%	51%	51%	
Engine 2															91%	92%	89%	88%	87%	86%	87%	88%	88%	88%	89%	89%	89%	90%	90%	90%	91%	
Engine 3															91%	94%	93%	92%	91%	91%	92%	92%	92%	93%	93%	93%	93%	93%	92%	92%	93%	
Engine 4															94%	96%	95%															

		Tuesday 3/1/2016	Wednesday 3/2/2016	Thursday 3/3/2016	Friday 3/4/2016	Saturday 3/5/2016	Sunday 3/6/2016	Monday 3/7/2016	Tuesday 3/8/2016	Wednesday 3/9/2016	Thursday 3/10/2016	Friday 3/11/2016	Saturday 3/12/2016	Sunday 3/13/2016	Monday 3/14/2016	Tuesday 3/15/2016	Wednesday 3/16/2016	Thursday 3/17/2016
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	1,244	1,340	1,436	1,532	1,628
Actual cumulative engine run hours		96	188	284	375	471	567	662	758	854	950	1,027	1,099	1,168	1,240	1,312	1,392	1,483
Cumulative Availability, %		100.0%	97.9%	98.6%	97.7%	98.1%	98.4%	98.5%	98.7%	98.8%	99.0%	97.3%	95.4%	93.9%	92.5%	91.4%	90.9%	91.1%
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	1,026,300	1,105,500	1,184,700	1,263,900	1,343,100
Actual cumulative gross output, kWhr		67,934	135,430	203,341	266,350	329,796	395,646	464,296	533,230	602,600	673,023	732,604	786,519	838,130	891,967	948,190	1,008,355	1,073,993
Cumulative Capacity Factor		85.8%	85.5%	85.6%	84.1%	83.3%	83.3%	83.7%	84.2%	84.5%	85.0%	84.1%	82.8%	81.7%	80.7%	80.0%	79.8%	80.0%
Cumulative fuel input, MMBtu HHV		921	1,806	2,664	3,463	4,252	5,056	5,929	6,815	7,687	8,593	9,380	10,126	10,837	11,563	12,307	13,094	13,910
Cumulative gross output, kWhr		67,934	135,430	203,341	266,350	329,796	395,646	464,296	533,230	602,600	673,023	732,604	786,519	838,130	891,967	948,190	1,008,355	1,073,993
Heat Rate																		
Daily heat rate, Btu/kWe gross LHV		12,208	11,798	11,380	11,415	11,192	10,987	11,442	11,582	11,316	11,572	11,898	12,452	12,405	12,128	11,916	11,775	11,201
Daily heat rate, Btu/kWe gross HHV		13,562	13,106	12,642	12,681	12,433	12,205	12,711	12,866	12,570	12,855	13,217	13,833	13,780	13,472	13,237	13,081	12,442
Cumulative heat rate, Btu/kWe gross LHV		12,208	12,004	11,795	11,705	11,607	11,503	11,494	11,506	11,484	11,493	11,526	11,590	11,640	11,669	11,684	11,689	11,659
Cumulative heat rate, Btu/kWe gross HHV		13,562	13,335	13,103	13,003	12,893	12,779	12,769	12,781	12,757	12,767	12,804	12,874	12,930	12,963	12,979	12,985	12,952
Cumulative by Facility starting Calendar Year																		
Max cumulative available engine run hours	5,760	5,856	5,952	6,048	6,144	6,240	6,336	6,432	6,528	6,624	6,720	6,816	6,908	7,004	7,100	7,196	7,292	7,388
Actual cumulative engine run hours	5,678	5,770	5,866	5,957	6,053	6,149	6,244	6,340	6,436	6,532	6,609	6,681	6,750	6,822	6,894	6,974	7,055	7,136
Cumulative Availability, %	98.6%	98.5%	98.6%	98.5%	98.5%	98.5%	98.5%	98.6%	98.6%	98.6%	98.3%	98.0%	97.7%	97.4%	97.1%	96.9%	96.9%	96.9%
Max cumulative gross output, kWhr	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	5,544,000	5,623,200	5,699,100	5,778,300	5,857,500	5,936,700	6,015,900	6,095,100
Actual cumulative gross output, kWhr	4,076,961	4,144,457	4,212,368	4,275,377	4,338,823	4,404,673	4,473,323	4,542,257	4,611,627	4,682,050	4,741,631	4,795,546	4,847,157	4,900,994	4,957,217	5,017,382	5,083,020	5,148,658
Cumulative Capacity Factor	85.8%	85.8%	85.8%	85.7%	85.6%	85.6%	85.6%	85.6%	85.6%	85.7%	85.5%	85.3%	85.1%	84.8%	84.6%	84.5%	84.5%	84.5%
Cumulative fuel input, MMBtu HHV	50,357	51,242	52,100	52,899	53,688	54,492	55,364	56,251	57,123	58,028	58,816	59,562	60,273	60,998	61,742	62,529	63,346	64,194
Cumulative gross output, kWhr	4,076,961	4,144,457	4,212,368	4,275,377	4,338,823	4,404,673	4,473,323	4,542,257	4,611,627	4,682,050	4,741,631	4,795,546	4,847,157	4,900,994	4,957,217	5,017,382	5,083,020	5,148,658
Cumulative heat rate, Btu/kWe gross LHV	11,119	11,130	11,134	11,138	11,139	11,137	11,141	11,148	11,151	11,157	11,166	11,181	11,194	11,204	11,212	11,219	11,219	11,219
Cumulative heat rate, Btu/kWe gross HHV	12,352	12,364	12,368	12,373	12,374	12,371	12,377	12,384	12,387	12,394	12,404	12,420	12,435	12,446	12,455	12,463	12,462	12,462
Service																		
Engine 1			Nstar outage		Nstar outage planned for fuse													
Engine 2					replacement													
Engine 3																		
Engine 4																		
Oil - oil and filter change																		
Service - plugs, air filter, valve inspection and adjustment																		
Precipitation																		
NSTAR Power Reports																		
Date		Tuesday 3/1/2016	Wednesday 3/2/2016	Thursday 3/3/2016	Friday 3/4/2016	Saturday 3/5/2016	Sunday 3/6/2016	Monday 3/7/2016	Tuesday 3/8/2016	Wednesday 3/9/2016	Thursday 3/10/2016	Friday 3/11/2016	Saturday 3/12/2016	Sunday 3/13/2016	Monday 3/14/2016	Tuesday 3/15/2016	Wednesday 3/16/2016	Thursday 3/17/2016
Hour																		
1		2,707	2,873	2,710	2,775	2,592	2,570	2,715	2,897	2,768	2,885	2,849	2,248	2,175	2,172	2,170	2,335	2,841
2		2,705	2,873	2,708	2,775	2,593	2,526	2,689	2,895	2,769	2,884	2,849	2,176	2,175	2,177	2,176	2,340	2,845
3		2,702	2,945	2,703	2,771	2,590	2,518	2,777	2,892	2,762	2,878	2,838	2,171	2,171	2,176	2,176	2,339	2,846
4		2,707	2,955	2,708	2,776	2,594	2,523	2,782	2,897	2,768	2,883	2,770	2,176	2,176	2,171	2,171	2,334	2,839
5		2,705	2,849	2,707	2,775	2,593	2,522	2,723	2,897	2,766	2,882	2,566	2,176	2,176	2,177	2,177	2,340	2,846
6		2,700	150	2,702	2,772	2,589	2,517	2,563	2,892	2,762	2,878	2,423	2,172	2,170	2,176	2,178	2,339	2,846
7		2,707	2,873	2,709	2,779	2,593	2,523	2,570	2,898	2,769	2,886	2,428	2,179	2,177	2,171	2,172	2,334	2,842
8		2,706	2,961	2,706	2,778	2,594	2,523	2,568	2,898	2,766	2,884	2,421	2,178	2,178	2,176	2,176	2,339	2,848
9		2,696	2,956	2,619	2,765	2,588	2,518	2,714	2,620	2,752	2,755	2,411	2,173	2,167	2,170	2,236	2,334	2,833
10		2,700	2,963	2,612	2,770	2,592	2,521	2,778	2,335	2,758	2,232	2,365	2,179	2,170	2,164	2,156	2,328	2,826
11		2,698	2,979	2,650	2,769	2,593	2,566	2,779	2,367	2,757	2,851	2,332	2,178	2,164	2,172	2,327	2,333	2,828
12		2,703	3,000	2,684	2,763	2,589	2,627	2,129	2,992	2,633	2,865	2,327	2,172	2,159	2,171	2,329	2,333	2,803
13		2,715	2,755	2,839	2,714	2,484	2,633	2,405	2,912	2,754	2,871	2,346	2,177	2,171	2,167	2,324	2,329	912
14		2,713	2,841	2,898	2,470	2,162	2,672	2,981	2,842	2,818	2,872	2,329	2,176	2,173	2,165	2,332	2,267	501
15		2,708	2,872	2,895	2,01	2,688	2,676	3,052	2,841	2,865	2,969	2,275	2,172	2,167	2,164	2,334	2,051	2,716
16		2,783	2,877	2,833	1,074	2,574	2,680	3,059	2,820	2,873	2,923	2,247	2,174	2,173	2,162	2,334	2,266	2,849
17		2,791	2,812	2,773	2,853	2,572	2,710	3,017	2,771	2,881	2,929	2,249	2,177	2,174	2,179	2,343	2,466	2,849
18		2,785	2,713	2,770	2,782	2,566	2,777	2,974	2,767	2,878	2,925	2,248	2,172	2,170	2,179	2,344	2,145	2,851
19		2,790	2,716	2,776	2,694	2,572	2,781	2,948	2,771	2,884	2,931	2,255	2,177	2,178	2,173	2,339	2,576	2,852
20		2,789	2,713	2,774	2,695	2,569	2,779	2,898	2,769	2,884	2,866	2,257	2,177	2,177	2,177	2,342	2,845	2,851
21		2,786	2,709	2,772	2,631	2,565	2,775	2,894	2,764	2,880	2,846	2,253	2,171	2,172	2,176	2,342	2,843	2,849
22		2,790	2,712	2,775	2,595	2,571	2,781	2,898	2,769	2,885	2,851	2,257	2,177	2,177	2,171	2,335	2,838	2,849
23		2,837	2,709	2,774	2,592	2,569	2,781	2,896	2,768	2,884	2,850	2,257	2,176	2,176	2,177	2,340	2,845	2,846
24		2,867	2,706	2,770	2,587	2,565	2,778	2,892	2,762	2,879	2,843	2,253	2,171	-	2,175	2,340	2,845	2,845
TOTAL		65,790	65,512	65,867	61,156	61,557	63,277	66,701	67,036	67,395	68,439	57,805	52,275	49,966	52,138	54,493	58,344	63,811
Cumulative Output Sold, kWhr		65,790	131,302	197,169	258,325	319,882	383,159	449,860	516,896	584,291	652,730	710,535	762,810	812,776	864,914	919,407	977,751	1,041,562
Transformer and line efficiency		99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.7%	99.7%	99.8%	99.7%	99.6%	99.7%	99.7%	99.7%	99.7%
Hourly average		2,741	2,730	2,744	2,548	2,565	2,637	2,779	2,793	2,808	2,852	2,409	2,178	2,082	2,172	2,271	2,431	2,659

MARCH 2016																		
CNBE Daily Reports Summary Data																		
	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	TOTAL	Biogas	LFG	
	3/18/2016	3/19/2016	3/20/2016	3/21/2016	3/22/2016	3/23/2016	3/24/2016	3/25/2016	3/26/2016	3/27/2016	3/28/2016	3/29/2016	3/30/2016	3/31/2016				
LFG and Biogas Flow to the Engine	1,603	1,709	1,496	1,409	1,465	1,390	1,484	1,628	1,648	1,619	1,425	1,410	1,396	1,388	45,853	2,186	43,668	
LFG and Biogas Flow to the Engine	889	903	804	780	797	758	809	894	874	858	807	784	765	769	25,400	1,526	23,874	
LFG and Biogas Flow to the Flare (I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0%	94%	
LFG and Biogas Flow to the Flare (I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
LFG and Biogas Total Flow (KSCF	1,603	1,709	1,496	1,409	1,465	1,390	1,484	1,628	1,648	1,619	1,425	1,410	1,396	1,388	45,853			
LFG and Biogas Total Flow (MMBT	889	903	804	780	797	758	809	894	874	858	807	784	765	769	25,400		21,556	
Average Methane Content (%)	54.8	52.2	53.1	54.7	53.8	53.9	53.9	54.3	52.4	52.4	55.9	54.9	54.2	54.7	54.7		2,317.7	
Engine 1 Hours	24	24	24	24	8	-	11	24	24	24	11	-	-	-	471		2,178	
Engine 2 Hours	24	24	24	24	24	24	24	24	24	24	23	24	23	24	738			
Engine 3 Hours	24	24	20	8	24	24	24	23	24	24	24	24	24	24	719			
Engine 4 Hours	24	24	24	24	24	24	24	24	24	24	24	24	24	24	738			
Generator 1 Power Output (kWhr)	11,802	12,988	12,052	13,148	4,708	-	4,858	11,476	11,460	10,712	4,478	-	-	-	250,098			
Generator 2 Power Output (kWhr)	19,640	19,462	17,790	19,958	19,968	19,970	19,966	19,966	18,672	17,954	18,458	19,964	18,638	19,726	572,122			
Generator 3 Power Output (kWhr)	18,596	18,324	14,380	4,994	17,522	18,400	19,344	19,188	18,560	17,928	19,076	19,726	19,726	19,726	553,736			
Generator 4 Power Output (kWhr)	19,718	19,574	18,760	19,658	18,164	19,046	18,582	19,648	17,958	17,958	19,246	19,962	19,966	19,962	579,808			
Gross Power Output (kWhr)	69,689	70,290	62,959	57,781	60,318	57,360	62,677	70,215	66,582	64,485	61,183	59,564	58,231	58,993	1,954,320			
Net Power Output (kWhr)	67,820	68,294	61,147	56,030	58,526	55,655	60,912	68,318	64,789	62,719	59,514	57,909	56,623	57,348	1,899,683			
Power Sold as metered by NStar, (	67,653	68,160	61,057	55,872	58,423	55,504	60,764	68,132	64,623	62,547	59,393	57,780	56,532	57,265	1,895,267		CRMCB inplant	
Offgrid RECs (kWhr)	1,869	1,996	1,803	1,751	1,792	1,705	1,766	1,897	1,793	1,766	1,669	1,655	1,608	1,645	53,961		10,262	
Calculated Performance Results																	19%	
Daily																	of total in-plant	
Power output (kW average whe																	power	
Generator 1	492	541	502	548	589	-	442	478	478	446	407	-	-	-				
Generator 2	818	811	741	832	832	832	832	832	778	748	803	832	810	822				
Generator 3	775	764	719	624	730	767	806	834	773	747	795	822	822	808				
Generator 4	822	816	782	819	757	794	774	819	748	748	802	832	832	832				
Power output (kW average ove																		
Facility Gross	2,904	2,929	2,623	2,408	2,513	2,390	2,612	2,926	2,774	2,687	2,549	2,482	2,426	2,458				
Facility Net	2,826	2,846	2,548	2,335	2,439	2,319	2,538	2,847	2,700	2,613	2,480	2,413	2,359	2,390				
In-plant load	78	83	76	73	75	71	74	79	75	74	70	69	67	69				
Daily availability factor																		
Facility	100%	100%	96%	83%	83%	75%	86%	99%	100%	100%	85%	75%	74%	75%				
Engine 1	100%	100%	100%	100%	33%	0%	46%	100%	100%	100%	46%	0%	0%	0%				
Engine 2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	96%	100%				
Engine 3	100%	100%	83%	33%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%				
Engine 4	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%				
Daily capacity factor																		
Facility	88%	89%	79%	73%	76%	72%	79%	89%	84%	81%	77%	75%	74%	74%				
Engine 1	60%	66%	61%	66%	71%	0%	54%	58%	58%	54%	49%	0%	0%	0%				
Engine 2	99%	98%	90%	101%	101%	101%	101%	101%	94%	91%	97%	101%	98%	100%				
Engine 3	94%	93%	87%	76%	88%	93%	98%	101%	94%	91%	96%	100%	100%	98%				
Engine 4	100%	99%	95%	99%	92%	96%	94%	99%	91%	91%	97%	101%	101%	101%				
Cumulative by engine																		
Engine operating run hours in t																		
Max Cumulative Available,	431	455	479	503	527	551	575	599	623	647	671	695	719	719				
Engine 1	297	321	345	369	377	377	388	412	436	460	471	471	471	471				
Engine 2	428	452	476	500	524	548	572	596	620	644	667	691	714	715				
Engine 3	428	452	472	480	504	528	552	575	599	623	647	671	695	695				
Engine 4	426	450	474	498	522	546	570	594	618	642	666	690	714	714				
Engine operating run hours tota																		
Engine 1	82,100	82,124	82,148	82,172	82,180	82,180	82,191	82,215	82,239	82,263	82,274	82,274	82,274	82,274				
Engine 2	78,768	78,792	78,816	78,840	78,864	78,888	78,912	78,936	78,960	78,984	79,007	79,031	79,054	79,078				
Engine 3	81,348	81,372	81,392	81,400	81,424	81,448	81,472	81,495	81,519	81,543	81,567	81,591	81,615	81,639				
Engine 4	77,880	77,904	77,928	77,952	77,976	78,000	78,024	78,048	78,072	78,096	78,120	78,144	78,168	78,192				
Cumulative availability, %																		
Engine 1	69%	71%	72%	73%	72%	68%	67%	69%	70%	71%	70%	68%	66%	66%				
Engine 2	99%	99%	99%	99%	99%	99%	99%	99%	100%	100%	99%	99%	99%	99%				
Engine 3	99%	99%	99%	95%	96%	96%	96%	96%	96%	96%	96%	97%	97%	97%				
Engine 4	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%				
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	24,750				
Engine 1	7,655	8,196	8,699	9,246	9,835	9,835	10,277	10,755	11,232	11,679	12,086	12,086	12,086	12,086				
Engine 2	13,526	14,337	15,078	15,910	16,742	17,574	18,406	19,238	20,016	20,764	21,566	22,398	23,209	23,220				
Engine 3	13,760	14,523	15,242	15,867	16,597	17,363	18,169	19,004	19,777	20,524	21,319	22,141	22,963	22,949				
Engine 4	14,004	14,820	15,601	16,420	17,177	17,971	18,745	19,564	20,312	21,060	21,862	22,694	23,526	23,526				
Cumulative capacity factor, %																		
Engine 1	52%	52%	53%	53%	54%	52%	52%	52%	52%	52%	52%	51%	49%	49%				
Engine 2	91%	91%	91%	92%	92%	93%	93%	93%	93%	93%	93%	94%	94%	94%				
Engine 3	93%	93%	92%	92%	91%	92%	92%	92%	92%	92%	92%	93%	93%	93%				
Engine 4	94%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%				

		Friday 3/18/2016	Saturday 3/19/2016	Sunday 3/20/2016	Monday 3/21/2016	Tuesday 3/22/2016	Wednesday 3/23/2016	Thursday 3/24/2016	Friday 3/25/2016	Saturday 3/26/2016	Sunday 3/27/2016	Monday 3/28/2016	Tuesday 3/29/2016	Wednesday 3/30/2016	Thursday 3/31/2016	TOTAL	Biogas	LFG
Cumulative by Facility in month																		
	Max cumulative available engine	1,724	1,820	1,916	2,012	2,108	2,204	2,300	2,396	2,492	2,588	2,684	2,780	2,876	2,876			
	Actual cumulative engine run time	1,579	1,675	1,767	1,847	1,927	1,999	2,082	2,177	2,273	2,369	2,451	2,523	2,594	2,595			
	Cumulative Availability, %	91.6%	92.0%	92.2%	91.8%	91.4%	90.7%	90.5%	90.9%	91.2%	91.5%	91.3%	90.8%	90.2%	90.2%			
	Max cumulative gross output, kWh	1,422,300	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, kWh	1,143,682	1,213,972	1,276,931	1,334,712	1,395,030	1,452,390	1,515,067	1,585,282	1,651,864	1,716,349	1,777,532	1,837,096	1,895,327	1,896,089			
	Cumulative Capacity Factor	80.4%	80.9%	80.8%	80.4%	80.2%	79.9%	79.8%	80.2%	80.3%	80.4%	80.3%	80.1%	79.9%	79.9%			
	Cumulative fuel input, MMBtu	14,799	15,702	16,506	17,286	18,083	18,840	19,649	20,544	21,418	22,276	23,082	23,866	24,631	24,635			
	Cumulative gross output, kWhr	1,143,682	1,213,972	1,276,931	1,334,712	1,395,030	1,452,390	1,515,067	1,585,282	1,651,864	1,716,349	1,777,532	1,837,096	1,895,327	1,896,089			
Heat Rate																		
	Daily heat rate, Btu/kWe gross	11,481	11,558	11,496	12,152	11,895	11,888	11,622	11,463	11,817	11,980	11,866	11,843	11,832	11,730			
	Daily heat rate, Btu/kWe net	12,754	12,840	12,770	13,499	13,213	13,206	12,911	12,734	13,127	13,309	13,182	13,156	13,144	13,030			
	Cumulative heat rate, Btu/kWe gross	11,649	11,643	11,636	11,658	11,669	11,677	11,675	11,666	11,672	11,683	11,690	11,695	11,699	11,696			
	Cumulative heat rate, Btu/kWe net	12,940	12,934	12,926	12,951	12,962	12,972	12,969	12,959	12,966	12,979	12,986	12,991	12,996	12,992			
Cumulative by Facility starting C																		
	Max cumulative available engine	7,388	7,484	7,580	7,676	7,772	7,868	7,964	8,060	8,156	8,252	8,348	8,444	8,540	8,540			
	Actual cumulative engine run time	7,161	7,257	7,349	7,429	7,509	7,581	7,664	7,759	7,855	7,951	8,033	8,105	8,176	8,177			
	Cumulative Availability, %	96.9%	97.0%	97.0%	96.8%	96.6%	96.4%	96.2%	96.3%	96.3%	96.4%	96.2%	96.0%	95.7%	95.7%			
	Max cumulative gross output, kWh	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	7,045,500	7,045,500			
	Actual cumulative gross output, kWh	5,152,709	5,222,999	5,285,958	5,343,739	5,404,057	5,461,417	5,524,094	5,594,309	5,660,891	5,725,376	5,786,559	5,846,123	5,904,354	5,905,116			
	Cumulative Capacity Factor	84.5%	84.6%	84.5%	84.4%	84.3%	84.1%	84.1%	84.1%	84.1%	84.1%	84.0%	83.9%	83.8%	83.8%			
	Cumulative fuel input, MMBtu	64,235	65,137	65,941	66,721	67,518	68,276	69,085	69,979	70,853	71,711	72,518	73,301	74,067	74,070			
	Cumulative gross output, kWhr	5,152,709	5,222,999	5,285,958	5,343,739	5,404,057	5,461,417	5,524,094	5,594,309	5,660,891	5,725,376	5,786,559	5,846,123	5,904,354	5,905,116			
	Cumulative heat rate, Btu/kWe gross	11,222	11,227	11,230	11,240	11,247	11,254	11,258	11,261	11,267	11,275	11,281	11,287	11,292	11,292			
	Cumulative heat rate, Btu/kWe net	12,466	12,471	12,475	12,486	12,494	12,501	12,506	12,509	12,516	12,525	12,532	12,538	12,544	12,543			
Service																		
	Engine 1					Dropped valve, piston and head replaced					E-1 connecting rod journals cylinder 9 & 10 crankshaft main bearing possible damage							
	Engine 2																	
	Engine 3			Dropped valve, piston and head replaced														
	Engine 4																	
Oil - oil and filter change																		
Service - plugs, air filter, valve inspection																		
Precipitation																		
	NSTAR Power Reports	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday			
	Date	3/18/2016	3/19/2016	3/20/2016	3/21/2016	3/22/2016	3/23/2016	3/24/2016	3/25/2016	3/26/2016	3/27/2016	3/28/2016	3/29/2016	3/30/2016	3/31/2016	TOTAL		
	Hour																	
	1	2,844	2,892	2,609	2,091	2,738	2,248	2,382	2,870	2,789	2,602	2,608	2,403	2,409	2,400			
	2	2,843	2,897	2,615	2,131	2,744	2,252	2,387	2,877	2,795	2,608	2,614	2,408	2,414	2,405			
	3	2,841	2,897	2,614	2,147	2,744	2,253	2,387	2,877	2,796	2,608	2,613	2,410	2,415	2,406			
	4	2,839	2,892	2,608	2,142	2,739	2,247	2,381	2,871	2,789	2,602	2,608	2,403	2,408	2,400			
	5	2,839	2,898	2,615	2,146	2,746	2,253	2,387	2,878	2,794	2,607	2,612	2,409	2,415	2,405			
	6	2,838	2,897	2,616	2,145	2,747	2,253	2,388	2,879	2,796	2,606	2,612	2,410	2,415	2,405			
	7	2,838	2,891	2,609	2,138	2,741	2,248	2,346	2,871	2,788	2,601	2,608	2,403	2,409	2,400			
	8	2,825	2,898	2,615	2,143	2,747	2,255	2,304	2,879	2,795	2,607	2,616	2,410	2,415	2,405			
	9	2,471	2,898	2,615	2,137	2,557	2,244	2,298	2,870	2,719	2,604	2,322	2,401	2,405	2,394			
	10	2,505	2,890	2,609	2,133	2,323	2,241	2,292	2,865	2,636	2,600	2,174	2,396	1,908	2,386			
	11	2,754	2,895	2,611	2,139	2,329	2,247	2,308	2,530	2,640	2,606	2,411	2,403	1,725	2,387			
	12	2,783	2,895	2,613	2,139	2,258	2,328	2,301	2,686	2,640	2,607	2,418	2,407	2,392	2,393			
	13	2,822	2,889	2,609	2,134	2,242	2,325	2,365	2,867	2,634	2,599	2,455	2,400	2,391	2,386			
	14	2,852	2,894	2,619	2,141	2,248	2,327	2,453	2,871	2,639	2,603	2,655	2,406	2,397	2,392			
	15	2,672	2,895	2,659	2,136	2,250	2,327	2,073	2,872	2,640	2,604	2,415	2,406	2,396	2,393			
	16	2,894	2,889	2,694	2,131	2,246	2,367	2,714	2,867	2,634	2,600	2,400	2,400	2,391	2,388			
	17	2,902	2,895	2,703	2,222	2,257	2,386	2,873	2,877	2,641	2,605	2,406	2,413	2,398	2,399			
	18	2,903	2,894	2,702	2,637	2,257	2,387	2,875	2,878	2,640	2,608	2,406	2,415	2,401	2,403			
	19	2,896	2,887	2,696	2,839	2,249	2,383	2,869	2,871	2,634	2,605	2,401	2,409	2,400	2,397			
	20	2,901	2,725	2,655	2,873	2,254	2,390	2,878	2,876	2,639	2,617	2,408	2,415	2,407	2,403			
	21	2,899	2,614	2,083	2,824	2,254	2,388	2,878	2,822	2,641	2,615	2,410	2,415	2,407	2,403			
	22	2,893	2,608	2,093	2,788	2,248	2,382	2,871	2,789	2,634	2,607	2,404	2,409	2,401	2,397			
	23	2,899	2,615	2,098	2,772	2,253	2,386	2,877	2,795	2,640	2,612	2,408	2,414	2,407	2,402			
	24	2,900	2,615	2,097	2,744	2,252	2,387	2,877	2,794	2,630	2,614	2,409	2,415	2,406	2,116			
	TOTAL	67,653	68,160	61,057	55,872	58,423	55,504	60,764	68,132	64,623	62,547	59,393	57,780	56,532	57,265			
	Cumulative Output Sold, kWh	1,109,215	1,177,375	1,238,432	1,294,304	1,352,727	1,408,231	1,468,995	1,537,127	1,601,750	1,664,297	1,723,690	1,781,470	1,838,002	1,895,267			
	Transformer and line efficiency	99.8%	99.8%	99.9%	99.7%	99.8%	99.7%	99.8%	99.7%	99.7%	99.7%	99.8%	99.8%	99.8%	99.9%			
	Hourly average	2,819	2,840	2,544	2,328	2,434	2,313	2,532	2,839	2,693	2,606	2,475	2,408	2,356	2,386	2,547		

Biogas Quantities in each Month

			Minutes	Totalizer Reading,	scfm	Tot KSCF	% Methane			Heat value per	Total Heat
Data Point	Date	Time	in Period	KSCF		in month	Month	End	Start	time period,	value in month,
										MMBtu	MMBtu
2015-42	1-Oct-15	0:00	480	5,763.96	60			68%	70%	20.1	
2015-43	2-Oct-15	16:00	2,400	5,907.96	60			70%	70%	102.0	
2015-44	2-Oct-15	16:00	-	-		Reset to 0		70%	70%		
2015-45	14-Oct-15	16:17	17,297	1,819.38	105			70%	70%	1,288.8	
2015-46	16-Oct-15	9:57	2,500	1,887.72	27			70%	70%	48.4	
2015-47	20-Oct-15	14:25	6,028	2,454.55	94			70%	70%	401.5	
2015-48	21-Oct-15	12:15	1,310	2,522.96	52			70%	70%	48.5	
2015-49	23-Oct-15	13:41	2,966	2,730.80	70			70%	72%	149.3	
2015-50	26-Oct-15	11:50	4,209	3,091.24	86			72%	71%	260.8	
2015-51	29-Oct-15	11:30	4,300	3,376.24	66			71%	68%	200.5	
2015-52	1-Nov-15	0:00	3,630	3,741.36	101	3,885.36	Oct-15	68%	68%	251.3	2,751.1
2015-53	2-Nov-15	11:30	2,130	3,955.60	101			68%	72%	151.8	
2015-54	3-Nov-15	16:17	1,727	4,098.34	83			72%	70%	102.6	
2015-55	4-Nov-15	9:00	1,003	4,158.34	60			70%	70%	42.5	
2015-56	4-Nov-15	9:00	1,003	-	-	Reset to 0		70%	70%		
2015-57	6-Nov-15	9:19	2,899	166.76	58			70%	70%	118.1	
2015-58	10-Nov-15	14:40	6,081	517.78	58			70%	65%	239.8	
2015-59	13-Nov-15	13:34	4,254	890.91	88			65%	69%	253.0	
2015-60	20-Nov-15	10:35	9,901	1,687.92	80			69%	69%	556.5	
2015-61	20-Nov-15	10:35	-	-		Reset to 0		69%	70%		
2015-62	24-Nov-15	10:00	5,725	385.00	67			70%	70%	272.7	
2015-63	24-Nov-15	10:00		-		Reset to 0		70%	70%		
2015-64	25-Nov-15	11:15	1,515	133.35	88			70%	70%	94.5	
2015-65	1-Dec-15	0:00	7,965	902.80	97	3,392.71	Nov-15	70%	69%	541.2	2,372.7
2015-66	1-Dec-15	0:57	57	908.31	97			69%	69%	3.8	
2015-67	11-Dec-15	13:43	15,166	1,386.01	31			69%	70%	336.0	
2015-68	14-Dec-15	11:30	4,187	1,672.96	69			70%	68%	200.4	
2015-69	16-Dec-15	16:27	3,177	1,768.24	30			68%	70%	66.5	
2015-70	21-Dec-15	13:25	7,018	2,379.00	87			70%	70%	432.7	
2015-71	21-Dec-15	13:25	-	-		Reset to 0		70%	68%		
2015-72	23-Dec-15	11:43	2,778	211.86	76			68%	72%	150.1	
2015-73	28-Dec-15	14:30	7,367	799.14	80			72%	70%	422.0	
2015-74	31-Dec-15	11:21	4,131	1,102.36	73			70%	70%	214.8	
2016-01	1-Jan-16	0:00	759	1,168.25	87	2,644.44	Dec-15	70%	70%	46.7	1,872.9
2016-02	4-Jan-16	14:49	5,209	1,620.43	87			70%	70%	320.3	
2016-03	7-Jan-16	9:47	4,018	1,955.00	83			70%	69%	235.3	
2016-04	11-Jan-16	9:28	5,741	2,400.86	78			69%	68%	309.1	
2016-05	11-Jan-16	9:28	-	-		Reset to 0		68%	70%		
2016-06	20-Jan-16	13:17	13,189	715.08	54			70%	68%	499.3	
2016-07	22-Jan-16	16:40	3,083	745.50	10			68%	68%	20.9	
2016-08	26-Jan-16	13:20	5,560	799.08	10			68%	68%	36.9	
2016-09	27-Jan-16	11:15	1,315	811.75	10			68%	68%	8.7	
2016-10	28-Jan-16	10:30	1,395	850.56	28			68%	68%	26.7	
2016-11	1-Feb-16	0:00	5,130	1,186.19	65	2,418.81	Jan-16	68%	68%	231.0	1,688.2
2016-12	1-Feb-16	12:15	735	1,234.28	65			68%	68%	33.1	
2016-13	9-Feb-16	13:50	11,615	2,200.06	83			68%	68%	664.6	
2016-14	23-Feb-16	17:45	20,395	3,299.25	54			68%	66%	745.3	
2016-15	1-Mar-16	0:00	9,015	3,533.67	26	2,347.48	Feb-16	66%	66%	156.6	1,599.6
2016-16	2-Mar-16	12:00	2,160	3,589.84	26			66%	66%	37.5	
2016-17	4-Mar-16	14:00	3,000	3,719.00	43			66%	70%	88.9	
2016-18	4-Mar-16	14:00	-	-	-	Reset to 0		70%	66%		
2016-19	8-Mar-16	13:00	5,700	193.14	34			66%	60%	123.1	
2016-20	10-Mar-16	10:53	2,753	270.63	28			60%	70%	51.0	
2016-21	15-Mar-16	16:20	7,527	537.11	35			70%	70%	188.8	
2016-22	17-Mar-16	13:48	2,728	722.84	68			70%	70%	131.6	
2016-23	17-Mar-16	13:48	-	-	#DIV/0!			70%	70%		
2016-24	24-Mar-16	15:51	10,203	493.80	48			70%	70%	349.8	
2016-25	24-Mar-16	15:51	-	-	#DIV/0!			70%	70%		
2016-26	29-Mar-16	9:13	6,802	471.71	69			70%	70%	334.2	
2016-27	1-Apr-16	0:00	3,767	783.81	83	2,185.78	Mar-16	70%	70%	221.1	1,525.9
2016-28	1-Apr-16	9:30	570	831.04	83			70%	70%	33.5	
2016-29	3-Apr-16	11:00	2,970	985.00	52			70%	70%	109.1	
2016-30	3-Apr-16	14:00	180	-		Reset to 0		70%	70%		
2016-31	13-Apr-16	12:55	14,335	774.35	54			70%	70%	548.5	
2016-32	13-Apr-16	12:55	-	-	-	Reset to 0		70%	70%		

			Minutes	Totalizer Reading,	scfm	Tot KSCF	% Methane			Heat value per	Total Heat
Data Point	Date	Time	in Period	KSCF		in month	Month	End	Start	time period,	value in month,
2016-34	18-Apr-16	12:27	7,172	265.46	37			70%	70%	188.1	
2016-35	20-Apr-16	10:23	2,756	423.18	57			70%	70%	111.7	
2016-36	26-Apr-16	9:10	8,567	1,182.68	89			70%	70%	538.0	
2016-37	1-May-16	0:00	6,650	1,708.08	79	2,683.62	Apr-16	70%	70%	372.2	1,901.1
2016-38	2-May-16	16:30	2,430	1,900.07	79			70%	70%	136.0	
2016-38	2-May-16	16:30	-	-		Reset to 0		70%	70%		
2016-39	5-May-16	11:35	4,025	300.21	75			70%	70%	212.7	
2016-40	6-May-16	10:30	1,375	339.79	29			70%	70%	28.0	
2016-41	10-May-16	13:30	5,940	427.20	15			64%	70%	59.3	
2016-42	10-May-16	13:30	-	-		Reset to 0		64%	64%		
2016-43	12-May-16	14:30	2,940	49.61	17			64%	64%	32.1	
2016-44	1-Jun-16	0:00	27,930	363.69	11	982.88	May-16	64%	65%	205.0	673.13
2016-45	1-Jun-16	10:00	600	370.44	11			65%	70%	4.6	
2016-46	7-Jun-16	18:15	9,135	430.00	7			70%	75%	43.7	
2016-47	7-Jun-16	18:15	-	-		Reset to 0		75%	75%		
2016-48	9-Jun-16	13:13	2,578	9.81	4			75%	75%	7.4	
2016-49	10-Jun-16	12:49	1,416	26.31	12			75%	75%	12.5	
2016-50	12-Jun-16	9:35	2,686	59.71	12			75%	75%	25.4	
2016-51	13-Jun-16	14:20	1,725	84.02	14			75%	75%	18.5	
2016-52	14-Jun-16	10:55	1,235	105.41	17			75%	75%	16.2	
2016-53	15-Jun-16	16:05	1,750	135.32	17			75%	75%	22.7	
2016-54	16-Jun-16	9:45	1,060	155.25	19			75%	75%	15.1	
2016-55	17-Jun-16	12:40	1,615	188.01	20			75%	72%	24.4	
2016-56	17-Jun-16	12:40	-	-	-	Reset to 0		72%	72%		
2016-57	20-Jun-16	10:25	4,185	85.46	20			72%	72%	62.3	
2016-58	23-Jun-16	9:30	4,265	241.86	37			72%	72%	114.0	
2016-59	27-Jun-16	11:23	5,873	549.75	52			72%	72%	224.3	
2016-60	28-Jun-16	11:30	1,447	658.87	75			72%	72%	79.5	
2016-61	1-Jul-16	0:00	3,630	1,019.98	99	1,274.29	Jun-16	72%	72%	263.1	933.7
2016-62	1-Jul-16	11:25	685	1,088.12	99			72%			

Exhibit 6

Calibrations of the LFG flow rate and provides a compilation of methane content calibration reports for the California Analytical Analyzer 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 man					
	Engine 1, kW	620	620	680	-
	Engine 2, kW	780	780	630	830
	Engine 3, kW	740	740	630	830
	Engine 4, kW	740	740	700	830
	Gross, kW	2,880	2,880	2,640	2,490
MEASURING INSTRUMENT:	Pitot Tube:	166	166	166	166
	Manometer:	Dwyer Mark II	Dwyer Mark II	Dwyer Mark II	Dwyer Mark II
DATE OF MEASUREMENT:		8-Mar-16	19-Apr-16	3-May-16	9-Jun-16
TIME OF MEASUREMENT:		14:00	13:30	12:00	11:45
PARAMETERS	UNITS	VALUES	VALUES	VALUES	VALUES
Pipe dimensions					
	Inside Diameter	inches	10.420	10.420	10.420
	Area of cross section	square feet	0.5922	0.5922	0.5922
Flow Calculation					
Kp	pitot tube constant	ft/sec[(lb/lb-mole)(in. Hg)/(R)(in H2O)]^1/2	85.49	85.49	85.49
Cp	Pitot tube coefficient	dimensionless	1.00	1.00	1.00
dP	Average velocity pressure of stack gas	in H2O	0.246	0.217	0.211
Blower Inlet					
Ts	Stack temperature	Degrees Fahrenheit	68	70	73
		Degrees Rankine	528	530	533
Pg	Stack static pressure	inch H2O	-59	-60	-60
		inch Hg	(4.34)	(4.41)	(4.41)
Ps	Absolute stack gas pressure	inch Hg	25.88	25.58	25.49
Blower Outlet					
Ts	Stack temperature	Degrees Fahrenheit	119	118	119
		Degrees Rankine	579	578	579
Pg	Stack static pressure	inch H2O	52.6	52.6	52.6
		inch Hg	3.87	3.87	3.87
		psig	1.90	1.90	1.90
Pbar	Barometric pressure	inch Hg	30.22	29.99	29.90
Ps	Absolute stack gas pressure	inch Hg	34.09	33.86	33.77
Ms	Molecular weight of stack gas, wet	lb/lb-mole	28.09	27.42	27.12
Vs	Average stack gas velocity	feet per second	36.1	34.6	34.5
Qact	Volumetric Flow	actual cubic feet per minute	1,283	1,229	1,226
Qstd	Volumetric Flow at actual methane content	standard cubic feet per minute *	1,110	1,047	1,034
Qstd corr	Volumetric Flow at 50% methane	standard cubic feet per minute **	1,236	1,124	1,156
Ht HHV	Heat input	MMBtu per hour HHV	37.53	34.13	35.10
Ht LHV	Heat input	MMBtu per hour LHV	33.79	30.73	31.60
	Methane Content	%, vol/vol wet	55.70%	53.70%	55.90%
Diff. between	pitot tube and orifice reading:		-0.4%	-1.3%	0.8%
dP	Delta pressure across orifice plate	inches H2O	9.60	8.80	8.30
Qact	Volumetric Flow	acfm	1,072	1,026	997
Qstd	Volumetric Flow at actual methane content	standard cubic feet per minute *	1,114	1,060	1,026
Qstd	Volumetric Flow at 50% methane	standard cubic feet per minute **	1,241	1,139	1,147
Ht HHV	Heat input	MMBtu per hour HHV	37.67	34.57	34.82
Ht LHV	Heat input	MMBtu per hour LHV	33.91	31.12	31.35
* 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:					
$V_s = K_p \cdot C_p \cdot (\sqrt{dP}) \cdot \sqrt{(T_s / (P_s \cdot M_s))}$					
$Q_{act} = V_s \cdot A \cdot 60$					
$Q_{std} = Q_{act} \cdot T_{std} / T_s \cdot P_s / P_{std}$					
$Flow, ACFM = 96.3221 \cdot \sqrt{dP} \cdot \sqrt{((460 + Temperature) / (2.703 \cdot (Pressure + 14.7)))}$					
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				
Measurements by	TY/RB	TY/RB	TY/RB	TY/RB
Date	8-Mar-16	19-Apr-16	3-May-16	9-Jun-16
Time	14:00	13:30	12:00	11:45
Flow valve				
Pipe inside diameter, inches	10.42	10.42	10.42	10.42
Orifice measurement, cfm	NA	NA	NA	NA
Ambient Temperature, F	45	65	50	65
Barometric Pressure, In Hg	30.22	29.99	29.90	30.33
Blower Inlet Temperature, F	68	70	73	80
Outlet Temperature, F	119	118	119	116
Blower Inlet Pressure (SP), In H2O	-59	-60	-60	-56
Blower Outlet Pressure, PSIG	1.9	1.9	1.9	1.9
Blower Outlet Pressure, In H2O	52.59	52.59	52.59	52.59
Measurement				
Manometer				
Pitot Tube				
Velocity Pressure (dP)				
Point				
1	0.24	0.21	0.20	0.17
2	0.24	0.22	0.21	0.18
3	0.24	0.22	0.21	0.18
4	0.25	0.22	0.21	0.19
5	0.25	0.22	0.21	0.19
6	0.25	0.22	0.22	0.19
7	0.25	0.22	0.22	0.19
8	0.25	0.22	0.22	0.18
9	0.24	0.20	0.20	0.17
Average	0.246	0.217	0.211	0.182
Gas Composition				
Compound, %v/v				
Methane (CH4)	55.7%	53.7%	55.9%	55.6%
Carbon dioxide (CO2)	39.7%	38.0%	38.0%	37.0%
Oxygen (O2)	0.80%	0.80%	0.50%	1.00%
Balance gas	6.00%	7.50%	5.60%	6.40%
Total	102.2%	100.0%	100.0%	100.0%
Moisture (H2O) (included in balance gas)	2.3%	2.5%	2.7%	3.5%
Molecular weight, lb/lb-mole wet	28.09	27.42	27.12	26.94

Biogas Flow Measurements									
$Q = \sqrt{dP / [Ss * (T + 460) / (K^2 * D^4 * P * 16590)]}$									
		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
Mar-16	8-Mar-16	30	0.2	29	1.9%	30	-30	13.61	85
Apr-16	19-Apr-16	40	0.36	39	1.3%	40	-30	13.61	85
May-16	3-May-16	70	1.2	72	-2.9%	70	-30	13.61	85
Jun-16	17-Jun-16	35	0.27	34	2.3%	35	-30	13.61	85

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'California Analytical' Analyzer Calibration Results

Month: March 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
2/28/16	3/1/16	67 Deg F	55%	54.55%	56.39%	1.01%	54.57%	56.89%
3/6/16	3/10/16	69 Deg F	55%	54.52%	55.49%	0.35%	54.23%	55.42%
3/13/16	3/18/16	71 Deg F	55%	54.49%	55.21%	0.17%	54.48%	54.97%
3/20/16	3/24/16	70 Deg F	55%	54.50%	52.90%	0.25%	54.23%	52.94%
3/27/16	3/30/16	70 Deg F	55%	54.50%	54.22%	0.10%	54.75%	54.20%

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'California Analytical' Analyzer Calibration Results

Month: April 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
4/3/16	4/6/16	68 Deg F	55%	54.53%	54.80%	-0.02%	54.23%	54.88%
4/10/16	4/14/16	69 Deg F	55%	54.52%	57.08%	0.10%	54.53%	57.10%
4/17/16	4/20/16	70 Deg F	55%	54.50%	53.72%	-0.05%	54.52%	53.75%
4/24/16	4/27/16	74 Deg F	55%	54.44%	53.23%	0.04%	54.20%	53.35%

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'California Analytical' Analyzer Calibration Results

Month: May 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
5/1/16	5/6/16	73 Deg F	55%	54.46%	56.28%	0.03%	54.50%	56.31%
5/8/16	5/11/16	74 Deg F	55%	54.44%	55.75%	0.04%	54.46%	55.81%
5/15/16	5/17/16	74 Deg F	55%	54.44%	55.45%	-0.01%	54.42%	55.42%
5/22/16	5/26/16	77 Deg F	55%	54.38%	51.20%	0.04%	54.38%	51.20%

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: June 2015		Methane (% v/v) measurements						
Week	Date	LFG Temp @ blower inlet	Cal Gas dry	Cal Gas wet	Pre-calibration	Zero gas	Span gas	Post-calibration
5/29/16	6/3/16	78 Deg F	55%	54.36%	52.78%	0.02%	54.38%	52.80%
6/5/16	6/8/16	80 Deg F	55%	54.32%	57.45%	-0.03%	54.29%	57.38%
6/12/16	6/15/16	82 Deg F	55%	54.28%	54.37%	-0.01%	54.31%	54.42%
6/19/16	6/24/16	83 Deg F	55%	54.26%	49.20%	0.03%	54.20%	48.86%

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, %
Oct-15	26-Oct-15	70.0%	55.0%	55.1%	-0.2%	70.0%
Nov-15	6-Nov-15	70.0%	55.0%	55.0%	0.0%	70.0%
Dec-15	10-Dec-15	69.0%	55.0%	54.8%	0.4%	69.0%
Jan-16	11-Jan-16	66.9%	55.0%	55.9%	-1.6%	68.0%
Feb-16	10-Feb-16	68.0%	55.0%	55.2%	-0.4%	68.0%
Mar-16	8-Mar-16	61.1%	55.0%	54.0%	1.8%	60.0%
Apr-16	19-Apr-16	70.0%	55.0%	54.8%	0.4%	70.0%
May-16	3-May-16	70.0%	55.0%	55.0%	0.0%	70.0%
Jun-16	17-Jun-16	72.0%	55.0%	55.3%	-0.5%	72.0%

Exhibit 7

Attestation Statement

Attestation Statement

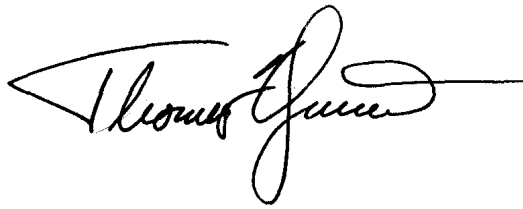
As an officer of Commonwealth New Bedford Energy LLC (CNBE) I hereby certify that the verified carbon units (VCUs) verified under the verified carbon standard (VCS) for the second quarter of 2016 from the Project Activity will be registered on the Markit Environmental Registry (formerly TZ1) only, which 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

July 7, 2016

Date