



**Verified Carbon
Standard**

MANANTIALES BEHR WIND FARM MONITORING REPORT 2022



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Project Title	Manantiales Behr Wind Farm
Version	2
Report ID	MR03MB
Date of Issue	21-September-2023
Project ID	1820
Monitoring Period	01-January-2022 to 31-December-2022
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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

Manantiales Behr wind farm project (hereinafter referred to as the Project or as MBWF) is a Greenfield wind power plant located in the department of Escalante, Province of Chubut, in the south of Argentina. Its total installed capacity is 99 MW and it is connected to the Argentine Interconnection System (hereinafter referred to as the SADI, from the Spanish “Sistema Argentino de Interconexión”).

It was the first wind farm of YPF Energía Eléctrica S.A. (YPF LUZ) and one of the firsts in the country despite Argentina’s great wind potential. Thus, projects like MBWF represent an important renewable and clean non-conventional alternative for electricity generation and a valuable contribution to a sustainable diversification of the Argentine energy matrix.

It consists of 30 aero-generators Vestas, model V-112 3.3 MW IEC IB Class, of 3.3 MW each, totaling 99 MW of installed capacity, with a hub height of 84 meters and a sweep area of 112 meters.

It was constructed in two phases of 49.5 MW each one. The construction started on 19-September-2016. The operation starting dates of the first and second phases were 01-August-2018 and 22-December-2018, respectively.

The net electricity generated by the Project during this monitoring period (01-January-2022 – 31-December-2022) was 513,586 MWh. With a load factor around 60% MBWF is one of the wind farms with the highest performance in Argentina and worldwide.

The total GHG emissions reductions achieved by MBWF in this monitoring period are 261,415 tCO₂e.

The audit history of the project is bellow illustrated:

Audit Type	Period	Program	VVB Name	Number of years
Validation	01-February-2019	Verified Carbon Standard	AENOR INTERNACIONAL S.A.U.	-
1 st Verification	01-August-2018 – 31-December-2020	Verified Carbon Standard	AENOR INTERNACIONAL S.A.U.	2 years and 5 months
2 nd Verification	01-January-2021 – 31-December-2021	Verified Carbon Standard	KBS Certification Services Pvt. Ltd.	1 year

3 rd Verification	01-January-2022 – 31-December-2022	Verified Carbon Standard	KBS Certification Service Pvt. Ltd.	1 year
Total	-	Verified Carbon Standard	-	4 years and 5 months

1.2 Sectoral Scope and Project Type

Sectoral scope: 01; Energy industries (renewable - / non-renewable sources)

The Project is not a grouped GHG project.

1.3 Project Proponent

Organization name	YPF Energía Eléctrica S.A. (YPF LUZ)
Contact person	Santiago Sajaroff
Title	Chief Operation Officer
Address	Macacha Güemes 515, Buenos Aires
Telephone	+54 11 54413985
Email	santiago.sajaroff@ypf.com

1.4 Other Entities Involved in the Project

Organization name	Not applicable
Role in the Project	Not applicable
Contact person	Not applicable
Title	Not applicable
Address	Not applicable
Telephone	Not applicable
Email	Not applicable

1.5 Project Start Date

01-August-2018. It is the commercial operation date (COD) of the project's phase 1 (49.5 MW) when it officially started to dispatch electricity to the Argentinean electricity system, as allowed by CAMMESA's authorization dated on 31-July-2018.

The commercial operation of the second phase (49.5 MW) was completed on 22-December-2018 according to CAMMESA's authorization dated on 21-December-2018.

1.6 Project Crediting Period

Project crediting period: 10 years, extendable twice for another 10 years each time.

Start date: 01-August-2018

End date: 31-July-2028

1.7 Project Location

The Project is located in the San Jorge Gulf basin within the Manantiales Behr reservoir operated by YPF S.A., in Escalante Department, province of Chubut, approximately 40 km north-west from Comodoro Rivadavia city, Argentina.

The geographic coordinates of the project are:

Latitude: 45° 40' 12" S

Longitude: 67° 46' 48" W



1.8 Title and Reference of Methodology

The methodology and tools applied by the project are:

- ACM0002 "Grid-connected electricity generation from renewable sources", Version 19.0.

- Tool for the demonstration and assessment of additionality; Version 07.0.0.
- Methodological Tool: Investment Analysis; Version 09.0.
- Tool to calculate the emission factor for an electricity system; Version 07.0.
- Methodological tool: Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation; Version 03.0.

1.9 Participation under other GHG Programs

The project neither has been registered nor is seeking for registration under any other GHG programs.

1.10 Other Forms of Credit and Supply Chain (Scope 3) Emissions

GHG emissions reductions by the Project are not and will not be included in other emission trading programs or for compliance with binding limits to GHG emissions. Argentina does not have GHG emission compliance nor trading programs in place.

The Project has neither sought nor received another form of GHG-related environmental credit, including renewable energy certificates, during this monitoring period.

1.11 Sustainable Development Contributions

MBWF -one of the wind farms with the highest capacity factor worldwide- increases the renewable energy' installed capacity and generation in Argentina, reducing the national grid GHG emissions.

MBWF workers are trained according to YPF Luz training program, and they have not suffered fatal or non-fatal occupational injuries based on MBWF certified occupational health and safety management system.

YPF Luz and MBWF personnel also participates in divulgation and awareness activities for several people.

Finally, YPF Luz publishes its sustainability reports, has joined the UN Global Compact and is member of the board of directors of the Argentine Global Compact network.

Table 1: Sustainable Development Contributions

Row number	SDG Target	SDG Indicator	Net Impact on SDG Indicator	Current Project Contributions	Contributions Over Project Lifetime
1)	4.3	Number of participants in training, and divulgation and awareness activities	Implemented activities to increase	In 2022, 8 new MBWF's employees¹ participated in YPF Luz annual training program. Additionally, about 116 YouTube viewers visited YPF Foundation free online seminar "More sustainable energy from NOA to Patagonia" (NOA is the abbreviation in Spanish of Northwest of Argentina), directed to high schools' and universities' technical students, where YPF Luz experts participated as trainers.	Over the project lifetime: i) 31 MBWF's employees² have participated in YPF Luz annual training programs, and 2 MBWF young employees participated in the company's 9 months' new professionals training program. ii) YPF Luz experts have participated in 2020, 2021 and 2022 as trainers in YPF Foundation' courses and webinars with more than 24,000 participants registered and about 44,116 views on YouTube in total. In 2019 more than 600 people participated in free renewable energy talks within the Framework of YPF Foundation' Renewable Energy Program, where YPF Luz staff made presentations about renewable energy and MBWF and 20 national and provincial journalists participated in a media visit to MBWF.

¹ The 8 new employees participated in the 2022 annual training program together with the other 21 MBWF' employees that started to work in MBWF before 2022 and had already participated in previous annual training programs.

² Is the total amount of MBWF employees as per MBWF employees' registry from 31-December-2022. It is important to clarify that, as per the Monitoring Report for the period 01-January-2021 to 31-December-2021, in 31-December-2021 the total amount of MBWF employees were 30 that have participated in the previous

2)	7.2	7.2.1 Renewable energy share in the total final energy consumption	Implemented activities to increase	The project has generated 513,586 MWh of renewable energy for final energy consumption during the present monitoring period.	The project has generated 2,205,199 MWh of renewable energy for final energy consumption during its lifetime.
3)	7.b	7.b.1 Installed renewable energy-generating capacity in developing countries (in watts per capita)	Implemented activities to increase	No further changes this monitoring period.	The project has installed a renewable energy-generating capacity of 99 MW in Argentina.
4)	8.8	8.8.1 Fatal and non-fatal occupational injuries per 100,000 workers, by sex and migrant status	Implemented activities to decrease	The number of fatal and non-fatal occupational injuries at MBWF during the present monitoring period was zero.	The number of fatal and non-fatal occupational injuries at MBWF during the project lifetime is zero.
5)	12.6	12.6.1 Number of companies publishing sustainability reports	Implemented activities to increase	YFP Luz is elaborating the 2022 sustainability report, which corresponds to the present monitoring period.	YFP Luz has published four annual sustainability reports (2018, 2019, 2020 and 2021) and is elaborating its 2022 sustainability report.

years' annual training programs. During 2022, 7 MBWF employees left MBWF, and 8 new employees started to work in MBWF. Thus, the total amount of MBWF employees by the end of 2022 was 31. Full records provided to the VVB.

6)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	By generating electricity from wind power and dispatching it to the Argentinean national grid, the project has reduced 261,415 tonnes of CO ₂ e during the present monitoring period.	By generating electricity from wind power and dispatching it to the Argentinean national grid, the project has reduced 1,122,446 tonnes of CO ₂ e during its lifetime.
7)	17.6	Number of companies reporting progress in multi-stakeholder partnerships that support the achievement of the sustainable development goals	Implemented activities to increase	YPF Luz continue to be participant of the UN Global Compact and since 2022 is member of the board of directors of the Argentine Global Compact network.	YPF Luz is a participant of the UN Global Compact since 2021 and since 2022 is member of the board of directors of the Argentine Global Compact network.

2 SAFEGUARDS

2.1 No Net Harm

The MBWF potential environmental and socio-economic impacts and the steps to mitigate them have been identified in the Environmental Impact Assessment (EIA) approved by the Ministry of Environment and Sustainable Development Control of Chubut on 22-July-2016 (Disposición N° 137/16-SGAyDS).

The conclusion of the EIA is that the project activity does not generate significant negative impacts. There are low negative impacts (40%), moderate negative impacts (23%) and positive impacts (37%).

Additionally, according to the analysis of factors most affected by the projects, the most and less affected factors are the economic activity and the workers, respectively, and both are affected positively.

Regarding MBWF operational stage, as shown in the environmental impact's identification matrix contained in the EIA, all socio-economic impacts identified are positive. The only negative aspects are the impacts on birds' life, the generation of noise and visual impact, although the latter are low impacts given that the project is in an area of hydrocarbon exploitation, not an urban settlement.

To prevent, mitigate and or revert the project negative impacts, an Environmental Management Plan (PGA due to its name in Spanish "Plan de Gestión Ambiental") has been designed as part of the EIA and has been implemented. The main objectives of the PGA are:

- To preserve the environmental quality by minimizing the negative impacts caused in the area of direct influence of the project.
- To encourage the execution of activities planned for the project that cause positive impacts on environmental factors.
- To guarantee the execution of the project in an environmentally responsible manner, controlling the human activities derived from the different stages of the project in a way that they are developed in an appropriate manner.
- To foresee and execute direct and specific actions to prevent or correct the environmental impacts indicated in the environmental report.
- To generate environmental awareness and to promote a responsible attitude that contributes to preserve the environment.

The PGA is divided in general measures and detailed specific measures to mitigate the impacts of each stage of the project. The below table illustrate the preventive, corrective and mitigating measures established for the operational stage:

Action	Impact	Measures
Operation of the energy generation system	Fauna and Flora affectation. Operators.	Before MB operation start, there must be certainty about its perfect operating condition. For this, a series of operations are carried out, including among others: verification of the foundations compaction, control of the laboratory results of materials of all the foundations and towers, circulation situation through the corridors for future maintenance, etc. All security requirements must be met, such as warnings, permanent communication, verification of use of security elements by personnel, team coordination, etc. Within the task plan, the responsibilities of each intervening team must be perfectly defined, according to the management plan to be used. Noise measurements must be carried out in accordance with current laws. Danger sites must be signaled with warning signs. Voltage Installations must be well signaled.
Maintenance	Noise and Particulate Material Generation, fauna and Flora affectation. Operators.	Periodic maintenance of the project's vehicles must be carried out to avoid the disturbance of habitats, shelters and existing natural fauna. Proper functioning of machinery and equipment will be controlled, checking noise control devices. The standards established by the National Communications Commission must be respected. Hunting of wildlife is strictly prohibited. Gathering of wild plants and introduction of non-native not adapted species is prohibited. Regarding the generation of particulate material, trucks that can generate particle emissions from the transported material will be covered with tarpaulins, to avoid loss and dispersion of the material. The maintenance personnel must be provided with all the necessary protective equipment to ensure the health and safety conditions established by the current industrial hygiene and safety standards. Wind turbines will carry out the monitoring and the following records will be implemented according to ENRE Resolution No. 0197/2011³: a) Annual measurements of noise levels.

³ [https://www.enre.gov.ar/web/bibliotd.nsf/\(\\$IDWeb\)/5AC50951F115D82D0325789C0046B0CF](https://www.enre.gov.ar/web/bibliotd.nsf/($IDWeb)/5AC50951F115D82D0325789C0046B0CF)

Action	Impact	Measures
		b) Noise measurements after the occurrence of extraordinary natural phenomena. c) Vibrations: periodically verification of compliance with IRAM norm 4078/89 in the borders of the power plant. The purpose of these monitoring is to determine the impact on the neighborhood -structures and people- caused by the operation of the plant. Thus, verification should be carried out when there are neighbors in the perimeter or due to claims. d) Bird impact record: sustained monitoring during at least one year after the wind farm operation started to evaluate the real impact of the structures in operation, considering raptors, migratory birds, and endemic birds.

Furthermore, MBWF has in place a Biodiversity Management Plan that defines methodologies for revegetation of affected areas, describes the risk management measures for birds and bats during the different phases of the project and establishes methods to reduce wildlife mortality events.

MBWF has also in place a certified Environmental Management System according to ISO 14.001 which is part of its Integrated Management System (ISO 9001, ISO 14001, and ISO 45001).

2.2 Local Stakeholder Consultation

As stated in YPF Luz 2021 Sustainability Report⁴:

“We maintain a fluid dialogue with each of our stakeholders, to identify their needs and expectations in relation to the Company, and to keep them informed about our performance. Ongoing dialogue with our stakeholders is fundamental for the development of our Company. Their expectations and opinions are gathered through information from direct contacts and internal management and the various channels of communication and dialogue provided by the Company.”

As also illustrated in the 2021 Sustainability report, the company has mapped its stakeholders, their importance, and the dialogue spaces with each of them, encompassing: personnel, trade unions, investors, suppliers, clients, government and controlling authorities, media, chambers and associations, community, and general public. Particularly, with regards to the community, the company’s philosophy is to maintain an open and fluent dialogue with each community where it operates to identify the impacts of its activities, address questions and complaints and

⁴ Available at: <https://www.ypfuz.com/Sustainability>

identify the community needs, to jointly define a social investment program, that is implemented with the involvement of the company volunteer employees.

The below table contained in the 2021 Sustainability report, illustrates the community actors identified by the company and the dialogue spaces with them.

Stakeholders	Who are they?	Dialogue Spaces
Community	Neighbors, Communities, Non-profit associations with which YPF Luz works, Universities, Schools near the sites where the company operate.	Meetings with community leaders, Virtual training, Volunteer activities, Press releases, Mentoring and webinars, Surveys, Compliance Channel, Questions and Grievances Channel, Corporate website, Linkedin, Sustainability Report

As above indicated, YPF Luz website (<http://www.ypfluz.com>) is one of the communication channels with the community and all stakeholders. The website provides several information about the company, among others:

- Compliance: code of ethics, anti-bribery policy and the compliance line with the different channels employees and stakeholders can utilize to raise questions or concerns (online: www.ypfluz.com/CanalCompliance; email: canalcompliance.ypfluz@kpmg.com.ar; phone: 0800-122-0278; in person), ⁵
- Its assets (operational and under construction), including MBWF,
- Sustainability: pillars, reports, policies, management certifications of its assets (quality, environmental, occupational health and safety, energy, among others)
- News about the company,
- Contact channels,
- Etc.

The website invites stakeholders to send their messages (comments, questions, suggestions, grievances) through the website form or writing to the e-mail address: sugerenciasypfluz@ypf.com. Additionally, stakeholders can leave a note in the suggestion boxes available at the reception of each YPF Luz site.

⁵ <https://www.ypfluz.com/Compliance/En>

Additionally, MBWF has in place a procedure for communication which establishes the method used for documenting internal and external communications.

Finally, as also stated in the 2021 Sustainability Report, YPF Luz has in place a questions and grievances handling system which ensures traceability, follow-up of and response to each grievance or comment received, both internally and from third parties. In accordance with the Questions and Grievances Policy, any question or grievance received must be recorded for follow-up purposes. Every question or grievance received - whether from the web, by e-mail, in writing or by telephone - is recorded for the corresponding follow-up. The system ensures the recording and follow-up of each inquiry or complaint until its closure, with information on the person who made it, the areas involved and other relevant data. The system is confidential and is managed by the Institutional Relations Department, which grants access on a case-by-case basis to the areas that are required to act. Efforts are made to respond all questions and grievances within 10 days. If no satisfactory response can be given within this period, the stakeholder is informed on progress. Each question or grievance received is assigned a case number and all documentation related to it is filed in the Database of Questions and Grievances.

According to the questions and grievances handling system records, in 2022 YPF Luz received 131 questions and grievances that were answered within a maximum of 3 days. 79 were general comments and the other 52 were about the company's projects, of which 4 were related with MBWF. According to the records, one comment was a suggestion regarding the snacks for the personnel, other was from an MBA student asking for an interview about the project, other person wanted to have information about carbon markets due to YPF Luz experience with MBWF VCS Project, and the last one asked for information about the project. None of them were related with the MBWF design. The 4 questions and comments related with MBWF were considered and answered by the company according to the records.⁶

2.3 AFOLU-Specific Safeguards

Not applicable. The present project activity is a non-AFOLU project.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

MBWF has operated under normal conditions during the present monitoring period. There has not been any event of break down or non-operational phase of the entire wind farm. There have

⁶ YPF Luz questions and grievances handling system records for 2022 have been provided to the VVB at verification.

been only stops of some turbines during short periods (less than a day) due to maintenance or minor failures with minimum impact on the GHG emissions reductions.

With regards to MBWF monitoring, the organizational structure, responsibilities, and competencies of the monitoring personnel has been established as stated in the registered PD. The methods for measuring, recording, storing, aggregating, collating and reporting data and parameters has followed the Wholesale Electricity Market Administrator Company (CAMMESA) technical procedures regarding the Commercial Measurement System (“SMEC” from the Spanish Sistema de Medición Comercial) and the Real Time Operation System (“SOTR” from the Spanish Sistema de Operación en Tiempo Real)⁷ as required for projects that dispatch electricity to the Wholesale Electricity Market (“MEM” from the Spanish Mercado Eléctrico Mayorista).

3.2 Deviations

3.2.1 Methodology Deviations

There have not been any methodology deviations during the present monitoring period.

3.2.2 Project Description Deviations

There is a project description deviation during this monitoring period that started in the previous monitoring period and has been already informed in the previous approved monitoring report as follows.

The project description deviation is regarding MBWF electricity billing meters and their location.

The PD stated: “The energy generated by the complex is transmitted to a new substation constructed and owned by YPFEE (SE Manantiales Behr) which is connected to the SADI through a 21 km high tension transmission line that connects YPEE’s substation to the substation SE Escalante where the electricity billing meter (the main meter) is located.”

On 27-March-2021 the natural gas thermal power plant Manantiales Behr II (CTMB II) started to operate upstream MBWF and this new power plant is connected to the SADI through MBWF. Thus, once the CTMB II started to operate, the electricity measured at Escalante substation was the electricity generated by both projects. For this reason, prior to CTMB II operation start, CAMMESA resolved to establish two new nodes with SMEC electricity meters at each project’ substation to directly measure the electricity generated by each one once CTMB II started to

⁷ CAMMESA Procedures Version XXVIII, Annex 24 (Operation and dispatch system (SOD)); 31/05/2020; Available to the VVB at verification.

Due to the above, until 27-March-2021 the main (billing) and back-up SMEC meters (MBHERM61) that directly measured MBWF electricity generation were located at Escalante substation as stated in the registered PD and illustrated in the below line diagram that shows the location and connection to the national electrical grid system (SADI).

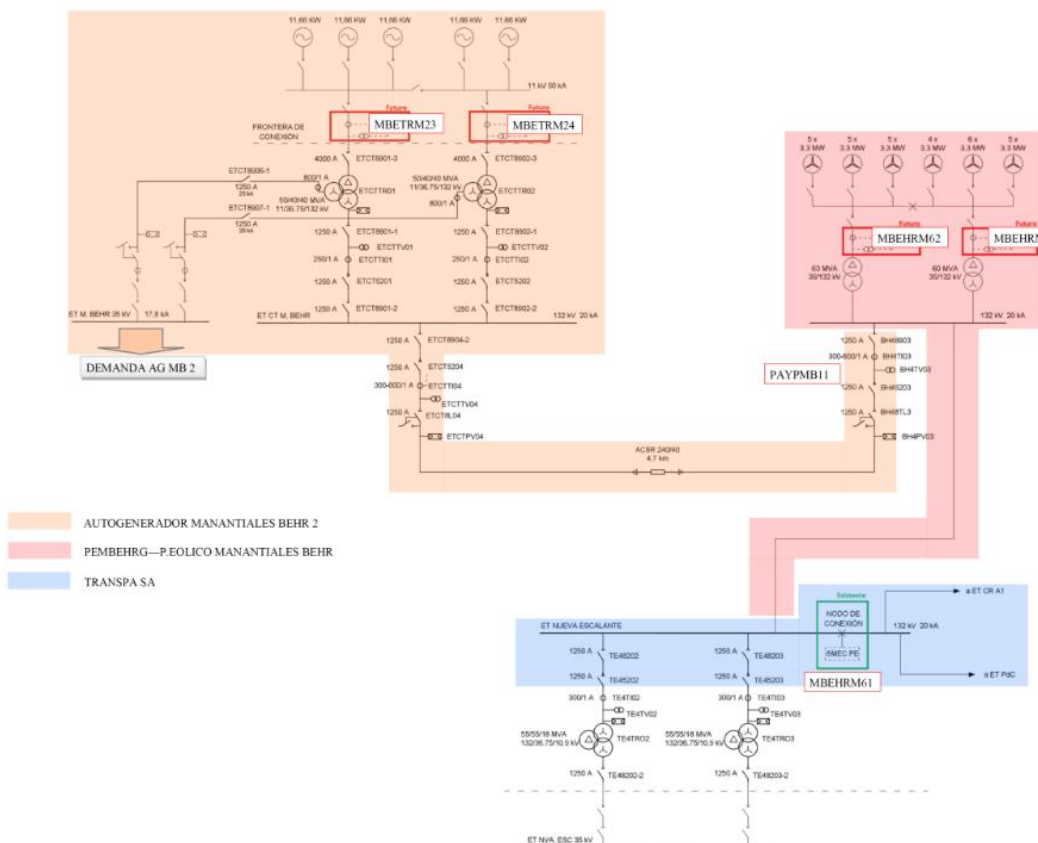
Diagrama de conexión de la subestación ET NÚCLEO DE CONEXIÓN. El diagrama muestra la configuración de la subestación, incluyendo la línea de transmisión de 132 kV, los transformadores de potencia de 60 MVA, los interruptores de potencia, los transformadores de distribución de 55/55/18 MVA, y los equipos de protección y medición. Se indican también los puntos de conexión a la red de distribución y a la red de transmisión.

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From 27-March-2021 onwards, as established by CAMMESA, Manantiales Behr substation meters -2 main (billing) meters and 2 back-up meters that measure the generation of 15 aerogenerators each one- started to operate as MBWF' SMEC meters (MBHERM62 and MBHERM63).

The below line diagram illustrates their location and connection to the SADI through a high-tension transmission line that connects MBWF substation to Escalante substation. The line diagram also illustrates the CTMB II location upstream MBWF, its billing meters (MBETRM23 and MBETRM24) and its connection to the SADI through MBWF (node PAYPMB 11)⁹. Thus, it shows that once the CTMB II started to operate, the electricity measured at Escalante substation (MBHERM61) is the electricity generated by both projects and explains why CAMMESA established the two new nodes with SMEC electricity meters at each project' substation to directly measure the electricity generated by each one. In this regard, CAMMESA letter to PP also established that once MBWF new nodes started to operate, MBEHRM61 node would be removed.

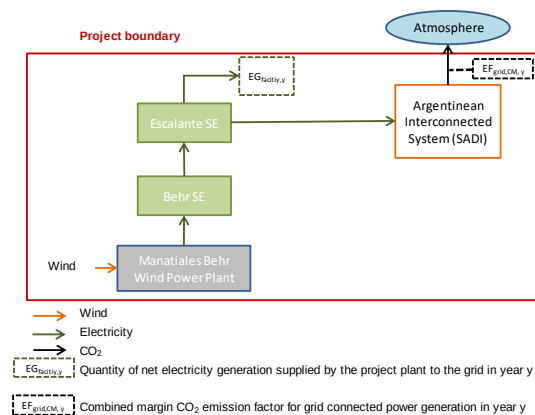
Line diagram from 27-March-2021 onwards:



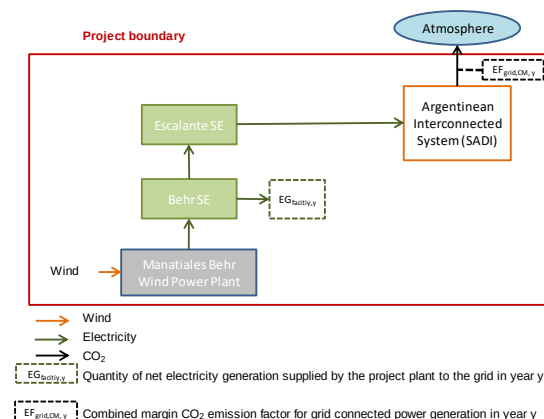
⁹ Line diagram as per CAMMESA letter.

According to the above stated, the below flow diagrams summarize the equipment, systems and flows of mass and energy including the emissions sources and GHGs included in the project boundary as per the registered PD and from 27/03/2021 onwards.

Registered PD (until 27-March-2021):



From 27-March-2021 onwards:



All MBWF' SMEC electricity meters have been and are high accuracy measurement devices (bi-directional energy meter Class 0.2S) in compliance with CAMMESA' regulated requirements and as stated in the registered PD, and the procedures for maintenance, calibration and failures of the monitoring equipment have been conducted in accordance with national procedures and standards as stated in the registered PD and as required by the applicable methodology ACM0002 Version 19.0.

Thus, the present PD deviation only encompasses a change of the meters' equipment and their location. It does not impact the applicability of the methodology, additionality or the appropriateness of the baseline scenario, and the project remains in compliance with the applied methodology, as below demonstrated.

The project additionality has been demonstrated in the registered PD through investment analysis and common practice analysis. The present PD deviation is without the category of changes that may impact the validity of investment analysis, as per the *CDM Guidelines on assessment of different types of changes from the project activity as described in the registered PDD*, such as: changes in the effective output capacity due to increased installed capacity or number of units, addition of component or extension of technology, removal or addition of one (or more) site of a project activity registered with multiple-sites, or different values of those actual operational parameters relevant to determination of emission reduction which are within the control of project participant and which result in the IRR passing the benchmark as described in the registered PDD.

Thus, this PD deviation does not affect the additionality of the project activity.

Regarding the baseline scenario of the present project activity, as stated in the registered PD it is a greenfield project, and according to the applicable methodology ACM0002 (version 19.0): “If the project activity is the installation of a Greenfield power plant, the baseline scenario is the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the Tool to calculate the emission factor for an electricity system.”

The present PD deviation does not affect the project activity connection to the Argentinean national grid (SADI) which continues to be through a 21 km high-tension transmission line that connects MBWF substation to the Escalante substation. Thus, this PD deviation does not impact the appropriateness of the baseline scenario of the project.

Finally, the present PD deviation does not impact the applicability/application of the baseline methodology since the change of meters equipment and their location does not affect or impact any of the ACM0002 (version 19.0) applicability criteria that were demonstrated in section 2.2 of the registered PD. Thus, the project remains in compliance with the applied methodology.

Consequently, the above-described PD deviation does not impact the applicability of the methodology, additionality or the appropriateness of the baseline scenario, and the project remains in compliance with the applied methodology. Thus, it has been described and justified in the present monitoring report as per item b) of section 3.20.2 of VCS Standard v4.4.

3.3 Grouped Projects

Not applicable. MBWF is not a grouped project.

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

Data / Parameter	EF _{grid,OM,y}
Data unit	tCO ₂ /MWh
Description	Operating Margin Emissions factor
Source of data	Registered PD
Value applied	0.532
Justification of choice of data or description of measurement methods and procedures applied	Calculated according to the Tool to calculate the emission factor for an electricity system, (version 07.0).

Purpose of Data	Calculation of baseline emissions
Comments	-

Data / Parameter	$EF_{grid,BM,y}$
Data unit	tCO ₂ /MWh
Description	Build Margin Emissions factor
Source of data	Registered PD
Value applied	0.440
Justification of choice of data or description of measurement methods and procedures applied	Calculated according to the Tool to calculate the emission factor for an electricity system, (version 07.0).
Purpose of Data	Calculation of baseline emissions
Comments	-

Data / Parameter	$EF_{grid,CM,y}$
Data unit	tCO ₂ /MWh
Description	Combined Margin Emissions factor
Source of data	Registered PD
Value applied	0.509
Justification of choice of data or description of measurement methods and procedures applied	Calculated according to the Tool to calculate the emission factor for an electricity system, (version 07.0).
Purpose of Data	Calculation of baseline emissions
Comments	-

4.2 Data and Parameters Monitored

Data / Parameter	$EG_{facility,y}$ (or $EG_{PJ,y}$)
Data unit	MWh/yr
Description	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y
Source of data	Electricity meter

Description of measurement methods and procedures to be applied	CAMMESA’s Electric-Commercial Metering System (Sistema de Medición Eléctrico Comercial – SMEC) includes all the equipment required for the measurement and recording of energy dispatched at each node. In line with these requirements, from 27-March-2021 onwards, MBWF SMEC comprises: two main meters and 2 back-up meters at MBWF Substation. They are sealed and controlled by CAMMESA. YPF Luz, as well as any other MEM Agent, are prohibited from unsealing the SMEC meters. The SMEC deliver measurements of generated energy every 15 minutes. Daily CAMMESA remotely downloads the records and elaborates the “Post-Operative Reports”. The monitored values below illustrated come from CAMMESA monthly reports.¹⁰		
Frequency of monitoring/recording	Continuous measurements and monthly recorded.		
Value monitored	513,586		
Monitoring equipment	Until 16/08/2022*		
	Main (billing) meters		
	ID	MBEHM62P	MBEHM63P
	Brand & model	CIRCUTOR/CIRWATT 402-MT1A-26D	
	Serial number	351608495	351600248
	Accuracy class ¹¹	0.2S	0.2S
	Calibration/Verification	15/04/2021	15/04/2021
	Location	MBEHR Substation	
	Type	Bidirectional	
	Back-up (control) meters		
	ID	MBEHM62C	MBEHM63C
	Brand & model	CIRCUTOR/CIRWATT 402- MT1A-26D	
	Serial number	351608501	351604423
	Accuracy class ¹²	0.2S	0.2S
	Calibration/Verification	15/04/2021	15/04/2021
	Location	MBEHR Substation	
	Type	Bidirectional	
	From 16/08/2022*		
	Main (billing) meters		

¹⁰ File name: “BASE_INFORME_MENSUAL_2023-02.zip” / “BASE_OFERTA_INFORME_MENSUAL_2023-02” folder / . “Generación Local Mensual.xlsx” file. Route of access: “CAMMESA website” / “Informes y estadísticas” / “Síntesis mensual” / “Descargar Informes Históricos”; Link: <https://cammesaweb.cammesa.com/informe-sintesis-mensual/>

¹¹ CAMMESA Procedures, Version XXVIII, Annex 24: Operation and Dispatch System (SOD); Version 31-May-2020; Page 271 (Characteristics of equipment and accuracy class/Meters of power utilities with installed capacity equal or greater than 20 MW).

¹² CAMMESA Procedures, Version XXVIII, Annex 24: Operation and Dispatch System (SOD); Version 31-May-2020; Page 271 Characteristics of equipment and accuracy class/Meters of power utilities with installed capacity equal or greater than 20 MW.

QA/QC procedures to be applied	ID	MBEHM62P	MBEHM63P
	Brand & model	CIRCUTOR/CIRWATT 402-MT5A-26D	
	Serial number	351600182	352004283
	Accuracy class ¹³	0.2S	0.2S
	Calibration/Verification	16/08/2022	16/08/2022
	Location	MBEHR Substation	
	Type	Bidirectional	
		Back-up (control) meters	
	ID	MBEHM62C	MBEHM63C
	Brand & model	CIRCUTOR/CIRWATT 402- MT5A-26D	
	Serial number	352004282	351600190
	Accuracy class ¹⁴	0.2S	0.2S
	Calibration/Verification	16/08/2022	16/08/2022
	Location	MBEHR Substation	
	Type	Bidirectional	
	Meters were calibrated according to CAMMESA procedures. In this regard, CAMMESA's Technical Procedure 14 (SMEC External Audits) ¹⁵ states that CAMMESA, as responsible for the certainty of the data used in transactions between MEM Agents and the supervision of the accuracy of the data generated in the SMEC, must carry out the tests and verifications of equipment and facilities affected to it, by itself or through the total or partial contracting of the service to third parties. Verifications are conducted according to CAMMESA's Action Plan, which is a set of annual verification tasks on a sample of SMECs determined by CAMMESA.		
	According to CAMMESA webpage (https://cammesaweb.cammesa.com/auditoria/#acalidad) the purpose of the verifications or audits and the sample of SMECs are as follows: “The Measurement Quality Audits are intended to verify that the SMEC nodes that are already commercially authorized continue to meet the quality standards with which they were originally audited and are in line with current regulatory requirements. Within this framework, 240 measurement points are audited per year, divided equally between the North and South zones. The selection of the nodes		

¹³ CAMMESA Procedures, Version XXVIII, Annex 24: Operation and Dispatch System (SOD); Version 31-May-2020; Page 271 (Characteristics of equipment and accuracy class/Meters of power utilities with installed capacity equal or greater than 20 MW).

¹⁴ CAMMESA Procedures, Version XXVIII, Annex 24: Operation and Dispatch System (SOD); Version 31-May-2020; Page 271 Characteristics of equipment and accuracy class/Meters of power utilities with installed capacity equal or greater than 20 MW.

¹⁵ CAMMESA Procedures, Version XXVIII, Technical Procedure P.T. 14: SMEC External Audits; Version 31-May-2020; Pages 292-312.

	to be audited is random, following a sampling grid that allows a global panorama of the entire SMEC node park. In this way, the audits to be carried out are proportionally distributed among the different types of MEM Agents to obtain a balanced sample. In addition to the annual audit plan, the regulations provide that CAMMESA may require a specific audit to be carried out on a SMEC node in the event of alleged deviations in its quality.” As a result, MBWF SMEC meters were verified (calibrated) according to CAMMESA scheduling and as per its procedures on the dates above stated.¹⁶ In case of meters failures CAMMESA procedure of data collection in emergency is followed.¹⁷ The net electricity generation data from MBWF SMEC, contained in CAMMESA monthly reports publicly available, has been cross-checked with MBWF electricity sales records contained in CAMMESA monthly Economic Transactions Documents (DTE, due to its name in Spanish) available to the MEM Agents. All data collected during the monitoring period has been archived electronically and will be kept at least for 2 years after the end of the last crediting period.
Purpose of the data	Calculation of baseline emissions
Calculation method	Not applicable
Comments	As above illustrated, there has been a replacement of the 4 SMEC meters during the present monitoring period. The 4 previous SMEC meters obtained their commercial authorization by CAMMESA on 15/04/2021, but CAMMESA required to replace them and the current transformers to meet

¹⁶ The PD applied methodology ACM0002 Version 19.0. Paragraph 65 of the methodology establishes: “65. In addition, the monitoring provisions in the tools referred to in this methodology apply. Accordingly, $EG_{facility,y}$ and $EG_{PJ_Add,y}$ shall be determined as per “TOOL05: Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation”. Regarding QA/QC procedures, the applicable version 03.0 of the tool establishes in “Data / Parameter table 12” ($EG_{PJ,grid,y}$ or $EG_{PJ,facility,I,y}$): “In cases where electricity meters are regulated (e.g. the electricity is supplied to the electric grid), the electricity meter will be subject to regular maintenance and testing in accordance with the stipulation of the meter supplier and/or as per the requirements set by the grid operators or national requirements. The calibration of meters, including the frequency of calibration, should be done in accordance with national standards or requirements set by the meter supplier or requirements set by the grid operators.” Consequently, given that the calibration of MB SMEC meters, including the frequency of calibration, is conducted in accordance with national standards or requirements set by the meter supplier or requirements set by the grid operators (CAMMESA’s Technical Procedure 14 (SMEC External Audits), the calibration (including its frequency) of MB SMEC meters during the monitored period covered by the present MR is in compliance with the requirements established by ACM0002 Version 19.0 and the applicable tool “Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation”, Version 03.0.

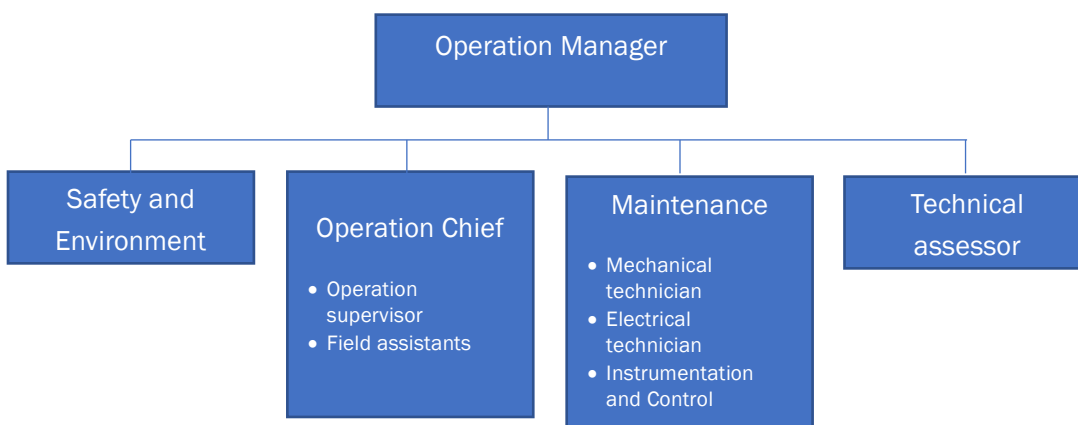
¹⁷ CAMMESA Procedures, Version XXVIII, Technical Procedure P.T. 3: Commercial Measurement System (SMEC) Procedure of data collection in emergency; Pages 19-33; <https://cammesaweb.cammesa.com/los-procedimientos/>

the requirement of using 5 A equipment in medium voltage measurements as per CAMMESA Procedures Annex 24. CAMMESA also confirmed that the previous meters maintained their commercial authorization until the replacement. The new 4 SMEC meters obtained their commercial authorization by CAMMESA on 16/08/2022.¹⁸

4.3 Monitoring Plan

Organizational structure, responsibilities and competencies of the personnel that carried out monitoring activities.

The organizational structure of the project for the operation, maintenance, safety, and environment task is illustrated in the diagram below.



The operation supervisor and field assistants are responsible for monitoring the operation and electricity generation of the wind farm in accordance with CAMMESA requirements. They have permanent presence in the control room of MBWF.

Detailed roles and responsibilities of the relevant staff involved in monitoring have been established and they have received relevant training, when required, to ensure that monitoring duties are performed by trained staff.¹⁹

Methods for measuring, recording, storing, aggregating, collating, and reporting the data on monitored parameters.

As above mentioned, MBWF electricity generation is dispatched to the Wholesale Electricity Market (MEM). Therefore, measuring, recording, storing, aggregating, collating, and reporting

¹⁸ SMEC projects elaborated by YPF Luz and submitted to CAMMESA for the new SMEC meters, CAMMESA letter of approval of the SMEC projects, CAMMESA confirmation that the previous SMEC meters were commercially authorized until the replacement and CAMMESA commercial authorizations and calibration/verification of the 4 new SMEC meter available to the VVB at verification.

¹⁹ Jobs descriptions sheets and trainings records sheet provided to the VVB at verification.

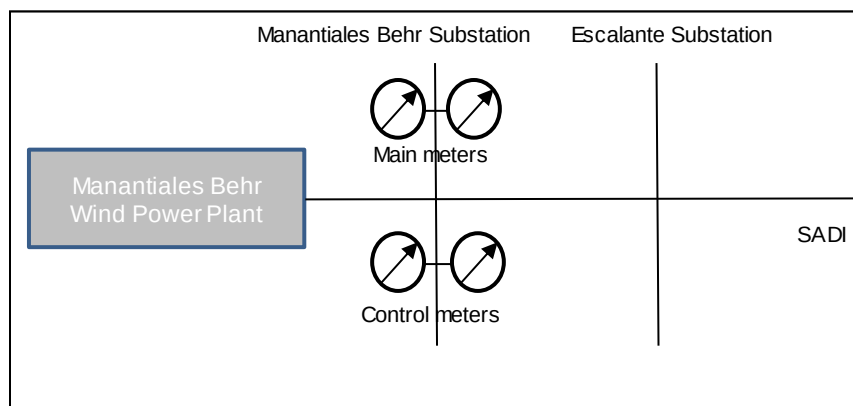
data and parameters follow CAMMESA technical procedures regarding the SMEC and the Real Time Operation System (“SOTR” from the Spanish Sistema de Operación en Tiempo Real).²⁰

All commercial transactions in the MEM require measurement of active energy at the MEM nodes, where generators are connected to the grid (delivery point). The SMEC established by CAMMESA for commercial purposes includes all the equipment required for the measurement and recording of energy delivered at each node. Communication systems allow direct remote access for auditing purpose to the records at all the nodes.

As described in section 2.1.2 above, from 27/03/2021 onwards MBWF net electricity generation supplied to the grid has been measured at the SMEC meters located at MBWF substation.

The SMEC system measures the net electricity generated by MBWF and result in the final value that is used for commercial purposes. All the SMEC devices measure, record and store the delivered electricity data. They are sealed and controlled by CAMMESA. The SMEC deliver measurements of generated energy every 15 minutes and has a storage capacity of information in circular memory is no less than 35 days.

The line diagram below illustrates the measurement arrangements during the present monitoring period:



CAMMESA receives the recorded data from the SMEC and elaborates the “Post-Operative Report” which is published in CAMMESA website every 4 days and each generator agent is allowed to look all the recorded data of CAMMESA. MBWF operation personnel are well trained and have the resources to gather and process all the information from the SMEC.

CAMMESA publicly available monthly reports are the official source utilized to report the net electricity generated by the Project to the grid and calculate the GHGs emissions reductions.

No sampling approaches are applicable to this project activity.

²⁰ CAMMESA Procedures, Version XXVIII, Annex 24: Operation and Dispatch System (SOD); Version 31-May-2020; Page 271.

All data collected as part of monitoring has been archived electronically and will be kept at least for 2 years after the end of the last crediting period.

Procedures used for handling any internal auditing performed and any non-conformities identified

MBWF has in place an Integrated Management System certified ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018).²¹

Audits and non-conformities and improvement opportunities procedures has been established as part of the management system. The non-conformities procedure covers the detection of a non-conformity or opportunity for improvement, the analysis of causes, the proposal of corrective or improvement actions, their implementation and monitoring, the closing of actions and finally the evaluation of their effectiveness. It also states the roles and responsibilities through the process and system utilized to report and treat the non-conformity or the improvement opportunity.²²

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

According to the methodology ACM0002 “Grid-connected electricity generation from renewable sources” (Version 19.0) ²³ baseline emissions include only CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity. The methodology assumes that all project electricity generation would have been generated by existing grid-connected power plants and the addition of new grid-connected power plants.

The baseline emissions are calculated as follows:

$$BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$$

Where:

BE_y	=	Baseline emissions in year y (tCO ₂ /yr)
$EG_{PJ,y}$	=	Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in

²¹ Certificates provided to the VVB at verification.

²² Procedures and report and treatment of non-conformities provided to the VVB at verification.

²³ Available at: <https://cdm.unfccc.int/methodologies/DB/XP2LKUSA61DKUQC0PIWPGWDN8ED5PG>

$EF_{grid,CM,y}$ = year y (MWh/yr)
 Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the “*Tool to calculate the emission factor for an electricity system*” (tCO₂/MWh)

Calculation of $EG_{PJ,y}$

As the project activity is the installation of a Greenfield power plant, then:

$$EG_{PJ,y} = EG_{facility,y}$$

Where:

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y (MWh/yr)

$EG_{facility,y}$ = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/yr)

MBWF $EG_{PJ,y}$ during the present monitoring period has been:

Year	$EG_{PJ,y}$ (MWh/yr)
2022	513,586

The combined margin CO₂ emission factor for grid connected power generation in year y ($EF_{grid,CM,y}$), as stated in the registered PD is:

$$EF_{grid,CM,y} = 0.509 \text{ tCO}_2/\text{MWh}$$

As a result, the baseline emissions during each year of the present monitoring period have been:

Year	BE_y (tCO ₂ e/yr)
2022	261,415

5.2 Project Emissions

According to the methodology project emissions (PE_y) for wind projects that do not use fossil fuels for electricity generation are zero.

Therefore,

$$PE_y = 0$$

5.3 Leakage

According to the methodology ACM0002 “Grid-connected electricity generation from renewable sources” (version 19.0) the following is stated: “No leakage emissions are considered. The emissions potentially arising due to activities such as power plant construction and upstream emissions from fossil fuel use (e.g. extraction, processing, transport) are neglected”.

Therefore,

$$L_y = 0$$

5.4 Net GHG Emission Reductions and Removals

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
Year 2022 (01-January-2022- 31-December-2022)	261,415	0	0	261,415
Total	261,415	0	0	261,415

<u>Ex-ante emissions reductions /removals</u>	<u>Achieved emissions reductions /removals</u>	<u>Percent difference</u>	<u>Justification for the difference</u>
255,976	261,415	2.1%	The reason for the difference is that the project net electricity generation during this monitoring period was 2.1% above the ex-ante estimated net electricity generation or net yield which is based on a P50 basis. This difference is within the uncertainty or standard deviation of 4.2% of the P50 estimation as below detailed.

The GHG emission reductions of MBWF in the present monitoring period was only 2.1 % higher than the emission reductions estimated ex ante in the registered PD (255,976 tCO₂) because the net electricity generation (513,586 MWh) was 2.1 % higher than the estimated net electricity generation or net yield (502,900 MWh) which is based on a P50 basis, according to

the “Certificate of the resource and annual energy production” conducted by EAPCSUR Wind Energy during the project development.

In this regard, is important to consider that, as stated in the registered PD, MBWF phase 1 and phase 2 load factors were determined by a third-party specialized company (EAPCSUR Wind Energy) based on 3 years historical data during the project development in 2016. The load factors were estimated based on the long-term average electricity generation with 50% probability of occurrence in any given year (P50) and the Project net electricity generation or P50 net yield was estimated to be 502,900 MWh/year with an uncertainty or standard deviation of 4.2% (4.0% phase 1 and 4.4.% phase 2).²⁴

According to page 9 of EAPCSUR report, the annual energy production (net yield) of MB, obtained after deducting (from the estimated gross yield) the estimated losses of the project, corresponds to the central value of the Annual Energy Production (PAE, due to its name in Spanish) forecast, which is exceeded with a probability of 50% in the long term (P50). This means that there is a 50% probability that the estimated PAE will not be reached in any year in a 20-year period (the project lifetime). Nevertheless, there is also a 50% probability that the estimated value will be exceeded.

In conclusion, the MBWF net electricity generation during the present monitoring period is within the 4.2% standard deviation of the P50 net yield according to EAPCSUR study and is technically feasible considering that as above stated P50 means that there is 50% probability that the estimated net yield will not be reached but there is also a 50% probability that it will be exceeded in any year of the project lifetime.

²⁴ Certificate of the resource and annual energy production (PAE) – Wind Power Project Manantiales Behr; EAPCSUR Wind Energy; page 11 (PAE with exceedances levels (20 years). Provided to the VVB at verification.

APPENDIX I: SUSTAINABLE DEVELOPMENT CONTRIBUTIONS EVIDENCE

1. Target 4.3:

Regarding YPF Luz sustained training activities:

Activities during the present monitoring period:

In 2022, 8 new MBWF' employees, together with the other 21 employees that started to work in MBWF before 2021, participated in YPF Luz 2022 training program.

The statement is supported by the below evidence:

- YPF Luz training program is stated in page 95 of YPF Luz 2021 Sustainability report (<https://www.ypfluz.com/Sustainability>):
 "TRAINING AND DEVELOPMENT
 MATERIAL TOPICS: EMPLOYEE TRAINING, HUMAN RIGHTS
 GRI CONTENTS 103-2, 103-3, 404-1, 404-2, 404-3, 412-2
 Our Training Program includes trainings and talks delivered by internal trainers where YPF LUZ's own employees share their knowledge and experiences, transmitting our DNA to the entire company.
 Training is an important part of our company's culture. All employees are aware of the need to constantly improve their competences, abilities, and skills. Each leader understands and commits to supporting their team along their in their individual development plans and establish the necessary actions to achieve professional growth tailored to each individual. These plans must contain specific technical training actions (inherent to the respective discipline, supplementary, or horizontal), generic and/or management-related, as applicable to an employee's current or future position.
 We develop training road maps establishing the main contents that a person needs to know and deal with according to his/her position and career projection. All these actions are subject to review on an ongoing basis, always at the request of the performance appraisal, to update the requirements and needs of each employee."
- The number of MBWF' full-time and permanent direct employees for its operation is stated in YPF Luz Human Resources division personnel records, that indicate the role, sex ("V" for men and "M" for women), age, dedication and type of contract.
 According to the records below illustrated, up to December 31, 2022, 31 technicians and professionals have been hired in full-time and permanent positions. 8 are new employees hired in 2022 that participated in the 2022 annual training program, and the other 23 MBWF' employees had started to work in MBWF the previous years and had participated in 2022 trainings and previous annual training programs (2018 - 2021).
 It is important to clarify that, as per the Monitoring Report for the period 01-January-2021 to 31-December-2021, in 31-December-2021 the total amount of MBWF employees were 30 that have participated in the previous years' annual training programs. During 2022, 7 MBWF

employees left MBWF, and 8 new employees started to work in MBWF. Thus, the total amount of MBWF employees by the end of 2022 was 31²⁵.

YPF LUZ

Fecha efectiva de los datos: 31/12/2022

Cantidad de Registros = 31

Posición	División de personal	Subdivisión de personal	Sexo	Edad	Dedicación	Tipo de contrato
REFERENTE OPERACIONES	CHUBUT	MANANTIAL BEHR	V	57	Full time	Ilimitado
COORDINADOR TI REGIONAL SUR	CHUBUT	MANANTIAL BEHR	V	45	Full time	Ilimitado
JEFE OPERACIONES SUR	CHUBUT	MANANTIAL BEHR	V	49	Full time	Ilimitado
AUXILIAR DE CAMPO	CHUBUT	MANANTIAL BEHR	V	33	Full time	Ilimitado
GERENTE OPERACIONES SUR	CHUBUT	MANANTIAL BEHR	V	45	Full time	Ilimitado
AUXILIAR DE CAMPO	CHUBUT	MANANTIAL BEHR	V	30	Full time	Ilimitado
JEFE PARQUE EOLICO CAÑADON LEON	CHUBUT	MANANTIAL BEHR	V	36	Full time	Ilimitado
AUXILIAR DE CAMPO	CHUBUT	MANANTIAL BEHR	V	30	Full time	Ilimitado
SUPERVISOR DE TURNO	CHUBUT	MANANTIAL BEHR	V	36	Full time	Ilimitado
SUPERVISOR DE TURNO	CHUBUT	MANANTIAL BEHR	V	36	Full time	Ilimitado
AUXILIAR DE CAMPO	CHUBUT	MANANTIAL BEHR	V	41	Full time	Ilimitado
ANALISTA CMASS	CHUBUT	MANANTIAL BEHR	V	39	Full time	Ilimitado
JEFE MANTENIMIENTO SUR	CHUBUT	MANANTIAL BEHR	V	49	Full time	Ilimitado
INGENIERO CONSTRUCCIONES	CHUBUT	MANANTIAL BEHR	V	34	Full time	Ilimitado
ANALISTA SERVICIOS AL PERSONAL	CHUBUT	MANANTIAL BEHR	M	27	Full time	Ilimitado
INGENIERO MANTENIMIENTO ELECTRICO	CHUBUT	MANANTIAL BEHR	V	43	Full time	Ilimitado
SUPERVISOR DE TURNO	CHUBUT	MANANTIAL BEHR	V	41	Full time	Ilimitado
SUPERVISOR DE TURNO	CHUBUT	MANANTIAL BEHR	V	38	Full time	Ilimitado
OFICIAL MANTENIMIENTO MECANICO	CHUBUT	MANANTIAL BEHR	V	31	Full time	Ilimitado
SUPERVISOR DE TURNO	CHUBUT	MANANTIAL BEHR	V	43	Full time	Ilimitado
ANALISTA ALMACENES	CHUBUT	MANANTIAL BEHR	V	37	Full time	Ilimitado
OFICIAL MANTENIMIENTO ELECTRICO	CHUBUT	MANANTIAL BEHR	V	33	Full time	Ilimitado
AUXILIAR DE CAMPO	CHUBUT	MANANTIAL BEHR	V	34	Full time	Ilimitado
OFICIAL MANTENIMIENTO MECANICO	CHUBUT	MANANTIAL BEHR	V	38	Full time	Ilimitado
ANALISTA CMASS	CHUBUT	MANANTIAL BEHR	M	31	Full time	Ilimitado
INGENIERO MANTENIMIENTO MECANICO	CHUBUT	MANANTIAL BEHR	V	35	Full time	Ilimitado
PROGRAMADOR MANTENIMIENTO EN OPERAC	CHUBUT	MANANTIAL BEHR	M	25	Full time	Ilimitado
ANALISTA CMASS	CHUBUT	MANANTIAL BEHR	M	40	Full time	Ilimitado
AUXILIAR DE CAMPO	CHUBUT	MANANTIAL BEHR	V	36	Full time	Ilimitado
AUXILIAR DE CAMPO	CHUBUT	MANANTIAL BEHR	V	36	Full time	Ilimitado
COORDINADOR ELECTRICO	CHUBUT	MANANTIAL BEHR	V	28	Full time	Ilimitado

²⁵ Records of MBWF employees provided to the VVB.

- MBWF employees' training activities conducted during 2022 are registered in MBWF' training hours report. A summary of the report with the most relevant trainings is below illustrated²⁶:

Id,Empleado	Género	Nombre del curso. Tipo	Fecha	Instructor	Tipo de Formación
97163391	MUJER	10 Reglas de Oro	5/5/2022	INTERNO	GENÉRICA
97162250	MUJER	ACCIÓN POR EL CLIMA (BONOS DE CARBONO)	29/11/2022	INTERNO	TÉCNICA
97137796	HOMBRE	APP FORMACIÓN - LIDER	16/12/2022	INTERNO	GENÉRICA
97113684	HOMBRE	APP FORMACIÓN - LIDER	21/12/2022	INTERNO	GENÉRICA
97163525	MUJER	APP SGI YPF LUZ	9/9/2022	INTERNO	GENÉRICA
97162250	MUJER	APP SGI YPF LUZ	9/9/2022	INTERNO	GENÉRICA
97133528	HOMBRE	Capacitación Difusión Resultados Línea de Base Monitoreos Fauna Voladora PE El Trebol	2/8/2022	EXTERNO	TÉCNICA
97162250	MUJER	Capacitación Difusión Resultados Monitoreos Fauna Voladora PECL 1S 2022	23/9/2022	EXTERNO	TÉCNICA
97151095	HOMBRE	Capacitación Difusión Resultados Monitoreos Fauna Voladora PECL 1S 2022	23/9/2022	EXTERNO	TÉCNICA
97163525	MUJER	Capacitación Difusión Resultados Monitoreos Fauna Voladora PECL 1S 2022	23/9/2022	EXTERNO	TÉCNICA
97162250	MUJER	Capacitación difusión resultados monitoreos fauna voladora PEMB	14/7/2022	EXTERNO	TÉCNICA
97163391	MUJER	Capacitación difusión resultados monitoreos fauna voladora PEMB	14/7/2022	EXTERNO	TÉCNICA
97156014	MUJER	Capacitación difusión resultados monitoreos fauna voladora PEMB	14/7/2022	EXTERNO	TÉCNICA
97160154	HOMBRE	Capacitación difusión resultados monitoreos fauna voladora PEMB	14/7/2022	EXTERNO	TÉCNICA
97160977	HOMBRE	Capacitación difusión resultados monitoreos fauna voladora PEMB	14/7/2022	EXTERNO	TÉCNICA
97151095	HOMBRE	Capacitación Difusión Resultados Monitoreos Fauna Voladora PEMB 1S 2022	20/9/2022	EXTERNO	TÉCNICA
97162250	MUJER	Capacitación Difusión Resultados Monitoreos Fauna Voladora PEMB 1S 2022	20/9/2022	EXTERNO	TÉCNICA
97163525	MUJER	Capacitación Difusión Resultados Monitoreos Fauna Voladora PEMB 1S 2022	20/9/2022	EXTERNO	TÉCNICA
97112679	HOMBRE	CAPACITACIÓN EMISIONES GASEOSAS	25/11/2022	EXTERNO	TÉCNICA
97133528	HOMBRE	CAPACITACIÓN EMISIONES GASEOSAS	25/11/2022	EXTERNO	TÉCNICA
97162250	MUJER	CAPACITACIÓN EMISIONES GASEOSAS	25/11/2022	EXTERNO	TÉCNICA
97151095	HOMBRE	CAPACITACIÓN EMISIONES GASEOSAS	25/11/2022	EXTERNO	TÉCNICA
97151607	HOMBRE	CAPACITACION EN RIESGO ELECTRICO Y CONSIGNACION DE EQUIPOS	16/3/2022	YPF LUZ	TÉCNICA
97162250	MUJER	Capacitación Procedimiento CORP-PG-0010-Seguimiento de Desempeño Ambiental	21/7/2022	INTERNO	TÉCNICA
97163525	MUJER	Capacitación Procedimiento CORP-PG-0010-Seguimiento de Desempeño Ambiental	21/7/2022	INTERNO	TÉCNICA
97133528	HOMBRE	Capacitación Procedimiento Corporativo CORP-PG-004-Identificación de Aspectos Ambientales y Evaluación de Impactos Ambientales	4/8/2022	INTERNO	TÉCNICA
97113684	HOMBRE	Capacitación Procedimiento Corporativo CORP-PG-004-Identificación de Aspectos Ambientales y Evaluación de Impactos Ambientales	4/8/2022	INTERNO	TÉCNICA
97151095	HOMBRE	Capacitación Procedimiento CORP-PG-0013-Gestión Integral de Recursos Sobrantes y Residuos	1/6/2022	INTERNO	TÉCNICA
97162250	MUJER	Capacitación Procedimiento CORP-PG-0013-Gestión Integral de Recursos Sobrantes y Residuos	1/6/2022	INTERNO	TÉCNICA
97163391	MUJER	Capacitación Procedimiento CORP-PG-0013-Gestión Integral de Recursos Sobrantes y Residuos	1/6/2022	INTERNO	TÉCNICA
97160154	HOMBRE	Capacitación Procedimiento CORP-PG-0013-Gestión Integral de Recursos Sobrantes y Residuos	1/6/2022	INTERNO	TÉCNICA
97159295	HOMBRE	Capacitación Sistema de Control MARKVIe	16/9/2022	INTERNO	TÉCNICA
97133528	HOMBRE	Catch up H2	1/7/2022	INTERNO	TÉCNICA
97151095	HOMBRE	CI - INDICADORES YREPORTES PARA PRODUCCIÓN Y MANTENIMIENTO	6/9/2022	INTERNO	GENÉRICA
97163391	MUJER	CI - INDICADORES YREPORTES PARA PRODUCCIÓN Y MANTENIMIENTO	6/9/2022	INTERNO	GENÉRICA
97143334	HOMBRE	CI - INDICADORES YREPORTES PARA PRODUCCIÓN Y MANTENIMIENTO	8/9/2022	INTERNO	GENÉRICA
97160978	HOMBRE	CI - INDICADORES YREPORTES PARA PRODUCCIÓN Y MANTENIMIENTO	8/9/2022	INTERNO	GENÉRICA
97162250	MUJER	Ciberseguridad Industrial	30/4/2022	YPF LUZ	TÉCNICA
97159763	HOMBRE	Ciberseguridad Industrial	30/4/2022	YPF LUZ	TÉCNICA
97160483	HOMBRE	Ciberseguridad Industrial	30/4/2022	YPF LUZ	TÉCNICA
97159763	HOMBRE	Ciberseguridad Industrial	30/4/2022	YPF LUZ	TÉCNICA
97163391	MUJER	Ciberseguridad Industrial	9/5/2022	INTERNO	TÉCNICA
97164289	HOMBRE	Ciberseguridad Industrial	31/7/2022	INTERNO	TÉCNICA
97163525	MUJER	Ciberseguridad Industrial	30/9/2022	INTERNO	TÉCNICA
97104161	HOMBRE	CIBERSEGURIDAD INDUSTRIAL	1/12/2022	EXTERNO	TÉCNICA
97165708	HOMBRE	CIBERSEGURIDAD INDUSTRIAL	1/12/2022	EXTERNO	TÉCNICA
97151161	HOMBRE	CIBERSEGURIDAD INDUSTRIAL	31/8/2022	EXTERNO	TÉCNICA
97151095	HOMBRE	CMASS - TRABAJO EN ALTURA	7/9/2022	EXTERNO	TÉCNICA
97162250	MUJER	CMASS - TRABAJO EN ALTURA	26/9/2022	EXTERNO	TÉCNICA
97163525	MUJER	CMASS - TRABAJO EN ALTURA	9/9/2022	EXTERNO	TÉCNICA
97137796	HOMBRE	CMASS - TRABAJO EN ALTURA	22/9/2022	EXTERNO	TÉCNICA
97162250	MUJER	Comité Acción por el Clima YPF LUZ	18/8/2022	EXTERNO	GENÉRICA

²⁶ The full report has been provided to the VVB.

Id, Empleado	Género	Nombre del curso. Tipo	Fecha	Instructor	Tipo de Formación
97112679	HOMBRE	Comité Acción por el Clima YPF LUZ	18/8/2022	EXTERNO	GENÉRICA
97112679	HOMBRE	COMPLIANCE RSA ARCHER	16/6/2022	EXTERNO	TÉCNICA
97160154	HOMBRE	COMPLIANCE RSA ARCHER	16/6/2022	EXTERNO	TÉCNICA
97113684	HOMBRE	COMPLIANCE RSA ARCHER	23/11/2022	INTERNO	TÉCNICA
97112679	HOMBRE	COMPLIANCE RSA ARCHER	23/11/2022	INTERNO	TÉCNICA
97163447	HOMBRE	CUIDADO DE MANOS	30/11/2022	EXTERNO	TÉCNICA
97163525	MUJER	CUIDADO DE MANOS	30/11/2022	EXTERNO	TÉCNICA
97103274	HOMBRE	CUIDADO DE MANOS	30/11/2022	EXTERNO	TÉCNICA
97163391	MUJER	CUIDADO DE MANOS	30/11/2022	EXTERNO	TÉCNICA
97160483	HOMBRE	CURSO DE CONDUCTORES IMPSA Y MPSA	3/8/2022	EXTERNO	TÉCNICA
97163447	HOMBRE	CURSO DE PROTECCIONES	31/8/2022	EXTERNO	TÉCNICA
97162250	MUJER	Diversidad e inclusión	30/4/2022	YPF LUZ	GENÉRICA
97160483	HOMBRE	Diversidad e inclusión	30/4/2022	YPF LUZ	GENÉRICA
97159763	HOMBRE	Diversidad e inclusión	30/4/2022	YPF LUZ	GENÉRICA
97163391	MUJER	Diversidad e inclusión	16/5/2022	INTERNO	GENÉRICA
97151161	HOMBRE	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97162250	MUJER	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97163447	HOMBRE	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97151105	HOMBRE	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97163525	MUJER	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97135071	HOMBRE	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97137796	HOMBRE	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97159297	HOMBRE	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97160154	HOMBRE	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97163391	MUJER	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97159421	HOMBRE	ELEMENTOS DE PROTECCIÓN PERSONAL	30/6/2022	EXTERNO	TÉCNICA
97162250	MUJER	ENTRENAMIENTO DE COMPLIANCE (L1)	29/4/2022	YPF LUZ	TÉCNICA
97163525	MUJER	ENTRENAMIENTO DE COMPLIANCE (L1)	28/7/2022	INTERNO	TÉCNICA
97163391	MUJER	ENTRENAMIENTO DE COMPLIANCE (L1)	1/9/2022	INTERNO	TÉCNICA
97151096	HOMBRE	Gerenciamiento de la Mejora Continua - Introducción al TPS y FMDS	31/10/2022	EXTERNO	GENÉRICA
97137796	HOMBRE	Gerenciamiento de la Mejora Continua - Introducción al TPS y FMDS	31/10/2022	EXTERNO	GENÉRICA
97112679	HOMBRE	Gerenciamiento de la Mejora Continua - Introducción al TPS y FMDS	31/10/2022	EXTERNO	GENÉRICA
97160978	HOMBRE	Gerenciamiento de la Mejora Continua - Introducción al TPS y FMDS	31/10/2022	EXTERNO	GENÉRICA
97151096	HOMBRE	Gerenciamiento de la Mejora Continua - Introducción al TPS y FMDS	31/12/2022	EXTERNO	GENÉRICA
97137796	HOMBRE	Gerenciamiento de la Mejora Continua - Introducción al TPS y FMDS	31/12/2022	EXTERNO	GENÉRICA
97112679	HOMBRE	Gerenciamiento de la Mejora Continua - Introducción al TPS y FMDS	31/12/2022	EXTERNO	GENÉRICA
97160978	HOMBRE	Gerenciamiento de la Mejora Continua - Introducción al TPS y FMDS	31/12/2022	EXTERNO	GENÉRICA
97151095	HOMBRE	GWO	11/7/2022	EXTERNO	TÉCNICA
97162794	HOMBRE	GWO	11/7/2022	EXTERNO	TÉCNICA
97163447	HOMBRE	GWO	11/7/2022	EXTERNO	TÉCNICA
97163525	MUJER	GWO	11/7/2022	EXTERNO	TÉCNICA
97164289	HOMBRE	GWO	5/12/2022	EXTERNO	TÉCNICA
97164466	HOMBRE	GWO	5/12/2022	EXTERNO	TÉCNICA
97143334	HOMBRE	GWO	5/12/2022	EXTERNO	TÉCNICA
97137796	HOMBRE	GWO	5/12/2022	EXTERNO	TÉCNICA
97151097	HOMBRE	IDENTIFICACIÓN DE PELIGROS Y ESTIMACIÓN DE RIESGO	17/5/2022	YPF LUZ	TÉCNICA
97164289	HOMBRE	INDUCCION A PLANTA	2/8/2022	INTERNO	GENÉRICA
97164466	HOMBRE	INDUCCION A PLANTA	2/8/2022	INTERNO	GENÉRICA
97163525	MUJER	INDUCCION A PLANTA	31/5/2022	INTERNO	GENÉRICA
97163391	MUJER	INDUCCION A PLANTA	31/5/2022	INTERNO	GENÉRICA
97163447	HOMBRE	INDUCCION A PLANTA	31/5/2022	INTERNO	GENÉRICA
97163525	MUJER	Inducción CMASS - 10 reglas de oro que salvan vidas de YPF Luz	27/12/2022	INTERNO	GENÉRICA
97160154	HOMBRE	INVENTARIO PARA MANTENIMIENTO	24/10/2022	EXTERNO	TÉCNICA
97113684	HOMBRE	ITBA - ENERGÍA - BLOQUE AVANZADO	30/11/2022	EXTERNO	GENÉRICA
97151607	HOMBRE	ITBA - ENERGÍA - BLOQUE AVANZADO	30/11/2022	EXTERNO	GENÉRICA
97113684	HOMBRE	ITBA - ENERGÍA - BLOQUE AVANZADO	30/12/2022	EXTERNO	GENÉRICA
97151607	HOMBRE	ITBA - ENERGÍA - BLOQUE AVANZADO	30/12/2022	EXTERNO	GENÉRICA
97159297	HOMBRE	ITBA - ENERGÍA - BLOQUE INICIAL	30/8/2022	EXTERNO	GENÉRICA
97159297	HOMBRE	ITBA - ENERGÍA - BLOQUE INICIAL	30/9/2022	EXTERNO	GENÉRICA
97151607	HOMBRE	ITBA - ENERGÍA - BLOQUE INTERMEDIO	31/10/2022	EXTERNO	GENÉRICA
97159297	HOMBRE	ITBA - ENERGÍA - BLOQUE INTERMEDIO	31/10/2022	EXTERNO	GENÉRICA
97151095	HOMBRE	OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97162794	HOMBRE	OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97162794	HOMBRE	OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA

Id, Empleado		Género	Nombre del curso. Tipo	Fecha	Instructor	Tipo de Formación
97151161	HOMBRE		OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97162250	MUJER		OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97151097	HOMBRE		OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97151105	HOMBRE		OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97163525	MUJER		OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97156014	MUJER		OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97159763	HOMBRE		OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97133528	HOMBRE		OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97160154	HOMBRE		OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97160978	HOMBRE		OPS (OBSERVACIÓN PREVENTIVAS DE SEGURIDAD)	26/5/2022	INTERNO	TÉCNICA
97151095	HOMBRE		RRII - GESTIÓN DE RECLAMOS Y DONACIONES	30/6/2022	INTERNO	GENÉRICA
97151161	HOMBRE		RRII - GESTIÓN DE RECLAMOS Y DONACIONES	30/6/2022	INTERNO	GENÉRICA
97162250	MUJER		RRII - GESTIÓN DE RECLAMOS Y DONACIONES	30/6/2022	INTERNO	GENÉRICA
97151097	HOMBRE		RRII - GESTIÓN DE RECLAMOS Y DONACIONES	30/6/2022	INTERNO	GENÉRICA
97163525	MUJER		RRII - GESTIÓN DE RECLAMOS Y DONACIONES	30/6/2022	INTERNO	GENÉRICA
97156014	MUJER		RRII - GESTIÓN DE RECLAMOS Y DONACIONES	30/6/2022	INTERNO	GENÉRICA
97133528	HOMBRE		RRII - GESTIÓN DE RECLAMOS Y DONACIONES	30/6/2022	INTERNO	GENÉRICA
97160154	HOMBRE		RRII - GESTIÓN DE RECLAMOS Y DONACIONES	30/6/2022	INTERNO	GENÉRICA
97137796	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	21/6/2022	INTERNO	TÉCNICA
97112679	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	21/6/2022	INTERNO	TÉCNICA
97151096	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	21/6/2022	INTERNO	TÉCNICA
97151161	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97151105	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97137796	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97143334	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97163525	MUJER		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97160978	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97103274	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97159421	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97156014	MUJER		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97160154	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97143508	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97162794	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97162250	MUJER		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97151095	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97163391	MUJER		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97133528	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97162070	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97160483	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97163447	HOMBRE		SISTEMA DE GESTIÓN ANTISOBORNO - COMPLIANCE (L3)	15/6/2022	INTERNO	TÉCNICA
97143334	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97159421	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97112679	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97151093	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97159764	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97135071	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97160483	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97151095	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97163525	MUJER		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97162250	MUJER		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97163391	MUJER		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97162794	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97133528	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97159763	HOMBRE		Sistema de protección contra incendios	21/10/2022	EXTERNO	TÉCNICA
97162250	MUJER		TALLER - TIPS PARA EL USO DE SAP	15/12/2022	INTERNO	TÉCNICA

The company's sustained training activities during the monitoring period 01-August-2018 – 31-December-2020) are stated in the Sustainable Development Contributions Report for this period and during the monitoring period 01-January-2021 – 31-December-2021 are stated in the corresponding Monitoring Report. Reports available at: <https://registry.terra.org/app/projectDetail/VCS/1820>

Regarding divulgation and awareness activities that YPF Luz participated in 2022:

On 16th November 2022, YPF Luz experts participated as trainers in YPF Foundation' free seminar about "More sustainable energy from NOA to Patagonia" (NOA is the abbreviation in Spanish of North West of Argentina). The course was directed to high schools' and universities' technical students.

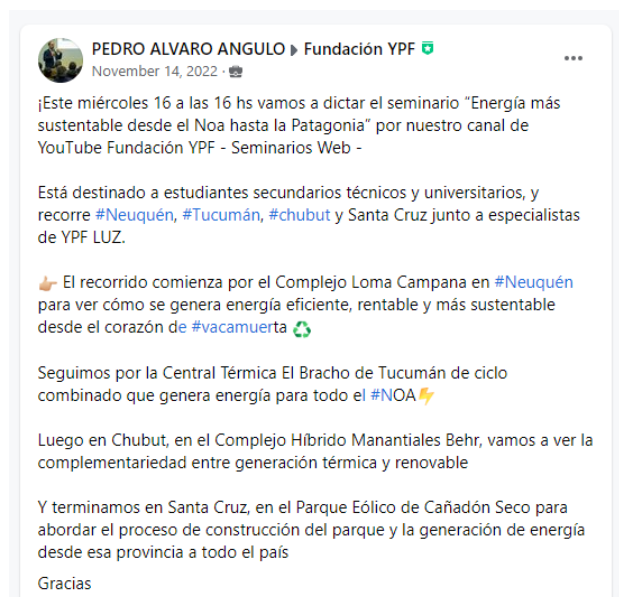
YPF Foundation' free seminar "More sustainable energy from NOA to Patagonia"

November 16, 2022

Available at:

<https://www.youtube.com/watch?v=K-fODbPzMik>

116 views up to 25/07/2023.



The YPF Luz sustained training activities and divulgation and awareness activities since the project start date (01/08/2018) until 31/12/2020 are described and evidenced in the Sustainable Development Contributions Report for the first monitoring period, and the activities during 2021 are described in the corresponding Monitoring Report. Reports available at: <https://registry.terra.org/app/projectDetail/VCS/1820>.

2. Target 7.2:

The project electricity generation during the present monitoring period (513,586 MWh) is stated in this report.

The project electricity generation during the previous monitoring periods (1,691,613 MWh), since MBWF operation start date on 01-August-2018 until 31-December-2021, are stated in the previous VCS Verification reports available at: <https://registry.terra.org/app/projectDetail/VCS/1820>

Additionally, the project activity contributes to increase the renewable energy share in the total final energy consumption in Argentina, as described in the "Sustainable cities action plan – Sustainable Comodoro Rivadavia" report (original name in Spanish: "Plan de Acción de Ciudades Sostenibles – Comodoro Rivadavia Sostenible"), pages 60 to 62. This report was the result of the work carried out by YPF Foundation (FYPF) together with the Municipality of Comodoro Rivadavia, civil society actors and representatives of the local private sector, between August 2018 and May 2019. The city's Action Plan includes a multisectoral diagnosis that gets different sources of information and views

that result in a ranking of prioritized issues that must be addressed to approach sustainable territorial development of Comodoro Rivadavia. Particularly, page 62 of the report states:

“Manantiales Behr Wind Farm

Beyond the electrical energy that it injects into the National Interconnected System, generated with renewable sources, the Manantiales Behr Wind Farm (MBWF) generates a series of benefits to the Comodoro Rivadavia community:

Electricity generation: The MBWF has the capacity to generate electricity to supply 130,000 homes, which produces savings of 241,600 tons of CO₂ emissions into the atmosphere...”

The complete report in Spanish is available at:

https://fundacionypf.org/Documents/Publicaciones/Comodoro_Sostenible.pdf

3. **Target 7.b:** The project installed capacity (99 MW) is stated in the present monitoring report and in the registered PD and the previous VCS Verification reports available at:

<https://registry.terra.org/app/projectDetail/VCS/1820>

4. **Target 8.8:** YPF Luz has in place its Health, Safety, Environment, and Quality Policy²⁷ and as stated in the 2021 Sustainability Report 100% of the employees at industrial assets and contractors are covered by an occupational health and safety management system subject to internal and external audits.²⁸

Furthermore, MBWF has in place a certified occupational health and safety management system according to ISO 45001:2018 which is part of its Integrated Management System (ISO 9001, ISO 14001, and ISO 45001).



²⁷ Available at: <https://www.ypluz.com/Content/pdf/politicas/politicaCMAS.pdf>

²⁸ YPF Luz 2021 Sustainability Report; page 99. Available at: <https://www.ypluz.com/Sustainability>

MBWF workers has neither fatal nor non-fatal occupational injuries during 2022 as illustrated in the project' operational control of the accidents frequency rate indicator.



RMG-01.04 Planificación de Actividades Regional Sur Version 03

Periodo de vigencia anual		Enero a Diciembre						Año	2022						Actualizado por:											
Item	Actividad	Area	Responsable	Documento	Frecuencia	Planificado	Realizado	% Cumplimiento	Enero		Febrero		Marzo		Abril		Mayo		Junio							
								90,04%	P	R	Fecha	P	R	Fecha	P	R	Fecha	P	R	Fecha						
67	Control Operativo "IFA: Índice frecuencia de accidentes computables (ACPDx10 ⁶ /HHT) "	Regional Sur	CMASS	POASS	Mensual	0	0	100%	0	0	31-Ene	0	0	28-Feb	0	0	31-Mar	0	0	30-Abr	0	0	31-May	0	0	30-Jun



RMG-01.04 Planificación de Actividades Regional Sur Version 03

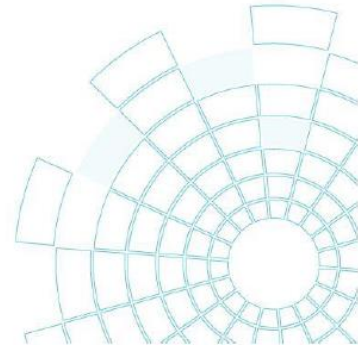
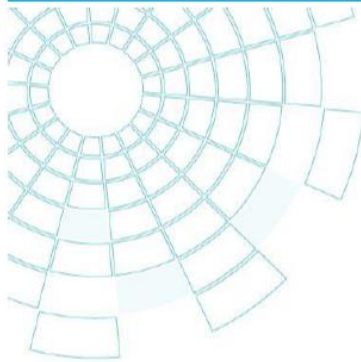
Periodo de vigencia anual		Enero a Diciembre						Año	Pablo Almonacid						Fecha de actualización		31/12/2022									
Item	Actividad	Area	Responsable	Documento	Frecuencia	Planificado	Realizado	% Cumplimiento	Julio		Agosto		Septiembre		Octubre		Noviembre		Diciembre							
								90,04%	P	R	Fecha	P	R	Fecha	P	R	Fecha	P	R	Fecha						
67	Control Operativo "IFA: Índice frecuencia de accidentes computables (ACPDx10 ⁶ /HHT) "	Regional Sur	CMASS	POASS	Mensual	0	0	100%	0	0	31-Jul	0	0	31-Ago	0	0	30-set	0	0	31-Oct	0	0	30-Nov	0	0	31-Dic

During the previous monitoring periods there were also no fatal or non-fatal occupational injuries as stated in the Verification Report for the period 01-January-2021 to 31-December-2021, available at: <https://registry.verra.org/app/projectDetail/VCS/1820>.

- 5. Target 12.6:** YPF Luz elaborates its Sustainability Reports according to the international standard Global Reporting Initiative (GRI) and with the analytic assessment of Deloitte, as stated in the reports. The 2018, 2019, 2020 and 2021 reports in English are available at: <https://www.ypluz.com/Sustainability>

The 2022 Sustainability Report is under elaboration to be published in September 2023. A summary of the presentation of the results of the materiality survey for the report are below illustrated.²⁹

²⁹ The complete presentation of the materiality survey has been provided to the VVB at verification.



REPORTE DE SUSTENTABILIDAD 2022 ANÁLISIS DE MATERIALIDAD

La evaluación de los temas se realizó través de una encuesta digital de la cual se recibieron 130 respuestas de distintos grupos de interés, valorizando los temas relevantes descriptos.

- ✓ 2 Cámara o asociación
- ✓ 13 Cliente
- ✓ 1 Contratista
- ✓ 1 Empleado en empresa del sector eléctrico
- ✓ 1 Empleado de YPF
- ✓ 1 Empleado en empresa en la que YPF es socia
- ✓ 60 Empleado/a de YPF Luz
- ✓ 1 Fundación YPF
- ✓ 4 Medio periodístico
- ✓ 1 Miembro de comunidad cercana a sitio de YPF Luz
- ✓ 1 Organización sin fines de lucro
- ✓ 25 Proveedor
- ✓ 1 Referente de sustentabilidad
- ✓ 3 Sector académico
- ✓ 5 Sector público
- ✓ 1 Supervisión de obras en el área de concesión de Transener
- ✓ 4 Equipo ejecutivo de YPF Luz
- ✓ 2 Investor



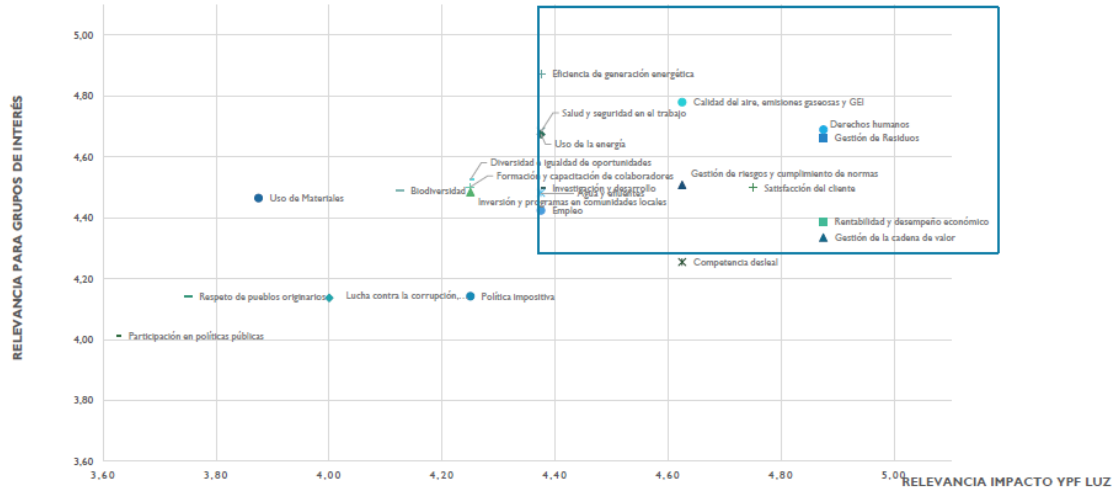
La opinión de nuestras partes interesadas es clave para mejorar nuestra gestión sostenible.

Te invitamos a **responder una breve encuesta** que nos ayudará a identificar los temas más relevantes para nuestro próximo **Reporte de Sustentabilidad**.

[Hacé clic acá](#)



MATRIZ DE MATERIALIDAD



6. Target 13.0:

The project greenhouse gas emissions reductions (261,415 tCO₂e) during the present monitoring period is indicated in this report.

The project greenhouse gas emissions reductions (861,031 tCO₂e) during the previous monitoring periods are indicated in the corresponding VCS Verification reports available at: <https://registry.terra.org/app/projectDetail/VCS/1820>

7. Target 17.6:

YPF Luz in one of the more than 15,000 companies that is participant of the UN Global Compact <https://www.unglobalcompact.org/what-is-gc/participants/147816-YPF-Energ-a-El-ctrica-S-A->

Furthermore, since November 2022 YPF Luz is member of the board of directors of the Argentine Global Compact network, which has more than 900 participants, with the objective of mobilizing the business sector as well as other stakeholders to commit to the 10 universal principles of the United Nations. <http://pactoglobal.org.ar/novedades/pacto-global-argentina-estrena-nueva-mesa-directiva-de-la-mano-de-andreani-y-sancor-segueros/>

PACTO GLOBAL ARGENTINA EST
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pactoglobal.org.ar/novedades/pacto-global-argentina-estrena-nueva-mesa-directiva-de-la-mano-de-andreani-y-sancor-seguros/
Invitado

02.NOV.2022

PACTO GLOBAL ARGENTINA ESTRENA NUEVA MESA DIRECTIVA DE LA MANO DE ANDREANI Y SANCOR SEGUROS

Los integrantes de la Red de Pacto Global Argentina eligieron nuevas autoridades para el período 2022-2024, en el marco de la 8ª Asamblea Nacional "Empresas por un mundo mejor", celebrada el pasado 27 de septiembre.

CARLOS CIRIMELO, CEO de ANDREANI será responsable de conducir la Red Argentina del Pacto Global para el período octubre 2022 a octubre 2023 como presidente, mientras que **ALEJANDRO SIMÓN, CEO de SANCOR SEGUROS**, acompañará como vicepresidente.

En la actualidad la red Argentina de Pacto Global reúne a 916 empresas y organizaciones no empresariales participantes distribuidas a lo largo del país, comprometidas con alinear sus estrategias y operaciones con los 10 principios universales sobre derechos humanos, trabajo, medio ambiente y anticorrupción que propone la red y tomar acciones que promuevan objetivos sociales comunes.

La apertura de la primera reunión de la mesa directiva, contó con la presencia de Claudia Mujica, Coordinadora Residente del Sistema de Naciones Unidas en Argentina, quien aseguró: *"El sector privado condensa la mayor fuerza laboral del mercado y es clave su participación y*

ÚLTIMAS NOVEDADES

21.JUN.2023

SE EXTIENDE EL PLAZO DE PRESENTACIÓN DE LA COP POR PROBLEMAS EN LA PLATAFORMA DIGITAL.

[Leer nota completa](#)

09.JUN.2023

LOS DERECHOS HUMANOS EN EL RADAR DE GESTIÓN

[Leer nota completa](#)

31.MAY.2023

YA SE ENCUENTRA DISPONIBLE LA NUEVA PLATAFORMA EN IDIOMA ESPAÑOL PARA CARGAR LA COMUNICACIÓN DE PROGRESO

[Leer nota completa](#)

PACTO GLOBAL ARGENTINA EST
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Invitado

La mesa directiva quedó conformada de la siguiente manera:

EMPRESAS TITULARES:

Presidencia: Grupo Andreani

Vicepresidencia: Sancor Seguros

Grupo San Cristobal

Scania

La Segunda Cooperativa de Seguros Limitada

YPF Luz

SUPLENTE:

Empresa Provincial de Energía de Córdoba

Enel

PYMES TITULARES:

Azul Jacarandá

Parque Eólico Arauco

SUPLENTE:

Reporte Social