

WESM COMPLIANCE BULLETIN

Issue No.	Date Issued	Contents
16.1	22-Dec-2022	Procedure and Guidelines for Validation, Recalculation and Publication of the FAS Reports

Enforcement and Compliance Office Philippine Electricity Market Corporation

22-Dec-2022

This Wholesale Electricity Spot Market (WESM) Compliance Bulletin is an occasional publication that is prepared and published by the Enforcement and Compliance Office of the Philippine Electricity Market Corporation. The purpose of the WESM Compliance Bulletin is only to provide information and guidance to the participants of the WESM on their obligations in the WESM as well as on various matters relating to enforcement and compliance. This document is not intended as a source of obligation or as authority on relevant WESM Rules and market manuals, and as such, is not binding on the WESM participants or any other person or entity. While the ECO strives to make this document complete and accurate, the actual contents may be incomplete or inaccurate. WESM participants and other readers are encouraged to refer to the official issuance of the WESM Rules, and its amendments and manuals for details.

Questions on this WESM Compliance Bulletin may be addressed to Enforcement and Compliance Office, Philippine Electricity Market Corporation, 18th Floor Robinsons Equitable Tower, ADB Avenue, Ortigas Center, Pasig City 1600 or by email at eco@wesm.ph

Contents

1.0	Introduction	3
2.0	Objectives	3
3.0	Guidelines and Procedures	3
3.1	Trading Participants	3
3.2	Enforcement and Compliance Office	6
	Annex A - Submission of FAS Documents via FTP	10
	Annex B – Official List of Trading Participants and Plant Shortnames.....	14
	Annex C – FPE Computation for MDGU with Expansion Unit	25

Acronyms

FAS	Forecast Accuracy Standards
FPE	Forecast Percentage Error
MAPE	Mean Absolute Percentage Error
PERC 95	Percentile 95
FASR	Forecast Accuracy Standards Report
AFASF	Accomplished Forecast Accuracy Standard Form
FTP	File Transfer Protocol

1.0 Introduction

The WESM Manual “Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units” Issue 2.0 (WESM-FASMD or “FAS Manual 2.0,” for brevity) was promulgated by the Department of Energy (DOE) in March 2021. On 23 May 2022, ECO issued the WESM Compliance Bulletin Issue 16.0 or the *“Interim Procedure and Guidelines for the Calculation of the Final Forecast Accuracy Standards Report”* to implement the provisions of the FAS Manual 2.0. Said Guidelines provided for the procedures in the conduct of FAS compliance monitoring by the Enforcement and Compliance Office (ECO). It also provided guidance for the trading participants with must dispatch generating units (MDGUs) relating to the submission of relevant and necessary information for the final calculation of the Mean Absolute Percentage Error (MAPE) and Percentile 95 (PERC95).

In the course of its monitoring from June 2021 to October 2022, ECO noted, and consolidated various concerns and issues encountered by both ECO and the MDGU-trading participants, and their observations during the implementation of the FAS monitoring under the EWDO regime. ECO also made consultations with the DOE, the Market Operator, and the trading participants on those matters. In November 2022, PEMC filed the Urgent Amendments on Matters Relating to Enforcement Proceedings and Actions. The *“Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units Issue 2.1”* (FAS Manual 2.1) was approved by the PEM Board and became effective on 25 November 2022.

This revised procedure is being issued to complement the FAS Manual, particularly in providing the MDGU-trading participants the procedural steps in monitoring, submission of data or information needed for recalculation, and accessing the FAS monitoring results. The detailed computation of the forecast percentage error (FPE) that is applicable to MDGU with expansion unit is also added in this revised procedure pursuant to Section 4.2.8 of the FAS Manual 2.1.

This WESM Compliance Bulletin Issue 16.1 supersedes Issue 16.0.

2.0 Objectives

For the WESM Participants –

- To be oriented about the FAS monitoring procedures
- To be guided on the type of documents and forms that may be submitted to ECO
- To be guided on how to access the FAS results, and to accomplish and submit the necessary forms relating to FAS

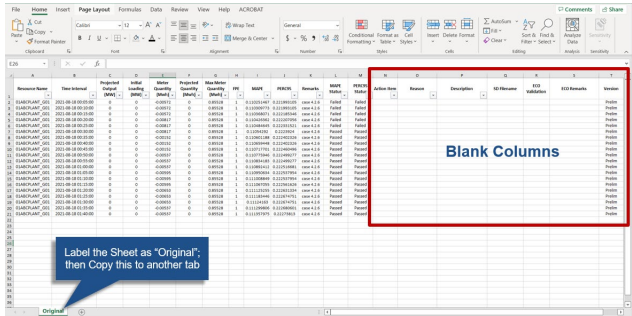
3.0 Guidelines and Procedures

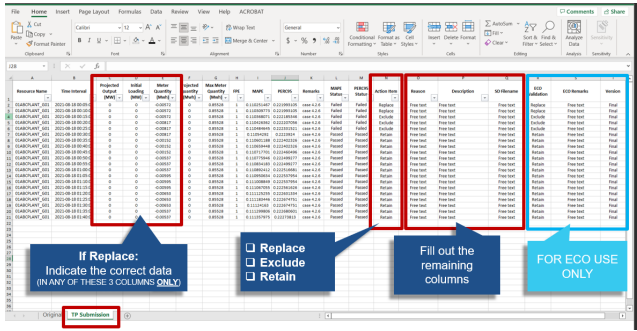
3.1 Trading Participants

a) Filling Out/Accomplishing the FASR

- The ECO shall publish the Preliminary Monthly FASR every end of the month following the covered month monitored. For example, the publication of the February Preliminary Monthly FASR (covering 26 January to 25 February 2022) shall be on 31 March 2022.
- ECO will simultaneously issue an advisory, informing the trading participants of the publication of the Preliminary Monthly FASR for a particular period which can be viewed via the CPEMS-FAS Module.

- The MDGU-trading participant must be able to submit the AFASF specifically indicating the requested action, *i.e.*, to exclude, replace, or retain the data or information used in the FAS calculation.
- The following provides the description and conditions in accomplishing the documents and forms to be submitted to ECO:

Document/ Form	Description	Conditions
Forecast Accuracy Standard Report (FASR)	The exported file in CPEMS-FAS module that contain the list of all intervals for one billing period for a particular facility or resource.	<ol style="list-style-type: none"> 1) The trading participant shall export the file from the CPEMS-FAS Module. 2) The trading participants shall rename the worksheet (excel tab) to <i>"Original"</i>. This will serve as the original copy of the FASR 
Accomplished Forecast Accuracy Standard Form (AFASF)	A response or reply supported or substantiated by relevant documents to prove that a significant event/reason for a specific interval has caused the forecast error.	<ol style="list-style-type: none"> 1) The trading participants shall duplicate the original copy of FASF and rename the worksheet to <i>"TP Submission"</i> <ul style="list-style-type: none"> • No deletion of "Original" tab/sheet • No merging of cells in the excel sheet • No deletion of rows and columns in the excel sheet 2) The trading participants shall accomplish column N with the predetermined action items: <ul style="list-style-type: none"> • Replace <ul style="list-style-type: none"> ○ This is a request for data replacement in case there are data variances from the data used in the Preliminary Monthly FASR, as authorized under Sec. 4.3.2 of the FAS Manual. ○ In case of data replacement, the trading participant shall accomplish any of the column C to D by providing new inputs/entries • Exclude <ul style="list-style-type: none"> ○ This is a request to exclude specific intervals in the recalculation if there are events or conditions that fall within the "Exclusions" referred to in Section 4.3 of the FAS Manual 2.0 • Retain <ul style="list-style-type: none"> ○ This request will only retain the initial result published by ECO ○ No change from Preliminary Monthly FASR.

Document/ Form	Description	Conditions
		<p>3) The trading participants shall also accomplish columns O to Q appropriately in relation to the requested action</p>  <p>4) If no submission is made or no AFASR was submitted within the agreed timeline, ECO will consider the results indicated in the PSAFR as "Retain".</p>
Supporting Documents (SD)	These refer to electronic copies of plant operator records, correspondences and relevant data or information that show proof or evidence that external factors have affected the plant's performance, and which led to a forecast error.	<p>1) Supporting documents must be compressed in zip/rar files together with the AFASR.</p> <p>2) The AFASR and SDs in zip/rar files shall be sent via a secure file transfer protocol (FTP) facility. (See <i>Annex A for the related Work Instruction</i>)</p>

b) Event Categories and Supporting Documents

The trading participants shall accomplish the FASR with the details or information below and provide a straightforward explanation in the FASR:

Event Categories	Description	Supporting Documents
OUTAGE	<p>This applies to all types of planned or unplanned outages, except forced outages classified as Outside Management Control (OMC) in ERC Resolution 17.</p> <p>The outage that is referred to here is any full or partial unavailability of equipment or facility. It is distinguished from the resource constraints which refers to unavailability of the supply or source of energy.</p>	<ul style="list-style-type: none"> Plant operator logs, work orders, incident reports and similar documents Notices to/from NGCP confirming schedule of outage, and other related notices Notices to PEMC and relevant government agencies Significant event or other reports submitted to ERC, DOE or other government agencies or other entities.

Event Categories	Description	Supporting Documents
MARKET INTERVENTION/ SUSPENSION	This applies if the Energy Regulatory Commission, System Operator or Market Operator declared a market intervention/suspension, as the case may be, for the dispatch interval.	<ul style="list-style-type: none"> Record of communications to and from the System Operator. Plant operator logs and other plant data showing SO instructions and compliance by the power plant with instructions. Describe instructions issued and time issued, indicating whether the original dispatch target was changed. To the extent known, describe the emergency condition that prompted the issuance of the instructions. Notice from Market Operator or ERC about Market Intervention/Suspension
SYSTEM OPERATOR (SO) INSTRUCTIONS	The output of the must dispatch generating units was restricted by the System Operator	<ul style="list-style-type: none"> Same requirement as Market Intervention/Suspension All other relevant documents
FORCE MAJEURE	This pertains to events beyond the reasonable control of the participant, particularly natural calamities (e.g., typhoon, landslide) that affected the ability of the must dispatch generating units to forecast accurately	<ul style="list-style-type: none"> Plant operator logs, incident reports and other plant documents that will show the occurrence of event As applicable, notices to and from System Operator, PEMC, DOE, ERC, and other relevant agencies regarding occurrence of events and measures undertaken.
DATA VARIANCE	This applies to situations if there are inconsistent or erroneous data used in the calculation resulting to a forecast percentage error	<ul style="list-style-type: none"> DCS actual reading of plant (per 5-min) Actual nomination of projected outputs Metered Quantity (MQ) reading from the metering service provider (MSP)

3.2 Enforcement and Compliance Office

a) FAS Calculation

The computation must be in conformance to the formula prescribed in Section 4.2 of the FAS Manual. It may be accomplished or executed through a system or program that may be employed by ECO to generate FAS results.

In calculating the FPE and FAS results, the ECO shall also take into account the parameters and conditions concerning MDGU with expansion unit referred to in Sections 1.1.4, 2.1.2 (a), and 4.2.8 of the FAS Manual 2.1. The criteria and computation applicable to MDGU with expansion unit is provided in “Annex C” of these Guidelines.¹

¹ The computation of FPE for MDGU with expansion unit will be applied retroactively from January 2022 billing period by virtue of the retroactivity clause under Section 5.3.2 of the FAS Manual

b) Publication of Preliminary Monthly FASR

ECO shall publish the Preliminary Monthly FASR after it performs calculation of the MAPE and PERC95 for the billing period, which calculation is based on the data gathered from the Independent Electricity Market Operator of the Philippines (IEMOP) and the application of the formula set in the FAS Manual.

c) Validation

ECO shall, based on the AFASR submitted and received in accordance with Section 3.1 of these Guideline, validate and verify the action/s that need to be considered in recalculating the MAPE and PERC95. It may also verify or validate some data with IEMOP, System Operator, or Market Service Provider, if necessary.

In generating the Final Monthly FASR, ECO shall take into account the submitted documents, justifications, the relevant market data gathered from the Market Management System (MMS), and other verified records, data, or information.

d) Publication of Final Monthly and Annual FASR

After due verification and assessment of the relevant data or information, the Final Monthly FASR will be issued via the CPEMS FAS Module and WESM Information Website.

(i) Reports Relating to FAS Monitoring

FASR	Content/s	Form	Recipient
(1) Preliminary Monthly FASR	Individual FAS – MAPE and PERC95 results per MDGU. The results are computed based on the market data provided by the Market Operator. Results are cumulative. ²	Electronic (via CPEMS) in summary table form with individual results for MAPE and PERC95	MDGU
(2) Final Monthly FASR	Individual FAS – MAPE and PERC95 results per MDGU, as <i>recalculated</i> . The results already consider the exclusions or any data variance as basis for FAS recalculation. Results are cumulative.	Electronic (via CPEMS) in summary table form with individual results for MAPE and PERC95	MDGU
(3) Consolidated Monthly FASR	Narrative report which summarizes the results of the FAS compliance of all covered MDGUs including the observations and other assessment during the relevant monitoring period.	Report (in pdf)	DOE/ PEM Board/ Compliance Committee

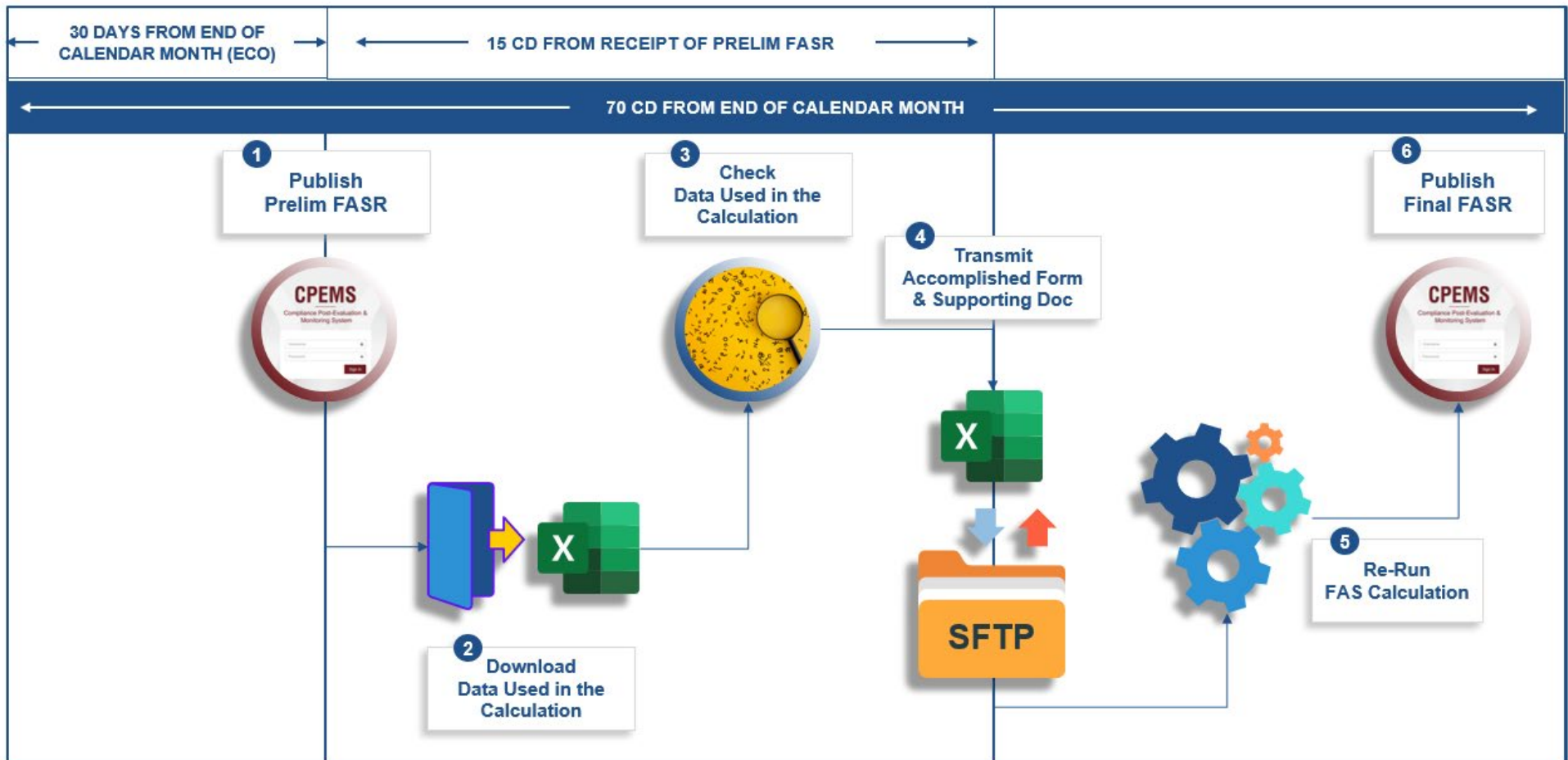
² Results are cumulative (from January billing month up to the covered reporting period). For example, the FASR for April 2022 covers the results from January to April 2022; and the FASR for May 2022 covers the results from January to May 2022; and so on.

FASR	Content/s	Form	Recipient
(4) Annual FASR	Individual Annual FAS – MAPE and PERC95 results per MDGU covering the period January to December billing months. The results already consider the exclusions or any data variance as basis for FAS recalculation. This is the type of report upon which the penalty imposition shall be based.	Electronic (via CPEMS) in summary table form with individual results for MAPE and PERC95 - and - Individual Annual FASR (in pdf)	MDGU
(5) Consolidated Annual FASR	Narrative report which summarizes the results of the FAS compliance of all covered MDGUs including the observations and other assessment, as well as the penalty/sanctions imposed during the covered monitoring year.	Report (in pdf)	DOE/ PEM Board/ Compliance Committee

(ii) Summary Table of Timeline

Process	Report/Forms	Platform/Tool	Timeline
Publication of the Initial FAS Results	Preliminary Monthly FASR	CPEMS	Within 30 calendar days from the end of the calendar month of the covered monitoring period.
Validation by TP	Accomplished FAS Form (AFASF)	FTP	Within 15 calendar days from the publication of Preliminary Monthly FASR
Validation by ECO	Submitted AFASF and Supporting Documents	CPEMS	Within 15 calendar days from the receipt of AFASF
Publication of the Final FAS Results	Final Monthly FASR	CPEMS	Within seventy (70) calendar days from the end of the calendar month of the covered monitoring period.
Publication of the Annual Final FAS Results	Annual FASR	CPEMS	On or before 31 March of the year following the covered monitoring year.

(iii) Illustration of the Timeline for Reporting, Validation, and Publication of FAS Results



Annex A - Submission of FAS Documents via FTP

PEMC WORK INSTRUCTIONS FOR SUBMISSION OF FAS DOCUMENTS VIA FTP

For this issue of the Work Instruction, the Trading Participant will be guided on the following:

- Documents and forms to be submitted to Enforcement and Compliance Office (ECO)
- Facility for the submission of reply and documents
- Procedure for uploading of files
- Additional or revision of reports submitted

1. Documents

There are two types of documents that will be used on the monitoring:

- a. CPEMS-Generated Documents (Excel Exported File)
- b. Outbound Documents (Inbound to PEMC-ECO)

Table 1. 0 Document Types

TYPE	DESCRIPTION	SENDER	FORM TO BE USED
CPEMS Documents			
Forecast Accuracy Standard Data	The exported file will contain the list of all intervals for one billing period for a particular facility or resource.	CPEMS	Forecast Accuracy Standard Form
Outbound Documents			
Accomplished Forecast Accuracy Standard Form (AFASF)	A response or reply supported or substantiated by relevant documents to prove that a significant event/reason for a specific interval has caused the forecast error.	Trading Participants	Forecast Accuracy Standard Form
Supporting Documents (SD)	These refer to electronic copies of plant operator records, correspondences and relevant data or information that will show proof or evidence that external factors have affected the plant's performance and which led to a forecast error.	Trading Participants	Any relevant and available supporting documents (These can be zipped or compressed with the Accomplished Form)

2. Document Format and Filename

The documents shall be submitted in electronic files in the following format:

Table 2.0 Format and Filename

Document	Filename		File Format
	Naming Convention	Example	
Accomplished Forecast Accuracy Standard Form (AFASF)	FAS_TPSHORTNAME_ PLANTSHORTNAME_YYYY_ MM	FAS_VSEIGEN_VALSOL _2022_01	AFASF and SD - zip/rar

Note: For the **official** short names, i.e., Trading Participant and Plant **Short Names**, please refer to [Annex B](#)

3. Schedule of Submissions

The documents shall be submitted within the timeline set below:

Table 3.0 Schedule of Submissions

Document	Responsible	Deadline	Example
Forecast Accuracy Standard Form (FASF) - Preliminary FASR	PEMC-ECO	End of the following month	<ul style="list-style-type: none">January 2022 Preliminary Monthly FASR Publication - February 28, 2022
AFASF and SD	Trading Participant	15 calendar days from the publication of Preliminary Monthly FASR	<ul style="list-style-type: none">January 2022 Preliminary Monthly FASR Submission of reply and documents - March 15, 2022
Additional SD	Trading Participant	15 calendar days from the publication of Preliminary Monthly FASR	<ul style="list-style-type: none">January 2022 Preliminary Monthly FASR Submission of additional/revised reply and documents – March 15, 2022

4. Facility for the Submission of Documents

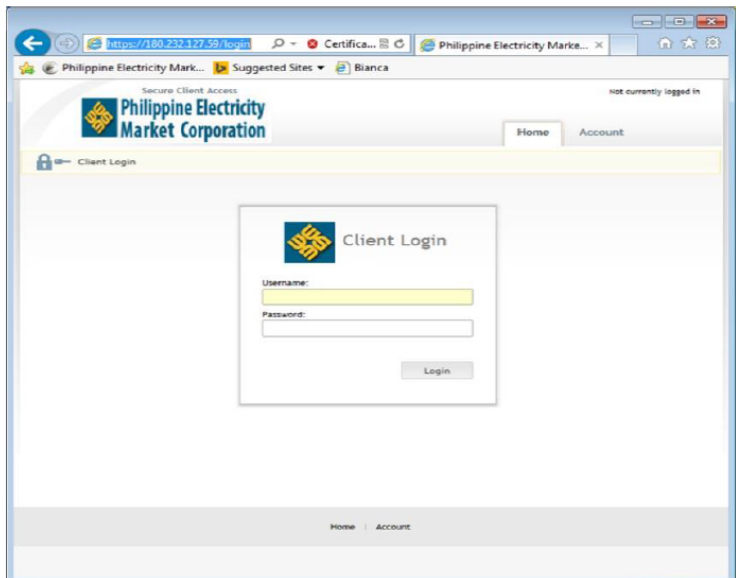
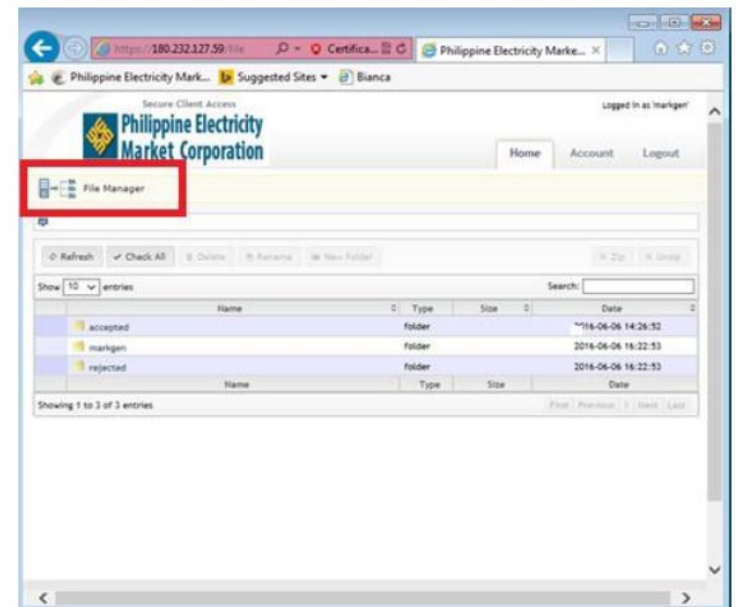
The documents shall be submitted through PEMC-Secured File Transfer Protocol (SFTP) website:

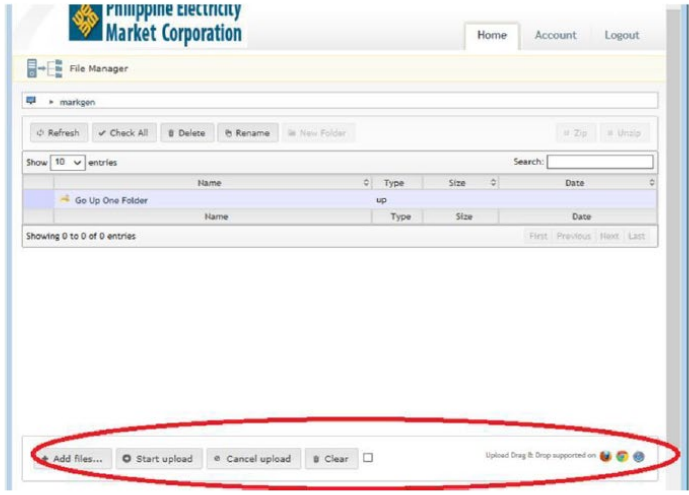
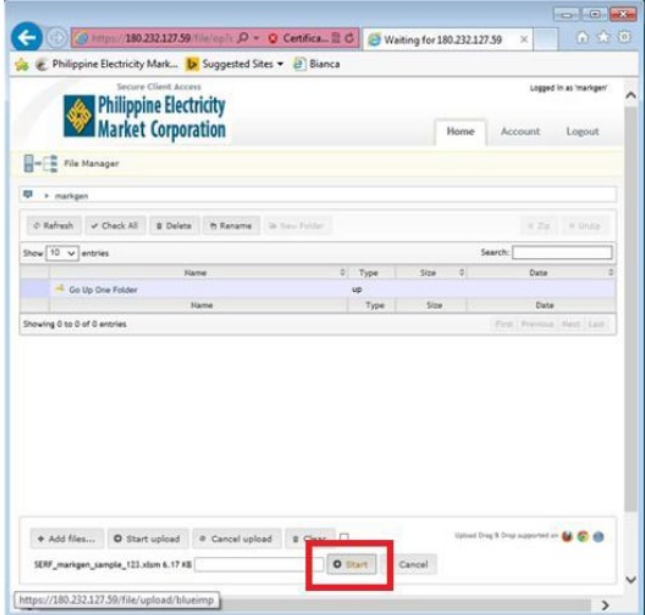
For Submission of AFASF: <https://180.232.127.59/login>

5. Log-in Credentials

- Log-in credentials (username and password) are assigned to each Trading Participant.
- For further assistance in account creation and password reset, please get in touch with PEMC-ECO at eco@wesm.ph or eco-cmd@wesm.ph

6. Procedure for Uploading Files

Steps	Screenshot																
<p>Log in to the PEMC FTP website at https://180.232.127.59/login. Recommended browser is Internet Explorer.</p> <p>Log-in credentials (username and password) are assigned for each WESM Trading Participant. These details will be provided upon launch of the facility. <i>For further assistance, please get in touch with the PEMC-ECO.</i></p>																	
<p>Upon successful login, the main window will be displayed. The File Manager can be accessed under the Home tab.</p> <p>The File Manager contains three folders, as follows –</p> <ul style="list-style-type: none">• Accepted – which contains all successfully upload files.• Rejected – which contains files with incorrect filename format.• Username Folder, ex. markgen – is where the files will be uploaded. This folder should be empty at all times.	 <table><thead><tr><th>Name</th><th>Type</th><th>Size</th><th>Date</th></tr></thead><tbody><tr><td>accepted</td><td>folder</td><td></td><td>2016-06-06 14:26:52</td></tr><tr><td>markgen</td><td>folder</td><td></td><td>2016-06-06 16:22:53</td></tr><tr><td>rejected</td><td>folder</td><td></td><td>2016-06-06 16:22:53</td></tr></tbody></table>	Name	Type	Size	Date	accepted	folder		2016-06-06 14:26:52	markgen	folder		2016-06-06 16:22:53	rejected	folder		2016-06-06 16:22:53
Name	Type	Size	Date														
accepted	folder		2016-06-06 14:26:52														
markgen	folder		2016-06-06 16:22:53														
rejected	folder		2016-06-06 16:22:53														

Steps	Screenshot
<p>To upload a file, select the Username folder and then click the “Add file” button or use the “Upload Drag & Drop” option.</p> <p>The Upload Drag & Drop feature is also available on other browsers (e.g. Mozilla Firefox, Google Chrome, and Safari).</p>	
<p>Once the file(s) to be submitted has been added, click the Start button to start uploading the file/s.</p>	

7. Addition or Revision of Submissions

- The Trading Participant may submit additional supporting documents to support the new or revised information.
- Any documents submitted to ECO may be revised within the timeline referred to in Section 3 of this document, if there are corrections, amendments, or additional information that need to be made.
- The additional or revised document shall be submitted in the same manner described in Section 6.
- The filename shall indicate that it is revised by adding a suffix “Rev”.

Annex B – Official List of Trading Participants and Plant Shortnames

As of 22 December 2022³

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
1590 Energy Corporation	01BAUANG_GS1	1590ECGEN	BAUANG	Nylle
1590 Energy Corporation	01BAUANG_GS2	1590ECGEN	BAUANG	Nylle
1590 Energy Corporation	01BAUANG_GS3	1590ECGEN	BAUANG	Nylle
Absolut Distillers Inc.	03ADISOL_G01	ABSOLUTDIGEN	ADISOL	Nylle
AC Energy Philippines, Inc.	08STBAR_PB2	PHENGEN	STBAR	Alaine
AC Energy Philippines, Inc.	05PHNPB3_G01	PHENGEN	PHNPB3	Alaine
Alternergy Wind One Corporation	03AWOC_G01	AWOC	AWOC	Nylle
Alterpower Digos Solar, Inc.	13DIGSOL_G01	APDIGOSGEN	DIGSOL	Dianne
Amlan Hydroelectric Power Corporation	06AMLA_G01	AMLANHPCGEN	AMLA	Nylle
Anda Power Corporation	01ANDA_G01	ANDAGEN	ANDA	Nylle
Angat Hydropower Corporation	01ANGAT_A	AHCGEN	ANGAT	Nylle
Angat Hydropower Corporation	01ANGAT_M	AHCGEN	ANGAT	Nylle
AP Renewables Inc.	03MKBN_A	APRIGEN	MKBN	Dianne
AP Renewables Inc.	03MKBN_B	APRIGEN	MKBN	Dianne
AP Renewables Inc.	03MKBN_C	APRIGEN	MKBN	Dianne
AP Renewables Inc.	03MKBN_D	APRIGEN	MKBN	Dianne
AP Renewables Inc.	03MKBN_E	APRIGEN	MKBN	Dianne
AP Renewables Inc.	03ORMAT_G01	APRIGEN	ORMAT	Dianne
AP Renewables Inc.	03TIWI_A	APRIGEN	TIWI	Dianne
AP Renewables Inc.	03TIWI_C	APRIGEN	TIWI	Dianne
Aseagas Corporation	03LIAN_G01	ASEAGASGEN	LIAN	Nylle
Asia Pacific Energy Corporation	01APEC_G01	APECGEN	APEC	Nylle
Asian Carbon Neutral Power Corp.	01ACNPC_G01	ACNPCGEN	ACNPC	Nylle
Asian Greenenergy Corp	11KBSOL_G01	AGECOGEN	KBSOL	Dianne
Asiga Green Energy Corp.	12ASIGA_G01	ASIGAGEN	ASIGA	Dianne
Astronergy Development Gensan Inc.	14ASTROSOL_G01	ADGIGEN	ASTROSOL	Alaine
Bac-Man Geothermal Inc.	03BACMAN_U01	BGIGEN	BACMAN	Nylle
Bac-Man Geothermal Inc.	03BACMAN_U02	BGIGEN	BACMAN	Nylle
Bac-Man Geothermal Inc.	03BACMAN_U03	BGIGEN	BACMAN	Nylle
Bataan 2020 Power Ventures, Inc.	01BT2020_G01	BTN2020GEN	BT2020	Nylle
Bataan 2020, Inc.	01BT2020_G02	BTN2020GENB	BT2020B	Nylle
Bataan Solar Energy Inc.	01BTSOLEN_G01	BSEIGEN	BTSOLEN	Nylle
Belgrove Power Corporation	03MALAYA_G02	BPCGEN	MALAYA2	Carl
Bicol Biomass Energy Corporation	03BBEC_G01	BBECGEN	BBEC	Nylle
Bicol Hydropower Corporation	03INARI_G01	BHCGEN	INARI	Carl
Biotech Farms, Inc.	14BIOMS_U01	BFIGEN	BIOMS	Dianne
Biotech Farms, Inc.	14BIOGS_G01	BFIGEN	BIOGS	Dianne
Biscom, Inc.	06BISCOM_G01	BISCOMGEN	BISCOM	Carl

³ Note: The following list will be updated by ECO from time to time to ensure consistency and completeness of the plants/facilities covered by the FAS monitoring. For new plants/facility that is not listed here yet, please coordinate with ECO through eco@wesm.ph for creation of FTP account and login credentials.

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
BOHECO I Sevilla Mini Hydro Corp.	07SEVILL_G01	BSMHCGEN	SEVILL	Nylle
Bohol I Electric Cooperative, Inc.	07JANOPO_G01	JANOPOLGEN	JANOPO	Nylle
Bosung Solartec, Inc.	01BOSUNG_G01	BOSUNGEN	BOSUNG	Nylle
Bubunawan Power Company, Inc.	11MINBU_G01	BUBUNAWANGEN	MINBU	Dianne
Bulacan Power Generation Corporation	01T_ASIA_G01	TAPGCGEN	T-ASIA	Dianne
Citicore Solar Bulacan, Inc.	01BULSOL_G01	BULACNSEGEN	BULSOL	Nylle
Cagayan Biomass Energy Corporation	01CAGBIO_G01	CBECGEN	CAGBIO	Carl
Cebu Energy Development Corporation	05CEDC_U01	CEDCGEN	CEDC	Nylle
Cebu Energy Development Corporation	05CEDC_U02	CEDCGEN	CEDC	Nylle
Cebu Energy Development Corporation	05CEDC_U03	CEDCGEN	CEDC	Nylle
Cebu Private Power Corporation	05CPPC_U01	CPPCGEN	CPPC	Carl
Cebu Private Power Corporation	05CPPC_U02	CPPCGEN	CPPC	Carl
Cebu Private Power Corporation	05CPPC_U03	CPPCGEN	CPPC	Carl
Cebu Private Power Corporation	05CPPC_U04	CPPCGEN	CPPC	Carl
Cebu Private Power Corporation	05CPPC_U05	CPPCGEN	CPPC	Carl
Cebu Private Power Corporation	05CPPC_U06	CPPCGEN	CPPC	Carl
Cebu Private Power Corporation	05CPPC_U07	CPPCGEN	CPPC	Carl
Cebu Private Power Corporation	05CPPC_U08	CPPCGEN	CPPC	Carl
Cebu Private Power Corporation	05CPPC_U09	CPPCGEN	CPPC	Carl
Cebu Private Power Corporation	05CPPC_U10	CPPCGEN	CPPC	Carl
Central Azucarera de Bais, Inc.	06CABI_G01	CABGEN	CABI	Nylle
Central Azucarera de San Antonio	08CASA_G01	CASAGEN	CASA	Nylle
Central Azucarera Don Pedro, Inc.	03CADPI_G01	CADPIGEN	CADPI	Nylle
Central Negros Power Reliability, Inc.	06CENPRI_U02	CENPRIGEN	CENPRI	Nylle
Central Negros Power Reliability, Inc.	06CENPRI_U01	CENPRIGEN	CENPRI	Nylle
Central Negros Power Reliability, Inc.	06CENPRI_U03	CENPRIGEN	CENPRI	Nylle
Central Negros Power Reliability, Inc.	06CENPRI_U04	CENPRIGEN	CENPRI	Nylle
Central Negros Power Reliability, Inc.	06CENPRI_U05	CENPRIGEN	CENPRI	Nylle
CIP II Power Corporation	01CIP2_G01	CIP2GEN	CIP2	Nylle
Cleangreen Energy Corporation	01CLEANG_G01	CECGEN	CLEANG	Dianne
Cosmo Solar Energy, Inc.	08COSMO_G01	CSEIGEN	COSMO	Nylle
East Asia Utilities Corporation	05EAUC_U01	EAUCGEN	EAUC	Carl
East Asia Utilities Corporation	05EAUC_U02	EAUCGEN	EAUC	Carl
East Asia Utilities Corporation	05EAUC_U03	EAUCGEN	EAUC	Carl
East Asia Utilities Corporation	05EAUC_U04	EAUCGEN	EAUC	Carl
Ecopark Energy of Valenzuela Corp.	02ECOPRK_G01	ECOPARKGEN	ECOPRK	Nylle
Ecopark Energy of Valenzuela Corp.	02ECOTAGA_G01	ECOPARKGEN	ECOPRK	Nylle
EDC Burgos Wind Power Corporation	01BURGOS_G01	EBWPCGEN	BURGOSW	Carl
Energy Development Corporation	06NASULO_G01	EDCGEN	NASULO	Alaine
Energy Development Corporation	01BURGOS_G02	EDCSL	BURGOS	Carl
Energy Development Corporation	14MTAPO_U01	EDCGEN	MTAPO1	Carl
Energy Development Corporation	14MTAPO_U03	EDCGEN	MTAPO1	Carl
Energy Development Corporation	01BURGOS_G03	EDCSL	BURGOS	Carl

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
Energy Logics Philippines, Inc.	01PASQSOL_G01	ELPISPPGEN	PASQSOL	Nylle
Enfinity Philippines Renewable Resources Inc.	01CLASOL_G01	ENFINITYGEN	CLASOL	Carl
Euro Hydro Power (Asia) Holdings, Inc.	13EUROH_G01	EUROHYDROGEN	EUROH	Dianne
FDC Misamis Power Corporation	11FDC_U01	FDCGEN	FDC	Dianne
FDC Misamis Power Corporation	11FDC_U02	FDCGEN	FDC	Dianne
FDC Misamis Power Corporation	11FDC_U03	FDCGEN	FDC	Dianne
FG Bukidnon Power Corporation	11FGBPC_G01	FGBPCGEN	FGBPC	Dianne
FGP Corporation (San Lorenzo)	03STA-RI_G05	FGPSNLOGEN	SANLO	Alaine
FGP Corporation (San Lorenzo)	03STA-RI_G06	FGPSNLOGEN	SANLO	Alaine
First Cabanatuan Renewable Ventures Inc.	01CABSOL_G01	FCRVGEN	CABSOL	Carl
First Farmers Holdings Corporation	06FFHC_G01	FFHCGEN	FFHC	Carl
First Gas Power Corporation (Sta Rita)	03STA-RI_G01	FGPSTARIGEN	STA-RI	Dianne
First Gas Power Corporation (Sta Rita)	03STA-RI_G02	FGPSTARIGEN	STA-RI	Dianne
First Gas Power Corporation (Sta Rita)	03STA-RI_G03	FGPSTARIGEN	STA-RI	Dianne
First Gas Power Corporation (Sta Rita)	03STA-RI_G04	FGPSTARIGEN	STA-RI	Dianne
First Gen Hydro Power Corporation	01MASIWA_G01	FGHPCGEN	MASIWA	Dianne
First Gen Hydro Power Corporation	01PNTBNG_U01	FGHPCGEN	PNTBNG	Dianne
First Gen Hydro Power Corporation	01PNTBNG_U02	FGHPCGEN	PNTBNG	Dianne
First Natgas Power Corporation	03SNGAB_G01	FNPCGEN	SNGAB	Dianne
First Solar Energy Corp.	04PHSOL_G01	FSOLEQGEN	PHSOL	Carl
Citicore Solar Cebu, Inc.	05TOLSOL_G01	FTOLEDOGEN	TOLSOL	Carl
GIGA ACE 4, Inc.	03ALMNOS_BAT1	GIGAACE4GEN	ALMNOS	Alaine
GIGA ACE 4, Inc.	03ALMNOS_BAT2	GIGAACE4GEN	ALMNOS	Alaine
GIGASOL3, Inc.	01GIGSOL_G01	GIGASOL3GEN	GIGSOL	Alaine
GN Power Kauswagan Ltd. Co.	10GNPK_U01	GNPKLCOGEN	GNPK	Carl
GN Power Kauswagan Ltd. Co.	10GNPK_U02	GNPKLCOGEN	GNPK	Carl
GN Power Kauswagan Ltd. Co.	10GNPK_U03	GNPKLCOGEN	GNPK	Carl
GN Power Kauswagan Ltd. Co.	10GNPK_U04	GNPKLCOGEN	GNPK	Carl
GNPower Dinginin Ltd. Co.	01GNPD_U01	GNPDGEN	GNPD	Carl
GNPower Dinginin Ltd. Co.	01GNPD_U02	GNPDGEN	GNPD	Carl
GNPower Mariveles Energy Center Ltd. Co.	01MARVEL_G01	GMCPGEN	MARVEL	Carl
GNPower Mariveles Energy Center Ltd. Co.	01MARVEL_G02	GMCPGEN	MARVEL	Carl
Grassgold Renewable Energy Corporation	01GRGOLD_G01	G2RECGEN	GRGOLD	Alaine
Green Core Geothermal Inc.	06PAL1A_G01	GCGIGEN	PAL1A	Dianne
Green Core Geothermal Inc.	06PAL2A_U01	GCGIGEN	PAL2A	Dianne
Green Core Geothermal Inc.	06PAL2A_U02	GCGIGEN	PAL2A	Dianne
Green Core Geothermal Inc.	06PAL2A_U03	GCGIGEN	PAL2A	Dianne
Green Core Geothermal Inc.	06PAL2A_U04	GCGIGEN	PAL2A	Dianne
Green Core Geothermal Inc.	04LGPP_G01	GCGIGEN	LGPP	Dianne
Greencore Power Solutions 3, Inc.	01ARAYSOL_G01	GPS3IGEN	ARAYSOL	Nylle
Green Earth Enersource Corporation	14GERBIO_G01	GREENEECGEN	GERBIO	Dianne

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
Green Future Innovations, Inc.	01GFII_G01	GFIIGEN	GFII	Carl
Green Innovations for Tomorrow Corporation	01GIFT_G01	GIFTGEN	GIFT	Carl
Green Innovations for Tomorrow Corporation	01GIFT_G02	GIFTGEN	GIFTNS	Carl
Guimaras Wind Corporation	08SLWIND_G01	PHINMAREGEN	SLWIND	Dianne
Hawaiian-Philippine Company	06HPCO_G01	HPCOGEN	HPCO	Carl
Hawaiian-Philippine Company	06HPCO_G02	HPCOGEN	HPCO	Carl
Hedcor Bukidnon, Inc.	11MANFOR_G01	HEDBUKGEN	MANFOR	Dianne
Hedcor Bukidnon, Inc.	11MANFOR_G02	HEDBUKGEN	MANFOR	Dianne
Hedcor Sabangan, Inc.	01SABANG_G01	HSABIGEN	SABANG	Carl
Hedcor Sibulan, Inc.	13SIBULAN_G01	SIBULANGEN	SIBULAN	Dianne
Hedcor Tudaya, Inc. - Tudaya II	13TUDAY2_G01	HTI2GEN	TUDAY2	Nylle
HEDCOR, Inc.	01SLANGN_G01	HEDCORGEN	SLANGN	Carl
HEDCOR, Inc.	01NMHC_G03	HEDCORHE	NMHC	Carl
HEDCOR, Inc.	01NMHC_G01	HEDCORHE	NMHC	Carl
HEDCOR, Inc.	01AMPHAW_G01	HEDCORHE	AMPHAW	Carl
HEDCOR, Inc.	01BAKSIP_G01	HEDCORHE	BAKSIP	Carl
HEDCOR, Inc.	01BINENG_G01	HEDCORHE	BINENG	Carl
HEDCOR, Inc.	13TALOM1_G01	HEDCORHE	TALOM	Carl
HEDCOR, Inc.	13TALOM23_G01	HEDCORHE	TALOM23	Carl
Helios Solar Energy Corporation	06HELIOS_G01	HELIOSGEN	HELIOS	Carl
HyperGreen Energy Corporation	01HYPGRN_G01	HGECGEN	HYPGRN	Nylle
Ingrid Power Holdings, Inc.	03INGRID_GS1	IPHI1GEN	INGRID	Alaine
Ingrid Power Holdings, Inc.	03INGRID_GS2	IPHI1GEN	INGRID	Alaine
Ingrid Power Holdings, Inc.	03INGRID_GS3	IPHI1GEN	INGRID	Alaine
Ingrid Power Holdings, Inc.	03INGRID_GS4	IPHI1GEN	INGRID	Alaine
Ingrid Power Holdings, Inc.	03INGRID_GS5	IPHI1GEN	INGRID	Alaine
Ingrid Power Holdings, Inc.	03INGRID_GS6	IPHI1GEN	INGRID	Alaine
Isabel Ancillary Services Co. Ltd.	04IASMOD_G01	IASCOGEN	IASMOD	Dianne
Isabel Ancillary Services Co. Ltd.	04IASMOD_G02	IASCOGEN	IASMOD	Dianne
Isabel Ancillary Services Co. Ltd.	04IASMOD_G03	IASCOGEN	IASMOD	Dianne
Isabel Ancillary Services Co. Ltd.	04IASMOD_G04	IASCOGEN	IASMOD	Dianne
Isabel Ancillary Services Co. Ltd.	04IASMOD_G05	IASCOGEN	IASMOD	Dianne
Isabel Ancillary Services Co. Ltd.	04IASMOD_G06	IASCOGEN	IASMOD	Dianne
Isabela Biomass Energy Corporation	01IBEC_G01	IBECGEN	IBEC	Carl
Isabela La Suerte Rice Mill Corporation	01LASUER_U01	ILSRMCGEN	LASUER	Alaine
Jobin-SQM Inc.	01SUBSOL_G01	JOBINGEN	SUBSOL	Carl
KEPCO SPC Power Corporation	05KSPC_G01	KSPCGEN	KSPC	Alaine
KEPCO SPC Power Corporation	05KSPC_G02	KSPCGEN	KSPC	Alaine
King Energy Generation - Gingoog	12KEGGIN_G01	KINGENEGEN	KEGMIS	Nylle
King Energy Generation - Jimenez	09KEGJIM_G01	KINGENEGEN	KEGJIM	Nylle
King Energy Generation - Maramag	11KEGMAR_G01	KINGENEGEN	KEGMAR	Nylle
King Energy Generation - Tandag	12KEGTAN_G01	KINGENEGEN	KEGSUR	Nylle
King Energy Generation-Panaon	09KEGPN_G01	KINGENEGEN	KEGPN	Nylle
Kirahon Solar Energy Corporation	11KIRAS_G01	KIRASOLGEN	KIRAS	Nylle

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
Labayat 1 Hydropower Corporation	03UPLAB_G01	UPLAB1GEN	UPLAB	Alaine
Lamsan Power Corporation	14LAMSAN_G01	LAMSANGEN	LAMSAN	Nylle
Maibarara Geothermal, Inc.	03MGPP_G01	MGIGEN	MGPP	Nylle
Maibarara Geothermal, Inc.	03MGI_G02	MGIGEN	MGI	Nylle
Majayjay Hydropower Company, Inc.	03MAJAY_G01	MHCIGEN	MAJAY	Nylle
Majestics Energy Corporation	03MEC_G01	MECGEN	MEC	Alaine
Mapalad Energy Generation Corporation	10MEGC_G01	MEGCGEN	MEGC	Dianne
Mapalad Partners, Inc. (DIGOS)	13MPCDIG_G01	MPIDIGOSGEN	MPCDIG	Nylle
Mapalad Power Corporation	10IDPP_G01	MPCGEN	IDPP	Nylle
Masinloc Power Partners Co. Ltd.	01MSINLO_G01	MPPCLGEN	MSINLO	Carl
Masinloc Power Partners Co. Ltd.	01MSINLO_G02	MPPCLGEN	MSINLO	Carl
Masinloc Power Partners Co. Ltd.	01MSINLO_G03	MPPCLGEN	MSINLO	Carl
Masinloc Power Partners Co. Ltd.	01MSINLO_BAT	MPPCLGEN	MSNLO	Carl
Mindanao Energy Systems - Cabulig	11MNCBLG_G01	MINERGYGEN	MNCBLG	Nylle
Mindanao Energy Systems - Sulzer	11MNRGY_G01	MINERGYGEN	MNRGY	Nylle
Mindanao Energy Systems - Wartzila	11MNRGY_G02	MINERGYGEN	MNRGY	Nylle
Mindoro Grid Corporation	01BUTAO_G01	MGCGEN	BUTAO	Carl
Minergy Power Corporation	11MINBAL_G01	MINPOWCORGEN	MINBAL	Nylle
Mirae Asia Energy Corporation	01MAEC_G01	MAECGEN	MAEC	Alaine
Montalban Methane Power Corp.	02MMPP_G01	MMPC	MMPP	Alaine
Monte Solar Energy Inc.	06MNTSOL_G01	MONTESOLGEN	MNTSOL	Alaine
MORE Power Barge Inc.	08STBPB1_U01	MPBIGEN	STBAR1	Alaine
MORE Power Barge Inc.	08STBPB1_U02	MPBIGEN	STBAR1	Alaine
MORE Power Barge Inc.	08STBPB1_U03	MPBIGEN	STBAR1	Alaine
MORE Power Barge Inc.	08STBPB1_U04	MPBIGEN	STBAR1	Alaine
National Irrigation Administration	01NIABAL_G01	NIABAL	NIABAL	Alaine
Negros Island Solar Power Inc.	06CARSOL_G01	NISPI	CARSOL	Alaine
Negros Island Solar Power Inc.	06MANSOL_G01	NISPI2	MANSOL	Alaine
Citicore Solar Bataan, Inc.	01MARSOL_G01	NEXTGEN	MARSOL	Alaine
Nickel Asia Corporation	12NACSUR_G01	NACSURGEN	NACSUR	Dianne
North Bukidnon Power Corp.	11NBPC_G01	NBPCGEN	NBPC	Dianne
North Luzon Renewable Energy Corporation	01CAPRIS_G01	NLRECGEN	CAPRIS	Alaine
North Negros Biopower, Inc.	06NTNEGB_G01	NNBPGEN	NTNEGB	Carl
North Wind Power Development Corporation	01NWIND_G01	NORTHWIND	NWIND	Alaine
North Wind Power Development Corporation	01NWIND_G02	NORTHWIND	NWIND	Alaine
Citicore Solar Tarlac 2 Inc.	01DALSOL_G01	NVVOGTDAL	DALSOL	Alaine
NV Vogt Philippines Solar Energy One Inc.	14NVSOL_G01	NVVOGTSE1GEN	NVSOL	Dianne
Citicore Solar Tarlac 1, Inc.	01ARMSOL_G01	NVVOGTARM	ARMSOL	Alaine
One Subic Power Generation Corporation	01S_ENRO_G01	OSPGCGEN	S-ENRO	Alaine
Oriental Energy & Power Generation Corp.	08TIMBA_G01	OEPGCGEN	TIMBA	Dianne
PACERM-1 Energy Corporation	11PACERM_G01	PACERM1GEN	PACERM	Dianne
Pagbilao Energy Corporation	03PAGBIL_G03	PECGEN	PAGBIL3	Alaine

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
Palm Concepcion Power Corporation	08PALM_G01	PCPCGEN	PALM	Alaine
Panasia Energy, Inc.	01LIMAY_U01	PANASIAGEN	LIMAY	Alaine
Panasia Energy, Inc.	01LIMAY_U02	PANASIAGEN	LIMAY	Alaine
Panasia Energy, Inc.	01LIMAY_U03	PANASIAGEN	LIMAY	Alaine
Panasia Energy, Inc.	01LIMAY_U04	PANASIAGEN	LIMAY	Alaine
Panasia Energy, Inc.	01LIMAY_U05	PANASIAGEN	LIMAY	Alaine
Panasia Energy, Inc.	01LIMAY_U06	PANASIAGEN	LIMAY	Alaine
Panasia Energy, Inc.	01LIMAY_U07	PANASIAGEN	LIMAY	Alaine
Panasia Energy, Inc.	01LIMAY_U08	PANASIAGEN	LIMAY	Alaine
Panay Energy Development Corporation	08PEDC_U01	PEDCGEN	PEDC	Alaine
Panay Energy Development Corporation	08PEDC_U02	PEDCGEN	PEDC	Alaine
Panay Energy Development Corporation	08PEDC_U03	PEDCGEN	PEDC	Alaine
Panay Power Corporation	08GLOBAL_G01	PPCGEN	GLOBAL	Alaine
Panay Power Corporation	08PPC1_A	PPCGEN	PPC	Alaine
Panay Power Corporation	08PPC1_B	PPCGEN	PPC	Alaine
Panay Power Corporation	08PPC_G02	PPCGEN	AVON	Alaine
Pangea Green Energy Philippines, Inc.	02PNGEA_G01	PGEP	PNGEA	Alaine
Peak Power San Francisco	12PKSFRA_U01	PEAKPOWERGEN	PKSFRA	Alaine
Peak Power San Francisco	12PKSFRA_U02	PEAKPOWERGEN	PKSFRA	Alaine
Peak Power Soccsargen, Inc.	14PKPSOC_G01	PSIGEN	PKPSOC	Alaine
Peakpower Bukidnon Inc.	11PKBUK_G01	PEAKBUKGEN	PKBUK	Alaine
People's Energy Services Inc.	03BART_G01	PESIGEN	BART	Alaine
Petron Corporation	01PETRON_G01	PETRONGEN	PETRON	Alaine
PetroSolar Corporation	01PETSOL_G01	PETROSOLRGEN	PETSOL	Alaine
PetroSolar Corporation	01PETSOL_G02	PETROSOLRGEN	PETSOL	Alaine
PetroWind Energy Inc.	08PWIND_G01	PWEIGEN	PWIND	Alaine
Philippine Power and Development Company	03PALAK_G01	PPDCGEN	PALAK	Nylle
Philippine Power and Development Company	03BALUG_G01	PPDCGEN	BALUG	Nylle
Philippine Power and Development Company	03CLBATO_G01	PPDCGEN	CLBATO	Nylle
Power Sector Asset and Liabilities Management Corporation	10AGUS1_U01	PSALMGENM	AGUS1	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS1_U02	PSALMGENM	AGUS1	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS2_U01	PSALMGENM	AGUS2	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS2_U02	PSALMGENM	AGUS2	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS2_U03	PSALMGENM	AGUS2	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS4_U01	PSALMGENM	AGUS4	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS4_U02	PSALMGENM	AGUS4	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS4_U03	PSALMGENM	AGUS4	Carl

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
Power Sector Asset and Liabilities Management Corporation	10AGUS5_U01	PSALMGENM	AGUS5	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS5_U02	PSALMGENM	AGUS5	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS6_U01	PSALMGENM	AGUS6	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS6_U02	PSALMGENM	AGUS6	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS6_U03	PSALMGENM	AGUS6	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS6_U04	PSALMGENM	AGUS6	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS6_U05	PSALMGENM	AGUS6	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS7_U01	PSALMGENM	AGUS7	Carl
Power Sector Asset and Liabilities Management Corporation	10AGUS7_U02	PSALMGENM	AGUS7	Carl
Power Sector Asset and Liabilities Management Corporation	11PULA4_U01	PSALMGEN	PULA4	Carl
Power Sector Asset and Liabilities Management Corporation	11PULA4_U02	PSALMGEN	PULA4	Carl
Power Sector Asset and Liabilities Management Corporation	11PULA4_U03	PSALMGEN	PULA4	Carl
Power Sector Asset and Liabilities Management Corporation	14MTAPO_U02	PSALMGEN	MTAPO	Carl
Power Sector Asset and Liabilities Management Corporation	11STEAG_U01	PSALMGEN	STEAG	Carl
Power Sector Asset and Liabilities Management Corporation	11STEAG_U02	PSALMGEN	STEAG	Carl
PowerSource Philippines Energy, Inc.	10PPEI_U01	PPEIGEN	PPEI	Alaine
Prime Meridian PowerGen Corporation	03AVION_U01	PMPCGEN	AVION	Nylle
Prime Meridian PowerGen Corporation	03AVION_U02	PMPCGEN	AVION	Nylle
Energy Development Corporation	04LEYTE_A	PSALMGEN	LEYTE	Carl
PSALM Corporation	01CASECN_G01	PSALMGEN	CASECN	Nylle
PSALM Corporation	03BOTOCA_G01	PSALMGEN	BOTOCA	Nylle
PSALM Corporation	03CALIRY_G01	PSALMGEN	CALIRY	Nylle
PSALM Corporation	03KAL_G01	PSALMGEN	KAL	Carl
PSALM Corporation	03KAL_G02	PSALMGEN	KAL	Carl
PSALM Corporation	03KAL_G03	PSALMGEN	KAL	Carl
PSALM Corporation	03KAL_G04	PSALMGEN	KAL	Carl
PSALM Corporation	03MALAYA_G01	PSALMGEN	MALAYA	Carl
Quezon Power (Philippines) Ltd. Co.	03QPPL_G01	QPPLGEN	QPPL	Alaine
RASLAG Corp.	01RASLAG_G01	RCGEN	RASLAG	Dianne
RASLAG Corp.	01RASLAG_G02	RCGEN	RASLAG	Dianne
RASLAG Corp.	01RASLAG_G03	RCGEN	RASLAG	Dianne
Republic Cement & Building Materials, Inc.	03RCBMI_G01	RCBMIGEN	RCBMI	Nylle
Republic Cement & Building Materials, Inc.	03RCBMI_G02	RCBMIGEN	RCBMI	Nylle
San Buenaventura Power Ltd. Co.	03SBPL_G01	SBPLC	SBPL	Alaine
San Carlos Bioenergy, Inc.	06SCBE_G01	SCBIGEN	SCBE	Dianne

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
San Carlos Biopower, Inc.	06SCBIOP_G01	SCBIOPOWRGEN	SCBIOP	Dianne
San Carlos Solar Energy, Inc.	06SACASL_G01	SACASOLGEN	SACASL	Dianne
San Carlos Solar Energy, Inc.	06SACASL_G02	SACASOLGEN	SACASL	Dianne
San Carlos Sun Power, Inc.	06SACSUN_G01	SACASUNGEN	SACSUN	Dianne
San Jose City I Power Corporation	01IPOWER_G01	IPOWERGEN	IPOWER	Dianne
San Jose City I Power Corporation	01IPOWER_G02	IPOWERGEN	IPOWER	Dianne
San Miguel Consolidated Power Corporation	13SMC_U01	SMCPCGEN	SMCPC	Alaine
San Miguel Consolidated Power Corporation	13SMC_U02	SMCPCGEN	SMCPC	Alaine
San Miguel Energy Corporation	01SUAL_G01	SMECGEN	SUAL	Carl
San Miguel Energy Corporation	01SUAL_G02	SMECGEN	SUAL	Carl
Sarangani Energy Corporation	14SARANG_U01	SECGEN	SARANG1	Alaine
Sarangani Energy Corporation	14SARANG_U02	SECGEN	SARANG2	Alaine
SEM-Calaca Power Corporation	03CALACA_G01	SCPCGEN	CALACA	Carl
SEM-Calaca Power Corporation	03CALACA_G02	SCPCGEN	CALACA	Carl
Citicore Solar Negros Occidental, Inc	06SLYSOL_G01	SILAYSPIGEN	SLYSOL	Dianne
SMC Consolidated Power Corporation	01SMC_G01	SMCCPCGEN	SMC	Alaine
SMC Consolidated Power Corporation	01SMC_G02	SMCCPCGEN	SMC	Alaine
SMC Consolidated Power Corporation	01SMC_G03	SMCCPCGEN	SMC	Alaine
SMC Consolidated Power Corporation	01SMC_G04	SMCCPCGEN	SMC	Alaine
SMCGP Philippines Energy Storage Co. Ltd.	06KABAN_BAT	SPESCLGEN	KABAN	Nylle
Smith Bell Mini-Hydro Corporation	01SMBELL_G01	SBMHCGEN	SMBELL	Dianne
SN Aboitiz Power - Benguet, Inc.	01BINGA_U01	SNAPBGEN	BINGA	Nylle
SN Aboitiz Power - Benguet, Inc.	01BINGA_U02	SNAPBGEN	BINGA	Nylle
SN Aboitiz Power - Benguet, Inc.	01BINGA_U03	SNAPBGEN	BINGA	Nylle
SN Aboitiz Power - Benguet, Inc.	01BINGA_U04	SNAPBGEN	BINGA	Nylle
SN Aboitiz Power - Benguet, Inc.	01AMBUK_U01	SNAPBGEN	AMBUK	Nylle
SN Aboitiz Power - Benguet, Inc.	01AMBUK_U02	SNAPBGEN	AMBUK	Nylle
SN Aboitiz Power - Benguet, Inc.	01AMBUK_U03	SNAPBGEN	AMBUK	Nylle
SN Aboitiz Power - Magat, Inc.	01MAGAT_U01	SNAPMGEN	MAGAT	Carl
SN Aboitiz Power - Magat, Inc.	01MAGAT_U02	SNAPMGEN	MAGAT	Carl
SN Aboitiz Power - Magat, Inc.	01MAGAT_U03	SNAPMGEN	MAGAT	Carl
SN Aboitiz Power - Magat, Inc.	01MAGAT_U04	SNAPMGEN	MAGAT	Carl
SN Aboitiz Power - Magat, Inc.	01MARIS_U01	SNAPMGEN	MARIS	Carl
SN Aboitiz Power - Magat, Inc.	01MARIS_U02	SNAPMGEN	MARIS	Carl
Solar Philippines Calatagan Corporation	03CALSOL_G01	SOLARPHILGEN	CALSOL	Dianne
Solar Philippines Commercial Rooftop Projects, Inc.	02SMNRTH_G01	SPSMNORTH	SMNRTH	Dianne
Solar Philippines Tarlac Corporation	01CONSOL_G01	SOLARPHTCGEN	CONSOL	Carl
SOLARACE1 Energy Corp.	03SOLACE_G01	SOLARACE1GEN	SOLACE	Dianne
South Luzon Thermal Energy Corporation	03SLTEC_G01	SLTECGEN	SLTEC	Dianne
South Luzon Thermal Energy Corporation	03SLTEC_G02	SLTECGEN	SLTEC	Dianne
South Negros Biopower, Inc.	06STNEGB_G01	SNBPGEN	STNEGB	Alaine

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
South Premiere Power Corporation	03ILIJAN_G01	SPPCGEN	ILIJAN	Carl
South Premiere Power Corporation	03ILIJAN_G02	SPPCGEN	ILIJAN	Carl
Southwest Luzon Power Generation Corporation	03SLPGC_G01	SLPGCGEN	SLPGCC	Alaine
Southwest Luzon Power Generation Corporation	03SLPGC_G02	SLPGCGEN	SLPGCC	Alaine
SPARC-Solar Powered Agri-Rural Communities Corporation	01ZAMSOL_G01	SPARCGEN	ZAMSOL	Dianne
SPARC-Solar Powered Agri-Rural Communities Corporation	01BTNSOL_G01	SPARCGEN	BTNSOL	Dianne
SPARC-Solar Powered Agri-Rural Communities Corporation	01SPABUL_G01	SPARCGEN	SPABUL	Dianne
SPC Island Power Corporation	07BDPP_U01	SIPCGEN	BDPP	Alaine
SPC Island Power Corporation	07BDPP_U02	SIPCGEN	BDPP	Alaine
SPC Island Power Corporation	07BDPP_U03	SIPCGEN	BDPP	Alaine
SPC Island Power Corporation	07BDPP_U04	SIPCGEN	BDPP	Alaine
SPC Island Power Corporation	08PDPP1_U02	SIPCGEN	PDPP	Alaine
SPC Island Power Corporation	08PDPP1_U03	SIPCGEN	PDPP	Alaine
SPC Island Power Corporation	08PDPP1_U05	SIPCGEN	PDPP	Alaine
SPC Island Power Corporation	08PDPP3_C	SIPCGEN	PDPP3	Alaine
SPC Island Power Corporation	08PDPP3_E	SIPCGEN	PDPP3	Alaine
SPC Island Power Corporation	08PDPP3_G	SIPCGEN	PDPP3	Alaine
SPC Island Power Corporation	08PDPP3_H	SIPCGEN	PDPP3	Alaine
SPC Power Corporation	07TLPB4_U01	SPCGEN	TAPAL	Carl
SPC Power Corporation	07TLPB4_U02	SPCGEN	TAPAL	Carl
SPC Power Corporation	07TLPB4_U03	SPCGEN	TAPAL	Carl
SPC Power Corporation	07TLPB4_U04	SPCGEN	TAPAL	Carl
Sta Clara Power Corporation	07LOBOC_G01	STACLARAGEN	LOBOC	Dianne
Sta Clara Power Corporation	07LOBOC_G02	STACLARAGEN	LOBOC	Dianne
Strategic Energy Development Inc.	13MAGDBNK_G01	SEDIGEN	MAGDBNK	Alaine
Strategic Power Development Corporation	01SROQUE_U01	SPDCGEN	SROQUE	Nylle
Strategic Power Development Corporation	01SROQUE_U02	SPDCGEN	SROQUE	Nylle
Strategic Power Development Corporation	01SROQUE_U03	SPDCGEN	SROQUE	Nylle
Sulu Electric Power and Light (Phils.), Inc.	04SEPSOL_G01	SEPALCOGEN	SEPSOL	Dianne
Supreme Power Corporation	13MATIBNK_G01	SUPREMEPCGEN	MATIBNK	Alaine
Sunwest Water and Electric Company 2, Inc.	08SUWECO_G01	SUWECO2GEN	SUWECO	Dianne
Supreme Power Corporation	14SUPKOR_G01	SUPREMEPCGEN	SUPKOR	Alaine
Surallah Power Generation Inc.	14SPGI_U01	SPGIGEN	SPGI	Alaine
Taft Hydroenergy Corporation	04TAFT_G01	TAFTHECGEN	TAFT	Carl
Terasu Energy Inc.	01TERASU_G01	TERASUGEN	TERASU	Dianne
Therma Luzon, Inc.	03PAGBIL_G01	TLIGEN	PAGBIL	Alaine
Therma Luzon, Inc.	03PAGBIL_G02	TLIGEN	PAGBIL	Alaine
Therma Marine, Inc.	12TM2_U01	TMIGEN	TM2	Alaine
Therma Marine, Inc.	12TM2_U02	TMIGEN	TM2	Alaine
Therma Marine, Inc.	13TM1_U01	TMIGEN	TM1	Alaine
Therma Marine, Inc.	13TM1_U02	TMIGEN	TM1	Alaine

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
Therma Mobile, Inc.	02TMOBIL_G01	TMOGEN	TMO	Dianne
Therma Mobile, Inc.	02TMOBIL_G02	TMOGEN	TMO	Dianne
Therma Mobile, Inc.	02TMOBIL_G03	TMOGEN	TMO	Dianne
Therma Mobile, Inc.	02TMOBIL_G04	TMOGEN	TMO	Dianne
Therma Power Visayas, Inc.	05TPVI_U01	TPVIGEN	TPVI	Nylle
Therma Power Visayas, Inc.	05TPVI_U02	TPVIGEN	TPVI	Nylle
Therma Power Visayas, Inc.	05TPVI_U03	TPVIGEN	TPVI	Nylle
Therma Power Visayas, Inc.	05TPVI_U04	TPVIGEN	TPVI	Nylle
Therma Power Visayas, Inc.	05TPVI_U05	TPVIGEN	TPVI	Nylle
Therma Power Visayas, Inc.	05TPVI_U06	TPVIGEN	TPVI	Nylle
Therma South, Inc.	13DCPP_U01	TSIGEN	DCPP	Alaine
Therma South, Inc.	13DCPP_U02	TSIGEN	DCPP	Alaine
Therma Visayas, Inc.	05THVI_U01	TVIGEN	THVI	Dianne
Therma Visayas, Inc.	05THVI_U02	TVIGEN	THVI	Dianne
Toledo Power Company	05TPC_G02	TPCGEN	SANGI	Carl
Toledo Power Company	05TPC_G01	TPCGEN	CARMEN	Carl
United Pulp and Paper Company, Inc.	01UPPC_G01	UPPCGEN	UPPC	Dianne
Universal Power Solutions, Inc	13MALITA_BAT	UPSIGEN	MALITAB	Nylle
Universal Power Solutions, Inc	13MACO_BAT	UPSIGEN	MACO	Nylle
Universal Power Solutions, Inc	11JASA_BAT	UPSIGEN	JASA	Nylle
Universal Power Solutions, Inc.	01LMAO_BAT	UPSIGEN	LAMAOB	Nylle
Universal Power Solutions, Inc.	01LIMAY_BAT	UPSIGEN	LIMAYB	Nylle
Universal Power Solutions, Inc.	05TOLEDO_BAT	UPSIGEN	TOLEDOB	Nylle
Universal Power Solutions, Inc.	07UBAY_BAT	UPSIGEN	UBAYB	Nylle
Universal Power Solutions, Inc.	01SNMAN_BAT	UPSIGEN	SNMAN	Nylle
Universal Robina Corporation	06URC_G01	URCGEN	URC	Dianne
Valenzuela Solar Energy, Inc.	02VALSOL_G01	VSEIGEN	VALSOL	Nylle
Victorias Milling Company, Inc.	06VMC_G01	VMCGEN	VMC	Nylle
Victorias Milling Company, Inc.	06VMC_G02	VMCGEN	VMC2	Nylle
Northern Renewables Generation Corporation	01BAKUN_G01	NRGEN	BAKUN	Nylle
VS Gripal Power Corporation	01VSGRIP_G01	VSGPCGEN	VSGRIP	Alaine
Western Mindanao Power Corporation	09WMPC_U01	WMPCGEN	WMPC	Dianne
Western Mindanao Power Corporation	09WMPC_U02	WMPCGEN	WMPC	Dianne
Western Mindanao Power Corporation	09WMPC_U03	WMPCGEN	WMPC	Dianne
Western Mindanao Power Corporation	09WMPC_U04	WMPCGEN	WMPC	Dianne
Western Mindanao Power Corporation	09WMPC_U05	WMPCGEN	WMPC	Dianne
Western Mindanao Power Corporation	09WMPC_U06	WMPCGEN	WMPC	Dianne
Western Mindanao Power Corporation	09WMPC_U07	WMPCGEN	WMPC	Dianne
Western Mindanao Power Corporation	09WMPC_U08	WMPCGEN	WMPC	Dianne
Western Mindanao Power Corporation	09WMPC_U09	WMPCGEN	WMPC	Dianne
Western Mindanao Power Corporation	09WMPC_U10	WMPCGEN	WMPC	Dianne

MARKET PARTICIPANT NAME	MARKET TRADING NODE	TP SHORTNAME	PLANT SHORTNAME	CLUSTER
YH Green Energy, Incorporated	01YHGRN_G01	YHGEIGEN	YHGRN	Nylle
Zamboanga City Electric Cooperative, Inc. (ZAMCELCO DPP)	09ZAMCEL_G01	ZAMDPPGEN	ZAMCEL	Alaine

Annex C – FPE Computation for MDGU with Expansion Unit⁴

1. During Test and Commissioning (T&C) of the Expansion Unit.

- a. For intervals where T&C is conducted on the plant or facility's expansion unit, the following conditions shall apply for purposes of computing the FPE of the whole facility:
 - If Projected Quantity (PQ)⁵ ≤ Combined MQ⁶ = 0 FPE
 - If PQ > Combined MQ = 100 FPE
- b. For intervals where the plant is operating without the expansion unit under T&C, although during the T&C period, as indicated in the Provisional Certificate of Authority to Connect (PCATC), the formula for FPE, as referred to in Section 4.2.3 of the FAS Manual, shall be applied.

Note: The ECO shall require the MDGU to submit proof of actual T&C schedule or activity of the expansion unit on certain dispatch intervals.

2. Upon issuance of the Final Certificate of Approval to Connect (FCATC) but the updated Pmax including the additional MW capacity of the expansion unit is not yet reflected in the WESM Registration and the Market Management System (MMS), thus, resulting in the inability of the MDGU to submit nominations for the said expansion unit, the following FPE shall be imposed –

- a. If the nomination or the submitted projected output (in MW) is equal to the current registered capacity, the following conditions shall apply for purposes of computing FPE:
 - If PQ ≤ Combined MQ = 0 FPE
 - If PQ > Combined MQ = 100 FPE
- b. If the nomination or the submitted projected output (in MW) is less than the current registered capacity, the formula for FPE, as referred to in Section 4.2.3 of the FAS Manual, shall be applied.

Note: The ECO shall require the MDGU to submit a copy of the FCATC. It shall also be determined or confirmed with the MDGU if it intends to continue to operate already pursuant to Section 4.4.5 of the DOE DC2022-05-0015⁷ while awaiting the issuance of the Certificate of Compliance (COC) or Provisional Authority to Operate (PAO) from the Energy Regulatory Commission.

- c. Once the plant's Pmax registration is already updated to include the facility's expansion unit, the formula for FPE, as referred to in Section 4.2.3 of the FAS Manual, shall be applied.

⁴ **“Expansion Unit.** It shall refer to the expanded capacity of a *must-dispatch generating unit* or that built in phases and is designed to have the same plant substation and revenue meter as the existing capacity unit.” Section 2.1.2 (a) of the FAS Manual 2.1

⁵ Calculated under Section 4.2.4 of the FAS Manual

⁶ The combined metered quantity shall refer to the sum of the metered quantity of the existing capacity unit and that of the expansion unit.

⁷ “Supplementing Department Circular No. DC2021-06-0013 on the Framework Governing the Test and Commissioning of Generation Facilities for Ensuring Readiness to Deliver Energy to the Grid or Distribution Network.” Published in DOE Website in June 2022.