



RENEWABLE ENERGY CERTIFICATE (REC) ISSUANCE ORIENTATION

20 April 2021, 9:30 AM - 11:30 AM

PEMC
G10

A Premier Electricity Market & Champion of *G*overnance

HOUSE RULES

Please be guided by the following house rules:

1. Please only log-in or **use one device per account** to avoid crowding out of participants in the platform and allow other participants to join
2. Type your questions via the **Q/A** function. Questions will be answered during the Q&A portions of the orientation.

OBJECTIVE

Discussion of the following:

1. REC Issuance Plan and its requirements
2. REC Validation Process
3. Procedure on the Use of the Secured File Transfer Protocol for the submission and retrieval of data/documents

DISCUSSION FLOW

Time	TOPIC	PRESENTER
9:45 AM – 10:00 AM	REC Issuance Plan	Mr. Clares Loren C. Jalocon
10:00 AM – 10:30 AM	REC Validation Process	Ms. Dece Marwil B. Falar
10:30 AM – 10:45 AM	OPEN FORUM	
10:45 AM – 11:00 AM	SFTP Procedure	Mr. Aldrin W. Reyes
11:00 AM – 11:30 AM	OPEN FORUM	



REC ISSUANCE PLAN

REC ISSUANCE PLAN

REM Rules 3.1.1.1 The Registrar shall issue one REC for every mega-watt hour (MWH) of Renewable Electricity generated by REM Generators.

RE Transaction Method	RE Certificate (REC) Owner
Feed-in-tariff (FiT)	Allocated among the RPS Mandated Participants
WESM (Non-FiT)	Generator
PSAs with non-DCC(DU, EC, RES, etc.)	Non-DCC/ Load counterparty
Power Supply Agreement (PSA) with DCC	Generator counterparty
Net-metering	Host Distribution Utility
Self-generation/ Non-WESM/ embedded	Host Distribution Utility

The RE Registrar must issue RE Certificates corresponding to the RE generation of eligible RE facilities starting **January 2018 and onwards.**

REC ISSUANCE TIMELINE PER REM RULES

Category	Timeline	Remarks
WESM/ Grid		If the watt-hours produced did not reach 1MWh, then the carry-over provision for fractional MWh will apply, the REC will be issued during the WESM billing period or REM Quarter when the MWh reached 1 MWh.
not Multi-Fuel Hybrid Systems	Monthly	
Multi-Fuel Hybrid Systems	Quarterly	
Non-WESM/ Off-grid (i. e. Net-metered and embedded)	Quarterly	The issued REC for a voluntary generator will be computed based on the metered quantity of EACH facility and not the aggregated MQs of several voluntary generators. (REM Rules 3.1.8.6)

REC Adjustment:

REM Rules 3.1.7- If the RER determines that there is an error or discrepancy in the issued RECs for a Trading Participants, then it shall ensure that the correction is reflected in the REC Issuance for the next billing period or REM quarter, as applicable.

DATA REQUIREMENTS FOR REC ISSUANCE

Data Provider	Data/Requirements	Timeline
	<p>Settlement-ready Metered Quantities (MQ) and Bilateral Contract Quantities (BCQ) data generated for REM Generators in the WESM</p>	<p>No later than the third (3rd) working day after the Market Operator issues a Final Settlement Statement for that WESM Billing Period.</p>
	<p>Metered Quantities of FiT Eligible Facilities and FiT-All tariff remitted by Mandated Participants and NGCP (for DCCs)</p>	<p>No later than fifty (50) calendar days after the end of the WESM Billing Period</p>
	<p>Metered data for Non-WESM RE Generators or voluntary generators (I.e. Net Metering)</p>	<p>Quarterly: No later than 20 working days after the end of the applicable quarter.</p> <p>Host DU may already submit the MQ data of its registered voluntary generators starting June 2021.</p>

REC ISSUANCE CALENDAR

TARGET MONTH OF ISSUANCE	RE GENERATORS NON-FIT and FIT Eligible Facilities	VOLUNTARY GENERATORS
May 2021	January 2018	
June 2021	February 2018	
July 2021	March 2018 and April 2018	
August 2021	May 2018 and June 2018	
September 2021	July 2018, Aug 2018 and Sep 2018	Jan-June 2018
October 2021	October 2018, November 2018 and December 2018	
November 2021	January 2019, February 2019 and March 2019	
December 2021	April 2019 , May 2019 and June 2019	Jul-Dec 2018

2022 REC ISSUANCE CALENDAR

TARGET MONTH OF ISSUANCE	RE GENERATORS NON-FIT and FIT Eligible Facilities	VOLUNTARY GENERATORS
January 2022	July to December 2019	Jan-Dec 2019
February 2022	Jan 2020 to June 2020	
March 2022	July 2020 to December 2020	Jan-Dec 2020
April 2022	Jan 2021 to June 2021	
May 2022	July 2021 to December 2021	Jan-Dec 2021
June 2022	January 2022 to June 2022	
July 2022		
August 2022	July 2022	
September 2022	August 2022	
November 2022	September 2022	

VALIDATION SCHEDULE

For January 2018 Billing Period

Schedule	Activities
26 April to 30 April 2021	<ul style="list-style-type: none">• REM Participants should have access to the PREMS• REM participants can verify the input data (MQ, BCQ and FIT all data in their respective accounts.
03 May 2021	<ul style="list-style-type: none">• RECs are issued for January 2018 to REM Participants via PREMS.• Authorized PREMS users will also receive a notification via email.• Required data for validation will be made available to Participants via SFTP
03 May to 14 May 2021	<ul style="list-style-type: none">• Validation of issued RECs by Participants
14 May 2021, 5PM	<ul style="list-style-type: none">• Deadline for submission of Validation Forms via SFTP• If no validation form is received, we will consider the RECs issued to your company as correct
Within 18 to 21 May 2021	<ul style="list-style-type: none">• RER will notify participants via email that the RECs issued for the subject billing month are final or if it will be adjusted in the next REC calculation

1. PEMC will assess, determine the appropriate pace for succeeding months and provide the necessary schedule via email to REM participants.
2. Participants will be requested to accomplish the Trial Phase 2 Form to provide feedback on the use of PREMS and functionalities.



REC VALIDATION PROCESS

REC VALIDATION REQUIREMENT

1. Access to the PREMS

- ✓ If your company has no access to the PREMS yet, kindly submit an accomplished DC Service Request Form to the RE Registrar.

2. Access to the Secured File Transfer Protocol of PEMC

DATA REQUIREMENTS FOR REC ISSUANCE

Data Provider	Data/Requirements	Timeline
	Settlement-ready Metered Quantities (MQ) and Bilateral Contract Quantities (BCQ) data generated for REM Generators in the WESM	No later than the third (3 rd) working day after the Market Operator issues a Final Settlement Statement for that WESM Billing Period.
	Metered Quantities of FiT Eligible Facilities and FiT-All tariff remitted by Mandated Participants and NGCP (for DCCs)	No later than fifty (50) calendar days after the end of the WESM Billing Period

- The Registrar cannot issue more RECs than what is metered, since RECs should be based on actual energy generated.
- REC issuance for RE generation from WESM RE Generators will be capped at their Metered Quantities. Hence, if BCQ declarations \geq MQ, then Registrar will assume all RECs are bundled.

REC VALIDATION DATA REQUIREMENT

RE from Non-FIT Eligible Facilities transacted in the WESM and PSA

Data	Who can View the Data	Where to Get the Data (via PREMS)
Customer Metered Quantity	Customers (dedicated to each participant's account)	<ol style="list-style-type: none"> 1. Log-in to your PREMS 2. Go to Import Data then Import MQ 3. Choose a billing period and filter "Confirmed" Status 4. Click apply.
Generator Metered Quantity	Generators (dedicated to each participant's account)	
Bilateral Contract Quantity	<ol style="list-style-type: none"> 1. Customers (dedicated to each participant's account) 2. Generators (all BCQ of its load counterparties) 	<ol style="list-style-type: none"> 1. Log-in to your PREMS 2. Go to Import Data then Import BCQ 3. Choose a billing period and filter "Confirmed" Status 4. Click apply.
Issued RECs	<ol style="list-style-type: none"> 1. Customers 2. Generators 	<ol style="list-style-type: none"> 1. Log-in to your PREMS 2. In the main dashboard, click "ACTIVE SUB ACCOUNT" 3. Choose a billing period and filter "Confirmed" Status 4. Click apply.

REC VALIDATION PROCESS

Compliance Mechanism: WESM Non-FIT Eligible Facilities and PSA

Case and Assumptions	Example	No. of Issued RECs		Validation Process								
<p>Case 1: Eligible RE Facility (GEN1) has no declared BCQ and is not partially eligible (i.e. registered capacity= eligible capacity)</p>	<p>Total MQ of GEN1 for Billing Period N = 27,100.5789 MWh</p>	<table border="1"> <thead> <tr> <th>RECs</th> <th>Carry-Over</th> </tr> </thead> <tbody> <tr> <td>27,100</td> <td>0.5789</td> </tr> </tbody> </table>	RECs	Carry-Over	27,100	0.5789	<table border="1"> <thead> <tr> <th>RECs</th> <th>Carry-Over</th> </tr> </thead> <tbody> <tr> <td>27,100</td> <td>0.5789</td> </tr> </tbody> </table>	RECs	Carry-Over	27,100	0.5789	<p>Non- FIT eligible RE Gen can verify the results by comparing its MQ and issued RECs ((PREMS-REC Summary).</p>
RECs	Carry-Over											
27,100	0.5789											
RECs	Carry-Over											
27,100	0.5789											
<p>Case 2: Eligible RE Facility (GEN2) has no declared BCQ and is partially eligible (i.e. registered capacity > eligible capacity)</p> <p>Registered Capacity= 70 MW Eligible Capacity= 50 MW</p>	<p>Total MQ of GEN2 for Billing Period N= 27,100 MWh</p> <p>Computation of MQ based on eligible capacity.</p> <p>Formula 1: Eligible MQ= MQ* (Eligible Capacity/ Registered Capacity)</p> <p>Eligible MQ= 19,357.1428 MWh</p>	<table border="1"> <thead> <tr> <th>RECs</th> <th>Carry-Over</th> </tr> </thead> <tbody> <tr> <td>19,357</td> <td>0.1428</td> </tr> </tbody> </table>	RECs	Carry-Over	19,357	0.1428	<table border="1"> <thead> <tr> <th>RECs</th> <th>Carry-Over</th> </tr> </thead> <tbody> <tr> <td>19,357</td> <td>0.1428</td> </tr> </tbody> </table>	RECs	Carry-Over	19,357	0.1428	<p>To know the eligible and registered capacity, go to Registration and Contracts Management>Facility information page.</p> <p>Carry over quantity- will be reflected in the next issuance</p>
RECs	Carry-Over											
19,357	0.1428											
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REC VALIDATION PROCESS

Compliance Mechanism: WESM Non-FIT Eligible Facilities and PSA

Case and Assumption	Example	No. of Issued RECs			Validation Process
		REC Owner	RECs	Carry-Over	
<p>Case 3: Eligible RE Facility (GEN3) has declared BCQ data</p> <p>Assumptions:</p> <ol style="list-style-type: none"> Total MQ ≤ Total BCQ Facility is <u>not</u> partially eligible Counterparties: 3 	<p>Total MQ: 12,800 MWh Total BCQ: 13,300 MWh</p> <p>BCQ per MP: BCQ DU1= 10,000 MWh BCQ DU2= 3,000 MWh BCQ RES1= 300 MWh</p> <p>Formula 2: $REC_{N1} = MQ_{Gen3} * (BCQ_N / \sum BCQ)$</p>	REC Owner	RECs	Carry-Over	<p>GEN3 can validate and confirm the RECs issued for each of its counterparty using the formula provided.</p> <p>Counterparties can review by comparing the :</p> <ol style="list-style-type: none"> RECs validated by its counterparty The total number of issued RECs reflected in PREMS>REC Summary page.
		DU1	9,624	0.0601	
		DU2	2,887	0.2180	
		RES1	288	0.7218	
		GEN3	0	0	
		Total RECs	12,800		

Note: The BCQ between Eligible RE Generator and Directly Connected Customer (DCC) will not be used in the REC computation.

REC VALIDATION PROCESS

Compliance Mechanism: WESM Non-FIT Eligible Facilities and PSA

Case and Assumptions	Example	No. of Issued RECs			Validation Process																		
<p>Case 4: Eligible RE Facility (GEN4) has declared BCQ data</p> <p>Assumptions:</p> <ol style="list-style-type: none"> Total MQ ≤ Total BCQ Facility is partially eligible Counterparties: 3 <p>Registered Capacity= 70 MW Eligible Capacity= 50 MW</p>	<p>Total MQ: 12,800 MWh Total BCQ: 13,300 MWh</p> <p>BCQ per Counterparty: BCQ DU1= 10,000 MWh BCQ DU2= 3,000 MWh BCQ RES1= 300 MWh</p> <p>Steps:</p> <ol style="list-style-type: none"> Compute for the eligible MQ = (MQ * Ecap / RegCap) = 9,142.8571 Pro-rate eligible MQ using Formula 2, as follows: <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Formula 2: $REC_{N1} = MQ_{Gen3} * (BCQ_N / \sum BCQ)$</p> </div>	<table border="1" data-bbox="1294 415 1875 933"> <thead> <tr> <th>REC Owner</th> <th>RECs</th> <th>Carry-Over</th> </tr> </thead> <tbody> <tr> <td>DU1</td> <td>6,874</td> <td>0.3286</td> </tr> <tr> <td>DU2</td> <td>2,062</td> <td>0.2985</td> </tr> <tr> <td>RES1</td> <td>206</td> <td>0.2298</td> </tr> <tr> <td>GEN4</td> <td>0</td> <td>0</td> </tr> <tr> <td>TOTAL RECs</td> <td colspan="2" style="text-align: center;">9,142.8571</td> </tr> </tbody> </table> <p>Carry over quantity- will be reflected in the next issuance.</p>			REC Owner	RECs	Carry-Over	DU1	6,874	0.3286	DU2	2,062	0.2985	RES1	206	0.2298	GEN4	0	0	TOTAL RECs	9,142.8571		<p>GEN4 can validate and confirm the RECs issued for each of its counterparty using the formula provided.</p> <p>Counterparties can review by comparing the</p> <ol style="list-style-type: none"> RECs validated by its counterparty The total number of issued RECs reflected in PREMS>REC Summary page.
REC Owner	RECs	Carry-Over																					
DU1	6,874	0.3286																					
DU2	2,062	0.2985																					
RES1	206	0.2298																					
GEN4	0	0																					
TOTAL RECs	9,142.8571																						

REC VALIDATION PROCESS

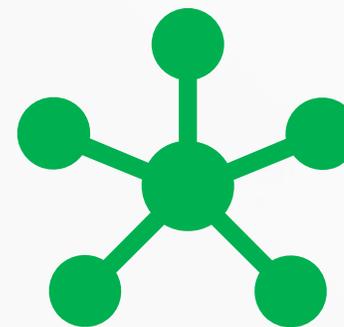
Compliance Mechanism: WESM Non-FIT Eligible Facilities and PSA

Case and Assumption	Example	No. of Issued RECs			Validation Process																		
<p>Case 5: Eligible RE Facility (GEN5) has declared BCQ data</p> <p>Assumptions:</p> <ol style="list-style-type: none"> Total MQ > Total BCQ Counterparties: 3 Facility is not partially eligible 	<p>Total MQ: 12,800 MWh Total BCQ: 9,100 MWh</p> <p>BCQ per MP: BCQ DU1= 5,000 MWh BCQ DU2= 4,000 MWh BCQ RES1= 100 MWh</p> <p>Pro-rating of BCQ does not apply if MQ> BCQ.</p>	<table border="1"> <thead> <tr> <th data-bbox="1319 405 1526 515">REC Owner</th> <th data-bbox="1526 405 1730 515">RECs</th> <th data-bbox="1730 405 1918 515">Carry-Over</th> </tr> </thead> <tbody> <tr> <td data-bbox="1319 515 1526 586">DU1</td> <td data-bbox="1526 515 1730 586">5,000</td> <td data-bbox="1730 515 1918 586">0</td> </tr> <tr> <td data-bbox="1319 586 1526 658">DU2</td> <td data-bbox="1526 586 1730 658">4,000</td> <td data-bbox="1730 586 1918 658">0</td> </tr> <tr> <td data-bbox="1319 658 1526 729">RES1</td> <td data-bbox="1526 658 1730 729">100</td> <td data-bbox="1730 658 1918 729">0</td> </tr> <tr> <td data-bbox="1319 729 1526 801">GEN5</td> <td data-bbox="1526 729 1730 801">3,700</td> <td data-bbox="1730 729 1918 801">0</td> </tr> <tr> <td data-bbox="1319 801 1526 925">Total RECs</td> <td colspan="2" data-bbox="1526 801 1918 925">12,800</td> </tr> </tbody> </table>			REC Owner	RECs	Carry-Over	DU1	5,000	0	DU2	4,000	0	RES1	100	0	GEN5	3,700	0	Total RECs	12,800		<p>GEN5 can validate and confirm the RECs issued for each of its counterparty using the formula provided.</p> <p>Counterparties can review by comparing the</p> <ol style="list-style-type: none"> RECs validated by its counterparty The total number of issued RECs reflected in PREMS>REC Summary page.
REC Owner	RECs	Carry-Over																					
DU1	5,000	0																					
DU2	4,000	0																					
RES1	100	0																					
GEN5	3,700	0																					
Total RECs	12,800																						

REC VALIDATION PROCESS

Compliance Mechanism: WESM Non-FIT Eligible Facilities and PSA

Case and Assumption	Example	No. of Issued RECs			Validation Process																		
<p>Case 6: Eligible RE Facility (GEN6) has declared BCQ data</p> <p>Assumptions:</p> <ol style="list-style-type: none"> Total MQ > Total BCQ Facility is partially eligible Counterparties: 3 <p>Registered Capacity= 70 MW Eligible Capacity= 50 MW</p>	<p>Total MQ: 12,800 MWh Total BCQ: 9,100 MWh</p> <p>BCQ per MP: BCQ DU1= 5,000 MWh BCQ DU2= 4,000 MWh BCQ RES1= 100 MWh</p> <p>Steps:</p> <ol style="list-style-type: none"> Compute the eligible MQ Eligible MQ= MQ *(Eligible Capacity/Reg Capacity) Compute for the RECs per participant using the formula below: <p>$REC_{N1} = BCQ_{N1} * (Eligible Capacity / Registered Capacity)$</p>	<table border="1"> <thead> <tr> <th data-bbox="1314 411 1523 521">REC Owner</th> <th data-bbox="1526 411 1699 521">RECs</th> <th data-bbox="1702 411 1913 521">Carry-Over</th> </tr> </thead> <tbody> <tr> <td data-bbox="1314 524 1523 589">DU1</td> <td data-bbox="1526 524 1699 589">3,571</td> <td data-bbox="1702 524 1913 589">0.4286</td> </tr> <tr> <td data-bbox="1314 592 1523 658">DU2</td> <td data-bbox="1526 592 1699 658">2,857</td> <td data-bbox="1702 592 1913 658">0.1482</td> </tr> <tr> <td data-bbox="1314 661 1523 726">RES1</td> <td data-bbox="1526 661 1699 726">71</td> <td data-bbox="1702 661 1913 726">0.4285</td> </tr> <tr> <td data-bbox="1314 729 1523 795">GEN6</td> <td data-bbox="1526 729 1699 795">2,642</td> <td data-bbox="1702 729 1913 795">0.8571</td> </tr> <tr> <td data-bbox="1314 798 1523 929">Total RECs</td> <td colspan="2" data-bbox="1526 798 1913 929">9,142.8571</td> </tr> </tbody> </table> <p>Carry over quantity- will be reflected in the next issuance.</p>			REC Owner	RECs	Carry-Over	DU1	3,571	0.4286	DU2	2,857	0.1482	RES1	71	0.4285	GEN6	2,642	0.8571	Total RECs	9,142.8571		<p>GEN6 can validate and confirm the RECs issued for each of its counterparty using the formula provided.</p> <p>Counterparties can review by comparing the</p> <ol style="list-style-type: none"> RECs validated by its counterparty The total number of issued RECs reflected in PREMS>REC Summary page.
REC Owner	RECs	Carry-Over																					
DU1	3,571	0.4286																					
DU2	2,857	0.1482																					
RES1	71	0.4285																					
GEN6	2,642	0.8571																					
Total RECs	9,142.8571																						



REC VALIDATION: FIT ALLOCATION

FIT ALLOCATION PRINCIPLES

Compliance Mechanism: FIT Eligible Facilities

- Generation from FiT eligible RE facilities will not earn RECs.
- The allocation of the monthly FiT Generation for each Mandated Participant will be in the proportion of the ff:
 - Monthly metered energy quantities to the metered energy quantities of all the Mandated Participants
 - Bilateral Contract Quantity of Directly Connected Customers;
 - Percentage level of FiT All remittance for the corresponding month.
- Incremental MWH from FiT-eligible RE facilities resulting from
 - (1) Unpaid FiT All by the On-grid Mandated Participant due to non-payment of the FiT All by its end users; and
 - (2) Sourcing of Directly Connected Customers of its supply from the WESMshall be apportioned to the Mandated Participants based on their monthly metered energy quantity, or total BCQ of the DCC Counterparty/ies of Generators.

ALLOCATION PROCEDURE

A MWH_a

MWH RE for the current month

Monthly FiT Generation Share equivalent to the total number of RECs for the current month

B FCO_{m-1}

Fractional MWH RE for the previous month

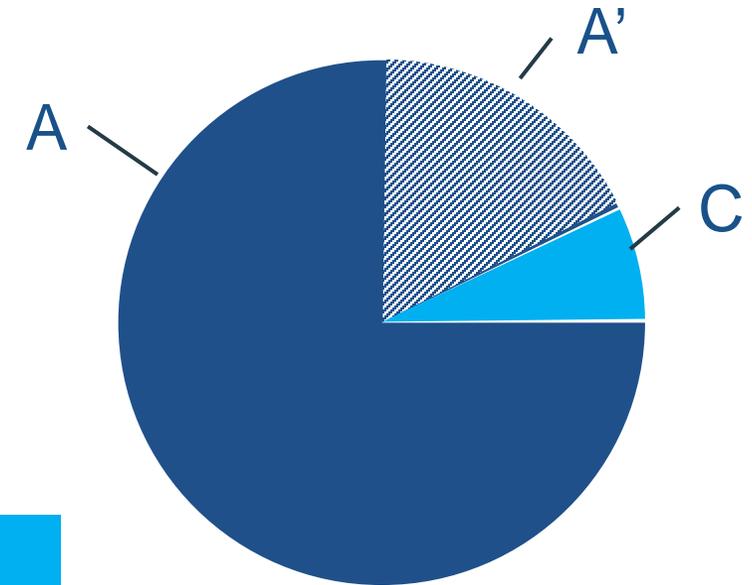
Fractional MWh from FiT to the previous month

C MWH_{inc}

MWH RE for the unpaid FiT All and WESM Transactions of DCCs

Incremental WH corresponding to:
 1) Unpaid FiT All by the Mandated Participant
 2) Unpaid FiT All by the End-user
 3) WESM Transactions of DCCs

FiT REC Share for a Month



ALLOCATION PROCEDURE

A MWH_a

MWH RE for the current month

Monthly FiT Generation Share equivalent to the total number of RECs for the current month

B FCO_{m-1}

Fractional MWH RE for the previous month

Fractional MWh from FiT to the previous month

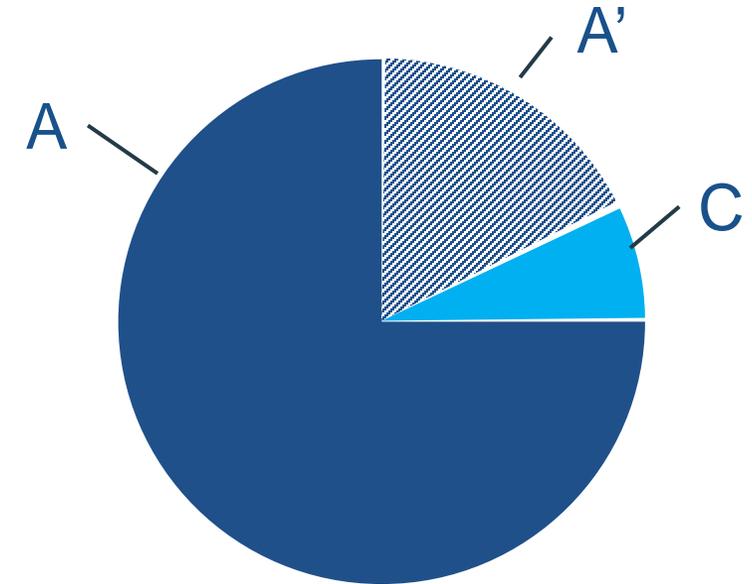
C MWH_{inc}

MWH RE for the unpaid FiT All and WESM Transactions of DCCs

Incremental WH corresponding to:

- 1) Unpaid FiT All by the Mandated Participant
- 2) Unpaid FiT All by the End-user
- 3) WESM Transactions of DCCs

FiT REC Share for a Month



$$MWH_a = \left[1 - \frac{(MWH_{UnpaidFiT,EU} + MWH_{WESM DCC})}{\sum MQ_{m,cust}} \right] \cdot MWH_m \times \frac{MQ_{m,i}}{\sum MQ_{m,cust}} \times PE_{m,i}$$

ALLOCATION PROCEDURE

A MWH_a

MWH RE for the current month

Monthly FiT Generation Share equivalent to the total number of RECs for the current month

B FCO_{m-1}

Fractional MWH RE for the previous month

Fractional MWh from FiT to the previous month

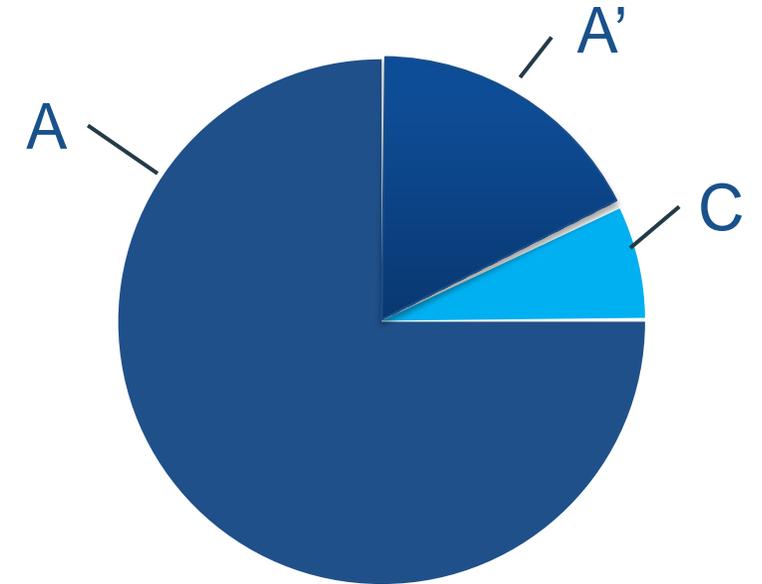
C MWH_{inc}

MWH RE for the unpaid FiT All and WESM Transactions of DCCs

Incremental WH corresponding to:

- 1) Unpaid FiT All by the Mandated Participant
- 2) Unpaid FiT All by the End-user
- 3) WESM Transactions of DCCs

FiT REC Share for a Month



$$MWH_{inc} = MWH_{UnpaidFiT,MP} + \frac{(MWH_{UnpaidFiT,EU} + MWH_{WESM DCC})}{\sum MQ_{m,cust}} \cdot MWH_m \cdot \frac{MQ_{m,i}}{\sum MQ_{m,cust}}$$

REC VALIDATION DATA REQUIREMENT

Compliance Mechanism: FIT Eligible Facilities

Data	Who can View the Data	Where to Get the Data	Remarks
Metered Quantity of each FIT Eligible Facility	REM Participants	Via SFTP	The names of the FIT eligible facility will not be disclosed.
Total MQ of Customers and Total BCQ of DCCs pro-rated at their MQ	REM Participants	Via SFTP	If a DCC's BCQ > MQ, the allocation of the FIT-eligible RE generation should correspond to the MQ apportioned based on the BCQ of each DCC over the total BCQ of all DCCs per generator. Otherwise, the allocation is its BCQ.
Specific Customer MQ	REM Mandated Participants	Via PREMS	PREMS- Import Data> Import MQ> Select Filter, Choose billing period and "Confirmed" Status
Specific BCQ of DCC (for GenCo with DCCs)	REM Generators with DCC	Via PREMS	PREMS- Import Data> Import BCQ> Select Filter, Choose billing period and "Confirmed" Status
FIT All Data	REM Mandated Participants	via PREMS	PREMS- Import Data> Import FIT ALL> Select Filter, Choose billing period and "Confirmed" Status

REC VALIDATION PROCESS

Compliance Mechanism: FIT Eligible RE Facilities

Example 1: 100% of FIT All Payment

Data	Sample Values
Metered Quantity of a FIT Eligible RE Facility (GEN1)	950 MWh
Total MQ of All Customers	9,000 MWh

MP	MQ (A)	Share of total MWh from FIT = MQ/Total MQ (B)	FIT ALL				MWh from FiT =Column B *GEN MQ	
			Expected Remittance	Actual Remittance	Unpaid FIT	Payment Efficiency	RECs	Carry Over
DU1	5,000	55%	500	500	0	100%	522	0.50
DU2	2,500	28%	250	250	0	100%	266	0.00
RES1	1,500	17%	150	150	0	100%	161	0.50
TOTAL	9,000	100%					950	

REC VALIDATION PROCESS

Compliance Mechanism: FIT Eligible RE Facilities

Example 2: FIT All Payment Efficiency is less than 100%

Data	Sample Values
Metered Quantity of a FIT Eligible RE Facility (GEN1)	950 MWh
Total MQ of All Customers	9,000 MWh

MP	MQ (A)	Share of total MWh from FIT = MQ/Total MQ (B)	FIT ALL				MWh from FIT =Column B *GEN MQ	
			Expected Remittance	Actual Remittance	Unpaid FIT	Payment Efficiency	RECs	Carry Over
DU1	5,000	56%	500	450	100	90%	470	.25
DU2	2,500	28%	250	250	0	100%	266	0
RES1	1,500	17%	150	127.5	75	85%	137	.28
TOTAL	9,000	100%						873.53

REC VALIDATION PROCESS

Compliance Mechanism: FIT Eligible RE Facilities

Example 3: 100% of FIT All Payment; Genco with DCCs (MQ>=BCQ)

Data	Sample Values
Metered Quantity of a FIT Eligible RE Facility (GEN1)	950 MWh
Total MQ of All Customers + DCC MQ	9,500 MWh
Total MQ of DCC1	500 MWh
Total BCQ of DCC1	500 MWh



GENCO	DCC1 BCQ (MWh)
GENCO1	300 MWh
GENCO2	200 MWh

MP	MQ (A)	Share of total MWh from FiT = MQ/Total MQ (B)	FIT ALL				MWh from FiT = Column B * GEN MQ	
			Expected Remittance	Actual Remittance	Unpaid FiT	Payment Efficiency	RECs	Carry Over
DU1	5,000	52.63%	500	500	0	100%	500	0
DU2	2,500	26.32%	250	250	0	100%	250	0
RES1	1,500	15.79%	150	150	0	100%	150	0
GENCO1 (DCC BCQ)	300	3.16%	0	0	0		30	0
GENCO2 (DCC BCQ)	200	2.11%	0	0	0		20	0
TOTAL	9,500	100%						950

REC VALIDATION PROCESS

Compliance Mechanism: FIT Eligible RE Facilities

Example 4: 100% of FIT All Payment; Genco with DCCs (MQ<BCQ)

Pro-rated BCQ = $MQ * BCQ / \text{Total BCQ}$

Data	Sample Values
Metered Quantity of a FIT Eligible RE Facility (GEN1)	950 MWh
Total MQ of All Customers + DCC BCQ (Pro-rated at MQ)	9,300 MWh
Total MQ of DCC1	300 MWh
Total BCQ of DCC1	500 MWh



GENCO	DCC1 BCQ (MWh)	Pro-rated BCQ capped at MQ
GENCO1	300 MWh	180
GENCO2	200 MWh	120

MP	MQ (A)	Share of total MWh from FiT = MQ/Total MQ (B)	FIT ALL				MWh from FiT = Column B * GEN MQ	
			Expected Remittance	Actual Remittance	Unpaid FiT	Payment Efficiency	RECs	Carry Over
DU1	5,000	53.76%	500	500	0	100%	510	0.7526
DU2	2,500	26.88%	250	250	0	100%	255	0.3769
RES1	1,500	16.13%	150	150	0	100%	153	0.2258
GENCO1 (DCC BCQ)	180	1.94%	0	0	0		18	0.3870
GENCO2 (DCC BCQ)	120	1.29%	0	0	0		12	0.2580
TOTAL	9,300	100%						950

REC VALIDATION FORM

RENEWABLE ENERGY CERTIFICATE (REC) VALIDATION FORM

Instruction: Kindly accomplish the following form and upload the electronic copy to <https://180.232.127.59>.

Timestamp: 4/20/2021 7:30 AM

Participant/Company Name:

Participant Short Name:

REM Membership Category (please check all that apply for your organization)

A. Mandated Participants (checked as registered)

1. Distribution Utility (DU) serving Captive Customers

- DU – Private
- DU – Electric Cooperative
- DU – LGU-owned and controlled
- DU – Economic Zone
- Off-Grid Distribution Utilities with respect to their own generation facilities

2. Suppliers for the Contestable Customers

- Retail Electricity Supplier (RES)
- Local RES (LRES)

3. Generation Companies that serve Directly Connected Customers

B. RE Generators (checked as registered)

1. Mandatory Generators

- WESM RE Generator
- Off-Grid RE Generator

2. Voluntary Generators

- Net-Metered RE Generation Facilities
- Embedded Non-WESM Embedded RE Generators
- End-users with RE Generation Facilities for its own use

Billing Period (Mmm YYYY) or Quarter (xQ YYYY): _____

Total No. of Issued RECs per Compliance Mechanism

Compliance Mechanism	No. of RECs issued	Correct (Y/N)	Remarks/ Comments
1. FIT Allocation			
2. Power Supply Agreement with Eligible RE Facility			
3. Others (WESM transaction of eligible non-fit RE facilities)			
4. Net Metering			RECs are not yet issued for these compliance mechanisms.
5. RE Facility for Own Use			
6. Non-WESM member embedded eligible RE facility			

Note:

Companies with Eligible RE facilities that are FIT Eligible will not receive RECs, pursuant to the RPS Rules and REM Rules.

Please use this space for any additional comments/inputs.

This is to confirm that the total RECs issued to _____ (Company/Organization Name) for billing period _____ (e.g. 201801)

Reviewed and Validated by:

Choose an item.
CORRECT.
INCORRECT.

Signature

NAME**

Position

Participant/Company Name

* This form can be signed only by the company's or organization's authorized representative, main contact, or designed REM Compliance Officer.



QUESTION & ANSWER



PROCEDURES ON THE USE OF SECURED FILE TRANSFER PROTOCOL (SFTP) FOR THE SUBMISSION AND RETRIEVAL OF DATA/DOCUMENTS

WHAT IS SFTP?

- Secured File Transfer Protocol (SFTP) is a secure method for transferring files between two computers.
- Setup by PEMC to facilitate the receiving and sending of documents relating to REC validation to and from REM Participants via a secured platform.
- PEMC SFTP websites:
Outgoing server: <https://180.232.127.58>
Incoming server: <https://180.232.127.59>

SFTP OUTGOING SERVER

Data Flow: RE Registrar to REM Participants

The SFTP **Outgoing Server** allows participants to **VIEW** and/or **DOWNLOAD** the data provided by the RE Registrar for REC validation.

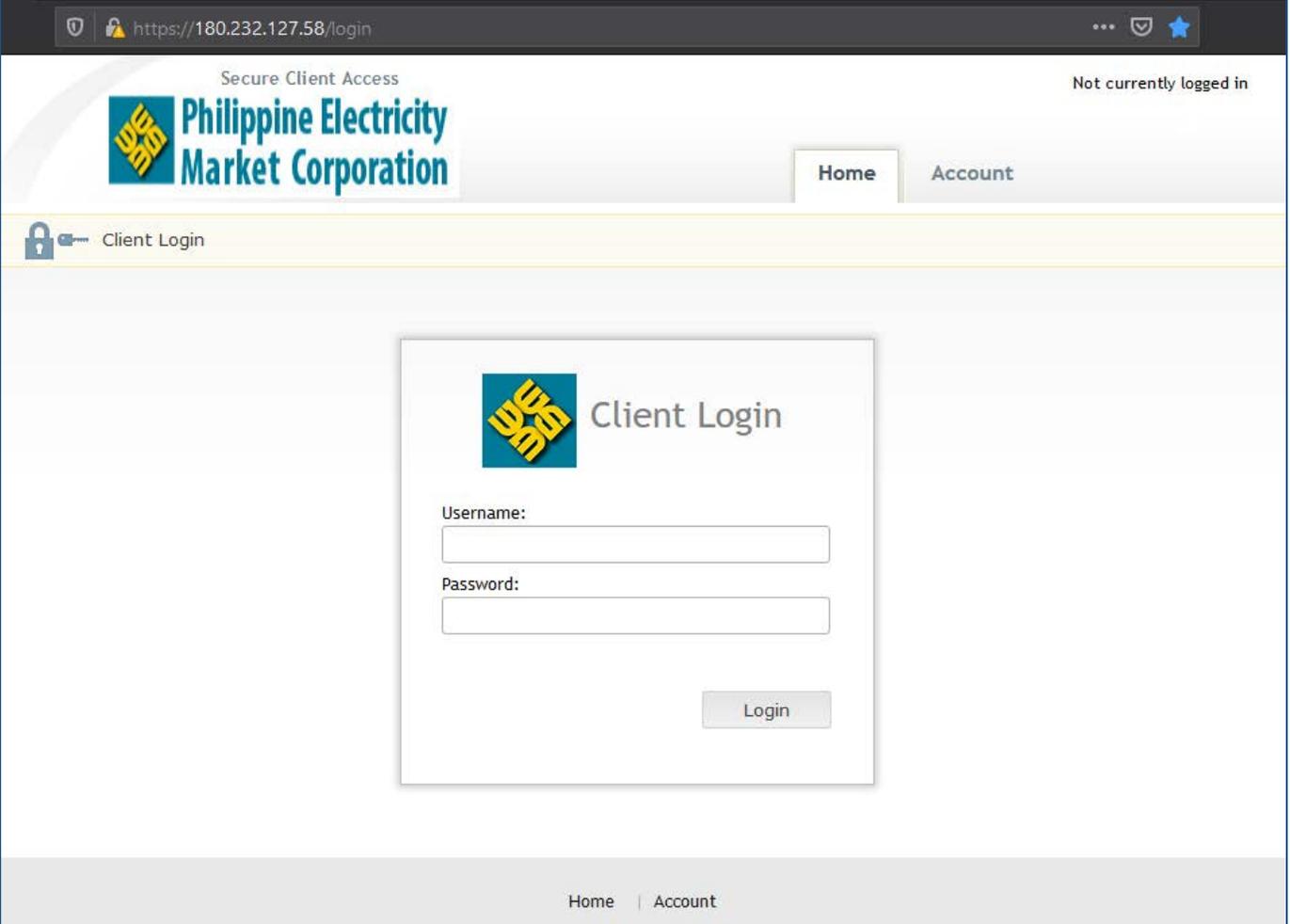
To view or download data or document, participants must follow these steps:

Step 1 – Open a browser (recommended is Mozilla Firefox).

Step 2 – Type **https://180.232.127.58** in the URL box and log-in using:

Username: ABRECO_01

Default Password: PemC1234



The screenshot displays a web browser window with the URL <https://180.232.127.58/login>. The page header includes the PEMC logo and the text "Secure Client Access" and "Not currently logged in". Navigation links for "Home" and "Account" are visible. A "Client Login" section contains a form with the following fields:

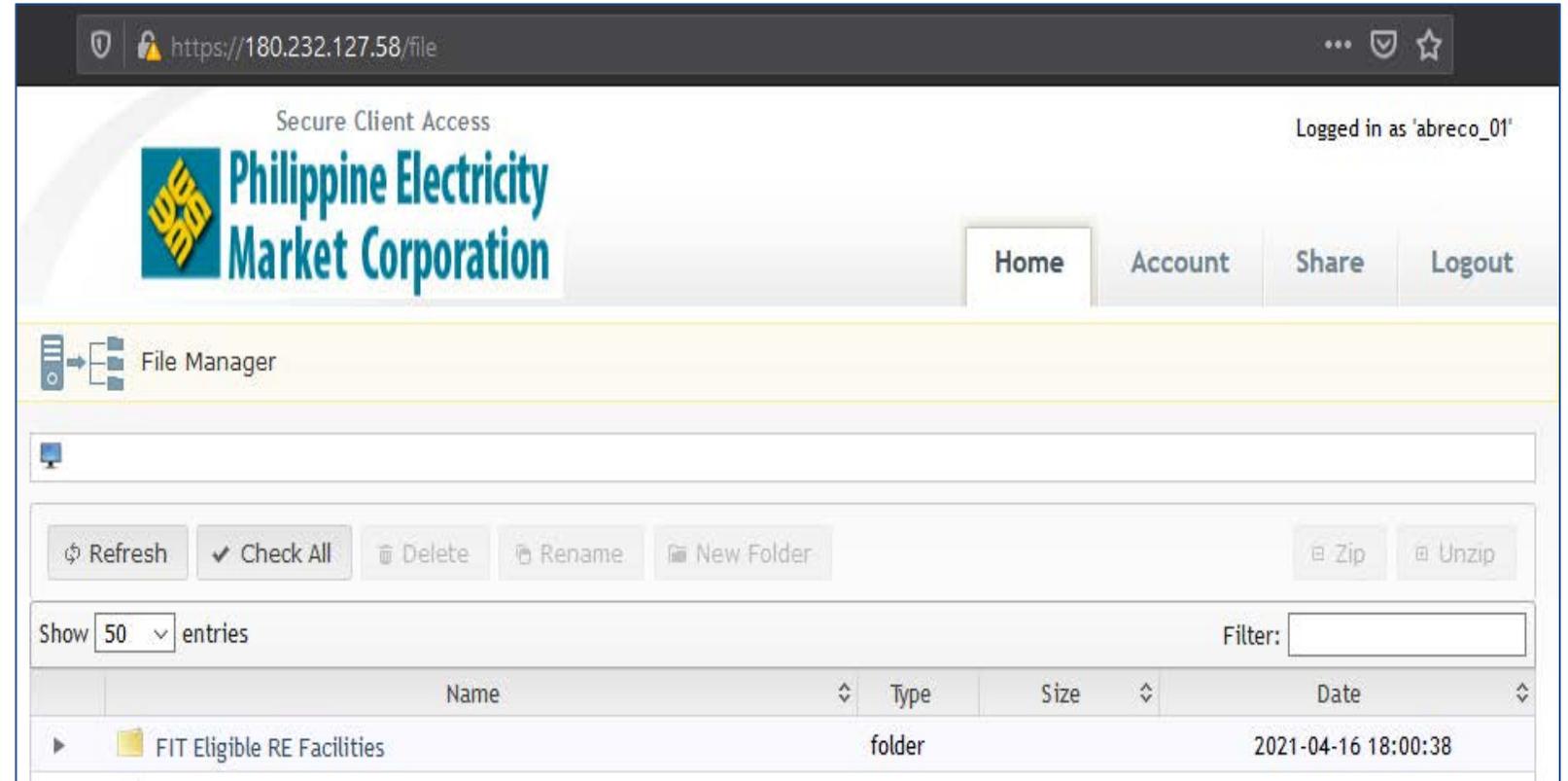
- Username:
- Password:
- Login button

SFTP OUTGOING SERVER

Data Flow: RE Registrar to REM Participants

Upon successful log-in, the user will see the **folder on FIT Eligible RE Facilities**.

This folder contains file(s) with data needed for the validation of RECs for FIT eligible RE facilities compliance mechanism, as previously discussed.



Secure Client Access

Logged in as 'abreco_01'

Philippine Electricity Market Corporation

Home Account Share Logout

File Manager

Refresh Check All Delete Rename New Folder Zip Unzip

Show 50 entries Filter:

Name	Type	Size	Date
FIT Eligible RE Facilities	folder		2021-04-16 18:00:38

SFTP OUTGOING SERVER

Data Flow: RE Registrar to REM Participants

Step 3 – Click the folder “FIT Eligible RE Facilities” to view available files for download.

- Metered Quantity of each FIT Eligible Facility
- Total MQ of Customers
- Total BCQ of All Generators with DCC and Total MQ all of DCCs

Step 4 – Click the file to directly download the file or click the little arrow in the left side of the file and then click the “Download” button.

The screenshot shows the PEMC Secure Client Access interface. The user is logged in as 'abreco_01'. The interface displays a file manager for the directory 'FIT Eligible RE Facilities'. The file 'Total MQ of Customers.xlsx' is selected, and the 'Download' button is highlighted. The file details are as follows:

Name	Type	Size	Date
Go Up One Folder	up		
Total MQ of Customers.xlsx	file	8 KB	2021-04-19 16:44:06
Total BCQ of All Generators with DCC and Total MQ ...	file	8 KB	2021-04-19 16:44:14
Test File.docx	file	12 KB	2021-04-19 02:23:43
MQ of each FIT Eligible Facility.xlsx	file	9 KB	2021-04-19 16:42:20

SFTP INCOMING SERVER

Data Flow: REM Participants to RE Registrar

The **SFTP Incoming Server** allows the participants to **UPLOAD** the accomplished REC Validation Form and other applicable documents necessary to submit to the RE Registrar.

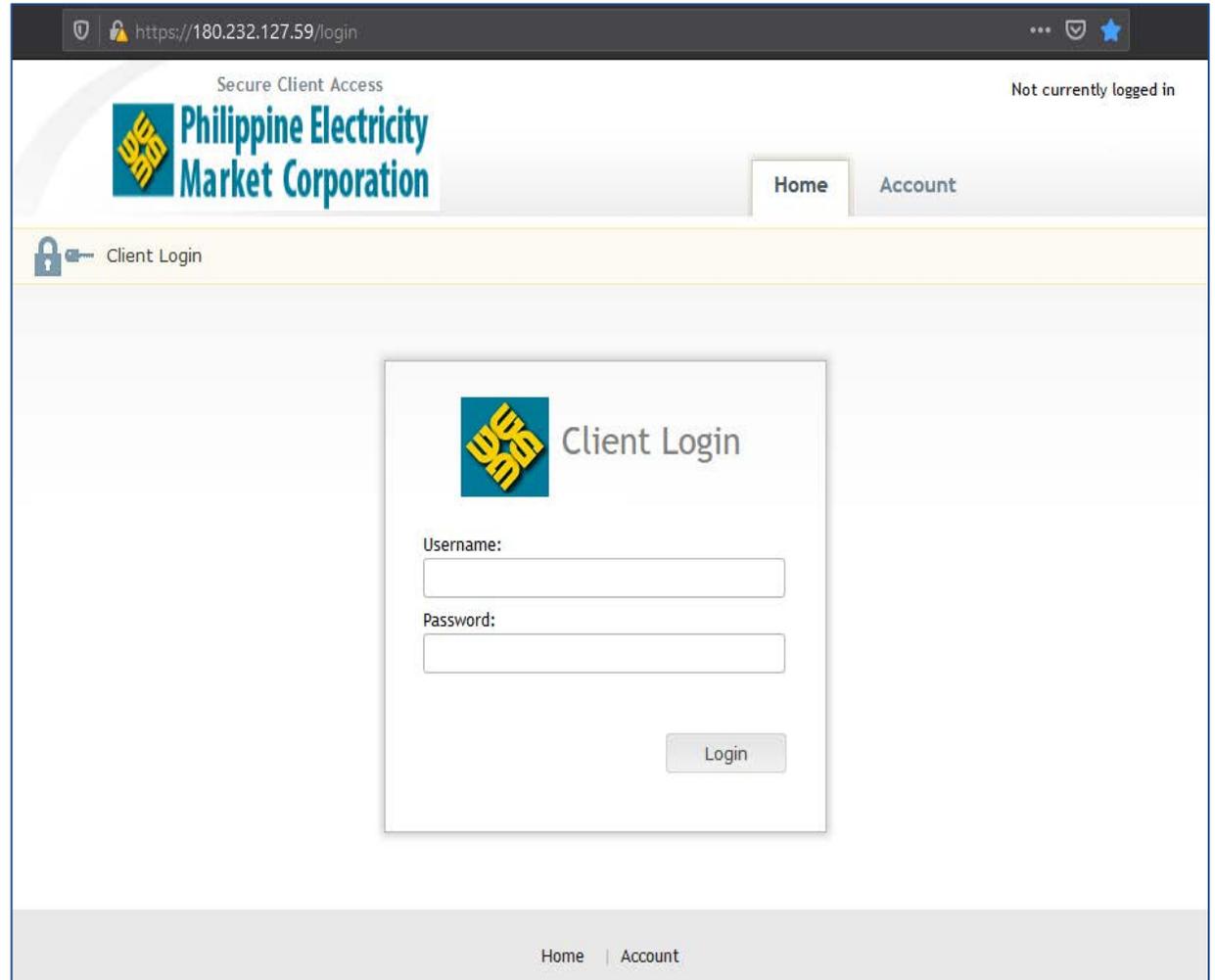
To upload a document, participants must follow these steps:

Step 1 – Open a browser (recommended is Mozilla Firefox).

Step 2 – Type **https://180.232.127.59** in the URL box and log-in using:

Username: ABRECO_01

Default Password: PemC1234



The screenshot shows a web browser window with the URL <https://180.232.127.59/login>. The page title is "Secure Client Access" and the logo for "Philippine Electricity Market Corporation" is visible. The page is not currently logged in. There are navigation links for "Home" and "Account". A "Client Login" section is present, featuring a login form with the PEMC logo, "Client Login" text, and input fields for "Username:" and "Password:". A "Login" button is located below the password field. At the bottom of the page, there are links for "Home" and "Account".

SFTP INCOMING SERVER

Data Flow: REM Participants to RE Registrar

Upon successful log-in, the user will see three folders in the account:

- Accepted – contains all successfully uploaded files.
- Outgoing – is where the files will be uploaded.
- Rejected – contains files with incorrect filename format.

Secure Client Access
Logged in as 'abreco_01'

Philippine Electricity Market Corporation

Home Account Share Logout

File Manager

Refresh Check All Delete Rename New Folder Zip Unzip

Show 10 entries Filter:

Name	Type	Size	Date
Accepted	folder		2021-04-13 10:42:23
Outgoing	folder		2021-04-16 19:41:39
Rejected	folder		2021-04-13 10:42:38

Showing 1 to 3 of 3 entries

First Previous 1 Next Last

SFTP INCOMING SERVER

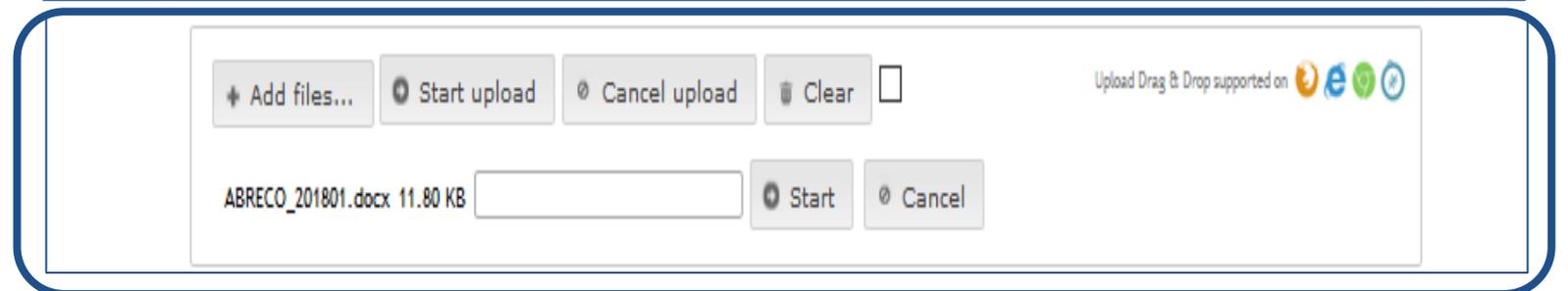
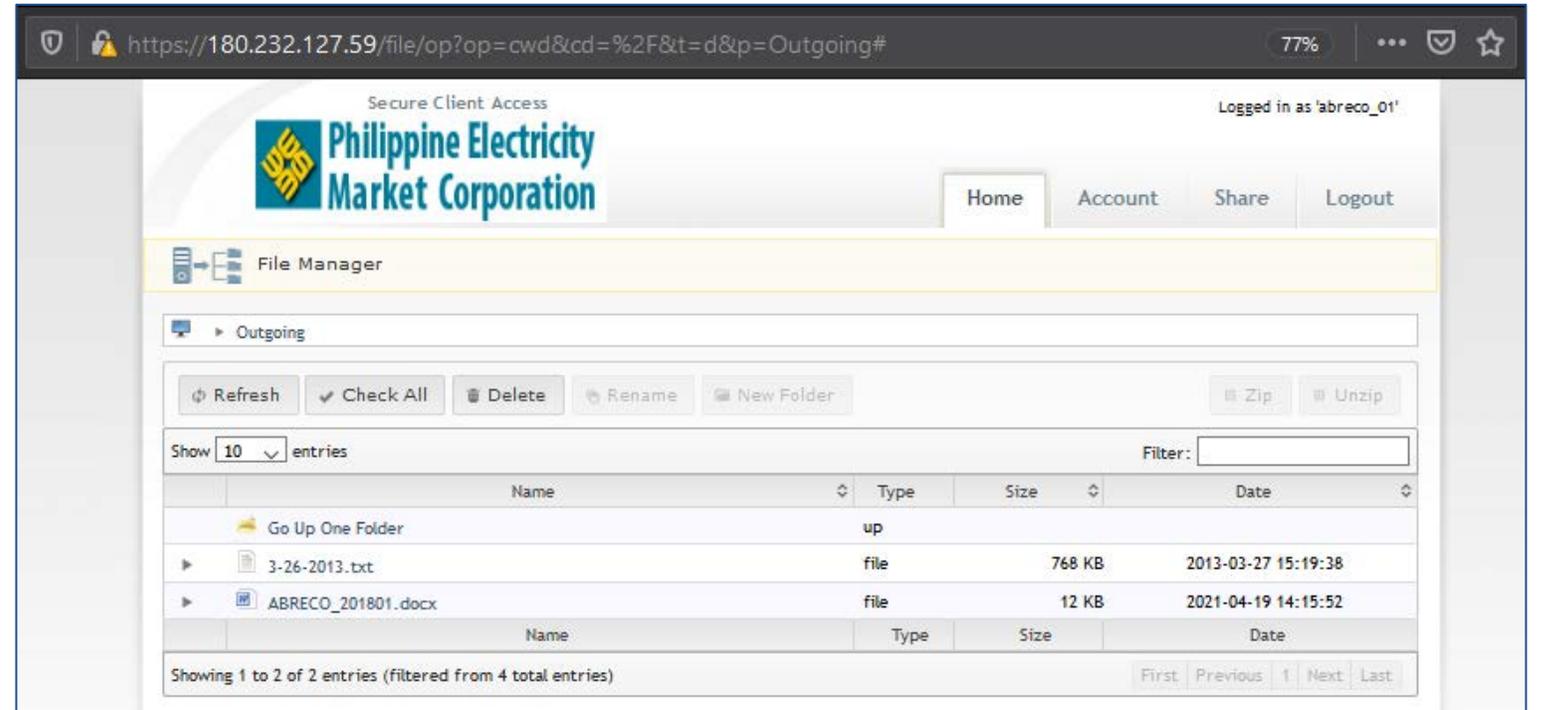
Data Flow: REM Participants to RE Registrar

Step 3 – Click the Outgoing folder.

Step 4 – Click the “Add file” button or use the “Upload Drag & Drop” option.

Step 5 – Once the file(s) to be submitted has been added, click the “Start” button to start uploading the file(s).

Note: successfully uploaded document will be shown in the “Accepted” folder. Otherwise, it will be shown in the “Rejected” folder.



SFTP CHANGE PASSWORD

Participants are required to change the password upon first time log-in for both incoming and outgoing servers.

To change password, log-in first using the provided credentials and then click “Account” and then click “Change Password”.

Secure Client Access

Logged in as 'abreco_01'

Philippine Electricity Market Corporation

Home Account Share Logout

Account Settings

User Account for "abreco_01"

You can update your account from this page

User Name
Account user name abreco_01

First Name
Your first name ABRECO_01

Last Name
Your last name

Email
A valid email address

Telephone

Address Book Change Password

Home | Account | Share

SFTP GUIDELINES

- Participants should submit/upload the accomplished and signed REC Validation Form **via SFTP (incoming server)** in PDF format.
- The filename of the document should indicate the Participant Name and relevant billing period (e.g., ABRECO_201801, PELCO2_201801).
- If the facility becomes temporarily unavailable or cannot be accessed by the RE Registrar or the REM Participants, the documents and other related files may be submitted through email to or from the RE Registrar and vice versa at reregistrar@wesm.ph.
- A Work Instruction on How to use the SFTP is available for download at www.wesm.ph.

LIST OF REFERENCE DOCUMENTS

All documents are available at www.wesm.ph/downloads

1. REM Rules
2. REC Validation Form
3. REC Validation Guide
4. Work Instruction on the Secured File Transfer Protocol
5. PREMS User Manual

HELPDESK SUPPORT

- Participants who will encounter problems accessing the PREMS and/or the SFTP ,or with questions on the REC validation, should send an email to reregistrar@wesm.ph or call the following personnel:

Membership Category	RER Personnel In-Charge	Contact Number
DUs and RES	Ms. Zelle Macabenta	0939-927-7404
	Mr. Marlo Delizo	0936-304 2117
REM Generators and Generators Serving DCCs	Mr. Aldrin Reyes	0949-452-7743

FOR MORE INFORMATION ABOUT THE REM

VISIT : <https://www.wesm.ph/market-development/re-market>

FOR INQUIRIES, please contact:

Corporate Planning and Communications Department
Philippine Electricity Market Corporation

Address: 18F, Robinsons Equitable Tower, ADB Avenue Ortigas
Center Pasig City.

Email: reregistrar@wesm.ph

Telephone Number: (02) 8631-8734 local 359 or 316



Philippine Electricity
Market Corporation

CONNECT WITH

PEMC



pemc.info@wesm.ph



+63 2 8631 8734



18F Robinsons Equitable Tower, ADB Avenue
Ortigas Center, Pasig City 1600, Philippines



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