



**Philippine Electricity
Market Corporation**

RENEWABLE ENERGY CERTIFICATE (REC) VALIDATION GUIDE

Document ID : CPC.REM.02
Document Information : PUBLIC
Classification
Issue No. : 1
Effective Date : 19 April 2021

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 2 of 19



Table of Contents

1.0	PURPOSE OF THE DOCUMENT	3
2.0	REC ISSUANCE PRINCIPLES	3
2.1	REC ASSIGNMENT	3
2.2	REC ISSUANCE BASED ON REM RULES	4
3.0	REC ISSUANCE SCENARIO & VALIDATION GUIDE	6
3.1.	Allocation for WESM Non-FIT Eligible Facilities and PSA	6
3.2.	Allocation for FiT RE Generation among the Mandated Participants	10
4.0	SUBMISSION OF REC VALIDATION FORM	17



RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 3 of 19

1.0 PURPOSE OF THE DOCUMENT

This document provides the procedures on how to validate the renewable energy certificates issued to REM participants.

2.0 REC ISSUANCE PRINCIPLES

2.1 REC ASSIGNMENT

REM Rules Provision	Mechanism	REC Owner
<p>3.1.1.6</p> <p>If the Renewable Electricity generated by a REM Generator is under the FiT, then the Registrar shall issue any RECs created thereof to the Mandated Participants pursuant to allocation methodology provided in Clause 3.2.</p>	FiT Allocation	Mandated Participants
<p>3.1.1.4</p> <p>With consideration of Clause 3.1.4, if the Renewable Electricity generated by a REM Generator is covered by a Power Supply Agreement then the Registrar shall issue any RECs created thereof to the On-Grid Mandated Participants or Off-Grid Mandated Participants who are the counterparties to such Power Supply Agreements.</p>	Power Supply Agreement	Load Counterparty, Retail Electricity Suppliers
<p>3.1.1.5</p> <p>If the Renewable Electricity generated by a REM Generator is covered by a Power Supply Agreement where the consuming counterparty is a Directly Connected Customer, then the Registrar shall issue any RECs created thereof to the Mandated Participant who is the generating counterparty.</p>	Power Supply Agreement	Generating Participant



RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 4 of 19

<p>3.1.1.7</p> <p>If the Renewable Electricity is generated by a Net-Metered RE Generator or by a RE Generation Facility for the end-user’s own-use then the Registrar shall issue any RECs created thereof to the On-Grid Mandated Participant who is the host Distribution Utility of such facility. Provided, that for the Net-Metered RE Generator, the host Distribution Utility is also the counterparty to the relevant Net-Metering Agreement.</p>	<p>Voluntary Generator</p>	<p>Host Distribution Utilities</p>
<p>3.1.1.8</p> <p>If the Renewable Electricity generated by a WESM RE Generator is not covered by a Power Supply Agreement and is generated into the WESM pool, then the Registrar shall:</p> <p>(a) If the entity who has registered the WESM RE Generator is also registered as a Generation Company, issue any RECs created thereof to that Generation Company</p>	<p>Others</p>	<p>Generating Participant</p>

2.2 REC ISSUANCE BASED ON REM RULES

1. The Registrar shall issue one REC for every mega-watt hour (MWh) of Renewable Electricity generated by eligible REM Generators.
2. If a REM Generator is a Partially Eligible Facility, then for any Renewable Electricity generated by that REM Generator, the Registrar shall only issue RECs for the Eligible Capacity. The Eligible Metered Quantity is derived as the maximum of:
 - (i) Zero; and
 - (ii) The product of the hourly Metered Quantity and the Eligible Capacity of the WESM RE Generator divided by the WESM RE Generator’s registered capacity

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 5 of 19



3. The Registrar shall determine the following quantities for each WESM RE Generator that is not a Multi-Fuel Hybrid System in respect of a WESM Billing Period:
 - (a) The Total Unbundled WESM Quantity as the difference between:
 - (i) The WESM RE Generator's total monthly Eligible Metered Quantity; and
 - (ii) The sum of the Eligible Bilateral Contract Quantity Declarations calculated under Clause 3.1.4.5 (b);
 - (b) The Total Adjusted Unbundled WESM Quantity as the sum of:
 - (i) The Total Unbundled WESM Quantity calculated for the WESM RE Generator
 - (ii) The Carry-Over WESM Quantity calculated for the WESM RE Generator in respect of previous WESM Billing Periods; and
 - (iii) Any adjustments calculated under REM Rules Clause 3.1.7.
 - (c) The Monthly Unbundled WESM RECs as the smallest integer quantity that represents the nearest whole MWH value to the Total Adjusted Unbundled WESM Quantity
 - (d) The Carry-Over WESM Quantity as:
 - (i) The Total Adjusted Unbundled WESM Quantity calculated; minus
 - (ii) The Monthly Unbundled WESM RECs calculated
4. The Registrar shall determine the following quantities in respect of a WESM Billing Period for each WESM RE Generator that is not a Multi-Fuel Hybrid System and for each On-Grid Mandated Participant that has a Power Supply Agreement with that WESM RE Generator:
 - (a) The Total Bundled WESM Quantity as the On-Grid Mandated Participant's Attributable Bundled WESM Generation in respect of the WESM RE Generator calculated under Clause 3.1.4.5(c).
 - (b) The Total Adjusted Bundled WESM Quantity as the sum of:
 - (i) The Total Bundled WESM Quantity calculated for the On-Grid Mandated Participant under paragraph (a);



RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 6 of 19

- (ii) The Carry-Over Quantity for the On-Grid Mandated Participant calculated in respect of the WESM RE Generator for previous WESM Billing Periods; and
 - (iii) Any adjustments calculated under Clause 3.1.7.
- (c) The Monthly Bundled WESM RECs as the smallest integer quantity that represents the nearest whole MWh value to the Total Adjusted Bundled WESM Quantity determined.
- (d) The Carry-Over Quantity as:
- (i) The Total Adjusted Bundled WESM Quantity calculated; minus
 - (ii) The Monthly Bundled WESM RECs calculated

3.0 REC ISSUANCE SCENARIO & VALIDATION GUIDE

This section provides guidance on how to validate the issued RECs based on different scenarios and assumptions.

3.1. Allocation for WESM Non-FIT Eligible Facilities and PSA

No.	Case & Assumption	Example	REC Owner and No. of RECs	Validation Process						
1	Case 1: Eligible RE Facility (GEN1) has no declared BCQ and is not partially eligible (i.e. registered capacity= eligible capacity)	Total MQ of GEN1 for Billing Period N = 27,100.5789 MWh	<table border="1"> <thead> <tr> <th>REC Owner</th> <th>No. of RECs</th> <th>Carry Over</th> </tr> </thead> <tbody> <tr> <td>GEN1</td> <td>27,100</td> <td>0.5789</td> </tr> </tbody> </table>	REC Owner	No. of RECs	Carry Over	GEN1	27,100	0.5789	GEN1 can view and validate its MQ and issued RECs via PREMS.
REC Owner	No. of RECs	Carry Over								
GEN1	27,100	0.5789								

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 7 of 19



Philippine Electricity
Market Corporation

2.	<p>Case 2: Eligible RE Facility (GEN2) has no declared BCQ and is partially eligible</p> <p>Assumptions: 1. No declared BCQ data 2. Facility is partially eligible</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) = 27,100*(70/50)</p> <p>Eligible MQ= 19,357.1428 MWh</p>	<table border="1"> <thead> <tr> <th>REC Owner</th> <th>No. of RECs</th> <th>Carry Over</th> </tr> </thead> <tbody> <tr> <td>GEN2</td> <td>19,357</td> <td>0.1428</td> </tr> </tbody> </table>	REC Owner	No. of RECs	Carry Over	GEN2	19,357	0.1428	<p>GEN2 can view and validate its MQ and issued RECs via PREMS.</p> <p>To know the eligible and registered capacity, go to Registration and Contracts Management>Facility information page.</p>												
REC Owner	No. of RECs	Carry Over																				
GEN2	19,357	0.1428																				
3	<p>Case 3: Eligible RE Facility (GEN3) has declared BCQ data</p> <p>Assumptions: Facility is not partially eligible Total MQ <= Total BCQ Counterparties: 3</p>	<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: $REC_{N1} = MQ_{Gen3} * (BCQ_{N1} / \sum BCQ)$</p>	<table border="1"> <thead> <tr> <th>REC Owner</th> <th>No. of RECs</th> <th>Carry Over</th> </tr> </thead> <tbody> <tr> <td>DU1</td> <td>9,624</td> <td>0.0601</td> </tr> <tr> <td>DU2</td> <td>2,887</td> <td>0.2180</td> </tr> <tr> <td>RES1</td> <td>288</td> <td>0.7218</td> </tr> <tr> <td>GEN3</td> <td>0</td> <td>0</td> </tr> <tr> <td>Total no. of RECs</td> <td colspan="2">12,800</td> </tr> </tbody> </table> <p>Total number of issued RECs and Carry Over values should be equal to the total MQ of the eligible RE facility.</p>	REC Owner	No. of RECs	Carry Over	DU1	9,624	0.0601	DU2	2,887	0.2180	RES1	288	0.7218	GEN3	0	0	Total no. of RECs	12,800		<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 generator counterparty The total number of issued RECs reflected in PREMS>REC Summary page.
REC Owner	No. of RECs	Carry Over																				
DU1	9,624	0.0601																				
DU2	2,887	0.2180																				
RES1	288	0.7218																				
GEN3	0	0																				
Total no. of RECs	12,800																					

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 8 of 19



Philippine Electricity
Market Corporation

4	<p>Case 4: Eligible RE Facility (GEN4) has declared BCQ data</p> <p>Assumptions: Total MQ <= Total BCQ Counterparties: 3 Facility is partially eligible</p> <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: 1. Compute for the eligible MQ Eligible MQ=(MQ*Ecap/RegCap)</p> <p>2. Pro-rate eligible MQ using Formula 2, as follows:</p> <p>$REC_{N1} = \text{Eligible MQ}_{\text{Gen4}} * (\text{BCQ}_{N1} / \sum \text{BCQ})$</p>	<p>Eligible MQ= $MQ * (\text{Ecap} / \text{RegCap})$ = $12,800 * (50/70)$ = 9,142.8571 MWh</p> <table border="1" data-bbox="1137 552 1581 836"> <thead> <tr> <th>REC Owner</th> <th>No. of 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 no. of RECs</td> <td colspan="2">9,142.8571</td> </tr> </tbody> </table> <p>Carry over quantity- will be reflected in the next issuance.</p>	REC Owner	No. of RECs	Carry Over	DU1	6,874	0.3286	DU2	2,062	0.2985	RES1	206	0.2298	GEN4	0	0	Total no. of 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"> 1. RECs validated by its generator counterparty 2. The total number of issued RECs reflected in PREMS>REC Summary page.
REC Owner	No. of RECs	Carry Over																				
DU1	6,874	0.3286																				
DU2	2,062	0.2985																				
RES1	206	0.2298																				
GEN4	0	0																				
Total no. of RECs	9,142.8571																					
5	<p>Case 5: Eligible RE Facility (GEN5) has declared BCQ data</p> <p>Assumptions: Total MQ > Total BCQ Counterparties:3 Facility is not partially eligible</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= 4,000 MWh</p> <p>Pro-rating of BCQ does not apply if MQ> BCQ.</p>	<table border="1" data-bbox="1137 999 1581 1273"> <thead> <tr> <th>REC Owner</th> <th>No. of RECs</th> <th>Carry Over</th> </tr> </thead> <tbody> <tr> <td>DU1</td> <td>5,000</td> <td>0</td> </tr> <tr> <td>DU2</td> <td>100</td> <td>0</td> </tr> <tr> <td>RES1</td> <td>4,000</td> <td>0</td> </tr> <tr> <td>GEN5</td> <td>3,700</td> <td>0</td> </tr> <tr> <td>Total no. of RECs</td> <td colspan="2">12,800</td> </tr> </tbody> </table>	REC Owner	No. of RECs	Carry Over	DU1	5,000	0	DU2	100	0	RES1	4,000	0	GEN5	3,700	0	Total no. of 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"> 1. RECs validated by its generator counterparty <p>The total number of issued RECs reflected in</p>
REC Owner	No. of RECs	Carry Over																				
DU1	5,000	0																				
DU2	100	0																				
RES1	4,000	0																				
GEN5	3,700	0																				
Total no. of RECs	12,800																					

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 9 of 19



Philippine Electricity
Market Corporation

				PREMS>REC Summary page.																		
6	<p>Case 6: Eligible RE Facility (GEN6) has declared BCQ data</p> <p>Assumptions: Total MQ > Total BCQ Facility is partially eligible</p> <p>Registered Capacity= 70 MW Eligible Capacity= 50 MW</p> <p>3. Counterparties: 3</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= 4,000 MWh</p> <p>Steps:</p> <ol style="list-style-type: none"> Determine the eligible MQ: Eligible MQ=MQ* (Eligible Capacity/ RegCap) Compute for the RECs per participant <p>$REC_{N1} = BCQ_{N1} * (\text{Eligible Capacity} / \text{Registered Capacity})$</p> <p>Pro-rating of BCQ does not apply if MQ > BCQ.</p>	<table border="1"> <thead> <tr> <th>REC Owner</th> <th>No. of RECs</th> <th>Carry Over</th> </tr> </thead> <tbody> <tr> <td>DU1</td> <td>3,571</td> <td>0.4286</td> </tr> <tr> <td>DU2</td> <td>71</td> <td>0.4285</td> </tr> <tr> <td>RES1</td> <td>2,857</td> <td>0.1482</td> </tr> <tr> <td>GEN6</td> <td>2,642</td> <td>0.8571</td> </tr> <tr> <td>Total no. of RECs</td> <td colspan="2">9,142.8571</td> </tr> </tbody> </table>	REC Owner	No. of RECs	Carry Over	DU1	3,571	0.4286	DU2	71	0.4285	RES1	2,857	0.1482	GEN6	2,642	0.8571	Total no. of 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 generator counterparty The total number of issued RECs reflected in PREMS>REC Summary page.
REC Owner	No. of RECs	Carry Over																				
DU1	3,571	0.4286																				
DU2	71	0.4285																				
RES1	2,857	0.1482																				
GEN6	2,642	0.8571																				
Total no. of RECs	9,142.8571																					

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 10 of 19



3.2. Allocation for FiT RE Generation among the Mandated Participants

1. The allocation of the monthly FiT Generation for each Mandated Participant will be in the proportion of their monthly metered energy quantities to the metered energy quantities of all the Mandated Participants, the Bilateral Contract Quantity of Directly Connected Customers, and percentage level of FiT All remittance for the corresponding month.
2. Incremental MWH from FiT-eligible RE facilities resulting from
 - i. Unpaid FiT All by the On-grid Mandated Participant due to non-payment of the FiT All by its end users; and
 - ii. Sourcing of Directly Connected Customers of its supply from the WESMshall be apportioned to the Mandated Participants based on their monthly metered energy quantity.
3. Incremental or fractional MWH from FiT allocation for a particular month will be carried over into the next WESM Billing Period's RECs issuance.
4. FiT RE MWH with respect to unpaid FiT-All by Mandated Participant due to failure to remit the collected FiT-All payment will be carried over to the month when the FiT-All obligation is fully paid provided that the said month is not later than 3 years¹ from the corresponding WESM Billing Period.
5. The Generation Companies who are counterparties of Directly Connected Customers shall be issued with corresponding FiT generation RECs based on their aggregated Bilateral Contract Quantities with the latter.
6. For the case wherein the aggregated Bilateral Contract Quantities exceeds the Metered Quantity of Directly Connected Customer (DCC), the allocation of the FiT-eligible RE generation should correspond to the Metered Quantity apportioned based on the ratio of the individual Bilateral Contract Quantities and the aggregated Bilateral Contract Quantities. Otherwise, it should correspond to the Bilateral Contract Quantities.

¹ Subject to DOE finalization and issuance

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 11 of 19



FIT Allocation Formula

$$REC_{m,i} = [MWH_a + FCO_{m-1} + MWH_{inc}]$$

Equation 1. Mathematical Formula for allocation of RECs from FiT Generation

Where:	$REC_{m,i}$	is the <i>Monthly FiT Generation Share</i> equivalent to the total number of RECs of a <i>Mandated Participant i</i> for month m
	MWH_a	is the MWH from FiT allocated to <i>Mandated Participant i</i> in respect of its <i>Metered Quantity</i> and <i>FiT-All Tariff</i> payment in respect of month m
	FCO_{m-1}	is the fractional MWH from FiT allocated to <i>Mandated Participant i</i> from the previous month ($m - 1$)
	MWH_{inc}	is the MWH from FiT allocated to <i>Mandated Participant i</i> equivalent to the integer value of the sum of its incremental MWH according to Section 2.3.2 (a) <i>item ii</i> and Section 2.3.2 (b)



RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 12 of 19

FIT ALLOCATION EXAMPLES AND VALIDATION PROCESS

To manually validate the issued RECs, REM participants will be provided with an excel file containing the FIT allocation formula and the following data via SFTP or PREMS, as applicable.

Data	Who can view the Data	Where to View 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 in compliance with the WESM Market Operator Information Disclosure and Confidentiality Manual
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 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	Available via PREMS	PREMS- Import Data> Import FIT ALL> Select Filter, Choose billing period and "Confirmed" Status

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 13 of 19



Sample Cases

No.	Case & Assumption	Example & REC Owner and No. of RECs																																																					
1	<p>Case 1:</p> <p>All Mandated Participants paid in full and remitted all of the FIT-All Tariff for the month</p>	<p>MQ of FIT Eligible Generator = 950 MWh Total Customer MQ = 9,000 MWh</p> <table border="1"> <thead> <tr> <th>MP</th> <th>MQ</th> </tr> </thead> <tbody> <tr> <td>DU1</td> <td>5,000</td> </tr> <tr> <td>DU2</td> <td>2,500</td> </tr> <tr> <td>RES1</td> <td>1,500</td> </tr> </tbody> </table>		MP	MQ	DU1	5,000	DU2	2,500	RES1	1,500	<p>Formula:</p> <p>1. Column B- Share of Total MWh = Customer MQ / Total MQ</p> <p>2. MWh from FIT = Share of Total MWh * FIT Eligible Gen MQ</p>																																											
MP	MQ																																																						
DU1	5,000																																																						
DU2	2,500																																																						
RES1	1,500																																																						
		<table border="1"> <thead> <tr> <th rowspan="2">MP</th> <th rowspan="2">MQ (A)</th> <th rowspan="2">Share of total MWH (B)</th> <th colspan="4">FIT ALL</th> <th colspan="2">MWh from FIT = Column B * GEN MQ</th> </tr> <tr> <th>Expected Remittance</th> <th>Actual Remittance</th> <th>Unpaid FIT</th> <th>Payment Efficiency</th> <th>RECs</th> <th>Carry Over</th> </tr> </thead> <tbody> <tr> <td>DU1</td> <td>5,000</td> <td>55%</td> <td>500</td> <td>500</td> <td>0</td> <td>100%</td> <td>522</td> <td>0.50</td> </tr> <tr> <td>DU2</td> <td>2,500</td> <td>28%</td> <td>250</td> <td>250</td> <td>0</td> <td>100%</td> <td>266</td> <td>0.00</td> </tr> <tr> <td>RES1</td> <td>1,500</td> <td>17%</td> <td>150</td> <td>150</td> <td>0</td> <td>100%</td> <td>161</td> <td>0.50</td> </tr> <tr> <td>TOTAL</td> <td>9,000</td> <td>100%</td> <td></td> <td></td> <td></td> <td></td> <td colspan="2">950</td> </tr> </tbody> </table>	MP	MQ (A)	Share of total MWH (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			
MP	MQ (A)	Share of total MWH (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																																																

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 14 of 19



No.	Case & Assumption	Example & REC Owner and No. of RECs																																																																			
2	Case 2: FIT All Payment Efficiency is less than 100%	<table border="1"> <thead> <tr> <th>MP</th> <th>MQ</th> </tr> </thead> <tbody> <tr> <td>DU1</td> <td>5,000</td> </tr> <tr> <td>DU2</td> <td>2,500</td> </tr> <tr> <td>RES1</td> <td>1,500</td> </tr> </tbody> </table>		MP	MQ	DU1	5,000	DU2	2,500	RES1	1,500	<table border="1"> <thead> <tr> <th rowspan="2">MP</th> <th rowspan="2">MQ (A)</th> <th rowspan="2">Share of total MWH (B)</th> <th colspan="4">FIT ALL</th> <th colspan="2">MWh from FiT =Column B * GEN MQ * Payment Efficiency</th> </tr> <tr> <th>Expected Remittance</th> <th>Actual Remittance</th> <th>Unpaid FiT</th> <th>Payment Efficiency</th> <th>RECs</th> <th>Carry Over</th> </tr> </thead> <tbody> <tr> <td>DU1</td> <td>5,000</td> <td>55%</td> <td>500</td> <td>450</td> <td>100</td> <td>90%</td> <td>470</td> <td>0.25</td> </tr> <tr> <td>DU2</td> <td>2,500</td> <td>28%</td> <td>250</td> <td>250</td> <td>0</td> <td>100%</td> <td>266</td> <td>0.00</td> </tr> <tr> <td>RES1</td> <td>1,500</td> <td>17%</td> <td>150</td> <td>127.5</td> <td>75</td> <td>85%</td> <td>137</td> <td>0.28</td> </tr> <tr> <td>TOTAL</td> <td>9,000</td> <td>100%</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>873.53</td> </tr> </tbody> </table>					MP	MQ (A)	Share of total MWH (B)	FIT ALL				MWh from FiT =Column B * GEN MQ * Payment Efficiency		Expected Remittance	Actual Remittance	Unpaid FiT	Payment Efficiency	RECs	Carry Over	DU1	5,000	55%	500	450	100	90%	470	0.25	DU2	2,500	28%	250	250	0	100%	266	0.00	RES1	1,500	17%	150	127.5	75	85%	137	0.28	TOTAL	9,000	100%						873.53	<p>FiT RE MWH with respect to unpaid FiT-All by Mandated Participant due to failure to remit the collected FiT-All payment will be carried over to the month when the FiT-All obligation is <u>fully paid</u> provided that the said month is not later than 3 years¹ from the corresponding WESM Billing Period.</p>	
MP	MQ																																																																				
DU1	5,000																																																																				
DU2	2,500																																																																				
RES1	1,500																																																																				
MP	MQ (A)	Share of total MWH (B)	FIT ALL				MWh from FiT =Column B * GEN MQ * Payment Efficiency																																																														
			Expected Remittance	Actual Remittance	Unpaid FiT	Payment Efficiency	RECs	Carry Over																																																													
DU1	5,000	55%	500	450	100	90%	470	0.25																																																													
DU2	2,500	28%	250	250	0	100%	266	0.00																																																													
RES1	1,500	17%	150	127.5	75	85%	137	0.28																																																													
TOTAL	9,000	100%						873.53																																																													

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 15 of 19



No.	Case & Assumption	Example & REC Owner and No. of RECs								
3	Case 3: All Mandated Participants paid in full and remitted all of the FiT-All Tariff for the month MQ of DCC >= DCC of 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 (B)	FIT ALL				MWh from FiT	
					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		



RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 16 of 19

No.	Case & Assumption	Example & REC Owner and No. of RECs							
4	Case 4: All Mandated Participants paid in full and remitted all of the FiT-All Tariff for the month MQ of DCC<= DCC of 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 MWh					
		GENCO2	200 MWh	120 MWh					
MP	MQ (A)	Share of total MWh from FiT (B)	FIT ALL				MWh from FiT		
			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	180	1.94%	0	0	0		18	0.3870	
GENCO2	120	1.29%	0	0	0		12	0.2580	
TOTAL	9,300	100%					950		

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 17 of 19



For the computation by the Participants of FiT RECs, the RE Registrar will provide to the Mandated Participant an excel file containing the FIT allocation formula and the following data:

1. Total MQ of all FIT Eligible RE Generators
2. Total Customer MQ
3. Total BCQ of GENCO with DCC pro-rated at the DCC's MQ, as applicable

Mandated Participants will be able to check its MQ , FIT All payment , as available, via PREMS.

4.0 SUBMISSION OF REC VALIDATION FORM

To confirm the issued RECs, each participant is requested to accomplish the REC Validation Form (attached as Annex A) via SFTP to the RE Registrar. Please refer to the SFTP Work Instruction to know how to upload the form

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 18 of 19



RENEWABLE ENERGY CERTIFICATE (REC) VALIDATION FORM

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

Timestamp: 4/21/2021 1:12 PM	
Participant/Company Name:	
Participant Short Name:	
REM Membership Category <i>(please check all that apply for your organization)</i>	
A. Mandated Participants <i>(checked as registered)</i>	
1. Distribution Utility (DU) serving Captive Customers	
<input type="checkbox"/>	DU – Private
<input type="checkbox"/>	DU – Electric Cooperative
<input type="checkbox"/>	DU – LGU-owned and controlled
<input type="checkbox"/>	DU – Economic Zone
<input type="checkbox"/>	Off-Grid Distribution Utilities with respect to their own generation facilities
2. Suppliers for the Contestable Customers	
<input type="checkbox"/>	Retail Electricity Supplier (RES)
<input type="checkbox"/>	Local RES (LRES)
<input type="checkbox"/>	3. Generation Companies that serve Directly Connected Customers
B. RE Generators <i>(checked as registered)</i>	
1. Mandatory Generators	
<input type="checkbox"/>	WESM RE Generator
<input type="checkbox"/>	Off-Grid RE Generator
2. Voluntary Generators	
<input type="checkbox"/>	Net-Metered RE Generation Facilities
<input type="checkbox"/>	Embedded Non-WESM Embedded RE Generators
<input type="checkbox"/>	End-users with RE Generation Facilities for its own use
Billing Period (Mmm YYYY) or Quarter (xQ YYYY): _____	

RENEWABLE ENERGY CERTIFICATES (RECs) VALIDATION GUIDE

Effective Date : 19-Apr-21

Page : 19 of 19



Total No. of Issued RECs per Compliance Mechanism

Compliance Mechanism	No. of RECs issued	Correct (Y/N)	Remarks (other 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:

1. Companies with Eligible RE facilities that are FIT Eligible will not receive RECs.

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) is Choose an item.

Reviewed and Validated by:

Signature

NAME**

Position

Participant/Company Name

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