

ANNEX A - METADATA

DATA FILE	FREQUENCY/SCHEDULE OF SUBMISSION	DATA FORMAT	FILENAME FORMAT	MODE OF DATA TRANSFER
1. MONTHLY OPERATIONS REPORT - PLANT OPERATIONAL DATA (For Generation Companies)	Monthly ¹ (18 th of the following month)	CSV	GEN_GENNAME1_MOR-GEN-POD_YYYYMM.csv	Via Web Portal
2. MONTHLY OPERATIONS REPORT - GENERATION AND SALES DATA (For Generation Companies)	Monthly (18 th of the following month)	CSV	GEN_GENNAME1_MOR-GEN-GSD_YYYYMM.csv	Via Web Portal
3. MONTHLY OPERATIONS REPORT – DISTRIBUTION UTILITIES (For Distribution Utilities)	Monthly (18 th of the following month)	CSV	DUS_DUNAME1_MOR-DU_YYYYMM.csv	Via Web Portal
4. MONTHLY OPERATIONS REPORT – SUPPLIER PORTFOLIO DATA (For Suppliers/Local Suppliers)	Monthly (18 th of the following month)	CSV	RES_SUPNAME1_RCOA SUPP-A_YYYYMM	Via Web Portal

¹ The cover period for Monthly submission starts from the 26th of the previous month to the 25th of the succeeding month / billing period

5. MONTHLY OPERATIONS REPORT – SUPPLIER SALES DATA (For Suppliers/Local Suppliers)	Monthly (18 th of the following month)	CSV	RES_SUPNAME1_RCOA SUPP-B_YYYYMM	Via Web Portal
6. SHORT RUN MARGINAL COST DATA (For Generation Companies)	Annual (18 th of January)	CSV	GEN_GENNAME1_SRMC_YYYY.csv	Via Web Portal
7. COST OF NEW ENTRY DATA (For Generation Companies)	Annual (18 th of January)	CSV	GEN_GENNAME1_CONE_YYYY.csv	Via Web Portal
8. NET REVENUE DATA (For Generation Companies)	Annual (18 th of January)	CSV	GEN_GENNAME1_NR_YYYY.csv	Via Web Portal

A.1 DEFINITIONS FOR MONTHLY OPERATIONS REPORT - PLANT OPERATIONAL DATA

FIELD NAME	DESCRIPTION
Resource ID	Registered resource ID used in the Wholesale Electricity Spot Market (WESM).

Rated Capacity ² , MW	The full-load continuous gross capacity of a unit under the specified conditions, as calculated from the electric generator nameplate based on the rated Power Factor.
Maximum Stable Load (Pmax) ³ , MW	The maximum demand in MW that a generating unit, or generating block or module in the case of a combined cycle power plant, can reliably sustain for an indefinite period of time, based on the generator capability tests.
Gross Generation, MWh	Amount of energy generated as metered, by a unit in a given billing period which include station used.
Total Station Used, MWh	Part of the generated energy used to power loads within plant facility in a given billing period.
Operating Hours	Total number of hours in in-service ⁴ state in a given billing period.
Forced Outage, hours ³	Total number of hours a unit was in a Class 0, Class 1, Class 2, or Class 3 Forced outage state in a given billing period.
Planned Outage, hours ³	Total number of hours a unit was in planned outage state in a given billing period. (GOMP)
Reserve Shutdown Hours ³	The number of hours a Unit was in the reserve shutdown state (State in which a Unit is available but not in service or not electrically connected to the Grid).
Maintenance Outage, hours ³	Total number of hours a unit was in maintenance outage state in a given billing period.
Deactivated Shutdown, hours ³	Total number of hours a unit was in deactivated shutdown state in a given billing period.

² GC 1.7 (DEFINITIONS), Philippine Grid Code 2016

³ Section 4 (Definition of Terms), ERC Resolution No. 16 Series of 2014

⁴ Article II, Section 1 (Unit State Classification), ERC Resolution No. 21 Series of 2016

Type of Fuel	Type of fuel used. Can be multiple types for a single generation unit. (specify the type of fuels to choose from e.g. Bunker/Diesel, Coal, NG, Biomass)
Fuel Consumed	Amount of fuel consumed during the billing period. L(Bunker/Diesel) or ton(Coal) or m3(NG) or kg(biomass)
Fuel Running Inventory	Total stocks of fuel equivalent or running inventory including shipments in transit. L(Bunker/Diesel) or ton(Coal) or m3(NG) or kg(biomass)
Fuel Cost	Unit price of fuel used. PHP/L(Bunker/Diesel) or PHP/ton(Coal) or PHP/m3(NG) or PHP/kg(biomass)
Gross Heat Rate, BTU/KWh	The heat energy in BTU, input to a Generating Station to deliver one KWh at the generator.
Net Heat Rate, BTU/KWh	The heat energy in BTU, input to a Generating Station to deliver one KWh at the switchyard.

A.2 DEFINITIONS FOR MONTHLY OPERATIONS REPORT – GENERATION AND SALES DATA

FIELD NAME	DESCRIPTION
Resource ID	Registered resource ID used in the Wholesale Electricity Spot Market (WESM).
Electricity Purchased From (if applicable)	Source of electricity purchased (e.g., WESM, Specific IPP) as stated in the contract
Electricity Purchased, MWh	Amount of energy purchased from corresponding source that is billed in a given billing period.
Total Plant Operating and Maintenance Cost, PHP	Amount of plant operating and maintenance cost in pesos in a given billing period.
Customer Type	Types of Customer (e.g., DU, EC, RES, DCC)

Customer List	Name of customer supplied. (e.g., Specific Name of DU, EC, RES, DCC)
Contracted Demand	Demand per customer list as stated in the contract
Contracted Energy	Energy per customer list as stated in the contract
Contracted Price	Price per customer list as stated in the contract
Start of Contract	Start date of Contract with the GenCo per customer list (yyyy-mm-dd)
End of Contract	End date of Contract with the GenCo per customer list (yyyy-mm-dd)
Electricity Sold, MWh	Amount of energy sold to corresponding customer in a given billing period.
Estimated Unserved Energy, MWh	Energy not served during outage in a given billing period. Pmax x Forced Outage Hours
Maximum Load, MW	Maximum load in a given billing period
Minimum Load, MW	Lowest operating load in a given billing period.
Average Load, MW	Average load in a given billing period.

A.3 DEFINITIONS FOR MONTHLY OPERATIONS REPORT – DISTRIBUTION UTILITIES

FIELD NAME	DESCRIPTION
Participant ID	Participant ID registered in the WESM.
Electricity Purchased From	Source of the electricity purchased by the distribution utility. (e.g., WESM, specific name of IPPs, embedded generators) as stated in the contract
Resource Type	Types of energy resource of plants used to generate electricity
Generator Affiliated to DU	Confirmation of affiliation of the Generation Company to the DUs (Y/N)
Contracted Demand, MW	Demand per supply source as stated in the contract
Contracted Energy, MWh	Energy per supply source as stated in the contract
Contract Price, PhP	Price per supply source as stated in the contract
Contract Start	Start date of Contract with the GenCo per supply source (yyyy-mm-dd)
Contract End	End date of Contract with the GenCo per supply source (yyyy-mm-dd)
Purchased Electricity, MWh	Total amount of monthly electricity purchased by the distribution utility secured or sourced from WESM, IPPs, and/or embedded generators that is billed in a given billing period per supply source.
Customer Type	Classification of customers categorized e.g.,(residential, commercial, industrial, and others.)
No. of Customers	Total number of supplied customers per customer type (i.e., active & captive customers only).

Electricity Sales, MWh	Total electricity sales of the DU in a given billing period to corresponding customer type measured in MWh.
Sales, PHP	Total electricity sales of the DU in a given billing period to corresponding customer type in Php.
Effective Unbundled Rate	Effective Unbundled rate in terms of PhP/kWh per customer type
No. of Contestable customers	Number of CCs wheeled within DU's franchise area
Electricity Wheeled - Others (Contestable Wheeling), MWh	Total amount of energy wheeled from supplier to contestable customers using the utility's power lines in a given billing period.
Maximum Load, MW	DU's peak load during the billing period
Company Use, MWh	Total electricity consumed by the DU for its own use in a given billing period.
System Loss, MWh	Total system loss of the DU in MWh in a given billing period as defined in PDC
Total No. of Barangays	Total number of barangays within the franchise area
Total Energized Barangays	Total number of energized barangays within the franchise area

A.4 DEFINITIONS FOR MONTHLY OPERATIONS REPORT - SUPPLIER PORTFOLIO DATA

FIELD NAME	DESCRIPTION
Participant ID	Participant ID registered in the WESM.
Electricity Purchased From	Source of the electricity purchased by the Supplier. (e.g., WESM, specific name of IPPs, embedded generators) as stated in the contract
Resource Type	Types of energy resource of plants used to generate electricity per supply source
Contracted Demand (MW)	Demand of Supplier as stated in the contract per supply source
Contracted Energy (MWh)	Energy of Supplier as stated in the contract per supply source
Contract Price (PHP/KWh)	Price per KWh as stated in the contract per supply source
Contract Start	Start date of contract per supply source (yyyy-mm-dd)
Contract End	End date of contract per supply source (yyyy-mm-dd)
Generator affiliated to Supplier	Confirmation of affiliation of the Generation Company to the Supplier (Y/N)

A.5 DEFINITIONS FOR MONTHLY OPERATIONS REPORT – SUPPLIER SALES DATA

FIELD NAME	DESCRIPTION
Participant ID	Participant ID registered in the WESM.
Contestable Customer Name	Name of each contestable customer (CC) as stated in the contract
Contracted Demand (MW)	Demand of each CC as stated in the contract.
Contracted Energy (MWh)	Energy of each CC as stated in the contract.
Contract Price (PHP/KWh)	Price of electricity per kWh per CC stated in the contract.
Contract Start	Start date of contract per CC (yyyy-mm-dd)
Contract End	End date of contract per CC (yyyy-mm-dd)

A.6 DEFINITIONS FOR SHORT RUN MARGINAL COST DATA

CATEGORY	FIELD NAME	DESCRIPTION
Resource Identifying Information	Resource ID	Required field specifying the resource ID location (commercial node names).
	Region	Required field specifying the location (e.g. L/V/M)
Startup Costs	Cold Startup Fuel Type	Energy Source Code from contract or power plant indicating Index Price location or user-defined blend.
	Cold Startup mmbtu	Specifies the energy used during the start in MMBtu per start. If not specified the energy is set to null. (if applicable)
	Cold Startup Sox rate	Specifies the emissions rate in lb/MMBtu for Sulphur oxide SOx for startup. If not specified, the cost is set to null. (if applicable)
	Cold Startup Nox rate	Specifies the emissions rate in lb/MMBtu for nitrogen oxide NOx for startup. If not specified, the cost is set to null. (if applicable)

	Cold Startup VOM	Required field specifying the resource's non-fuel startup costs in PhP per start. If not specified the cost is set to null
No Load Costs	No Load Cost Code	Energy Source Code from contract or power plant indicating Index Price location or user-defined blend.
	No Load mmbtu	Specifies the energy used during no load in MMBtu. If not specified, the energy is set to null.
	No Load Sox	Specifies the emissions rate in lb/MMBtu for SOx for no load. If not specified, the cost is set to null.
	No Load Nox	Specifies the emissions rate in lb/MMBtu for NOx for no load. If not specified, the cost is set to null.
	No Load VOM	Specifies the non-fuel no load cost in PhP per hour for no load. If not specified, the cost is set to null.
Run Times	Minimum Run Time	Specifies the minimum runtime of the resource. If not specified, the default minimum is 5 minutes.
	Maximum Run Time	Specifies the maximum runtime of the resource. If not specified, there is no default maximum.
	Minimum Down Time	Specifies the minimum downtime (includes shutdown time and startup time) of the resource. If not specified, the default minimum downtime is 5 minutes.
	Cold Startup Time	Specifies the cold startup time. If not specified, the default value is 5 minutes.
	Cold Notification Time	Specifies the time required prior to starting a resource that is cold. If not specified, the default value is 5 minutes.
Commitment Limitations	Maximum Daily Starts	Specifies the maximum daily starts allowed for the resource. If not specified, there is no default value. (if applicable)
	Maximum Daily Energy	Specifies the maximum daily energy delivery allowed for the resource. If not specified, there is no default value. (if applicable)
	Maximum Weekly Starts	Specifies the maximum weekly starts allowed for the resource. If not specified, there is no default value. (if applicable)
	Maximum Weekly Energy	Specifies the maximum weekly energy delivery allowed for the resource. If not specified, there is no default value. (if applicable)
Fuel Price Information	Energy Source Codes	Required fields specifying the resources sources of energy or fuel and the costs of that fuel. These values are used to determine the

		basis between the delivered fuel cost and the value of the index for the Energy Source Code or user defined blend. Can be specified from one to many times. Energy Source Code from contract or power plant indicating Index Price location or user-defined blend.
	Energy Source Price	The delivered cost of the fuel in PhP/MMBtu if purchased on the price date below for immediate delivery (spot market price).
	Energy Source Price Date	The date of the price above (optional if price is null).
	Energy Source Price Index	It is the commodity price index and publisher of the index appropriate for use in adjusting reference levels to reflect changes in fuel price. This field is to be used if the "Energy Codes" tab lacks an adequate index and it is desired to suggest an alternative.
	Energy Source Reason	Field for describing the reason why one energy source is used instead of another.
Incremental Energy Information	Energy Code	Energy Source Code from contract or power plant indicating Index Price location or user-defined blend.
	MW	Required field specifying the operating point in MW. Unit should have between two and ten MW specified for incremental energy range calculations.
	Ramp Rate Up	Required field specifying the rate in MW per minute to go from the next lower operating point to this operating point when the previous market dispatch direction was up.
	Ramp Rate Down	Required field specifying the rate in MW per minute to go from this operating point to the next lower operating point when the previous market dispatch direction was down.
	Bidirectional Ramp Rate	Required field specifying the rate in MW per minute to go between this operating point to the next lower operating point or the next lower operating point to this operating point when the previous market dispatch direction was in the opposite direction.

Fuel Consumption mmbtu per Hour	Required field for fossil fuel units specifying the total fuel consumption in MMBtu per hour using the Energy Source or user specified blend specified.
VOM Cost	Required field specifying the non-fuel variable operating cost in PhP per hour. If not specified, the cost is set to null. Include in this field as negative values the production tax credits and renewable energy credits.
Cost Change Reason	Field describing the reason why there is an inflection in the variable operating costs at the operating point.
MSTUO	Field describing MSTUO (Mean Service Time to Unplanned Outage) at a specific operating point. (if applicable) MSTUO= Service Hours/ Number of Planned Outages which occur from in-service state only
MUOD	Field describing MUOD (Mean Unplanned Outage Duration) at a specific operating point. (if applicable) MUOD= Unplanned Outage Hours which occur from in—service state only / Number of unplanned outages which occur from in-service state only
Parts and Labor	Describes an estimate of the typical costs for parts, labor and materials associated with an unplanned outage with duration of <MUOD> supplied above. If not specified the value will be set to zero.
Parts and Labor Assumptions	Required field if <partslabor> data is provided above. Provide a brief breakdown of <partslabor> and the assumptions it is based on.
Risk Change Reasons	Field describing the reason why the MSTUO or MUOD values are different at the operating point than for all in-service hours regardless of output level. Optional if the prior two fields are blank.

Incremental Energy Limitations	Lower MW	The lower bound of the output range subject to the limitation in MW. Is typically zero unless there is a change in fuel type, configuration, or emissions controls that would cause the limitation to not apply below a certain MW value.
	Upper MW	The upper bound of the output range subject to the limitation in MW.
	Energy Limitation	The total energy that can be produced in MWh subject to the limitation.
	Timeframe	The timeframe for the limitation in days-e.g., 7 would be entered for a weekly limitation.
	Start Day	The beginning of the period when the limitation is active. When a limitation only applies in a given season or period, the beginning of the season or period is entered here.
	End Day	The end of the period when the limitation is active. When a limitation only applies in a given season or period, the end of the season or period is entered here.
	Reason	Detailed explanation of the limitation.
	Uncertainty	Description of the uncertainty associated with the limitation (i.e., how the limitation may change with changes in certain factors, such as rainfall).
	Other Information	Any other information regarding the limitation.
Fuel Blend Information	Name	User provided name for a specific fuel blend. This name can then be used anywhere that Energy Source Codes are used for this location.
	Energy Source Code	Energy Source Code from contract or power plant indicating Index Price location or user-defined blend.
	Blend	Portion of the blend that is made up of the above Energy Source Code. The number must be between 0 and 1 and when added to the blends from the other parts, must sum to 1.
Ancillary Services Values	Energy Code	Energy Source Code from contract or power plant indicating Index Price location or user-defined blend.
	Type	Specifies the ancillary services product

	Fuel Consumption mmbtu per Hour	Field specifying the additional energy used while providing regulation in MMBtu per hour compared to being dispatchable at the same output. Only applies to type of "reg". If not specified the energy is set to null. (if applicable)
	VOM	Field specifying the resource's additional non-fuel costs in PhP per hour compared to not providing the service at the same output. Only applies to type of "reg."
	VOM Assumptions	Required field if <vom> is provided above. Provide a brief breakdown of <vom> and the assumptions it is based on.
	Probability of Contingency Reserve Deployment Failure (PCRDF)	Field specifying the probability of contingency reserve deployment failure expressed as a percentage. The represents the chance of there being a deployment shortfall of five percent or greater of the maximum deployment based on the ramp rates and limits provided in this survey. Only applies to types of "spin".
	Regulation Penalty Rate (RPR)	Field specifying the regulation penalty rate expressed as a percentage. This represents the chance of having Excessive Energy and/or Deficient Energy in three or more consecutive Dispatch Intervals of the same hour. Only applies to types of "reg" and "nonreg".
Staffing	Staffing Type	Required field that specifies summer or rainy season staffing patterns.
	Staff Comment	Optional field for use in providing further explanation of staffing patterns.
	Min Heat rate	Minimum Heat rate declared
	Avg Heat rate	Average Heat rate declared

A.7 DEFINITIONS FOR COST OF NEW ENTRY DATA

Field Name	Description
Resource ID	Unique ID of resources in the market
Region	Unique ID for Region (L/V/M)
Capital Cost	Investment or capital cost to build the new resource (PhP/kW)
Carrying Charge Rate (CCR)	Carrying Charge Rate is based on the project's financing assumptions: 1) Debt to Equity ratio, 2) Cost of debt, 3) Cost of Equity, 4) Amortization period, 5) Depreciation schedule, and 6) Tax assumptions. (Percent %)
Fixed Operations and Maintenance Costs (FOM)	"Fixed Operations and Maintenance costs ("FOM") that are required to be expended to maintain the resource over its economic life.

A.8 DEFINITIONS FOR NET REVENUE DATA

Data Name	Description
Resource ID	Required field specifying the resource ID location (commercial node names).
Full Load Heat Rate, BTU/KWH	Full Load Heat Rate is the heat rate of operating the unit at the maximum stable load (P _{MAX}) Generic estimate based on size and age of the unit; Value must be fixed the entire year.
MinGen Heat Rate, BTU/KWH	Min Gen Heat rate is the heat rate of operating the unit at the minimum stable load (P _{MIN}). Based on mingen cost. (The mingen cost is the hourly cost of operating the unit at the minimum stable load (P _{MIN})) Generic estimate based on size and age of the unit

Startup Cost, in Php	<p>Generic estimate based on size and age of the unit; Start up cost reflects the starts-related maintenance costs as specified in the bilateral contracts</p> <p>Startup costs consist of costs that are incurred to transition a resource from an offline state to an online state and synchronized to the grid. Components of startup costs include variable operations and maintenance (“VOM”) expenses, fuel consumed during the startup period, and shutdown costs. Startup costs often also reflect long-term service agreements (“LTSA”) with major maintenance vendors that may be reflected in the VOM component.</p>
Variable Operations and Maintenance (VOM) Cost , in Php/MWH	Variable Operations and maintenance cost Generic estimate based on size and age of the unit
Maintenance Outage (hours)	More relevant for combined cycle and steam turbine units. Maintenance for combustion turbine units is likely to happen in hours when the unit is not operating.
Equivalent Forced Outage Rate (EFORd)	<p>Equivalent Forced Outage Rate; useful in the computation of Annual net revenue</p> <p>Based on the ERC Resolution no 21 Series of 2016 p2 - It is a measure of the probability that a generating unit will not be available due to forced outages or forced deratings.</p>
Capacity factor (CF)	Only applicable for renewable energy technologies as their hourly generation profile is fixed. This dataset comprises of capacity factors for 8760 hours (one year’s worth of hours).

<p>Cost of new entry (CONE), PhP/kW-yr</p>	<p>Contains annualized levelized cost for building a new technology, calculated by estimating annualized revenue requirement of the total investment cost over the economic life of the project.</p> <p>CONE are costs that would be considered for investment in new resources. This would be similar to a levelized cost of new entry.</p> <p>Gross CONE for a resource can be calculated using the following formula: $\text{Gross CONE} = \text{sum}(\text{Capital Cost} * \text{CCR}, \text{Fixed O\&M})$. For e.g., if the capital investment to build a combustion turbine is ₱60,000/kW, fixed O&M cost is ₱1000/kW-yr, and CCR is 15% then the Gross CONE is ₱10,000/kW-yr.</p>
<p>Going Forward Costs (GFC), PhP/kW-yr</p>	<p>Generic estimate based on size and age of the unit; Going Forward Costs (GFC)</p> <p>GFC includes costs that could be avoided if a seller otherwise capable of supplying capacity were to retire permanently from supplying the capacity. GFC typically includes cost items such as: (a) Capital Expenditure, including but not limited to mandatory expenditures necessary to comply with federal or state environmental, safety or reliability requirements that must be met to supply capacity, (b) Fixed Costs, and (c) Taxes</p>
<p>Feed in Tariff (FIT) Price, Php/MWh</p>	<p>Feed in Tariff Price. Only applicable for renewable energy technologies.</p>
<p>Renewable Energy Credit (REC) Price, Php/MWh</p>	<p>Renewable Energy Credit Price = $\text{Hourly CF} * \text{REC Price} * \text{P}_{\text{MAX}}$</p>
<p>Fuel Price</p>	<p>Gas Price (Php/kg) daily-Required field is comprising of daily Gas Price information for delivery in the region. Has to reflect prices for specific location and timeframe of interest.</p>

	<p>Coal Price (Php/ton)-Required field is comprising of daily Coal Price information for delivery in the region. Has to reflect prices for specific location and timeframe of interest.</p> <p>Oil Price (Php/barrel)-Required field is comprising of daily Oil Price information for delivery in the region. Has to reflect prices for specific location and timeframe of interest.</p>
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ANNEX B - DATA TEMPLATES

B.1 TEMPLATE FOR MONTHLY OPERATIONS REPORT - PLANT OPERATIONAL DATA

Resource ID	Rated Capacity, MW	Maximum Stable Load (Pmax), MW	Gross Generation, MWh	Total Station Used, MWh	Operating Hours	Forced Outage, hours	Planned Outage, hours	Reserve Shutdown, Hours	Maintenance Outage, Hours	Deactivated Shutdown, Hours
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Type of Fuel	Fuel Consumed, L(Bunker/Diesel) or ton(Coal) or m ³ (NG) or kg(biomass)	Fuel Running Inventory, L(Bunker/Diesel) or ton(Coal) or m ³ (NG) or kg(biomass)	Fuel Cost, PHP/L(Bunker/Diesel) or PHP/ton(Coal) or PHP/m ³ (NG) or PHP/kg(biomass)	Gross Heat Rate, BTU/KWh	Net Heat Rate, BTU/KWh



B.2 TEMPLATE FOR MONTHLY OPERATIONS REPORT – GENERATION AND SALES DATA

Resource ID	Electricity Purchased From (if applicable)	Electricity Purchased, MWh	Total Plant Operating and Maintenance Cost, PHP	Customer Type	Customer List	Contracted Demand	Contracted Energy
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Contracted Price	Contract Start	Contract End	Electricity Sold, MWh	Estimated Unserved Energy, MWh	Maximum Load, MW	Minimum Load, MW	Average Load, MW

B.3 TEMPLATE MONTHLY OPERATIONS REPORT – DISTRIBUTION UTILITIES

Participant ID	Electricity Purchased From	Resource Type	Generator Affiliated to DU	Contracted Demand	Contracted Energy	Contract Price	Contract Start	Contract End	Purchased Electricity



Customer Type	No. of Customers	Electricity Sales, MWh	Sales, PHP	Effective Unbundled Rate, PHP/kWh	No. of Contestable Customers	Electricity Wheeled – Others (Contestable Wheeling), MWh	Maximum Load, MW	Company Use, MWh	System Loss, MWh	Total No. of Barangays	Total Energized Barangays



B.4 MONTHLY OPERATIONS REPORT – SUPPLIER PORTFOLIO DATA

Participant ID	Electricity Purchased From	Resource type	Contracted Demand	Contracted Energy	Contract Price	Contract Start	Contract End	Generator affiliated to Supplier
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B.5 MONTHLY OPERATIONS REPORT – SUPPLIER SALES DATA

Participant ID	Contestable Customer Name	Contracted Demand	Contracted Energy	Contract Price	Contract Start	Contract End
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B.6 TEMPLATE FOR SHORT RUN MARGINAL COST DATA

Resource ID	Region	Cold Startup Fuel Type*	Cold Startup mmbtu	Cold Startup Sox rate	Cold Startup Nox rate	Cold Startup VOM	No Load Cost Code	No Load mmbtu	No Load Sox	No Load Nox	No Load VOM
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Minimum Run Time	Maximum Run Time	Minimum Down Time	Cold Startup Time	Cold Notification Time	Maximum Daily Starts	Maximum Daily Energy	Maximum Weekly Starts	Maximum Weekly Energy	Energy Source Codes	Energy Source Price	Energy Source Price Date

Energy Source Price Index	Energy Source Reason	Energy Code	MW	Ramp Rate Up	Ramp Rate Down	Bidirectional Ramp Rate	Fuel Consumption mmbtu per Hour	Variable Operations and Maintenance Cost	Cost Change Reason	Mean Service Time Until Unplanned Outage (MSTUO)	Mean Unplanned Outage Duration (MUOD)	Parts and Labor	Parts and Labor Assumptions

Risk Change Reasons	Lower MW	Upper MW	Energy Limitation	Timeframe	Start Day	End Day	Reason	Uncertainty	Other Information	Fuel Blend Name	Energy Source Code



Blend	Energy Code	Type (AS)	Fuel Consumption mmbtu per Hour	Variable Operations and Maintenance Cost	VOM Assumptions	Probability of Contingency Reserve Deployment Failure (PCRDF)	Regulation Penalty Rate (RPR)	Staffing Type	Staff Comment	Min Heat rate	Avg Heat rate

B.7 TEMPLATE FOR COST OF NEW ENTRY DATA

Resource_ID	Region	Capital Cost	Carrying Charge Rate (CCR)	Fixed Operations and Maintenance Costs (FOM)
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B.8 TEMPLATE FOR NET REVENUE DATA

PMAX	Resource_ID	Full Load Heat Rate	MinGen Heat Rate	Maintenance Outage (hours)	Equivalent Forced Outage Rate (EFORd)	Capacity Factor (CF)	Going Forward Cost (GFC)	Feed-in Tariff (FIT) Price	Renewable energy Credit (REC) Price	Fuel Price
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