

ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B1.1 DEFINITIONS FOR MONTHLY OPERATIONS REPORT – PLANT OPERATIONAL DATA

FIELD NAME	DESCRIPTION
Resource ID	Registered resource ID used in the Wholesale Electricity Spot Market (WESM).
Sub-region	Administrative region (e.g., Region I, NCR, CAR, Region IV-A, Region VII, BARMM)
Rated Capacity ³ , 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) ⁴ , 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 ⁵ state in a given billing period.
Forced Outage hours ³	Total number of hours a unit was 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.
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)

³ GC 1.7 (DEFINITIONS), Philippine Grid Code 2016

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

⁵ Article II, Section 1 (Unit State Classification), ERC Resolution No. 21 Series of 2016

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B1.1 DEFINITIONS FOR MONTHLY OPERATIONS REPORT – PLANT OPERATIONAL DATA

FIELD NAME	DESCRIPTION
Fuel Running Inventory (units)	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 Running Inventory (days)	Total stocks of fuel equivalent or running inventory including shipments in transit in estimated number of days of normal power plant operation.
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.

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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B1.2 TEMPLATE FOR MONTHLY OPERATIONS REPORT - PLANT OPERATIONAL DATA

Resource ID	Rated Capacity, MW	Sub-Region	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 Running Inventory, No. of days	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



ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B2.1 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).
Sub-region	Administrative region (e.g., Region I, NCR, CAR, Region IV-A, Region VII, BARMM)
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. $P_{max} \times \text{Forced Outage Hours}$
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.

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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

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


Resource ID	Sub-Region	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

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B3.1 DEFINITIONS FOR MONTHLY OPERATIONS REPORT – DISTRIBUTION UTILITIES

FIELD NAME	DESCRIPTION
Participant ID	Participant ID registered in the WESM.
Sub-Region	Administrative region (e.g., Region I, NCR, CAR, Region IV-A, Region VII, BARMM)
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 based on the supplier power bills, in consideration of the parameters 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., captive customers that is currently connected and being served by the DU).
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.
Actual Retail Rate	Actual rate in terms of PhP/kWh per customer type for the billing period
No. of Contestable customers	Number of switched CCs wheeled within DU's franchise area
Electricity Wheeled - Others (Contestable Wheeling), MWh	Total amount of energy wheeled from supplier to switched contestable customers using the utility's power lines in a given billing period.

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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B3.1 DEFINITIONS FOR MONTHLY OPERATIONS REPORT – DISTRIBUTION UTILITIES

FIELD NAME	DESCRIPTION
Maximum Load, MW	DU's system 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

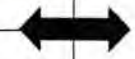
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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B3.2 TEMPLATE MONTHLY OPERATIONS REPORT – DISTRIBUTION UTILITIES

Participant ID	Sub-Region	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	Actual Retail 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



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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B4.1 DEFINITIONS FOR MONTHLY OPERATIONS REPORT - SUPPLIER PORTFOLIO DATA

FIELD NAME	DESCRIPTION
Participant ID	Participant ID registered in the WESM.
Sub-Region	Administrative region (e.g., Region I, NCR, CAR, Region IV-A, Region VII, BARMM)
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)

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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B.4.2 MONTHLY OPERATIONS REPORT – SUPPLIER PORTFOLIO DATA

Participant ID	Sub-Region	Electricity Purchased From	Resource type	Contracted Demand	Contracted Energy	Contract Price	Contract Start	Contract End	Generator affiliated to Supplier
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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B5.1 DEFINITIONS FOR MONTHLY OPERATIONS REPORT – SUPPLIER SALES DATA

FIELD NAME	DESCRIPTION
Participant ID	Participant ID registered in the WESM.
Sub-Region	Administrative region (e.g., Region I, NCR, CAR, Region IV-A, Region VII, BARMM)
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)	Actual Average Price of electricity per KWh of the Supplier's sales to the CC
Contract Start	Start date of contract per CC (yyyy-mm-dd)
Contract End	End date of contract per CC (yyyy-mm-dd)

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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B5.2 MONTHLY OPERATIONS REPORT – SUPPLIER SALES DATA

Participant ID	Sub-Region	Contestable Customer Name	Contracted Demand	Contracted Energy	Contract Price	Contract Start	Contract End
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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B6.1 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. LV/M)
	Sub-Region	Administrative region (e.g., Region I, NCR, CAR, Region IV-A, Region VII, BARMM)
Startup Costs	Cold Startup Fuel Code	Energy Source Code from contract or power plant indicating Index Price location or user-defined blend. (e.g., CAEQ001 based on S&P Global Platts). (if applicable)
	Cold Startup mmbtu, 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, PhP	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, 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, PhP	Specifies the non-fuel no load cost in PhP per hour for no load. If not specified, the cost is set to null.

ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B6.1 DEFINITIONS FOR SHORT RUN MARGINAL COST DATA

CATEGORY	FIELD NAME	DESCRIPTION
Run Times	Minimum Run Time HHH:MM	Specifies the minimum runtime of the resource. If not specified, the default minimum is 5 minutes.
	Maximum Run Time HHHHH:MM	Specifies the maximum runtime of the resource. If not specified, there is no default maximum.
	Minimum Down Time HHH:MM	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 HHH:MM	Specifies the cold startup time. If not specified, the default value is 5 minutes.
	Cold Notification Time HHH:MM	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

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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B6.1 DEFINITIONS FOR SHORT RUN MARGINAL COST DATA

CATEGORY	FIELD NAME	DESCRIPTION
		Index Price location or user-defined blend.
	Energy Source Price PhP/MMBtu	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 YYYY-MM-DD	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

ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B6.1 DEFINITIONS FOR SHORT RUN MARGINAL COST DATA

CATEGORY	FIELD NAME	DESCRIPTION
		in MMBtu per hour using the Energy Source or user specified blend specified.
	VOM Cost, PhP/h	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 certificates.
	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, PhP	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. (e.g., 12 men @ 2000 PhP for 15 hrs)
	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.

ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B6.1 DEFINITIONS FOR SHORT RUN MARGINAL COST DATA

CATEGORY	FIELD NAME	DESCRIPTION
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, days	The timeframe for the limitation in days-e.g., 7 would be entered for a weekly limitation.
	Start Day YYYY-MM-DD	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 YYYY-MM-DD	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).
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.

ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B6.1 DEFINITIONS FOR SHORT RUN MARGINAL COST DATA

CATEGORY	FIELD NAME	DESCRIPTION
	Type (primary, secondary, tertiary, dispatchable)	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, PhP/h	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 PCRDF 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 "primary". (if applicable)
	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 "secondary" and "tertiary". (if applicable)
Staffing	Staffing Type	Required field that specifies summer or rainy season staffing patterns. (e.g., 12x5, 24x7 or unstaffed)
	Staff Comment	Optional field for use in providing further explanation of staffing patterns.
Heat Rates	Min Heat rate, BTU/kWh	Minimum Heat rate declared
	Avg Heat rate, BTU/kWh	Average Heat rate declared

ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B6.2 TEMPLATE FOR SHORT RUN MARGINAL COST DATA

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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 (PCPDF)	Regulation Penalty Rate (RPR)	Staffing Type	Staff Comment	Min Heat rate	Avg Heat rate

ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B7.1 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)
Sub-region	Administrative region (e.g., Region I, NCR, CAR, Region IV-A, Region VII, BARMM)
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.

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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B7.2 TEMPLATE FOR COST OF NEW ENTRY DATA

Resource_ID	Region	Sub-Region	Capital Cost	Carrying Charge Rate (CCR)	Fixed Operations and Maintenance Costs (FOM)
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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B8.1 DEFINITIONS FOR NET REVENUE DATA

Data Name	Description
Resource ID	Required field specifying the resource ID location (commercial node names).
Sub-Region	Administrative region (e.g., Region I, NCR, CAR, Region IV-A, Region VII, BARMM)
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	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 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.
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)	Equivalent Forced Outage Rate; useful in the computation of Annual net revenue 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.
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).

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B8.1 DEFINITIONS FOR NET REVENUE DATA

Data Name	Description
Going Forward Costs (GFC), Php/kW-yr	Generic estimate based on size and age of the unit; Going Forward Costs (GFC) 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
Feed in Tariff (FIT) Price, Php/MWh	Feed in Tariff Price. Only applicable for renewable energy technologies.
Renewable Energy Certificate (REC) Price, Php/MWh	Renewable Energy Certificate Price = Hourly CF*REC Price*P _{MAX}
Fuel Price	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. 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. 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.

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ANNEX B – DATA DEFINITIONS AND DATA TEMPLATES

B8.2 TEMPLATE FOR NET REVENUE DATA

Resource ID	Sub-Region	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 Certificate (REC) Price	Fuel Price
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NOTES:

1. Leave blank if not applicable
2. Do not use comma (,) on all dataset inputs