

CATALOGUE OF DATA 2020

As required under section 4.3.2 of Chapter 3 of the Singapore Electricity Market Rules (“Market Rules”), the Catalogue of Data was developed by the Market Assessment Unit (“MAU”) under the supervision and direction of the Market Surveillance and Compliance Panel (“MSCP”). It is a detailed catalogue of all the data or categories of data the MSCP/MAU will have the need or means of acquiring.

The Catalogue of Data was published on 29 August 2003 and made effective from 1 October 2003.

In accordance with section 4.3.6 of Chapter 3 of the Market Rules, the MAU, under the supervision and direction of the MSCP, has re-evaluated and proposed modifications to the Catalogue of Data as the Panel deemed appropriate.

The proposed updated Catalogue of Data was published by the Energy Market Company Pte Ltd for public comment on 13 April 2020. The MSCP has considered all comments submitted and has provided responses accordingly. The Catalogue of Data, where appropriate, has been modified based on the comments received through the consultation with market participants, service providers and all other interested parties.

The MSCP hereby adopts the Catalogue of Data attached, effective from 1 July 2020.

29 June 2020

Catalogue of Data 2020
National Electricity Market of Singapore
Effective from 1 July 2020

Items marked “*” are considered confidential information

Type of Data	No.	Description	Frequency of Collection	Source	Means of Obtaining
Generation/Load Registered Facility Characteristics Data	1	Maximum generation capacity of each generation registered facility and maximum load curtailment capacity of each load registered facility	Once and within 3 business days upon change	EMC	EMC website
	2*	Maximum ramp-up rate of each generation/load registered facility	Once and within 3 business days upon change	EMC	By e-mail
	3*	Maximum ramp-down rate of each generation/load registered facility	Once and within 3 business days upon change	EMC	By e-mail
	4	Maximum reserve capacity (primary and contingency) of each generation/load registered facility	Once and within 3 business days upon change	EMC	EMC website
	5*	Maximum combined generation capacity and reserve capacity of each generation registered facility	Once and within 3 business days upon change	EMC	By e-mail
	6	Maximum regulation capacity of each generation registered facility	Once and within 3 business days upon change	EMC	EMC website
	7*	Registered automatic generator control (“AGC”) maximum energy output level for each generation registered facility	Once and within 3 business days upon change	EMC	By e-mail
	8*	Registered AGC minimum energy output level for each generation registered facility	Once and within 3 business days upon change	EMC	By e-mail
	9*	Fuel type of each generation registered facility	Once and within 3 business days upon change	Generation Licensee	By e-mail
	10	Date the generation/load registered facility was first commissioned	Once	EMC	By e-mail
	11*	Total forced outage duration (past quarter) of each generation registered facility	Quarterly	PSO	By e-mail
	12	Annual planned outage plan of each generation registered facility	Once and within the next business day upon change	PSO	EMC website

Type of Data	No.	Description	Frequency of Collection	Source	Means of Obtaining
Transmission System Data	13*	Ratings of transmission lines import links from Malaysia	Once and within 3 business days upon change	PSO	By e-mail
	14	Transmission line forced outage	Upon occurrence, by the next business day	PSO	EMC website
	15	Proposed transmission line de-rating advice	Upon occurrence, by the next business day	PSO	By e-mail
	16	Proposed transmission line maintenance outage programme	Daily, by the next business day	PSO	EMC website
Supply Data	17*	Occurrences of discretionary dispatch action taken by PSO	Upon occurrence, by the next business day	PSO	By e-mail
	18*	Offers/bids of energy, reserve and regulation submitted by all market participants	Daily	EMC	By CSV reports
	19*	Offers/bids submitted after gate closure	Daily, by the next business day	EMC	By CSV reports
	20*	Scheduled dispatch quantities of energy, reserve and regulation by generation/load registered facility and market participant	Daily, within 6 business days after the trading day	EMC	By CSV reports
	21*	Maximum target, minimum target and initial output of each scheduled generation registered facility	Daily	EMC	By CSV reports
	22*	Metered generation quantity by generation registered facility/market participant	Daily, within 11 business days after the trading day	EMC	By CSV reports
	23*	Forced outage by generation registered facility	Upon occurrence, by the next business day	PSO	By e-mail
	24	Generation registered facility de-rating notification	Upon occurrence, by the next business day	PSO	By e-mail
	25	Security constraints (location, timing, volume, cause)	Upon occurrence, by the next business day	PSO	EMC website
	26	Load shed forecast	Upon occurrence, by the next business day	PSO	EMC website
	27	Load shed advisory notice	Upon occurrence, by the next business day	PSO	EMC website
28*	Intertie schedule	Daily, within 6 business days after the trading day	EMC	By CSV reports	
Demand Data	29	Pre-dispatch load forecast	Daily, within 6 business days after the trading day	EMC	By CSV reports

Type of Data	No.	Description	Frequency of Collection	Source	Means of Obtaining
	30	Real-time load forecast	Daily, within 6 business days after the trading day	EMC	By CSV reports
	31	Actual system demand (settlement ready metering data)	Daily, within 11 business days after the trading day	EMC	By CSV reports
Pricing Data	32	Half-hourly Market Energy Price ("MEP") at all market network nodes ("MNN")	Daily, within 6 business days after the trading day	EMC	By CSV reports
	33	Half-hourly Uniform Singapore Energy Price ("USEP")	Daily, within 6 business days after the trading day	EMC	By CSV reports
	34	Half-hourly regulation price	Daily, within 6 business days after the trading day	EMC	By CSV reports
	35	Half-hourly reserve prices: primary and contingency	Daily, within 6 business days after the trading day	EMC	By CSV reports
	36	Uplift charges	Daily, within 11 business days after the trading day	EMC	By CSV reports
	37*	Pre-dispatch schedules	Daily, within 6 business days after the trading day	EMC	By CSV reports
	38*	Real-time dispatch schedules	Daily, within 6 business days after the trading day	EMC	By CSV reports
	39	Half-hourly Wholesale Electricity Price ("WEP")	Daily, within 11 business days after the trading day	EMC	By CSV reports
Other Data	40	Advisory notices reported by frequency, time, day and type	Daily, within 6 business days after the trading day	EMC	EMC website
	41*	Information on issuance of notice of default and exercise of rights of credit support	Upon occurrence, on the same business day	EMC	By e-mail
	42*	Information on total cost and providers of contracts of ancillary services	Within 10 business days of entry into new contracts	EMC	By CSV reports
	43*	Total turnover in the energy market (in MWh and \$)	Monthly, within 11 business days after month end	EMC	By CSV reports
	44*	Information on issuance and satisfaction of margin calls	Upon occurrence, on the same business day	EMC	By e-mail
	45*	Information in relation to penalty imposed under the automatic financial penalty scheme on generation/load registered facility	Daily, within 10 business days after the trading date	EMC	By CSV reports
	46*	Information in relation to non-compliance of embedded generation's declared quantity	Daily, within 10 business days after the trading date	EMC	By CSV reports