

# Energy Market Authority of Singapore

## Approved Modifications to the Metering Code

## APPENDIX 1

<u>Modification Ref. No.</u>	<u>Section</u> <sup>1</sup>	<u>Original Text</u>	<u>Modification</u> <sup>2</sup>	<u>Reasons</u>
MC/2007/1	1.4.1	None as this is an inserted section.	<p><u>“embedded generation facility” means a generation facility that has been classified as such in accordance with section 4.4 of Chapter 7 of the Market Rules;</u></p> <p><u>“generation settlement facility” or “GSF” means a generation facility that has been registered for settlement purposes only in accordance with section 5.4 of Chapter 2 of the Market Rules;</u></p> <p><u>“non-injecting embedded generation facility” means an embedded generation facility approved for classification as non-injecting by the Authority under the Market Rules;</u></p> <p><u>“Wholesaler Licensee (Generation)” means a person who is authorized by an electricity licence to trade in any wholesale electricity market operated by the Market Company for the purpose of selling electricity;</u></p>	To add new definitions.
MC/2007/2	1.4.1	<p>“generation facility” means a generating station, a generating unit or both;</p> <p>“metered entity” means a consumer, Generation Licensee or any other person responsible for the</p>	<p>“generation facility” means one or more generating units, including its associated equipment such as switchgears, transformers and all auxiliary equipment;</p> <p>“metered entity” means a consumer, Generation Licensee, <u>Wholesaler Licensee (Generation)</u> or any</p>	To refine definitions.

<sup>1</sup> Reference to the section of the code where change has been made in the version dated on January 2007 as published on the web.

<sup>2</sup>The code modifications will take effect from 22/04/2008.

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		flow of electricity measured by a meter at a connection point, and shall include the Transmission Licensee or any person through whose plant or equipment there is a flow of electricity that is being metered for the purposes of settlement by an electricity licensee;	other person responsible for the flow of electricity measured by a meter at <del>a connection point</del> <u>which the transmission system is terminated at the associated installation</u> , and shall include the Transmission Licensee or any person through whose plant or equipment there is a flow of electricity that is being metered for the purposes of settlement by an electricity licensee;	
MC/2007/3	1.4.1	"site-specific adjustment factors" means a loss factor applied to a Pool meter to account for the notional metering point being on the high voltage side of the transformer whereas the physical metering point is on the low voltage side of the transformer or a loss factor, as a result of connection at busbars of different voltages, applied to a generation registered facility or generation settlement facility, in each case larger than 1 MW that provides power directly to a consumer;	"site-specific adjustment factors" means a loss factor applied to a Pool meter to account for the notional metering point being on the high voltage side of the transformer whereas the physical metering point is on the low voltage side of the transformer or a loss factor, as a result of connection at busbars of different voltages, applied to a <del>generation registered facility or generation settlement facility, in each case larger than 1 MW</del> <u>generating unit having a name-plate rating of 1 MW or above, or registered as a GRF or GSF, that provides power directly to a consumer;</u>	To include generation settlement facility that is less than 1MW capacity.
MC/2007/4	2.1.1	Subject to section 2.4.7, for those meter installations associated with a generation facility, the Generation Licensee that owns the generation facility shall be the MESP.	Subject to section 2.4.7, for those meter installations associated with a generation facility, the Generation Licensee <u>or Wholesaler Licensee (Generation)</u> that owns the generation facility shall be the MESP.	To state that Wholesaler Licensee (Generation) who owns a generation facility shall be the MESP.
MC/2007/5	2.2.3	None as this is an inserted section.	<u>Wholesaler Licensee (Generation) with embedded generation facility may engage the Transmission Licensee to provide, install, commission, maintain, repair, replace, inspect and test each meter installation. The Wholesaler Licensee (Generation) shall pay the relevant charges based on the metering services provided.</u>	To state that Wholesaler Licensee (Generation) with embedded generation facility (EGF) may engage Transmission Licensee to provide the associated metering services.

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MC/2007/7	2.4.8	A generating unit having a name-plate rating of 1MW or above shall:	A generating unit having a name-plate rating of 1MW or above, <u>or registered as a GRF or GSF</u> shall:	To include generation settlement facility that is less than 1MW capacity.
MC/2007/8	2.4.9	The main and check meters for a generating unit having a name-plate rating of 1 MW or above shall, individually or in combination, be capable of measuring the net injections of active energy, measured in kWh, and reactive energy, measured in kVarh, with such injections being measured and recorded for each half-hour interval in time. For the purposes of this section, net injection shall be generating unit or generation facility output less auxiliary load (including energy withdrawn by station and excitation transformers, where applicable) and transformation losses.	The main and check meters for a generating unit having a name-plate rating of 1 MW or above, <u>or registered as a GRF or GSF</u> shall, individually or in combination, be capable of measuring the net injections of active energy, measured in kWh, and reactive energy, measured in kVarh, with such injections being measured and recorded for each half-hour interval in time. For the purposes of this section, net injection shall be generating unit or generation facility output less auxiliary load (including energy withdrawn by station and excitation transformers, where applicable) and transformation losses.	To include generation settlement facility that is less than 1MW capacity.
MC/2007/9	2.4.10	A main or a check meter for a generation facility shall be a 3-phase, 4-wire type or 3-phase, 3-wire type of accuracy class 0.2s. Metering current transformers of accuracy class 0.2 with 1 or 5 amperes secondary current and 30VA burden shall be provided for each circuit. Metering voltage transformers shall be of accuracy class 0.5 with 110 volts secondary voltage and a burden of not less than 100VA per phase per circuit.	<del>A main or a check meter</del> <u>Except in relation to an embedded generation facility, the main and check meters for a generation facility generating unit having a name-plate rating of 1 MW or above, or registered as a GRF or GSF</u> shall be a 3-phase, 4-wire type or 3-phase, 3-wire type of accuracy class 0.2s. Metering current transformers of accuracy class 0.2 with 1 or 5 amperes secondary current and 30VA burden shall be provided for each circuit. Metering voltage transformers shall be of accuracy class 0.5 with 110 volts secondary voltage and a burden of not less than 100VA per phase per circuit.	To include generation settlement facility that is less than 1MW capacity and to exclude EGF.

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MC/2007/10	2.4.11	Nothing in this Code shall apply with respect to any generating unit or generating facility that has a name-plate rating of less than 1MW.	Nothing in this Code shall apply with respect to any generating unit or <del>generating generation</del> facility that has a name-plate rating of less than 1MW <u>and is not a GRF or GSF.</u>	To clarify that code does not apply to any generating unit of less than 1MW capacity that will not trade in the wholesale market.
MC/2007/11	2.4.12	None as this is an inserted section.	<u>For embedded generation facility, the wire-type, accuracy class and burden requirements for its generation meters and their metering transformers shall follow the prevailing requirements for its associated Installation Meter and metering transformers.</u>	To state the wire-type, accuracy class and burden requirements for EGF's generation meters and associated metering transformers. EGF's load and generation are on a contiguous piece of land and the load, generation and land belong to the same owner. It is on this consideration that EGF is basically a consumer (i.e. predominantly load).
MC/2007/12	2.4.13	None as this is an inserted section.	<u>For embedded generation facility, associated installation meter at intake supply point shall be capable of measuring positive and negative injection of active energy, measured in units of kWh, and reactive energy, measured in kVarh (i.e. bidirectional flows) for each half-hour interval.</u>	To state bidirectional flow requirement for EGF's installation meter i.e. meter at intake supply point. The reason for including non-injecting embedded generation facility is for enforcement purpose

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				through Market Rules.																
MC/2007/13	2.4.16	The main meter or check meter referred to in section 2.4.15 shall, individually or in combination, be capable of measuring positive and negative injections of active energy and reactive energy into the transmission system (i.e. bi-directional flows) for each half-hour interval.	The main meter or check meter referred to in section 2.4.15 shall, individually or in combination, be capable of measuring positive and negative injections of active energy, <u>measured in units of kWh</u> , and reactive energy, <u>measured in kVarh</u> into the transmission system (i.e. bi-directional flows) for each half-hour interval.	To refine requirements.																
MC/2007/15	2.9.1	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;"><b>Type of Meter or Associated Facility</b></th> <th style="text-align: left;"><b>Cycle</b></th> </tr> </thead> <tbody> <tr> <td>Generating Unit</td> <td>At least once every two years, timed to coincide with the generating unit being out of service</td> </tr> <tr> <td>Pool Meter and Intertie Meter</td> <td>Once every two years</td> </tr> <tr> <td>...</td> <td></td> </tr> </tbody> </table>	<b>Type of Meter or Associated Facility</b>	<b>Cycle</b>	Generating Unit	At least once every two years, timed to coincide with the generating unit being out of service	Pool Meter and Intertie Meter	Once every two years	...		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;"><b>Type of Meter or Associated Facility</b></th> <th style="text-align: left;"><b>Cycle</b></th> </tr> </thead> <tbody> <tr> <td>Generating Unit</td> <td><del>At least</del> Once every two years; <del>timed to coincide with the generating unit being out of service</del></td> </tr> <tr> <td><u>Embedded Generation Facility (Including installation meter connected to the transmission system)</u></td> <td><u>Prevailing cycle for associated installation meter shall applies</u></td> </tr> <tr> <td>...</td> <td></td> </tr> </tbody> </table>	<b>Type of Meter or Associated Facility</b>	<b>Cycle</b>	Generating Unit	<del>At least</del> Once every two years; <del>timed to coincide with the generating unit being out of service</del>	<u>Embedded Generation Facility (Including installation meter connected to the transmission system)</u>	<u>Prevailing cycle for associated installation meter shall applies</u>	...		To refine installation test cycle requirement for a generating unit, in addition, to specify installation test cycle for EGF.
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MC/2007/16	3.7.1	For metered entities having interval meters, the MR for the meter installation shall deliver the following raw meter data to the MDM for the meter installation in such data format as may be determined by the MDM, subject to all delivered metering data having been validated in accordance with the procedures delineated in section 3.4:  a. the meter identification number;	For metered entities having interval meters, the MR for the meter installation shall deliver the following raw meter data to the MDM for the meter installation in such data format as may be determined by the MDM, subject to all delivered metering data having been validated in accordance with the procedures delineated in section 3.4:  a. The meter identification number;	EGF could inject energy into the transmission system for market settlement and thus associated meter data to be read by MR.																

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		<p>b. energy used or withdrawn (kWh) in each half hour for all half-hour intervals in the meter reading period along with the date and time of the half hour interval</p> <p>c. for metered entities that are billed for reactive power, the reactive load used (kVarh) in each half hour for all half-hour intervals in the meter reading period along with the date and time of the half hour interval;</p> <p>d. a flag for each half-hour interval in which a pulse overflow condition exists;</p> <p>e. details for meter reading in which the meter clock differs from the meter reading device clock by more than three minutes;</p> <p>f. details of any meter alarms that were recorded during the period (e.g., power failure, VT failure); and</p>	<p>b. Energy used or withdrawn (kWh/kVarh) in each half hour for all half-hour intervals in the meter reading period along with the date and time of the half hour interval</p> <p>c. <u>For a generation facility or an embedded generation facility, the energy injected (kWh/kVarh) in each half hour for all half-hour intervals in the meter reading period along with the date and time of the half hour interval;</u></p> <p>e. A flag for each half-hour interval in which a pulse overflow condition exists;</p> <p>f. Details for meter reading in which the meter clock differs from the meter reading device clock by more than three minutes;</p> <p>g. Details of any meter alarms that were recorded during the period (e.g., power failure, VT failure); and</p>																	
MC/2007/17	4.2.1	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><b>Type of Metered Entity or Meter Installation</b></th> <th style="text-align: left;"><b>Meter Reading Frequency</b></th> </tr> </thead> <tbody> <tr> <td>Generating Unit</td> <td>Every business day</td> </tr> <tr> <td>Pool Meter and Intertie Meter</td> <td>Every business day</td> </tr> <tr> <td>...</td> <td></td> </tr> </tbody> </table>	<b>Type of Metered Entity or Meter Installation</b>	<b>Meter Reading Frequency</b>	Generating Unit	Every business day	Pool Meter and Intertie Meter	Every business day	...		<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><b>Type of Metered Entity or Meter Installation</b></th> <th style="text-align: left;"><b>Meter Reading Frequency</b></th> </tr> </thead> <tbody> <tr> <td>Generating Unit</td> <td>Every business day</td> </tr> <tr> <td>Embedded Generation Facility <u>(Including installation meter connected to the transmission system)</u></td> <td>Every business day</td> </tr> <tr> <td>...</td> <td></td> </tr> </tbody> </table>	<b>Type of Metered Entity or Meter Installation</b>	<b>Meter Reading Frequency</b>	Generating Unit	Every business day	Embedded Generation Facility <u>(Including installation meter connected to the transmission system)</u>	Every business day	...		To add EGF and associated installation meter for meter reading frequency, as current requirement for “non-market participant consumer connected to the transmission system at a level below 66kV” is only read on a business day, once every week.
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MC/2007/18	4.4.1(c)	For meter installations other than a generator meter, intertie meter or a pool meter, where half hour interval kVarh data are recorded, check for intervals where reactive load is present and active load is not, indicating an unusual or abnormal usage pattern and possible meter malfunction. The MDM shall flag these intervals.	For meter installations other than a <del>generator</del> <u>generation</u> meter, intertie meter or a pool meter, where half hour interval kVarh data are recorded, check for intervals where reactive load is present and active load is not, indicating an unusual or abnormal usage pattern and possible meter malfunction. The MDM shall flag these intervals.	To refine requirements.
MC/2007/19	4.5.9	If the interval data is from a generator licensee meter, intertie meter or a pool meter, it shall not have the data validation tests as described in section 4.5 applied. Estimation procedures for generator licensee meter, intertie meter or a pool meter, shall be implemented by the MDM when the relevant interval data is deemed missing.	If the interval data is from a <del>generator licensee</del> <u>generation</u> meter, intertie meter or a pool meter, it shall not have the data validation tests as described in section 4.5 applied. Estimation procedures for a <del>generator licensee</del> <u>generation</u> meter, intertie meter or a pool meter, shall be implemented by the MDM when the relevant interval data is deemed missing.	To include Wholesaler Licensee (Generation)'s generation meter.
MC/2007/20	4.6.5(i)	A Generation Licensee for a generation meter. The generation Licensee may use any means it deems appropriate, but in any case will provide justification for the approach adopted, along with supporting evidence to justify their estimation for each occasion an estimate is requested. Such information shall be recorded by the MDM and made available to the Authority or surveillance panel at their request, to support an investigation into inappropriate behaviour.	A Generation Licensee <u>or a Wholesaler Licensee (Generation)</u> for a generation meter. The generation Licensee <u>or a Wholesaler Licensee (Generation)</u> may use any means it deems appropriate, but in any case will provide justification for the approach adopted, along with supporting evidence to justify their estimation for each occasion an estimate is requested. Such information shall be recorded by the MDM and made available to the Authority or surveillance panel at their request, to support an investigation into inappropriate behaviour.	To include Wholesaler Licensee (Generation) to provide justification for the approach adopted in the event of intervals deemed missing from the MR initial data validation tests as stipulated in section 3.4.
MC/2007/22	4.8.1	$WEQ_h^a$ = Loss adjusted, withdrawal energy quantity (in MWh), deemed to be withdrawn at the Singapore HUB, by the market participant with the settlement account a for settlement interval h.	$WEQ_h^a$ = Loss adjusted, withdrawal energy quantity (in MWh), deemed to be withdrawn at the Singapore HUB, by <del>the market participant</del> <u>all load facilities associated with the settlement account a for settlement interval h, grossed up to include injection energy quantities for all groups of embedded generation facilities</u>	To clarify that WEQ is a gross quantity and for consistency with the proposed change to the market rules.  To introduce the term WCQ and to specify

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			<p><u>WCQ<sub>h</sub><sup>a</sup> = total withdrawal charge quantity (in MWh), being the quantity of energy determined as follows:</u></p> <p style="padding-left: 40px;"><u>= WEQ<sub>h</sub><sup>a</sup> minus sum of all injection energy quantities for all groups of embedded generation facilities, which have been classified as non-injecting under the Market Rules, and whose loads are associated with settlement account a for settlement interval h</u></p>	how it is determined.
MC/2007/23	4.8.2	<p><i>TLF<sup>p</sup></i> = Transmission loss factor for each pool meter as defined in the Market Support Services Code</p> <p><i>TLF<sup>r</sup></i> = Transmission loss factor for consumer r at each voltage level as defined in the Market Support Services Code</p> <p><i>TLF<sup>grf</sup></i> = Transmission loss factor for generation registered facilities <i>grf</i> at each voltage level as defined in the Market Support Services Code</p>	<p><i>TLF<sup>p</sup></i> = Transmission loss factor for each pool meter as <del>defined</del> stipulated in section 6.1.4 of the Market Support Services Code</p> <p><i>TLF<sup>r</sup></i> = Transmission loss factor for consumer r at each voltage level as <del>defined</del> stipulated in section 6.1.4 of the Market Support Services Code</p> <p><i>TLF<sup>grf</sup></i> = Transmission loss factor for generation registered facilities <i>grf</i> at each voltage level as <del>defined</del> stipulated in section 6.1.4 of the Market Support Services Code</p>	To specify reference
MC/2007/24	4.8.3	None as this is an inserted section.	<p><u>For each electricity licensee who has been approved by the Authority for price neutralization under Chapter 7 section 4.4 of the market rules, the MDM shall calculate the aggregate WPQ for each settlement interval for each authorized settlement account, as defined in the market rules:</u></p> <p style="padding-left: 40px;"><u>WPQ<sub>h</sub> = total withdrawal price quantity (in MWh) determined for the purpose of (USEP</u></p>	<p>To introduce the term WPQ and to specify how it is determined.</p> <p>WPQ is separated from 4.8.1, as it is only required for specific meter installations.</p>

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			+ HEUC) nodal price neutralization as defined in the market rules, being the quantity of energy deemed to be withdrawn at the SHUB for settlement interval h by the associated load (as defined in section 4.4.4 of Chapter 7 of the Market Rules) for each group of embedded generation facilities	
MC/2007/25	4.9.1(a)	The quantities of IEQ, WEQ and IIQ defined in section 4.8.1 for each settlement account, as defined in the market rules, associated with that meter installation; and	The quantities of IEQ, WEQ, <u>WCQ, and IIQ and, when required by the market rules, WPQ, as defined in sections 4.8.1 and 4.8.3</u> for each settlement account, as defined in the market rules, associated with that meter installation; and	To include WCQ and WPQ.
MC/2007/26	4.9.2	No later than the close of business on the fifth business day after a trading day, as defined in the market rules, the MDM for a meter installation shall deliver to each market participant retailer associated with that meter installation via the retail electronic business transaction system validated, unadjusted metering data and loss-adjusted metering data for each meter used for settlement purposes in the retail electricity market and associated with each market participant consumer that purchases electricity from that market participant retailer.	No later than the close of business on the fifth business day after a trading day, as defined in the market rules, the MDM for a meter installation shall deliver to each market participant retailer associated with that meter installation via the retail electronic business transaction system validated, unadjusted metering data and loss-adjusted metering data for each meter used for settlement purposes in the retail electricity market and associated with each market participant consumer that purchases electricity from that market participant retailer. <u>The MDM shall also deliver the unadjusted metering data and loss adjusted metering data for those non-injecting embedded generation facilities.</u>	To include WCQ for delivery of metering data.
MC/2007/27	4.9.3	No later than the close of business on the fifth business day after a trading day, as defined in the market rules, the MDM for a meter installation shall deliver via the retail electronic business transaction system to each market participant retailer associated	No later than the close of business on the fifth business day after a trading day, as defined in the market rules, the MDM for a meter installation shall deliver via the retail electronic business transaction system to each market participant retailer	To include WCQ for delivery of metering data.

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		with that meter installation that is not being served by a market participant retailer validated, unadjusted metering data and loss-adjusted metering data for each meter used for settlement purposes in the retail electricity market associated with that market participant consumer.	associated with that meter installation that is not being served by a market participant retailer validated, unadjusted metering data and loss-adjusted metering data for each meter used for settlement purposes in the retail electricity market associated with that market participant consumer. <u>The MDM shall also deliver the unadjusted metering data and loss adjusted metering data for those non-injecting embedded generation facilities</u>	
MC/2007/28	4.9.4	No later than the close of business on the fifth business day following the meter read date, the MDM for a meter installation shall deliver to the applicable market support services licensee validated unadjusted metering data and loss-adjusted metering data for each meter that is used for settlement purposes in the retail electricity market of for settlement for regulated supply service as follows:  (a) If the MDM for ammeter installation and the applicable market support services licensee are the same entity, this data may be transferred by whatever internal systems are suitable for this task; or  (b) If the MDM for a meter installation and the applicable market support services licensee are not the same entity, the data shall be transmitted via the electronic business transaction system.	No later than the close of business on the fifth business day following the meter read date, the MDM for a meter installation shall deliver to the applicable market support services licensee validated unadjusted metering data and loss-adjusted metering data for each meter that is used for settlement purposes in the retail electricity market of for settlement for regulated supply service as follows:  (a) If the MDM for a meter installation and the applicable market support services licensee are the same entity, this data may be transferred by whatever internal systems are suitable for this task; or  (b) If the MDM for a meter installation and the applicable market support services licensee are not the same entity, the data shall be transmitted via the electronic business transaction system.  <u>The MDM shall also deliver the unadjusted metering data and loss adjusted metering data for those non-injecting embedded generation facilities.</u>	To include WCQ for delivery of metering data.
MC/2007/29	4.9.5	The MDM for a meter installation shall accommodate a request by a non-market participant retailer or non-	The MDM for a meter installation shall accommodate a request by a non-market participant	To include WCQ for request to receive

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		<p>market participant consumer associated with that meter installation, but not served by a non-market participant retailer to receive data from an interval meter directly from the MDM according to a schedule and via a transmission process that is mutually agreeable among the parties. The price charged for such services shall cover the full incremental cost of providing the service and shall be subject to approval by the Authority.</p>	<p>retailer or non-market participant consumer associated with that meter installation, but not served by a non-market participant retailer, to receive data from an interval meter directly from the MDM according to a schedule and via a transmission process that is mutually agreeable among the parties. <u>The MDM shall also accommodate a request to receive unadjusted metering data and loss adjusted metering data for those non-injecting embedded generation facilities.</u> The price charged for such services shall cover the full incremental cost of providing the service and shall be subject to approval by the Authority.</p>	<p>metering data.</p>