

## Energy Market Authority of Singapore

### Appendix 1

#### Proposed Modifications to the Market Support Services Code

Modification Ref. No.	Clause	Original text	Modified text	Reasons
MSSC/2010/1	1.3.1	“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;	“embedded generation facility” means a generation facility that has been classified as such in accordance with <del>section 4.4 of Chapter 7</del> of the Market Rules;	Update definition of embedded generation facility.
MSSC/2010/2	1.3.1	“classified associated load” means the load being directly supplied by a non-injecting embedded generation facility	“classified associated load” means the load being directly supplied by an <del>non-injecting</del> embedded generation facility	To remove the reference to non-injecting embedded generation facility.
MSSC/2010/3	1.3.1	“non-injecting embedded generation facility” means an embedded generation facility approved for classification as non-injecting by the Authority under the Market Rules;	<del>“non-injecting embedded generation facility” means an embedded generation facility approved for classification as non-injecting by the Authority under the Market Rules;</del>	To remove the definition of non-injecting embedded generation facility.

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Modification Ref. No.	Clause	Original text	Modified text	Reasons
MSSC/2010/4	6.1.3	$E_h^{c-eg,r}$ = 0, if there is no classified non-injecting embedded generation that is a GRF or GSF and that provides power directly to consumer $r$ ; or  Energy in kWh generated in half-hour $h$ by all classified non-injecting embedded generation facilities that provide power directly to consumer $r$ as recorded by the meters measuring the embedded generation facility's direct supply of electricity to consumer $r$	$E_h^{c-eg,r}$ = 0, if there is no classified <del>non-</del> injecting embedded generation that is a GRF or GSF and that provides power directly to consumer $r$ ; or  Energy in kWh generated in half-hour $h$ by all classified <del>non-</del> injecting embedded generation facilities that provide power directly to consumer $r$ as recorded by the meters measuring the embedded generation facility's direct supply of electricity to consumer $r$	Remove reference to non-injecting embedded generation facility
MSSC/2010/5	6.5.6	A Market Support Services Licensee shall list the item “cumulative electricity usage (kWh) during the billing period” as described in sections 6.5.1-6.5.4, on both a gross and a net load basis for those accounts that contain non-injecting embedded generation facilities.	A Market Support Services Licensee shall list the item “cumulative electricity usage (kWh) during the billing period” as described in sections 6.5.1-6.5.4, on both a gross and a net load basis for those accounts that contain <del>non-</del> injecting embedded generation facilities.	Remove reference to non-injecting embedded generation facility

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Modification Ref. No.	Clause	Original text	Modified text	Reasons
MSSC/2010/6	11.1.1	<p>A Market Support Services Licensee shall ensure that the following information is maintained for each contestable consumer and is available for transmittal upon receipt of a valid service transaction request seeking such information:</p> <p>(o) Where a consumer has presented a valid copy of approval from the Authority stating that their embedded generation facility has been classified as a non-injecting embedded generation facility, the Market Support Services Licensee shall maintain a record of such an approval, along with details of the embedded generation facilities covered by the approval and the approval number as issued by the Authority.</p>	<p>A Market Support Services Licensee shall ensure that the following information is maintained for each contestable consumer and is available for transmittal upon receipt of a valid service transaction request seeking such information:</p> <p>(o) Where a consumer has presented a valid copy of approval from the Authority stating that their <del>embedded</del> generation facility has been classified as a <del>non-injecting</del> embedded generation facility, the Market Support Services Licensee shall maintain a record of such an approval, along with details of the embedded generation facilities covered by the approval and the approval number as issued by the Authority.</p>	<p>Remove reference to non-injecting embedded generation facility and clarify that Authority's approval is required for classification of embedded generation facility.</p>
MSSC/2010/7	13.2.3 A	New	<p><u>For a consumer with embedded generation, a Market Support Services Licensee shall use the same two-step process outlined in section 13.2.3 to determine the maximum allowable amount of security, except that the amount in Step 1 shall be determined using the sum of the average monthly withdrawal from the network and the average monthly generation.</u></p>	<p>New clause inserted to set the maximum security quantity for facilities with embedded generation.</p> <p>Note that the sum of two averages is the same as the average of the two sums.</p>

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### Proposed Modifications to the Metering Code

Modification Ref. No.	Clause	Original text	Modified text	Reasons
MC/2010/1	1.4.1	“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;	“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;	Update definition of embedded generation facility.
MC/2010/2	1.4.1	New	<u>“MEUC” refers to the monthly energy uplift charge, which is estimated by the EMC under section 3.5.3 of chapter 7. of the Market Rules</u>	Definition added. The term is defined within the Market Rules and is included in the Code for completeness.
MC/2010/3	1.4.1	“non-injecting embedded generation facility” means an embedded generation facility approved for classification as non-injecting by the Authority under the Market Rules;	<del>“non-injecting embedded generation facility” means an embedded generation facility approved for classification as non-injecting by the Authority under the Market Rules;</del>	To remove the definition of non-injecting embedded generation facility.
MC/2010/4	4.8.1	$WCQ_h^a$ = total withdrawal charge quantity (in MWh), being the quantity of energy determined as follows: $WEQ_h^a$ 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	<del><math>WCQ_h^a</math> = total withdrawal charge quantity (in MWh), being the quantity of energy determined as follows:  <math>WEQ_h^a</math> 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</del>	Quantity no longer required
MC/2010/5	4.8.1	New	<u><math>WFQ_h^a</math> = total withdrawal fee quantity (in</u>	New quantity to

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			<p><u>MWh) for settlement account a for settlement interval h, being the quantity of energy determined as follows:</u>  <u>sum of</u>  <u>sum of net withdrawal or net injection energy quantities for every group of embedded generation facilities and its associated load which are associated with settlement account a for settlement interval h; and</u>  <u>withdrawal energy quantity of any other load associated with settlement account a for settlement interval h, which are not associated with any group of embedded generation facilities.</u></p>	<p>measure the withdrawal from the transmission or distribution system for a load associated with a settlement quantity a</p> <p>WFQ is required for the EMC to determine the amount of PSO fee and EMC fee to be charged to a settlement account for a settlement interval. Each group of embedded generation facilities (which is comprised wholly of embedded generation facilities) and their associated load will be charged PSO fee and EMC fee based on “net injection” or “net withdrawal”</p>
MC/2010/6	4.8.1	New	<p><u><math>WFQ_h^{MSSL}</math> = total withdrawal fee quantity (in MWh) for all non-contestable consumers and all non-market participant consumers, calculated in accordance with section 4.8.2, determined as follows:</u>  <u>sum of</u>  <u>sum of net withdrawal energy quantities for every group of</u></p>	<p>New quantity to measure the withdrawal from the transmission or distribution system for loads not associated with settlement</p> <p>WFQ is required for the</p>

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			<p><u>embedded generation facilities and its associated load which are associated with a non-contestable consumer or non-market participant consumer for settlement interval h;</u>  <u>and</u>  <u>withdrawal energy quantity of any other load associated with non-contestable consumers and all non-market participant consumers for settlement interval h, which are not associated with any group of embedded generation facilities.</u></p>	<p>EMC to determine the amount of PSO fee and EMC fee to be charged to all non-contestable consumers and all non-market participant consumers. Each group of embedded generation facilities (which is comprised wholly of embedded generation facilities) and their associated load will be charged PSO fee and EMC fee based on “net injection” or “net withdrawal”</p>
MC/2010/7	4.8.1	New	<p><u>WMQ<sub>h</sub><sup>a</sup> = total withdrawal MEUC quantity (in MWh) for settlement account a for settlement interval h, being the quantity of energy determined as follows:</u>  <u>sum of</u>  <u>sum of net withdrawal energy quantities for every group of embedded generation facilities and its associated load which are associated with settlement account a for settlement interval h; and</u>  <u>withdrawal energy quantity of any other load associated with</u></p>	<p>New quantity to measure the withdrawal from the transmission or distribution system for loads not associated with settlement</p> <p>WMQ is required for the EMC to determine the amount of MEUC cost to be charged to a settlement account for a settlement interval. Each group of</p>

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			<p><u>settlement account a for settlement interval h, which are not associated with any group of embedded generation facilities;</u></p>	<p>embedded generation facilities (which is comprised wholly of non-injecting generation facilities embedded generation facilities) and their associated load will be charged MEUC cost based on 'net load'. All other load will be charged MEUC cost based on 'gross load'.</p>
MC/2010/8	4.8.1	New	<p><u>WMQ<sub>n</sub><sup>MSSL</sup> = total withdrawal MEUC quantity (in MWh) for all non-contestable consumers and all non-market participant consumers, calculated in accordance with section 4.8.2, determined as follows:</u>  <u>sum of</u>  <u>sum of net withdrawal energy quantities for every group of embedded generation facilities and its associated load which are associated with a non-contestable consumer or non-market participant consumer for settlement interval h;</u>  <u>and</u>  <u>withdrawal energy quantity of any other load associated with non-</u></p>	<p>New quantity to measure the withdrawal from the transmission or distribution system for loads not associated with settlement</p> <p>WMQ is required for the EMC to determine the amount of MEUC cost to be charged to a settlement account for a settlement interval. Each group of embedded generation facilities (which is comprised wholly of</p>

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			<p style="text-align: center;"><u>contestable consumers and all non-market participant consumers for settlement interval h, which are not associated with any group of embedded generation facilities;</u></p>	<p>non-injecting generation facilities embedded generation facilities) and their associated load will be charged MEUC cost based on 'net load'. All other load will be charged MEUC cost based on 'gross load'.</p>
MC/2010/9	4.8.2	<p>WEQ<sub>h</sub><sup>MSSL</sup> shall be calculated as the sum of all withdrawals measured at each pool meter, adjusted for losses, plus the sum of all withdrawals at load facilities by Non-market Participant consumer and non-contestable consumers connected to the transmission system at 66kV or above, adjusted for losses, minus the sum of all withdrawals at load facilities by Market Participant Consumers connected to the transmission system at a level below 66kV, adjusted for losses, plus the quantity injected by all Generation Licensees at voltages below 66kV, adjusted for losses. This calculation is illustrated in Equation 4.1.</p> <p style="text-align: center;">Equation 4.1</p>	<p>WEQ<sub>h</sub><sup>MSSL</sup> shall be calculated as the sum of all withdrawals measured at each pool meter, adjusted for losses, plus the sum of all withdrawals at load facilities by Non-market Participant consumer and non-contestable consumers connected to the transmission system at 66kV or above, adjusted for losses, minus the sum of all withdrawals at load facilities by Market Participant Consumers connected to the transmission system at a level below 66kV, adjusted for losses, plus the quantity injected by all Generation Licensees at voltages below 66kV, adjusted for losses. This calculation is illustrated in Equation 4.1.</p> <p style="text-align: center;">Equation 4.1</p>	<p>Revised Equation 4.1 for consistency with the added Equations 4.2 and 4.3.</p>

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		$WEQ_h^{MSSL} = \left[ \sum_p E_h^p \cdot ADJ^p \cdot TLF^p \right] + \left[ \sum_{mp} E_h^{nmpc \geq 66kV} \cdot TLF^r \right]$ $- \left[ \sum_{mp} E_h^{mpc < 66kV} \cdot TLF^r \right] + \left[ \sum_{mp} E_h^{GF} \cdot ADJ^{GF} \cdot TLF^{GF} \right]$ <p> <math>TLF^p</math> = Transmission loss factor for each pool meter as stipulated in section 6.1.4 of the Market Support Services Code  <math>ADJ^p</math> = Site-specific adjustment factor for each pool meter to reflect transformer losses as defined in the Market Support Services Code and the Code  <math>E^p</math> = Energy withdrawn at pool meter p  <math>E_h^{nmpc \geq 66kV}</math> = Gross energy withdrawn at load facilities, as defined in the market rules, other than through pool meters and intertie meters, by non-market participant consumers and non-contestable consumers connected to the transmission system at 66kV or above  <math>E_h^{mpc &lt; 66kV}</math> = Gross energy withdrawn at load facilities by Market Participant Consumers connected to the transmission system at a level below 66kV  <math>TLF^r</math> = Transmission loss factor for consumer r at each voltage level as stipulated in section 6.1.4 of the Market Support Services Code  <math>TLF^{GF}</math> = Transmission loss factor for GF at                 </p>	$WEQ_h^{MSSL} = \sum_p \left( E_h^p \times ADJ^p \times TLF^p \right) + \sum_{mp} \left( E_{h,mp}^{nmpc \geq 66kV} \times TLF^r \right)$ $- \sum_{mp} \left( E_{h,mp}^{mpc < 66kV} \times TLF^r \right) + \sum_{mp} \left( E_{h,mp}^{GF} \times ADJ^{GF} \times TLF^{GF} \right)$ <p> <math>TLF^p</math> = Transmission loss factor for each pool meter as stipulated in section 6.1.4 of the Market Support Services Code  <math>ADJ^p</math> = Site-specific adjustment factor for each pool meter to reflect transformer losses as defined in the Market Support Services Code and the Code  <math>E_h^p</math> = Energy withdrawn at pool meter p <u>in settlement interval h</u>  <math>E_{h,mp}^{nmpc \geq 66kV}</math> = Gross energy withdrawn at load facilities, as defined in the market rules, other than through pool meters and intertie meters, by non-market participant consumers and non-contestable consumers connected to the transmission system at 66kV or above <u>in settlement interval h at non-pool meter point mp</u>  <math>E_{h,mp}^{mpc &lt; 66kV}</math> = Gross energy withdrawn at load facilities by Market Participant Consumers connected to the transmission system at a level below 66kV <u>in settlement interval h at non-pool meter point mp</u>  <math>TLF^r</math> = Transmission loss factor for                 </p>	

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		<p>each voltage level as stipulated in section 6.1.4 of Market Support Services Code</p> <p><math>E_h^{GF}</math> = Energy injected onto the transmission system by a GF connected to the transmission system at voltages below 66kV</p> <p><math>ADJ^{GF}</math> = Site-specific adjustment factor for each GF as a result of connection at busbars of different voltages, if applicable, as defined in the Market Support Services Code and the Code</p>	<p>consumer r at each voltage level as stipulated in section 6.1.4 of the Market Support Services Code</p> <p><math>TLF^{GF}</math> = Transmission loss factor for GF at each voltage level as stipulated in section 6.1.4 of Market Support Services Code</p> <p><math>E_{h,mp}^{GF}</math> = Energy injected onto the transmission system by a GF connected to the transmission system at voltages below 66kV <u>in settlement interval h at non-pool meter point mp</u></p> <p><math>ADJ^{GF}</math> = Site-specific adjustment factor for each GF as a result of connection at busbars of different voltages, if applicable, as defined in the Market Support Services Code and the Code</p> <p>mp = A non-pool meter point</p>	
MC/2010/10	4.8.2	New	<p><u><math>WMQ_h^{MSSL}</math> shall be calculated as sum of, sum of net withdrawal energy quantities for every group of embedded generation facilities and its associated load which are associated with a non-contestable consumer or non-market participant consumer and withdrawal energy quantity of any other load associated with non-contestable consumers, and all non-market participant consumers for settlement interval h, which are not associated with any group of embedded generation facilities. This calculation is illustrated in Equation 4.2.</u></p>	<p>New clause inserted to describe how <math>WMQ_h^{MSSL}</math> and <math>WFQ_h^{MSSL}</math> are calculated</p>

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			<p style="text-align: center;"><u>Equation 4.2</u></p> $WMQ_h^{MSSL} = WEQ_h^{MSSL} - \sum_f \left( (E_{h,f} + E_{h,f}^G \times ADJ_f^{GF}) \times TLF^r \right) + \sum_f \left( \text{Max}(E_{h,f}, 0) \times TLF^r \right)$ <p><u>WFQ<sub>h</sub><sup>MSSL</sup> shall be calculated as the sum of net withdrawal energy quantities for every group of embedded generation facilities and its associated load which are not associated with any settlement account a for settlement interval h; and the withdrawal energy quantity of any other load which is not associated with any settlement account a for settlement interval h and not associated with any group of embedded generation facilities. . This calculation is illustrated in Equation 4.3.</u></p> <p style="text-align: center;"><u>Equation 4.3</u></p> $WFQ_h^{MSSL} = WEQ_h^{MSSL} - \sum_f \left( (E_{h,f} + E_{h,f}^G \times ADJ_f^{GF}) \times TLF^r \right) + \sum_f  E_{h,f} \times TLF^r $ <p><u>E<sub>h,f</sub> = The withdrawal at the embedded</u></p>	

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			<p><u>generation facility <math>f</math> (for the purposes of this calculation, <math>E_{h,f}</math> represents a net withdrawal)</u></p> <p><u><math>E_{h,f}^G</math> = The generation at the embedded generation facility <math>f</math> (this is different to <math>E_h^{GF}</math> used to calculate WEQ which is defined in 4.8.2 to be with respect all generation embedded or otherwise, at voltages less than 66 kV)</u></p> <p><u><math>TLF^r</math> = The transmission loss factor for consumer <math>r</math> at each voltage level as stipulated in section 6.1.4 of the Market Services Support code</u></p> <p><u><math>ADJ^{GF}</math> = Site-specific adjustment factor for each embedded generation facility as a result of connection at busbars of different voltages, if applicable, as defined in the Market Support Services Code and the Code</u></p> <p><u><math>f</math> = a facility which for the purposes of this clause includes loads with and without embedded generation</u></p> <p><u><math>r</math> = the consumer associated with facility <math>f</math></u></p>	

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MC/2010/11	4.9.1	<p>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 the Market Company by such means as may be prescribed in the market rules:</p> <p>(a) the quantities IEQ, WEQ, WCQ, IIQ and, when required by the market rules, WPQ, as defined in sections 4.8.1 and 4.8.3 for each settlement account, as defined in the market rules, associated with that meter installation; and</p> <p>(b) the metered data underlying the quantity IEQ for each GRF associated with that meter installation.</p>	<p>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 the Market Company by such means as may be prescribed in the market rules:</p> <p>(a) the quantities IEQ, WEQ, <del>WCQ</del>, <u>WMQ, WFQ</u> when required by the market rules, WPQ, as defined in sections 4.8.1 and 4.8.3 for each settlement account, as defined in the market rules, associated with that meter installation; and</p> <p>(b) the metered data underlying the quantity IEQ for each GRF associated with that meter installation.</p>	Insert the additional quantities required and remove WCQ
MC/2010/12	4.9.2	<p>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. The MDM shall also deliver the unadjusted metering data and loss adjusted</p>	<p>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. The MDM shall also deliver the unadjusted metering data and loss adjusted</p>	Remove the reference to non-injecting embedded generation facility.

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		metering data for those non-injecting embedded generation facilities	metering data for those <del>non-injecting</del> embedded generation facilities	
MC/2010/13	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 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. The MDM shall also deliver the unadjusted metering data and loss adjusted metering data for those non-injecting embedded generation facilities	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 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. The MDM shall also deliver the unadjusted metering data and loss adjusted metering data for those <del>non-injecting</del> -embedded generation facilities	To remove the reference to non-injecting embedded generation facility.
MC/2010/14	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 or for settlement purposes 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	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 or for settlement purposes 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	To remove the reference to non-injecting embedded generation facility.

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		<p>transferred by whatever internal systems are suitable for this task; or</p> <p>(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 retail electronic business transaction system.</p> <p>The MDM shall also deliver the unadjusted metering data and loss adjusted metering data for those non-injecting embedded generation facilities.</p>	<p>transferred by whatever internal systems are suitable for this task; or</p> <p>(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 retail electronic business transaction system.</p> <p>The MDM shall also deliver the unadjusted metering data and loss adjusted metering data for those <del>non-injecting</del> embedded generation facilities.</p>	
MC/2010/15	4.9.5	<p>The MDM for a meter installation shall accommodate a request by a non-market participant 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. The MDM shall also accommodate a request to receive unadjusted metering data and loss adjusted metering data for those non-injecting embedded generation facilities. 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>The MDM for a meter installation shall accommodate a request by a non-market participant 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. The MDM shall also accommodate a request to receive unadjusted metering data and loss adjusted metering data for those <del>non-injecting</del> embedded generation facilities. 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>To remove the reference to non-injecting embedded generation facility.</p>