

Tx Gross Load Billing – embedded generation registration process issues

Gross load billing (Transmission)

- The following in the OEB approved Ontario Universal Transmission Rate Schedule authorizes Gross Load Billing of Transmission Line and Transformation Connection Charges

The Billing Demand for Line and Transformation Connection Services is defined as the Non-Coincident Peak demand (MW) in any hour of the month. The customer demand in any hour is the sum of (a) the loss-adjusted demand supplied from the transmission system plus (b) the demand that is supplied by embedded generation for which the required government approvals are obtained after October 30, 1998 and which have installed capacity of 2MW or more for renewable generation and 1 MW or higher for non-renewable generation. The term renewable generation refers to a facility that generates electricity from the following sources: wind, solar, Biomass, Bio-oil, Bio-gas, landfill gas, or water. The demand supplied by embedded generation will not be adjusted for losses.

Gross Load Billing Implementation

- GLB applies to the TX/DX customers applicable billings, not the generators.
- GLB thresholds (1 MW for non-renewable and 2 MW for renewable) refer to unit capacity (in solar case inverter capacity), not site capacity. Eg. A solar farm with 10 MW (20 x 0.5 MW inverter) capacity would not trigger GLB.
- GLB applies to the incremental capacity of a refurbished legacy generator. Eg. GLB applies to the 5 MW incremental capacity of a refurbished 7 MW Legacy generator with 2 MW old capacity.

Metering requirements

http://www.ieso.ca/Documents/marketRules/mr_chapter6.pdf

Section 4.5

- Install and include wholesale revenue meter in totalization table.

Or

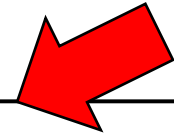
- Submit form IMO-FORM-1563. GLB adjustment performed on annual basis.

Transmitter submission to the IESO

Appendix B: Sample of Transmitters List

This Appendix contains a sample of a 'Transmitters List' submitted to the IESO by a transmitter. The list informs the IESO of transmission customers associated with a delivery point. The list is sent by email as: XYZ_YYYY_MM_DD

TRANSMITTER: (e.g. XYZ)

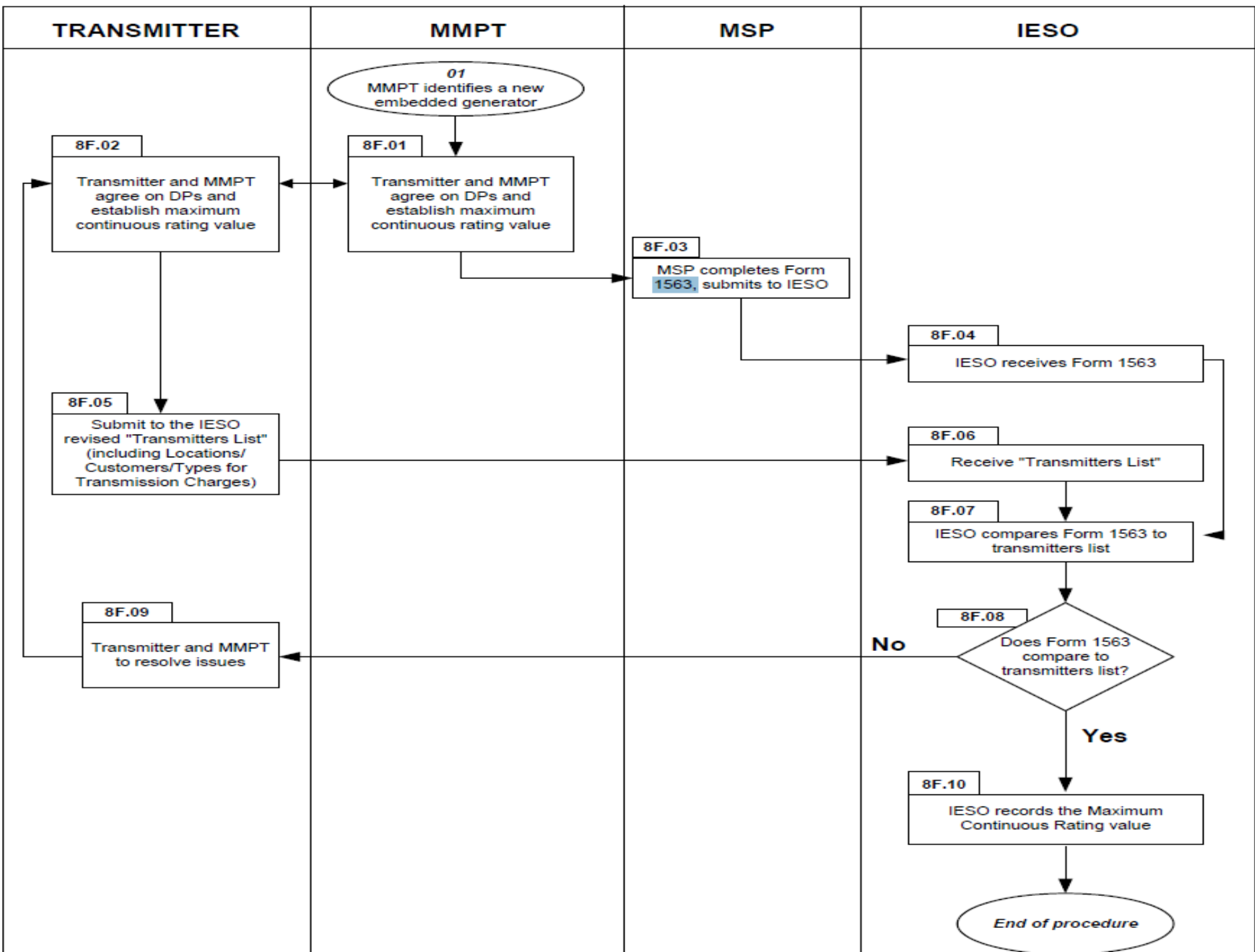


Facility Name (Station)	Transmission Customer Name	Transmission Network DP	Transmission Connection DP	Pays Transformation Connection Pool?	Pays Line Connection Pool?	Embedded Generator				IESO Effective Date	Transmitter Effective Date
						Generator Name	Maximum Continuous Rating (MW)	Wholesale Registered Meter/Form 1563	Start Date of Generator		
Station TS	Town Utilities Corporation	100001	100002	Yes	Yes	Town District Energy		WRM	2002/05/01	2007/01/01	2006/11/01
						General Hospital Co-Generation	4.5	Form 1563	2007/01/01		

MSP IMO-FORM -1563 submission to the IESO

Figure 2-6: Work Flow for an Embedded Generation Facility registered under the Alternative Metering Installation Standards for Embedded Generation Facilities

See next slide



Hydro One GLB business process – customer notification

- Issue 1: Recent audit identified GLB eligible generators where customers were not aware of GLB eligibility.
- Resolution: Hydro One Connection Impact Assessment (CIA) process now includes GLB assessment for generators with size 1MW or more, to make customers aware of GLB eligibility and settlement impact.

MSP IMO-FORM-1563 GLB form submission

- Issue 2: Hydro One is receiving large number of transmitter list rejections from IESO due to IMO-FORM-1563 and transmitter list mismatch.
- Proposal:
 - Request MMPTs/MSPs to confirm generator name, maximum continuous rating, and generation start dates with transmitter prior to IESO submission.
 - Request MSPs to cc transmitter (TxDx.HydroOne@HydroOne.com) when MSPs send form IMO-FORM-1563 email to IESO.

Upcoming potential changes

- OEB is initiating a policy review to address the question of how a commercial and industrial customer should be billed when they have a Load Displacement Generator (LDG) behind the meter.
- http://www.ontarioenergyboard.ca/oeb/_Documents/Documents/OEBltr_Gross_Load_Billing_Tx_20160329.pdf