



Transmission Tariff Peak System Demand Data Report

Issue 6.0

The Peak System Demand Data Report provides the sum of the hourly measurements across all *delivery points* defined for transmission network charges for each Trading Date / Hour in the reporting month.

REPORT

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Document Change History

Issue	Reason for Issue	Date
1.0	Unapproved version for Baseline 6.1.	April 2, 2001
2.0	Report Filename Change; Update for Multiple Transmitter Support	March 20, 2002
3.0	Name and logo changed to <i>IESO</i>	June 1, 2005
4.0	Add a new version of reports for transmission to ORMS Repository.	March 8, 2006
5.0	Issue release for Baseline 28.0 - Amendment of MR-00392 "Remove Provisions for Physical Allocation Data".	September 12, 2012
6.0	For compliance of the Accessibility for Ontarians with Disabilities Act (AODA)	October 27 2020

Related Documents

Document ID	Document Title
None Yet.	None.

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Reference (Section and Paragraph)	Description of Change
2.2.3	Removed section relating to Physical Allocation Data (PAD) as per market rules MR-00392 “Remove Provisions for Physical Allocation Data”.

1. Introduction

1.1 Purpose

This specification deals with the Peak System *Demand Data Report*. The Peak System *Demand Data Report* is intended to provide transparency to *market participants* regarding the measurements that form the basis for the *IESO's* determination of the *peak system demand* as defined under the *transmitters' Transmission Rate Schedules*.

1.2 Scope

This document specifically covers the structure and content of a Peak System *Demand Data Report*.

1.3 Who Should Use This Document

This document is intended for the *market participants* and any other party interested in the format of *Transmission Tariff*-related reports.

1.4 Conventions

Formal definitions of italicized terms in this document may be found in Chapter 11 of the *IESO* "Market Rules".

- End of Section -

2. Transmission Tariffs

2.1 Overview

The *IESO* has the responsibility for collecting *transmission services charges* from entities participating in the *IESO-administered market* and distributing payments received to the transmitter entitled to such payments. While certain *market participants* as transmitters provide and operate regulated transmission facilities in Ontario, the *IESO* directs the operation of the transmission facilities that are components of the *IESO-controlled grid*. The *IESO* will collect transmission service charges on the basis of the *transmitters'* cost allocation methodology and rate design for the provision of transmission service.

The *IESO Transmission Tariff Demand Calculator (TTDC)* system operates within the *IESO* market systems environment to process measurements from *Registered Wholesale Meters* and provide billing *demand* determinants required for the calculation of Provincial Transmission Service charges. The *IESO* Market Information Management (MIM) system provides interchange export schedule data required for the calculation of the Export Transmission Service charges. The *IESO* Commercial Reconciliation System uses the billing demand determinants and export schedules as it applies the *transmission tariff* rates in the *settlement process*.

2.2 Billing Determination - Business Rules

The *IESO* systems and *settlement* processing for transmission service charges is governed by and subject to the *transmitters'* Transmission Rate Schedules for Provincial Transmission Service (PTS) and Export Transmission Service (ETS) as established by the Ontario Energy Board (OEB). These Transmission Rate Schedules provide a complete description of the basis for the billing *demand* determinants and monthly rates used for the PTS charges and the energy basis and hourly rate used for the ETS charge. The Transmission Rate Schedules should be obtained from the *transmitter*.

Calculation of the *peak system demand* and demand determinants for the PTS charges is based on the methodology outlined in the Transmission Rate Schedule and implementation decisions taken jointly by the *transmitters* and the *IESO* as ordered by the *OEB*. The following provides a synopsis of these implementation decisions or business rules.

2.2.1 Relationship of Transmission *Delivery Points* and *IESO* Defined *Delivery Points*

Transmission *delivery points* as identified by the *transmitters* under the *OEB* approved Transmission Rate Schedules refer to facilities that are directly connected to the *transmitter* owned transmission system.

The *IESO* will define two *delivery points* for the purpose of totaling and loss adjusting energy readings at each Transmission Delivery Point identified by the *transmitters*. A *delivery point* will be defined for every Transmission Delivery Point to determine the billing demand for transmission network service charges. A second *delivery point* will be defined as required to determine the billing demand for line and transformation connection charges.

2.2.2 Billing Demand based on Energy Consumed During the Clock Hour

The IESO Revenue Metering System (RMS) will net *metering* injection and withdrawal channels within each clock hour and report either net withdrawal (W) or net injection (I) values for each clock hour interval (i.e. intervals 1 through 24 each day) for each *delivery point* defined for transmission network charges or transmission connection charges.

The TTDC system will use demand measurements of *energy* consumed during each clock hour interval as reported by RMS. The TTDC system will treat any hourly interval for which an injection (I) has been reported as a zero *demand* interval.

All *metering installations* in the Province of Ontario will reference Eastern Standard Time in accordance with the “Market Rules” Chapter 6, Section 11.2.

2.2.3 Determination of Peak System Demand

Peak system demand will be determined for any one hour on any day of a month based on loads excluding *interchange schedules*. *Peak system demand* will be calculated based on the hourly sum of net withdrawal (W) values reported by RMS for each clock hour interval at all *delivery points* defined for transmission network charges.

The *peak system demand* hour will be designated as a clock hour ending on the hour. For example hour 1 will be the hour ending 0100 hours, hour 2 will be the hour ending 0200 hours, etc.

The TTDC will provide for tie breaking for *peak system demand* intervals selecting the most recent *peak system demand* maximum quantity and interval when such ties occur.

The *peak system demand* date and hour are required for the determination of the *coincident peak demand* for each *delivery point* defined for *transmission* network charges as governed by the Transmission Rate Schedules for Provincial Transmission Service (PTS).

- End of Section -

3. Transmission Tariff – Peak System Demand Data Report

The following report specification deals with the Peak System *Demand* Data Report. This report provides the sum of the hourly measurements across all *delivery points* defined for transmission network charges for each Trading Date / Hour in the reporting month. The Peak System *Demand* Data Report is intended to provide transparency to Market Participants regarding the measurements that form the basis for the IESO's determination of the *peak system demand*. Measurements at specific *delivery points* defined for transmission network charges are confidential and will not be published by the IESO.

The Peak System *Demand* Data Report is available to *market participants* via the All Market Participants (AMP) report tab of the MIM system.

The TTDC system receives hourly measurements for all *delivery points* defined for transmission network charges or transmission connection charges. The hourly measurements are received from the Revenue Metering System (RMS) on a daily basis according to a request schedule found in the Commercial Reconciliation System. This schedule requests that the RMS report on all *delivery points* for the primary trading date. The schedule also requests previously reported trading dates to be checked for incremental changes since they were first reported. If any measurement on one of the previously reported trading dates changes then the RMS will report all hours on that trading date to the TTDC system.

The Peak System *Demand* Report will be produced twice monthly in support of preliminary and final settlement statements. It will contain the *peak system demand* – date, hour and total quantity as well as the total quantity for each date and hour in the month as a sum of measurements across all *delivery points* defined for transmission network charges. As incremental changes to measurements are received, the applicable hourly sum is recalculated.

For convenience, two copies of each Peak System Demand Report will be made available to *market participants*. The only difference between the two versions is the file name (i.e. the content of the copies will be identical). The file name format for the report available through the Market Participant Interface (MPI) will be as follows::

TTDC_PeakSystemDemand_Prelim_yyyymmdd.html (for Preliminary Report)

TTDC_PeakSystemDemand_Final_yyyymmdd.html (for Final Report)

where yyyymmdd indicates the month-end date of the month being reported.

The file name format for the version of the report available through the IESO Reports Site Interface will be as follows::

```
[security level { 'PUB': Public } ['_'] ['TTDC':System Name] ['-'] [report name
{ 'PeakSystemDemand' } ['-'] [settlement type { 'Prelim': Preliminary or 'Final': Final }
['_'] [monthend date { YYYYMMDD } ]['_'] [version number identifying whether this
report file was regenerated 'v1'] ['.html']
```

For example: PUB_TTDC-PeakSystemDemand-Final_20051231_v1.html

The file contains a public report,

The file was generated by the TTDC system

The file contains the Peak System Demand report.

The file contains the final report for the month of December 2005.

As version is “1” this file is the original run for that date.

The following describes each of the data fields in the report file. The Peak System *Demand* Report is produced as an HTML report only.

3.1 Peak System Demand Data Section

This section supplies the Preliminary or Final – Peak System Demand data for the month.

Field	Type	Max Field Length	Domain	Description
Trading Date	Date	N/A	YYYY/MM/DD	The specific trading date on which the <i>peak system demand</i> occurred.
Trading Hour	Number	2	1-24	The specific hour on the trading date on which the <i>peak system demand</i> occurred.
Hourly Measurement Quantity Sum	Number	11,2		Indicates the sum of the hourly measurement quantity across all <i>delivery points</i> defined for transmission network charges on the specific trading date and hour (in kW)
Report Type	Varchar		'Preliminary', 'Final'	Indicates the settlement type of <i>peak system demand</i> data: preliminary or final. Relates to the type of <i>Settlement Statement</i> that the <i>peak system demand</i> will be provided on.

3.2 Hourly Sums Data Section

These report rows provide the sum of the hourly withdrawal (W) values reported by RMS across all *delivery points* defined for transmission network charges for each Trading Date / Hour in the reporting month. These rows are listed in date / hour order.

The supporting data can cover a maximum of 744 measurement sums for the month (31 days by 24 hours per day per calendar month).

Field	Type	Max Field Length	Domain	Description
Trading Date	Date	N/A	YYYY/MM/DD	The trading date of the applicable hourly sum.
Trading Hour	Number	2	1-24	The hour on the trading date of the applicable hourly sum.
Hourly Measurement Quantity Sum	Number	11,2		Indicates the sum of the hourly withdrawal (W) values reported by RMS across all <i>delivery points</i> defined for transmission network charges for applicable trading date and hour (in kW)

– End of Section –

References

Document Name	Doc ID
<i>IESO</i> “Market Rules”	MDP_RUL_0002
<i>Ontario Energy Board</i> , “Interim Decision and Order” – December 17, 2001	This interim decision addresses four <i>OEB</i> docket numbers as follows: RP-2001-0034 RP-2001-0035 RP-2001-0036 RP-2000-0044

- End of Section -

- End of Document -