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## Overview of the PEG Working Papers

These working papers contain the data and calculations undertaken to produce the productivity and cost performance results contained in PEG's final report, and are comprised of three parts: Documentation for Working Papers (this file); TFP<sup>1</sup> and BM<sup>2</sup> Database Calculations; and BM Model.

### TFP and BM Database Calculations

These working papers take the source data provided by the OEB and aggregate the data to produce a consistent time series for each current distributor. They also use the forgoing data, non-company specific data provided by the OEB, and publicly available data from Statistics Canada to produce databases for use in econometric research. The productivity trend results are also calculated here.

In order to make transition from the source data to the results more transparent, additional worksheets have been added that will allow the reader to see how individual accounts are used to produce the definitions of OM&A and Gross Plant used in the study. These are parallel calculations that will allow the user to see how these variables are constructed on a single worksheet.

**Table 1: Contents of file named "TFP and BM database calculations.xlsx"**

Worksheet Name	Worksheet Number	Type	Description
Industry TFP Calculations	1	Result	Uses calculations from supporting worksheets to calculate the industry TFP trend for Ontario for use in informing the board about the choice of an X Factor.
BM Database	2	Result	Uses calculations from supporting worksheets to assemble a database for use in the benchmarking models contained in Part III of the working papers.
TFP Database	3	Result	Uses calculations from supporting worksheets to assemble a database for use in the econometric models used to determine the proper weights to be used in the

<sup>1</sup> Total Factor Productivity

<sup>2</sup> Benchmarking

Worksheet Name	Worksheet Number	Type	Description
			calculation of the output quantity trend of the industry. The models are contained in Part III of the working papers.
<b>OM&amp;A Calculation</b>	4	Supporting Calculations	Calculates the adjusted OM&A expenses for use in worksheets 1-3.
<b>Capital Calculations for TFP</b>	5	Supporting Calculations	Calculates the capital quantity and capital cost for use in worksheets 1 and 3.
<b>Capital Calculations for BM</b>	6	Supporting Calculations	Calculates the capital quantity and capital cost for use in worksheet 2.
<b>OM&amp;A Price</b>	7	Supporting Calculations	Calculates the OM&A input price index
<b>smart meter OM&amp;A adjustment</b>	8	Supporting Calculations	Calculates the OM&A adjustment required due to the deferral of smart meter cost. For use in worksheet 8. Please see section 4.3 of the report for a description of the method.
<b>Z variables</b>	9	Supporting Calculations	Aggregates and makes corrections to the business condition variables for use in worksheets 2 and 3.
<b>Q Capital Data</b>	10	Supporting Calculations	Aggregates gross plant data and makes corrections
<b>Q OM&amp;A</b>	11	deleted	This worksheet is no longer used and has been deleted
<b>Q Output</b>	12	Supporting Calculations	Aggregates customer and kWh data for 2002-2011
<b>Q Business Conditions</b>	13	deleted	This worksheet is no longer used and has been deleted
<b>AWE cansim</b>	14	Source Data	Source Data from Statistics Canada
<b>gdpipi fdd can</b>	15	Source Data	Source Data from Statistics Canada
<b>GDPIPI Ontario</b>	16	deleted	This worksheet is no longer used and has been deleted
<b>Historical Asset Price</b>	17	Source Data	Source Data from Statistics Canada
<b>data request responses</b>	18	Source Data	Data request responses as processed by PEG
<b>2012DR</b>	19	Source Data	Source data from supplemental data request for 2012
<b>Late DR companies</b>	20	Supporting Calculations	Identifies those companies that did not complete the data smart meter data request

Worksheet Name	Worksheet Number	Type	Description
<b>Aggregate HV charges</b>	21	Source Data	Aggregated version of the HV charges in worksheet 27
<b>HV-Related O&amp;M Exp</b>	22	Source Data	Source data on HV O&M charges provided by OEB staff
<b>LV Charges included in BM</b>	23	Source Data	Revised LV charges
<b>2012 data</b>	24	Supporting Calculations	Takes the 2012 data from worksheet 15, transposes the values and makes calculations for use in worksheets 4-6.
<b>2012 data raw</b>	25	Source Data	2012 data as provided by OEB staff
<b>data0211</b>	26	Supporting Calculations	Brings together the data from 2002-2011
<b>2011 data</b>	27	Source Data	Adds lines to the source data file to calculate relevant OM&A and references other variables in a consistent format for later use.
<b>2010 data</b>	28	Source Data	Adds lines to the source data file to calculate relevant OM&A and references other variables in a consistent format for later use.
<b>2009 data</b>	29	Source Data	Adds lines to the source data file to calculate relevant OM&A and references other variables in a consistent format for later use.
<b>2008 data</b>	30	Source Data	Adds lines to the source data file to calculate relevant OM&A and references other variables in a consistent format for later use.
<b>2007data</b>	31	Source Data	Adds lines to the source data file to calculate relevant OM&A and references other variables in a consistent format for later use.
<b>2006 data</b>	32	Source Data	Adds lines to the source data file to calculate relevant OM&A and references other variables in a consistent format for later use.
<b>2005 data</b>	33	Source Data	Adds lines to the source data file to calculate relevant OM&A and references other variables in a consistent format for later use.
<b>2004 data</b>	34	Source Data	Adds lines to the source data file to calculate relevant OM&A and references other variables in a consistent format for later use.
<b>2003 data</b>	35	Source Data	Adds lines to the source data file to calculate relevant

Worksheet Name	Worksheet Number	Type	Description
			OM&A and references other variables in a consistent format for later use.
<b>2002 data</b>	36	Source Data	Adds lines to the source data file to calculate relevant OM&A and references other variables in a consistent format for later use.
<b>Gross Plant (2012)</b>	37	Source Data	Adds columns to source data to add up relevant individual PP&E accounts
<b>Gross Plant</b>	38	Source Data	Adds columns to source data to add up relevant individual PP&E accounts
<b>1860 2012</b>	39	Source Data	Total meter plant in service for 2012 for use in worksheets 5-6
<b>1860 meter data</b>	40	Aggregated Source Data	Source data aggregated by final company name
<b>Output data</b>	41	Supporting Calculations	Makes corrections to customer and kWh data
<b>peer group data</b>	42	deleted	Worksheet 42 is no longer used and has been deleted

## BM Model

These working papers contain the data and programming code used to estimate the parameters of the econometric models used to produce the cost performance benchmarks. The detailed output of the models is also provided.

The authors anticipate that those reviewing this work will gain the most benefit from the TFP and BM Database Working Papers. The BM Model contains relatively technical statistical modeling and computer programming. Chapter 6 in the report describes the methodology used in developing the benchmarking model.

## Detailed Data Reference for TFP and BM Databases

The purpose of the following tables is to link the TFP and BM databases to the electricity distributor data that is posted on the Board's website (list in last section of this document). Readers will be able to see what electricity distributor data has been used in the TFP and BM calculations. Any adjustments made to the data are also identified.

The following variable summary table provides brief descriptions of each of the variables found in the econometric databases. Some variables not directly used in the final econometric model are also included here. Some are listed here because they should be familiar to the reader and are used to derive other variables that are used. Others are included because they have been included in recent models, but did not make the final model. The variables actually used in the model are identified.

### Summary of Variables in the BM and TFP Databases

Column	Label	Used in Final BM Model	Description
A	PEGID	N	PEG Assigned ID Number
B	Company Name	N	Name of Company
C	Year	N	Year of Data
D	Observation Used in TFP Work	N	Identifies if value is used in TFP work (1 = Yes)
E	Capital Cost	N	Capital Cost as calculated by PEG
F	OM&A Cost	N	OM&A Cost as calculated by PEG
G	Total Cost	Y	Total Cost =Capital Cost [E] + OM&A Cost [F]
H	Capital Cost Share	Y	Percent of Total Cost that is Capital; Equals Capital Cost [E] / Total Cost [G]
I	OM&A Cost Share	Y	Percent of Total Cost that is OM&A; Equals OM&A Cost [F] / Total Cost [G]
J	Capital Price Index	Y	Service Price of Capital as described in the report
K	OM&A Price Index	Y	Equals [W] x [X]
L	Customers Numbers	Y	Number of customers as calculated by PEG from RRR data
M	Deliveries	Y	Delivery volume as calculated by PEG from RRR data
N	Summer Peak kW	N	Summer peak demand as reported on the RRR
O	Winter Peak kW	N	Winter peak demand as reported on the RRR
P	Annual Peak kW	N	Equal to the greater of the Summer Peak [N] and Winter Peak [O]
Q	System Capacity Proxy	Y	Variable designed to measure distribution system capacity. It is equal to the maximum of the current year peak kW [P] and all previous year values of peak kW [P]
R	Circuit km	N	Total reported circuit km of line on the RRR
S	Average Circuit km	Y	Average of [R] for each company from 2002-2012
T	% of km that is underground	N	The ratio of reported underground km / total km
U	Percentage of customers added in last 10 years	Y	The total change in customers from 2002-2012 as a percent of 2002 customers
V	2012 Service Territory Area	N	Variable equal to the 2012 reported square km of service territory.
W	OM&A Price Level	N	Price level to account for price levels among service territories
X	OM&A Price Index	N	OM&A Price Index as calculated on the OM&A Price worksheet

**BM Database (Sheet in Workbook “TFP and BM database calculations.xlsx”)**

Variable in Benchmarking Database		Variable Worksheet	Column (letter) or Row (number) Reference	Source Worksheet Reference(s)	Column (letter) or Row (number) Reference or Formula	Formula Description or Source Data Citation
<b>Capital Cost</b>		BM Database	E	Capital Calculations for BM	AI	The formula picks out the capital cost [AI] for the appropriate company and year of data. It aggregates companies into the final company being benchmarked if necessary.
=	Capital Cost	Capital Calculations for BM	AI	Capital Calculations for BM	AH x AF	Equal to capital price [AH] x capital quantity [AF]
=	Capital Service Price	Capital Calculations for BM	AH	Capital Calculations for BM	AG (t-1) x X + X x Z	Capital Service Price = [ Asset Price [X] t-1 x WACC [AG] + Depreciation Rate x Asset Price]
X	Capital Quantity Index	Capital Calculations for BM	AF	Capital Calculations for BM	AF(t-1) - AF*Z + Y	Equal to previous year capital quantity [X] less depreciation [AF*Z] plus quantity of capital added during year [Y]
	Weighted Average Cost of Capital	Capital Calculations for BM	AG	Electricity Cost of Capital Summary 1999-2013.xlsx		This is a weighted average of the cost of capital data as posted to create a calendar year value. The number of months divided by 12 under each WACC serve as the weights.
	Asset Price Index	Capital Calculations for BM	X	Statistics Canada		This is the Electric Utility Construction Price Index as published by Statistics Canada.
	Depreciation Rate	Capital Calculations for BM	Z			Calculated by PEG. Please see table 4 of the report for details on the calculation of this depreciation rate.
	Quantity of Additions	Capital Calculations for BM	Y	Capital Calculations for BM	S / X	Equal to dollars of gross additions [S] divided by the asset price index [Y]
	Gross Additions (adjusted)	Capital Calculations for BM	S	Capital Calculations for BM	J + R	Gross additions after adjusting for smart meters. Please see section 4.3 of the report for a description of the method.
	Gross Additions	Capital Calculations for BM	J	Capital Calculations for BM	H + I x F(t-1)	Equal to Net Additions [H] plus estimated retirements [I x F (t-1)]



Variable in Benchmarking Database		Variable Worksheet	Column (letter) or Row (number) Reference	Source Worksheet Reference(s)	Column (letter) or Row (number) Reference or Formula	Formula Description or Source Data Citation
	Smart Meter Additions	Capital Calculations for BM	R	Data Request Responses: <a href="http://www.rds.ontarioenergyboard.ca/webdrawer/...">www.rds.ontarioenergyboard.ca/webdrawer/...</a>	$N + P + Q$	Equals smart meter additions as reported in response to the data request [N]. Several companies either responded late or not at all. Those that were late were incorporated [P]. Those that did not report were estimated using a ratio of smart meter capex to PP&E of those that did respond [Q].
	Net Additions	Capital Calculations for BM	H	Capital Calculations for BM	$F - F(t-1)$	Equals change in gross plant [F]
	Gross Plant	Capital Calculations for BM	F	Capital Calculations for BM, Q Capital Data	E	The formula picks out the gross plant for the appropriate company and year of data. It aggregates companies into the final company being benchmarked if necessary. It also adjusts for restatements of HV PP&E and removes smart meter plant.
	Gross Plant for BM	Capital Calculations for BM, Q Capital Data	E	Gross Plant	E	References the gross plant from a worksheet formerly of Part I of the working papers. Please see worksheet 44 for the accounts that comprise this measure.
	Gross Plant BM	Gross Plant	E	Gross Plant (Company Totals) 1989-2011 Version 2.xlsx		Sum of Distribution and General Plant Accounts less Subtransmission Plant > 50 kV. Individual account data taken from OEB source data file.
	Gross Plant (2012)	Capital Calculations for BM	F	2012 data	DZ	2012 Gross Plant data taken from 2012 data sheet.
	Benchmark Capital Quantity (1989 or 2002 as noted in column AE)	Capital Calculations for BM	AF	Capital Calculations for BM		Equals Net Plant / a historical weighted average of the asset price index. Net plant is equal to gross plant after being reduced by the amount of accumulated amortization.
	Gross Additions from 1998-2002	Capital Calculations for BM	J	Capital Calculations for BM		The net additions for the period for which no data existed was estimated by one of two standard methods. Method 1 uses the difference in gross plant as is done normally. Method 2 is used in the cases in which there is an implausible change in gross plant in which case the 2002 value is assumed to be net plant. The only exception to this rule was done for Entregus. In this case, neither method resulted in reasonable estimates and a linear interpolation was used.

Variable in Benchmarking Database		Variable Worksheet	Column (letter) or Row (number) Reference	Source Worksheet Reference(s)	Column (letter) or Row (number) Reference or Formula	Formula Description or Source Data Citation	
<b>OM&amp;A Cost</b>		BM Database	F	OM&A Calculation	M	Equals OM&A cost as adjusted for LV, HV and Deferred OM&A related to Smart Meters	
=	OM&A by Final Company Aggregation	OM&A Calculation	M	data0211	H	For each final company to be evaluated, add up the OM&A expense by year for all companies that make up the company (e.g. CNPI = Fort Erie + Port Colbourne + Eastern Ontario Power)	
=	OM&A Constructed from RRR Account Data by Year	data0211	E	2011 data (and prior years)	8	Calculate relevant OM&A expense as the sum of seven categories. This intentionally excludes capital related items such as taxes, depreciation, and amortization. It also excludes bad debt which is significantly beyond LDC control. The 2012 format differs from the 2002-2011 worksheets and is documented separately. Please see worksheet 45 for the accounts that comprise this measure.	
	=	Operation	2011 data (and prior years)	90	Comparison of Distributors_Sep 26, 2012_without TB.xls	36	Source data
	+	Maintenance	2011 data (and prior years)	91	Comparison of Distributors_Sep 26, 2012_without TB.xls	37	Source data
	+	Billing and Collection	2011 data (and prior years)	92	Comparison of Distributors_Sep 26, 2012_without TB.xls	38	Source data
	+	Community Relations	2011 data (and prior years)	93	Comparison of Distributors_Sep 26, 2012_without TB.xls	39	Source data
	+	Administrative and General Expenses	2011 data (and prior years)	95	Comparison of Distributors_Sep 26, 2012_without TB.xls	41	Source data
	+	Insurance Expense	2011 data (and prior years)	96	Comparison of Distributors_Sep 26, 2012_without TB.xls	42	Source data
	+	Advertising Expenses	2011 data (and prior years)	98	Comparison of Distributors_Sep 26, 2012_without TB.xls	44	Source data

Variable in Benchmarking Database		Variable Worksheet	Column (letter) or Row (number) Reference	Source Worksheet Reference(s)	Column (letter) or Row (number) Reference or Formula	Formula Description or Source Data Citation
=	OM&A Constructed from RRR Account Data by Year	2012 data	D	2011 data (and prior years), 2012 data	=AQ+AR+AS+AT+AV+AW+AY	The 2012 format differs from the 2002-2011 worksheets and is documented separately.
=	Operation	2012 data	AQ	Comparison of Distributors OMA updated PBR_July-29-2013.xls		Source data
+	Maintenance	2012 data	AR	Comparison of Distributors OMA updated PBR_July-29-2013.xls		Source data
+	Billing and Collection	2012 data	AS	Comparison of Distributors OMA updated PBR_July-29-2013.xls		Source data
+	Community Relations	2012 data	AT	Comparison of Distributors OMA updated PBR_July-29-2013.xls		Source data
+	Administrative and General Expenses	2012 data	AV	Comparison of Distributors OMA updated PBR_July-29-2013.xls		Source data
+	Insurance Expense	2012 data	AW	Comparison of Distributors OMA updated PBR_July-29-2013.xls		Source data
+	Advertising Expenses	2012 data	AY	Comparison of Distributors OMA updated PBR_July-29-2013.xls		Source data
+	LV Expense filed with Data Request aggregated by company	OM&A Calculation	H	Data Request Responses in webdrawer <a href="http://www.rds.ontarioenergyboard.ca/webdrawer/">http://www.rds.ontarioenergyboard.ca/webdrawer/...</a>		Source data
+	LV Expense from HON database aggregated by company	OM&A Calculation	I	Summary of Hydro One Low Voltage Charges to Distributors 2002-2011.xls		Source data
-	HV Charges aggregated by company	OM&A Calculation	J	HV-related O&M expenditures (Company Totals) 2002-2011.xlsx		Source data

Variable in Benchmarking Database		Variable Worksheet	Column (letter) or Row (number) Reference	Source Worksheet Reference(s)	Column (letter) or Row (number) Reference or Formula	Formula Description or Source Data Citation
-	Smart Meter Amortization Previously Deferred (aggregated by company)	OM&A Calculation	L	smart meter OM&A Adjustment	M	Removes an estimate of the smart meter amortization amount cleared to OM&A
=	Estimated Amortization of Smart Meter Capital	smart meter OM&A Adjustment	M	smart meter OM&A Adjustment	I x J	Estimated beginning of year smart meter accumulated amortization [J] x percent of account cleared [I]
	=	Percent of Account 1556 Cleared	I	smart meter OM&A Adjustment	H / E	Equal to the ratio of the OM&A amount cleared [H] to the beginning of year balance of account 1556 [H]
	x	Estimated beginning of year smart meter accumulated amortization	J	smart meter OM&A Adjustment	L (t-1)	Equal to end of the previous year accumulated amortization balance
		OM&A cleared	H	smart meter OM&A Adjustment	MIN(F-E,0)	Equal the negative of any reduction in the balance of account 1556 or else zero
		Beginning of Year Balance of 1556	E	smart meter OM&A Adjustment	F (t-1)	Equals the previous year end of year balance
		End of Year Balance of Account 1556	F	Smart Meters Account 1556 (Company Totals) 2006-2012.xlsx		Source Data
		Estimated end of year smart meter accumulated amortization	L	smart meter OM&A Adjustment	L(t-1)+K-M (t-1)	Equal to estimated annual smart meter amortization [K] less estimated amortization cleared [M] plus previous year estimated accumulated amortization [L]
		Estimated annual smart meter amortization	K	smart meter OM&A Adjustment	0.0459 x O(t-1)	Equal to 4.59% depreciation rate x estimated smart meter plant
		Estimated smart meter plant	O	smart meter OM&A Adjustment	O,P	Equal to previous year smart meter plant [O] plus reported smart meter capex [P]
		Smart Meter Capex	P	Data request responses: <a href="http://www.rds.ontarioenergyboard.ca/webdrawer/">http://www.rds.ontarioenergyboard.ca/webdrawer/...</a>		<a href="#">Source data</a>

Variable in Benchmarking Database	Variable Worksheet	Column (letter) or Row (number) Reference	Source Worksheet Reference(s)	Column (letter) or Row (number) Reference or Formula	Formula Description or Source Data Citation
<b>Total Cost</b>	BM Database	G	BM Database	E + F	Equals sum of Capital and OM&A cost
<b>Capital Cost Share</b>	BM Database	H	BM Database	E / G	Capital cost as a percent of total cost
<b>OM&amp;A Cost Share</b>	BM Database	I	BM Database	F / G	OM&A cost as a percent of total cost
<b>Capital Price Index</b>	BM Database	J			Please see the details of this calculation above as presented as part of the capital cost calculation
<b>OM&amp;A Price Index</b>	BM Database	K	OM&A Price	M	This index combines the labor and materials prices into a single measure
=	OM&A Price index	OM&A Price	OM&A Price	$L^{(t-1)} \times \exp(\text{change in index})$	The index value is equal the previous value (100 in 2002) times the anti-log (exp) of the change in the index. The anti-log operation is similar to adding 1 to a percentage change (i.e. $0.02 + 1 = 1.02$ ).
	Change in index	OM&A Price	OM&A Price	$J \times E + K \times H$	Equal to a 70% / 30% weighted average of the growth in labor and non-labor prices respectively. The weights were provided by OEB staff.
	Labor Price Growth	OM&A Price	OM&A Price	$\frac{\ln(G/G(t-1))}{G}$	Equal to the logarithmic growth in the labor price index in column G
	Non-Labor OM&A Price Growth	OM&A Price	OM&A Price	$\frac{\ln(D/D(t-1))}{D}$	Equal to the logarithmic growth in the price index in column D
<b>Customers Numbers</b>	BM Database	L	Output Indexes, Q Output, data0211		References Output Index sheet which makes some data corrections as noted on the data changes table. The Output Index worksheet references "Q Output" which is in turn linked back to data0211 and the source data.
<b>Deliveries</b>	BM Database	M	Output Indexes, Q Output, data0211		See notes for customers numbers above
<b>Summer Peak kW</b>	BM Database	N	data0211, Z variables, Q Business Conditions		References Z Variables sheet which makes some data corrections as noted on the data changes table. This references "Q Business Conditions" which is in turn linked back to data0211 and the source data.
<b>Winter Peak kW</b>	BM Database	O	data0211, Z variables, Q Business Conditions		See notes for summer peak
<b>Annual Peak kW</b>	BM Database	P	BM Database	$=\max(N, O)$	Larger of summer [N] or winter [O] peak

Variable in Benchmarking Database	Variable Worksheet	Column (letter) or Row (number) Reference	Source Worksheet Reference(s)	Column (letter) or Row (number) Reference or Formula	Formula Description or Source Data Citation
<b>System Capacity Proxy</b>	BM Database	Q	BM Database	=max(Q(t-1), P)	Equal to the maximum of the current year peak kW [P] and all previous year values of peak kW [Q (t-1)]. In 2002 the value of this variable is the annual peak [P].
<b>Circuit km</b>	BM Database	R	data0211, Z variables, Q Business Conditions		See notes for summer peak
<b>Average Circuit km</b>	BM Database	S	data0211, Z variables, Q Business Conditions		See notes for summer peak
<b>% of km that is underground</b>	BM Database	T	Z variables	Underground km [R]/ Circuit km [P]	Ratio of underground km [R] to total km [P]. The column references here refer to the columns on the Z variable sheet and not the BM database columns.
<b>Percentage of customers added in last 10 years</b>	BM Database	U	BM Database	= Change in Customers / Customers in 2002.	Equal to the total net new customers [L(2012) – L(2002)] over the 2002-2012 time period as a ratio of customers in 2002 [L(2002)]. The variable has different values for each company but the same value for each year of company data.
<b>2012 Service Territory Area</b>	BM Database	V	2012 data		The 2012 value is used for all years

## TFP Database (Sheet in Workbook “TFP and BM database calculations.xlsx”)

Variable in Benchmarking Database	Variable Worksheet	Column (letter) or Row (number) Reference	Source Worksheet Reference(s)	Column (letter) or Row (number) Reference or Formula	Formula Description or Source Data Citation
<b>Capital Cost</b>	TFP Database	E			Please see table 5 in the report for a summary of the differences between the TFP and BM cost specifications.
<b>Gross Plant</b>		Capital Calculations for TFP			Please see table 5 in the report for a summary of the differences between the TFP and BM cost specifications. Please see worksheet 44 for the accounts that comprise this measure.
<b>OM&amp;A Cost</b>	TFP Database	F	OM&A Calculation	$O = E - K$	Equals same column E OM&A as BM less smart meter OM&A. Please see table 5 in the report for a summary of the differences between the TFP and BM cost specifications. Please see worksheet 45 for the accounts that comprise the OM&A measure in column E.
<b>Total Cost</b>	TFP Database	G		$E + F$	Equals OM&A plus Capital
<b>Capital Cost Share</b>	TFP Database	H	TFP Database	$E / G$	Percent of total cost
<b>OM&amp;A Cost Share</b>	TFP Database	I	TFP Database	$F / G$	Percent of total cost
<b>Capital Price Index</b>	TFP Database	J			Same as BM Database
<b>OM&amp;A Price Index</b>	TFP Database	K			Same as BM Database
<b>Customers Numbers</b>	TFP Database	L			Same as BM Database
<b>Deliveries</b>	TFP Database	M			Same as BM Database
<b>Summer Peak kW</b>	TFP Database	N			Same as BM Database
<b>Winter Peak kW</b>	TFP Database	O			Same as BM Database
<b>Annual Peak kW</b>	TFP Database	P			Same as BM Database
<b>System Capacity Proxy</b>	TFP Database	Q			Same as BM Database
<b>Circuit km</b>	TFP Database	R			Same as BM Database
<b>Average Circuit km</b>	TFP Database	S			Same as BM Database
<b>% of km that is underground</b>	TFP Database	T			Same as BM Database
<b>Percentage of customers added in last 10 years</b>	TFP Database	U			Same as BM Database
<b>2012 Service Territory Area</b>	TFP Database	V			Same as BM Database

## Summary of Changes to Electricity Distributor Data

The following table summarizes any changes that PEG made to reported data. Any special techniques used to estimate missing data are noted on the specific worksheets in which the techniques are used.

Company Name	Year	Data Adjustments
ALGOMA POWER INC.	2005	kW and kWh data are transposed for non-residential. They were reversed and totals recalculated
ATIKOKAN HYDRO INC.	2006	KWh are shifted from 2006 to 2007. Average values by customer class for 2006-2007 were substituted. Residential inferred from total and other categories.
ATIKOKAN HYDRO INC.	2007	KWh are shifted from 2006 to 2007. Average values by customer class for 2006-2007 were substituted. Residential inferred from total and other categories.
BLUEWATER POWER DISTRIBUTION CORPORATION	2005	75% drop in System Peak; estimated using previous and subsequent years
CANADIAN NIAGARA POWER INC.	2002	Reversal of OH and UG reporting for Fort Erie; Switched such that OH is dominant
CANADIAN NIAGARA POWER INC.	2003	Reversal of OH and UG reporting for Fort Erie; Switched such that OH is dominant
CANADIAN NIAGARA POWER INC.	2004	Reversal of OH and UG reporting for Fort Erie; Switched such that OH is dominant
E.L.K. ENERGY INC.	2002	System peak units problem, multiply reported data by 1000
E.L.K. ENERGY INC.	2003	System peak units problem, multiply reported data by 1000
ENWIN UTILITIES LTD.	2002	System peak units problem, multiply reported data by 1000
ENWIN UTILITIES LTD.	2003	System peak units problem, multiply reported data by 1000
ENWIN UTILITIES LTD.	2004	System peak units problem, multiply reported data by 1000
ERIE-THAMES	2008	Includes 511,638 of missing OM&A data for Clinton as per company request.
FORT FRANCES POWER CORPORATION	2005	kWh data were transposed for non-residential. They were reversed and totals recalculated
HALTON HILLS HYDRO INC.	2005	Missing system peak values; estimate based on 2004 and 2007 values
HALTON HILLS HYDRO INC.	2006	Missing system peak values; estimate based on 2004 and 2007 values
HYDRO ONE BRAMPTON NETWORKS INC.	2008	System peak units problem, multiply reported data by 1000
HYDRO ONE NETWORKS INC.	2003	99% drop in system peak, impute using 2002 and 2005 data



Company Name	Year	Data Adjustments
HYDRO ONE NETWORKS INC.	2004	99% drop in system peak, impute using 2002 and 2005 data
NIAGARA PENINSULA	2008	OM&A reduced by 324,286 as per company request to correct for the classification of bad debt expenses.
PARRY SOUND POWER CORPORATION	2005	System peak units problem, multiply reported data by 1000
PUC DISTRIBUTION INC.	2002	System peak units problem, multiply reported data by 1000
PUC DISTRIBUTION INC.	2003	System peak units problem, multiply reported data by 1000
PUC DISTRIBUTION INC.	2004	System peak units problem, multiply reported data by 1000
THUNDER BAY HYDRO ELECTRICITY DISTRIBUTION INC.	2002	Units problem; multiply km of line by 10
THUNDER BAY HYDRO ELECTRICITY DISTRIBUTION INC.	2005	System peak units problem, multiply reported data by 1000
THUNDER BAY HYDRO ELECTRICITY DISTRIBUTION INC.	2011	OM&A revised upward by 184,997 as per company request to reflect the companies amended RRR
WEST COAST HURON ENERGY INC.	2002	System peak units problem, multiply reported data by 1000
WEST COAST HURON ENERGY INC.	2003	System peak units problem, multiply reported data by 1000
WEST COAST HURON ENERGY INC.	2004	System peak units problem, multiply reported data by 1000
WEST COAST HURON ENERGY INC.	2005	System peak units problem, multiply reported data by 1000
WEST COAST HURON ENERGY INC.	2006	System peak units problem, multiply reported data by 1000
WESTARIO POWER INC.	2002	Missing system peak values; impute based on corrected 2003 values
WESTARIO POWER INC.	2003	Units problem for summer and winter peak, divide by reported values by 10, 100

**Source Data (Posted on the Board’s Web Site)**

Date	Web Posting							
Oct 17-13	Based on the October 7 Workshop Summary (posted below), Board staff posted a summary of the low voltage charges used in total cost benchmarking.							
<table border="1" style="width:100%"> <thead> <tr> <th data-bbox="326 415 529 478">Information</th> <th data-bbox="529 415 639 478">Time frame</th> <th data-bbox="639 415 933 478">Data Source</th> <th data-bbox="933 415 1430 478">Link</th> </tr> </thead> </table>					Information	Time frame	Data Source	Link
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Oct 10-13	The Board has posted additional electricity distributor data to support the empirical analysis.							
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Mar 18-13	<p>Staff has posted a workbook that it provided to its consultant, Pacific Economics Group. The workbook contains a summary of pre-2002 gross plant and accumulated depreciation balances reported in the audited financial statements of some electricity distributors.</p> <ul style="list-style-type: none"> <li>• <a href="#">Spot Check on Gross Cost Comparison 1997 vs 2002 RRR.xlsx</a></li> </ul>																								
Mar 18-13	<p>In response to comments from electricity distributors, staff has made corrections to the “Mergers &amp; Name Changes” data file posted on December 6, 2012. Also, due to those changes, the Total Gross Plant and Total Accumulated Depreciation data extracts have been re-run.</p> <table border="1" data-bbox="329 957 1422 1654"> <thead> <tr> <th data-bbox="329 957 607 1024">Information</th> <th data-bbox="607 957 737 1024">Time frame</th> <th data-bbox="737 957 1027 1024">Data Source</th> <th data-bbox="1027 957 1422 1024">Link</th> </tr> </thead> <tbody> <tr> <td colspan="4" data-bbox="329 1024 1422 1058"><b>General</b></td> </tr> <tr> <td data-bbox="329 1058 607 1157"><a href="#">Mergers &amp; Name Changes</a></td> <td data-bbox="607 1058 737 1157">1999 – present</td> <td data-bbox="737 1058 1027 1157"> <ul style="list-style-type: none"> <li>• Board Decisions.</li> </ul> </td> <td data-bbox="1027 1058 1422 1157"> <ul style="list-style-type: none"> <li>• <a href="#">Amalgamated Companies 20130315 Version 2.xlsx</a></li> </ul> </td> </tr> <tr> <td colspan="4" data-bbox="329 1157 1422 1190"><b>Capital</b></td> </tr> <tr> <td data-bbox="329 1190 607 1421"><a href="#">1989-2011 Total Gross Plant</a></td> <td data-bbox="607 1190 737 1421">1989 – 2011</td> <td data-bbox="737 1190 1027 1421"> <ul style="list-style-type: none"> <li>• MUDBANK data is from 1989-1998;</li> <li>• DQF data is from 2002-2004; and</li> <li>• The current RRR filing system is from 2005-2011.</li> </ul> </td> <td data-bbox="1027 1190 1422 1421"> <ul style="list-style-type: none"> <li>• <a href="#">Gross Plant (Industry Total) 1989-2011 Version 2.xlsx</a></li> <li>• <a href="#">Gross Plant (Company Totals) 1989-2011 Version 2.xlsx</a></li> </ul> </td> </tr> <tr> <td data-bbox="329 1421 607 1654"><a href="#">1989-2011 Total Accumulated Depreciation</a></td> <td data-bbox="607 1421 737 1654">1989 – 2011</td> <td data-bbox="737 1421 1027 1654"> <ul style="list-style-type: none"> <li>• MUDBANK data is from 1989-1998;</li> <li>• DQF data is from 2002-2004; and</li> <li>• The current RRR filing system is from 2005-2011.</li> </ul> </td> <td data-bbox="1027 1421 1422 1654"> <ul style="list-style-type: none"> <li>• <a href="#">Accumulated Amortization (Industry Total) 1989-2011 Version 2.xlsx</a></li> <li>• <a href="#">Accumulated Amortization (Company Totals) 1989-2011 Version 2.xlsx</a></li> </ul> </td> </tr> </tbody> </table>	Information	Time frame	Data Source	Link	<b>General</b>				<a href="#">Mergers &amp; Name Changes</a>	1999 – present	<ul style="list-style-type: none"> <li>• Board Decisions.</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Amalgamated Companies 20130315 Version 2.xlsx</a></li> </ul>	<b>Capital</b>				<a href="#">1989-2011 Total Gross Plant</a>	1989 – 2011	<ul style="list-style-type: none"> <li>• MUDBANK data is from 1989-1998;</li> <li>• DQF data is from 2002-2004; and</li> <li>• The current RRR filing system is from 2005-2011.</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Gross Plant (Industry Total) 1989-2011 Version 2.xlsx</a></li> <li>• <a href="#">Gross Plant (Company Totals) 1989-2011 Version 2.xlsx</a></li> </ul>	<a href="#">1989-2011 Total Accumulated Depreciation</a>	1989 – 2011	<ul style="list-style-type: none"> <li>• MUDBANK data is from 1989-1998;</li> <li>• DQF data is from 2002-2004; and</li> <li>• The current RRR filing system is from 2005-2011.</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Accumulated Amortization (Industry Total) 1989-2011 Version 2.xlsx</a></li> <li>• <a href="#">Accumulated Amortization (Company Totals) 1989-2011 Version 2.xlsx</a></li> </ul>
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Date	Web Posting			
Mar 18-13	<p><b>The individual distributor filings in response to the Board’s February 26, 2013 data request.</b></p>			
	<p><b>Information</b></p>	<p><b>Time frame</b></p>	<p><b>Data Source</b></p>	<p><b>Link</b></p>
	<p>Smart Meters HV Data LV Data</p>	<p>2006 – 2011 2002 – 2011 2002 - 2011</p>	<p>• Individual Distributor Filings in response to the Board’s February 26, 2013 Data Request.</p>	<p>• <a href="http://www.rds.ontarioenergyboard.ca/webdrawer/...">http://www.rds.ontarioenergyboard.ca/webdrawer/...</a></p>
Feb 20-13	<p>The Board has posted additional electricity distributor data to support planned empirical analysis.</p>			
	<p><b>Information</b></p>	<p><b>Time frame</b></p>	<p><b>Data Source</b></p>	<p><b>Link</b></p>
	<p><b>Capital</b></p>			
	<p><b>1999-2011 Contributions in Aid of Construction [Contributions and Grants - Credit]</b></p>	<p>1999 – 2011</p>	<p>• Mudbank data is from 1989-1998; • DQF data is from 2002-2004; and • The current RRR filing system is from 2005-2011</p>	<p>• <a href="#">Contributions in Aid of Construction (Company Totals) 1989-2011.xlsx</a></p>
Jan 8-13	<p>Board staff has posted Ontario Electricity Distributors’ Data Files from 2000 and 2001. The Power Workers’ Union reminded the Board of the availability of this data. Board staff has redacted personal information from the files where the Full Time Head Count is &lt;=3 and/or where the number of Customers in a class is &lt;=3.</p> <ul style="list-style-type: none"> <li>• <a href="#">2000 Ontario Electricity Distributors’ Data File (redacted)</a> (.xls)</li> <li>• <a href="#">2001 Ontario Electricity Distributors’ Data File (redacted)</a> (.xls)</li> </ul>			

Date	Web Posting			
Dec 6-12	The Board has posted electricity distributor data to support planned empirical analysis.			
	<ul style="list-style-type: none"> <li><a href="#">Cover Letter</a></li> </ul>			
	<b>Information</b>	<b>Time frame</b>	<b>Data Source</b>	<b>Link</b>
	<b>General</b>			
	Mergers & Name Changes	1999 – present	<ul style="list-style-type: none"> <li>Board Decisions.</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Amalgamated Companies 20121206.xlsx</a> (superseded on Mar 18-13)</li> </ul>
	<a href="#">1999-present Cost of Capital Parameters</a>	1999 – present	<ul style="list-style-type: none"> <li>Board Decisions.</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Electricity Cost of Capital Summary 1999-2013.xlsx</a></li> </ul>
	<b>Capital</b>			
	Total Gross Plant	1989 – 2011	<ul style="list-style-type: none"> <li>Mudbank data is from 1989-1998;</li> <li>DQF data is from 2002-2004; and</li> <li>The current RRR filing system is from 2005-2011.</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Gross Plant (Industry Totals) 1989-2011.xlsx</a> (superseded on Mar 18-13)</li> <li><a href="#">Gross Plant (Company Totals) 1989-2011.xlsx</a> (superseded on Mar 18-13)</li> </ul>
	Total Accumulated Depreciation	1989 – 2011	<ul style="list-style-type: none"> <li>Mudbank data is from 1989-1998;</li> <li>DQF data is from 2002-2004; and</li> <li>The current RRR filing system is from 2005-2011.</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Accumulated Amortization (Industry Totals) 1989-2011.xlsx</a> (superseded on Mar 18-13)</li> <li><a href="#">Accumulated Amortization (Company Totals) 1989-2011.xlsx</a> (superseded on Mar 18-13)</li> </ul>
	<a href="#">2005-2011 Retirements</a>	2005 – 2011	<ul style="list-style-type: none"> <li>The current RRR filing system.</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Retirements (Company Totals) 2005-2011.xlsx</a></li> </ul>
	<b>OM&amp;A</b>			
	<a href="#">2002-2011 OM&amp;A Cost Data</a>	2002 – 2011	<ul style="list-style-type: none"> <li>DQF data is from 2002-2004; and</li> <li>The current RRR filing system is from 2005-2011.</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Comparison of Distributors Sep 26, 2012 _without TB.xls</a></li> </ul>
	2002-2012 Low Voltage Charges	2002 – 2011	<ul style="list-style-type: none"> <li>Hydro One Networks, Inc.</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Summary of Hydro One Low Voltage Charges to Distributors 2002–2011.xls</a></li> </ul>
	<a href="#">2002-2011 Salary and Wages (industry level summary)</a>	2002 – 2011	<ul style="list-style-type: none"> <li>The current RRR filing system.</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Salaries and Wages (Industry Totals) 2002-2011.xlsx</a></li> </ul>