

January 16, 2012

Ontario Energy Board
P.O. Box 2319
2300 Yonge Street
Toronto ON, M4P 1E4

RE: Brant County Power Inc. – 2012 3rd Generation IRM Application (EB-2011-0154)
Response to Board Staff Interrogatories

Brant County Power is providing responses to Board Staff Interrogatories.

If there are any questions with the application, please contact me directly.

Sincerely



Ed Glasbergen
CFO – Brant County Power Inc.
519-442-2215 ext. 734
eglasbergen@brantcountypower.com

Brant County Power Response to Board Staff Interrogatories

2012 IRM3 Electricity Distribution Rates

Brant County Power Inc. (BCP)

EB-2001-0154

2012 Shared Tax Savings Work form

- 1a) Board staff has been unable to verify the input amounts for columns A, B and C with BCP's approved 2011 load forecast from its last cost of service application (EB-2010-0125). Please provide evidence supporting these amounts. If the reported amount was input in error, Board staff will make the necessary correction to the model.

BCP Response

BCP has utilized the load and customer forecast agreed to in the settlement agreement attached to the latest CoS application (EB-2010-0125). There is one exception; the kW for the GS GT50 class is input incorrectly. The value of 4,783 kW should be 388,483 kW for the GS GT 50 class. The values can be found in Appendix L of the Settlement Agreement and Decision (Attached as Appendix A to this filing).

- 1b) Please confirm that the distribution volumetric rate for the General Service 50 to 4,999 kW rate class is \$3.8498 per kW. If the reported amount was input in error, Board staff will make the necessary correction.

BCP Response

The value utilized is correct as contained in the OEB decision to EB-2010-0125. Please see Appendix B of the Settlement Agreement for the Approved Tariff Sheet.

- 2) Board staff is unable to verify the taxable capital amount with the approved Revenue Requirement Work Form from BCP's last cost of service proceeding (EB-2010-0125). Please provide evidence supporting this amount. If the reported amount was input in error, Board staff will make the necessary correction to the model.

BCP Response

BCP can't locate a specific reference for taxable capital in the Settlement Agreement as part of Decision EB-2010-0125 attached to this filing as Appendix A. BCP is providing some schedules that were utilized in the Approved CoS models that reconcile to the "PILS / tax Allowance (Grossed-up Income taxes + capital taxes)" as found on pg. 5 of Appendix F.2 of the Settlement agreement. This value also ties into the total taxes input into Sheet 5. Z-Factor Tax Changes of the work form references in this IR.

Brant County Power						
PILS Determination						
	2010 Bridge		2011 Test			
<u>Determination of Taxable Income</u>						
Regulatory Net Income (before tax)	\$1,040,540		\$799,000	After tax return on equity		
Book to Tax Adjustments						
Additions to Accounting Income:						
Depreciation and amortization	\$1,037,086		\$869,711			
Other Additions						
Total Additions	\$1,037,086		\$869,711			
Deductions from Accounting Income:						
Capital Cost Allowance	\$1,294,410		\$1,393,572			
Cumulative eligible capital deductions	\$103,597		\$96,345			
Other Deductions						
Total Deductions	\$1,398,007		\$1,489,917			
Regulatory Taxable Income	\$679,619		\$178,793			
Corporate Income Tax Rate	32.00%		21.00%			
Regulatory Income Tax	\$217,478		\$37,547			
<u>Calculation of Utility Income Taxes</u>						
Income Taxes (prior to gross-up)	\$217,478		\$37,547			
Total Taxes	\$239,854		\$37,547			
Gross UP factor (1-tax rate)	0.00%		79.00%			
<u>Taxes after Gross-up</u>						
Income Taxes	\$217,478		\$47,527			
Total taxes with Gross up	\$217,478		\$47,527			

Brant County Power					
Cumulative Eligible Capital Deduction					
		Balance December 31, 2009 per tax return			1,479,958
		2010 Deduction - 7%			-103,597
		Balance December 31, 2010			1,376,361
		2011 Deduction - 7%			-96,345
		Balance December 31, 2011			1,280,016

Brant County Power Inc.					
Ontario Capital Tax					
Determination of Taxable Capital					
			<u>2010</u>	<u>2011</u>	
		Capital Stock	9,512,193	9,512,193	
		Retained Earnings - beginning of year	4,250,196	5,073,258	
		Net income after tax for the year	823,062	799,000	
		Other surpluses	2,738,065	2,738,065	
		Loans and Advances	7,224,286	7,224,286	
		Other indebtedness	646,300	646,300	
		Subtotal	25,194,102	25,993,102	
		Less: Deferred tax balance - end of year	-661,022	-661,022	
		Less: Loans to other corporations	-582,850	-582,850	
		Taxable Capital	23,950,230	24,749,230	
		Ontario Deduction	-15,000,000	-15,000,000	
		Amount subject to tax	8,950,230	9,749,230	
		Capital tax @.00225	22,376	24,373	

2012 IRM3 Rate Generator

- 3) Please confirm that the smart meter funding adder is \$1.00 for the General Service Less Than 50 kW rate class. If the reported amount was input in error, Board staff will make the necessary correction to the model.

BCP Response

BCP confirms the \$1.00 smart meter funding adder and apologises for the incorrect input.

- 4) Please confirm that the Rate Rider for Deferral/Variance Account Disposition (2011) for the General Service 50 to 4,999 kW rate class is -\$3.6922 per kW, and not the - \$3.6920 per kW input into this worksheet. If the reported amount was input in error, Board staff will make the necessary correction to the model.

BCP Response

BCP confirms the -\$3.6922 and apologises for the incorrect input.

- 5) Board staff is unable to verify the amounts entered into the 2.1.7 RRR column with the Board's 2.1.7 RRR Report. Please provide evidence supporting the amounts entered. If the reported amounts were input in error, Board staff will make the necessary correction to the model.

BCP Response

BCP can't comment on the data source used for the Board's 2.1.7 RRR report, however, BCP has reviewed and confirms that the values reported reconcile to the Dec. 31, 2010 balances filed on the RESS website dated February 28, 2011 (note, this is revision 0 of the 2.1.7 filing).

- 6) Board staff is unable to verify the amounts entered into the metered kWh and metered kW columns with BCP's 2.1.5 RRR Report or BCP's approved load forecast from its last cost of service application (EB-2010-0125). Board staff is also unable to verify the amounts entered into the Distribution Revenue column with BCP's approved distribution revenue from its last of service application. Please provide evidence supporting these amounts. If the reported amounts were input in error, Board staff will make the necessary correction to the model.

BCP Response

Please see response to Board Staff IR # 1a above. BCP utilized the approved load forecast from the CoS approval (EB-2010-0125). Please see Appendix L of the Settlement Agreement attached to the OEB Decision which is attached to this filing as Appendix A.

- 7) BCP has not entered in a rate rider recovery period (in years). Please provide the proposed disposition period for account 1521.

BCP Response

BCP apologises for this omission, please use a 1 year recovery period for Sheet 12 of the Rate Generator model.

- 8) Please confirm that BCP's current approved Total Loss Factor – Primary Metered Customer > 5,000 kW is 1.0072, and not the 1.0772 entered into the model. If the reported amount was input in error, Board staff will make the necessary correction to the model.

BCP Response

BCP confirms the approved Total Loss Factor – Primary Metered Customer > 5,000 kW.

Account 1521 – Special Purpose Charge

BCP indicated it is still collecting the SPC rate adder, which is to be completed after November 2011 consumption invoices. BCP included a continuity schedule and rate rider derivation of account 1521. BCP proposed to dispose of the December 31, 2011 principal balance of \$34,794.98 and projected interest to April 30, 2012 of \$1,511.79.

- 9a) Please confirm BCP's SPC assessment amount and provide a copy of the original SPC invoice.

BCP Response

The amount assessed to BCP for the SPC was \$110,803 as outlined in the attached invoice.

Revised Invoice
Ministry of Energy and Infrastructure
Conservation and Renewable Energy Program Costs

To: Brant County Power Inc.
65 Dundas Street East
Paris, ON N3L 3H1
Attn: Bruce Noble, CEO

Item Description:

Assessment for Ministry of Energy and Infrastructure Conservation and Renewable Energy Program Costs.

Quote-part pour les coûts des programme de conservation et d'énergie renouvelable du ministère de l'Énergie et de l'Infrastructure.

Customer No./No du client 2784
Customer Site No./ N° d'emplacement du client 1060839
Invoice Date/Date de la facture April 16, 2010
Invoice No./ N° de la facture 50005
Due Date/ Date d'échéance July 30, 2010
Payment Amount/ Montant remis CAD \$ 110,803

Questions related to the remittance should be directed to the Non-Tax Revenue Management Branch Contact Centre at 1-877-535-0554 or Fax (416) 326-5177. Les questions concernant la remise doivent être posées à l'InfoCentre de la Direction de la gestion des revenus non fiscaux au 1 877 535-0554 ou par télécopieur au 416 326-5177.

This assessment was calculated by the Ontario Energy Board, 2300 Yonge St. 27th Floor, P.O. Box 2319, Toronto, ON M4P 1E4. Questions related to the invoice should be directed to the Market Operations Hotline 416-440-7604. La présente quote-part a été fixée par la Commission de l'énergie de l'Ontario, 2300, rue Yonge, 27^e étage, case postale 2319, Toronto (Ontario) M4P 1E4. Les questions relatives à la facture doivent être posées au service de téléassistance du service Activités du marché : 416 440-7604.

*Payments are to be made to the Minister of Finance not the Ontario Energy Board.
Les paiements doivent être faits au ministre des Finances et non à la Commission de l'énergie de l'Ontario.*

Detach here/ Détacher ici



Ministry of Finance/Ministère des Finances
Payment Processing Centre/Centre de traitement des paiements
33 King St. West/33 rue King Ouest
PO Box 647/CP 647
Oshawa, ON L1H 8X3

Please detach and return this portion with your payment in the enclosed envelope. Make your cheque or money order payable to the Minister of Finance. Veuillez détacher et retourner cette partie avec votre remise dans l'enveloppe ci-jointe. Libellez votre chèque ou votre mandat à l'ordre du ministre des Finances.

Brant County Power Inc.
65 Dundas Street East
Paris, ON N3L 3H1
Attn: Bruce Noble, CEO

Customer No. / N° du client 2784
Customer Site No./ N° d'emplacement du client 1060839
Invoice No./ N° de la facture 50005
Payment Amount / Montant remis CAD \$.

45 AR 50005

- 9b) Please confirm the start date of when BCP began charging the SPC to its customers and the end date of when BCP stopped charging the SPC.

BCP Response

BCP started charging the SPC on Nov 1/10 and ended Nov 30/11.

- 9c) Please complete the following table related to the SPC.

BCP Response

Please see excel chart on next page.

Brant County Power Tax
SPC
Dec 31/11

2010

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Opening Balance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$110,803.00	\$110,803.00	\$110,803.00	\$110,803.00	\$110,749.40
Expenses	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Revenues	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$110,803.00	\$0.00	\$0.00	\$0.00	\$53.60	\$15,013.41
Adjustments												\$0.00
Monthly Change	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$110,803.00	\$0.00	\$0.00	\$0.00	-\$53.60	-\$15,013.41
Closing Balance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$110,803.00	\$110,803.00	\$110,803.00	\$110,803.00	\$110,749.40	\$95,735.99
Interest Opening												
Monthly Interest	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$82.18	\$164.36	\$246.54	\$357.34
Interest Adjustments												
Interest Closing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$82.18	\$164.36	\$246.54	\$357.34	\$468.09
Interest Rate (annual)		0.55%			0.55%			0.89%			1.20%	
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$110,803.00	\$110,885.18	\$110,967.36	\$111,049.54	\$111,106.74	\$96,204.08

2011

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Opening Balance	\$95,735.99	\$88,218.88	\$79,657.19	\$72,027.57	\$64,280.07	\$57,114.46	\$50,233.53	\$43,000.77	\$34,794.98	\$26,391.64	\$18,962.96	\$11,971.81
Expenses	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Revenues	\$7,517.11	\$8,561.69	\$7,629.62	\$7,747.50	\$7,165.61	\$6,880.93	\$7,232.76	\$8,205.79	\$8,403.34	\$7,428.68	\$6,991.15	\$7,033.21
Adjustments												
Monthly Change	-\$7,517.11	-\$8,561.69	-\$7,629.62	-\$7,747.50	-\$7,165.61	-\$6,880.93	-\$7,232.76	-\$8,205.79	-\$8,403.34	-\$7,428.68	-\$6,991.15	-\$7,033.21
Closing Balance	\$88,218.88	\$79,657.19	\$72,027.57	\$64,280.07	\$57,114.46	\$50,233.53	\$43,000.77	\$34,794.98	\$26,391.64	\$18,962.96	\$11,971.81	\$4,938.60
Interest Opening												
Monthly Interest	\$468.09	\$585.37	\$693.43	\$791.01	\$879.25	\$957.99	\$1,027.96	\$1,089.49	\$1,142.17	\$1,184.79	\$1,217.12	\$1,240.35
Interest Adjustments	\$117.28	\$108.07	\$97.58	\$88.23	\$78.74	\$69.97	\$61.54	\$52.68	\$42.62	\$32.33	\$23.23	\$14.67
Interest Closing	\$585.37	\$693.43	\$791.01	\$879.25	\$957.99	\$1,027.96	\$1,089.49	\$1,142.17	\$1,184.79	\$1,217.12	\$1,240.35	\$1,255.02
Interest Rate (annual)		1.47%			1.47%			1.47%			1.47%	
	\$88,804.25	\$80,350.62	\$72,618.58	\$65,159.32	\$58,072.45	\$51,261.49	\$44,090.26	\$35,937.15	\$27,576.43	\$20,180.08	\$13,212.16	\$6,193.62

9d) Is BCP aware that the rate generator calculates the rate rider associated with the SPC? If yes, please justify why BCP has not used the rate generator.

BCP Response

BCP was not aware of calculation in the rate generator. BCP will update these rates once all revenues are finalized as discussed in our manager's summary contained with the original application.

Smart Meter Funding Adder (SMFA)

In the Board's Decision in Order in BCP's 2011 cost of service application (EB-2010-0125), the Board noted that the Settlement Proposal includes the continuation of the SMFA of \$1.00 per metered customer per month. The Board further noted that the SMFA is a tool designed to provide advance funding and to mitigate the anticipated rate impact of smart meter costs when recovery of those costs is approved by the Board. The deployment of smart meters on a province-wide basis is nearing completion and the Board expects distributors to file for a final prudence review at the earliest possible opportunity following the availability of audited costs. The Board expects BCP to file in 2012 an application with the Board seeing final approval for smart meter related costs.

10a) When does BCP anticipate finalizing deployment of smart meters?

BCP Response

As of December 31, 2011 – 99% of its smart meter infrastructure is deployed and BCP is billing TOU as of Sep 1/11. There are few commercial smart meters not yet installed due to delays in Measurement Canada approval and we expect these to be installed in the first quarter of 2012.

10b) When does BCP anticipate having smart meter costs audited and when does it expect to apply with the Board for final approval of its smart meter related costs?

BCP Response

We expect to have the vast majority of smart meter costs to be audited by April 2012 and expect to apply for disposition of these costs through BCP's next rate filing which is expected to be in 2014.

Managers Summary, Page 6

BCP indicated that it has not finalized the deployment of smart meters in their service territory. As a result, costs are not finalized and have not been audited. BCP is requesting the continuation of the current approved SMFA until April 30, 2013.

- 11a) Please indicate the status of BCP's Smart Meter deployment by completing the modified version of Appendix 2-Q of the Appendices to *Chapter 2 of the Filing Requirements for Transmission and Distribution Applications*. A copy of this spreadsheet is attached.

BCP Response

Please see next page.

File Number: EB-2011-0154
File Number: EB-2011-0154
Exhibit: X
Tab: Y
Schedule: Z
Page: 1

Date: January 10, 2012

Appendix 2-Q Smart Meters

Irrespective of whether a distributor is actively deploying smart meters (except if the distributor has completed its smart meter deployment program and has had Board-approved disposition of the balances in accounts 1555 and 1556) the distributor should provide a completed table as follows:

Year	Smart Meters Installed			Percentage of applicable customers converted	Account 1555		Account 1556
	Residential	GS < 50 kW	Other ¹		Funding Adder Revenues Collected	Capital Expenditures	Operating Expenses
				%	\$	\$	\$
2006	-	-	-	-	\$ 16,101	\$ -	\$ 14,302
2007	-	-	-	-	\$ 27,957	\$ -	\$ 11,749
2008	-	-	-	-	\$ 28,234	\$ -	\$ 14,916
2009	-	-	-	-	\$ 28,489	\$ 8,826	\$ 42,406
2010	8,188	955	-	95.8%	\$ 66,715	\$ 1,232,785	\$ 34,513
2011	14	360	-	3.9%	\$ 106,447	\$ 336,852	\$ 138,409
2012 and beyond (if required)	-	29	-	0.3%			

¹ The distributor should provide details of Other. (e.g. Toronto Hydro-Electric System Ltd. has some legacy non-interval GS > 50 kW customers being converted to "smart" meters.)

In addition, a distributor that is requesting an increase to its current approved smart meter funding adder (e.g. to \$1.00 or another utility-specific amount), should provide the information required to support such a request in accordance with section 1.4 of *Guideline G-2008-0002: Smart Meter Funding and Cost Recovery*, or any successor document. Applicants should note that continuation of a smart meter funding adder past April 30, 2012 will only be allowed by the Board in exceptional circumstances.

Any request for disposition or partial disposition of the balances in accounts 1555 and 1556 should be supported by smart meter costs information that has been audited in accordance with the requirements of *Guideline G-2008-0002* or further information communicated by the Board.

- 11b) Please provide more details as to why BCP considers it necessary and appropriate to continue the SMFA at this time.

BCP Response

BCP needs to continue with the SMFA as currently it has spent ~ \$1.6 million (\$1.24 million on capital and \$337k on operating expenses). As at the end of December 2011 – approximately \$273,000 has been received through the SMFA. The SMFA is necessary to at least partially some of the costs spent through the smart meter initiative.

- 11c) If its proposal to continue the SMFA past April 30, 2012 is approved, please provide BCP's views as to whether the current SMFA of \$1.00 is adequate as partial recovery of the revenue requirement for installed smart meters in order to avoid a significant deferred revenue requirement recovery when BCP makes application for disposition.

BCP Response

See 11 b)'s explanation for why the SMFA is needed past April 30, 2012.

- 11d) Please fill out the attached draft Board staff Smart Meter model to calculate an updated SMFA for the 2012 rate year.

BCP Response

BCP is filing the Excel model entitled "2012 smart metermodel_FINAL_20111103_V2_17.xls" to complete this IR.

- 11e) Please explain, in detail, what is the nature of the costs that BCP has left to incur (i.e. forecasted costs for 2011 and 2012), with respect to its smart meter implementation.

BCP Response

There are no material costs left to incur for smart meter implementation.

- 11f) Are these costs different than those BCP has incurred prior to 2011? If so, please explain the differences.

BCP Response

No.

11g) Please complete the table below with respect to BCP's smart meter implementation status and the associated costs:

BCP Response

See response to IR 11a) above.

Lost Revenue Adjustment Mechanism (LRAM) Ref: Appendix F, LRAM Filing

BCP has requested recovery of \$21,561, related to lost revenues from OPA CDM Programs delivered in 2010.

- 12a) Please confirm that the LRAM calculations incorporated the 2010 OPA final program results.

BCP Response

BCP confirms that LRAM calculations incorporate the 2010 OPA final program results.

The current LRAM claim amount as originally filed was \$21,561. Upon review, BCP has found that the \$21,561 claim as filed inadvertently omitted LRAM associated with lost revenue from 2010 OPA programs in 2010. As such, BCP submits a revised LRAM claim for \$34,568, including carrying charges of \$600. All other energy savings, measure inputs and calculations are unchanged from the originally filed LRAM claim. This updated claim amount now adequately accounts for lost revenue between January 1 2010 and April 30 2012 associated with 2010 OPA programs. Please see response to VECC Question 1b for more detail.

- 12b) If BCP has not received the 2010 OPA final program evaluation results, please discuss when BCP expects to receive them and how it will update its LRAM claim.

BCP Response

BCP confirms that it has received the 2010 OPA final program evaluation results.

- 12c) Please confirm that BCP is only requesting lost revenues from OPA programs implemented in 2010.

BCP Response

BCP confirms that it is only requesting lost revenue from OPA programs implemented in 2010. Lost revenue from OPA programs implemented in 2010 is being claimed for energy savings in 2010, 2011 and the first four months of 2012.

- 12d) Please confirm that BCP is not requesting approval for the lost revenues that have persisted from prior year programs into 2010. If BCP is requesting persisting amounts in 2010, please provide a table that shows the persisting lost revenues from each year that are being claimed in this application.

BCP Response

BCP confirms that it is not requesting approval for lost revenues that have persisted from prior years into 2010.

- 12e) Please confirm that BCP has not recovered any of the amounts associated with this LRAM claim in the past. If BCP has previously recovered amounts included in this application, please provide an updated LRAM amount with these amounts removed.

BCP Response

BCP confirms that it has not recovered any of the amounts associated with this LRAM claim in the past. The figure below illustrates the claim periods of both the previous and current LRAM claims. It shows that the current LRAM claim is for lost revenue that was not included in the previous LRAM claim.

	2005	2006	2007	2008	2009	2010	2011	Jan 1 to Apr 30 2012
2005 programs	Past LRAM claim	Past LRAM claim	Past LRAM claim	Past LRAM claim	Past LRAM claim	Past LRAM claim		
2006 programs		Past LRAM claim	Past LRAM claim	Past LRAM claim	Past LRAM claim	Past LRAM claim		
2007 programs			Past LRAM claim	Past LRAM claim	Past LRAM claim	Past LRAM claim		
2008 programs				Past LRAM claim	Past LRAM claim	Past LRAM claim		
2009 programs					Past LRAM claim	Past LRAM claim		
2010 programs						Current LRAM claim	Current LRAM claim	Current LRAM claim

- 12f) Please identify the CDM savings that were included in BCP's 2011 Board approved load forecast for CDM programs deployed from 2006 to 2011 inclusive.

BCP Response

Please see attached load forecast from Burman Energy Consultants used for BCP's 2010 CoS filing. For further clarification we have provided questions and answers which arose as a result of a technical conference – i.e. undertakings.



90 Anishada Road, Kitchener, Ont L0G 1J9 • Phone: 1-877-463-5453 • Fax: 905-999-4606 • Email: info@burmanenergy.ca • www.burmanenergy.ca

Brant County Power Inc. Load Forecasting Methodology

Summary

The purpose of this report is to present the process used by Burman Energy Consultants Group to prepare the normalized load forecast used for the purpose of rate application for Brant County Power. Burman Energy reviewed various processes used by the 2008 and 2009 cost of service applicants on the OEB database and is proposing to adopt weather normalization forecasting (WNF). This method is the one approved by the Ontario Energy Board for Toronto Hydro Electric System Ltd in its 2008, 2009 and 2010 rate application (EB-2007-0680).

Burman Energy has used a widely accepted multivariate regression analysis methodology which is used by various distributors in Ontario. The regression analysis establishes purchased kWh as the independent variable against a number of dependent variables. The dependant variables are considered contributors to the determination of load and energy. There is a very high correlation between the historical and forecasted model data which demonstrates the effectiveness of this tool.

Load Forecast and Methodology

- Burman Energy's weather normalized load forecast is developed in a multi-step process.
 - First, the total system weather normalized purchased energy forecast is developed based on a multivariate regression model that incorporates weather, historical load and economic data.
 - Next, the purchased energy forecast is adjusted by a historical loss factor to produce a weather normalized billed energy forecast.
 - Then using the billed energy forecast, the rate class billed energy (kWh) is developed based on a forecast of customer numbers and historical usage patterns per customer.
 - The billed energy forecast for classes that are weather sensitive, is adjusted to ensure that the total billed energy forecast by class correlates to the total weather normalized billed energy forecast.

- Finally a geometric analysis is conducted in order to forecast the customers from the different classes. For classes that use kW for the distribution volumetric billing determinant, an adjustment factor is applied to class energy forecast based on the historical relationship between kW and kWh.

Regression Analysis Model Equation:

BECGI has developed coefficients for the following dependant variables used in the regression model:

- weather (heating and cooling degree days)
- Ontario economic output (GDP)
- Conservation and Demand Management (CDM) activity
- Calendar variables (days in month)
- A 'Constant' used for change in purchased kWh in 2006

Dependant Variables:

- Weather impacts on load are apparent in both the winter heating season, and in the summer cooling season. For that reason, both Heating Degree Days ("HDD" i.e. a measure of coldness in winter) and Cooling Degree Days ("CDD" i.e. a measure of summer heat) are modeled.
 - Due to the recent global activity surrounding climate change historical weather data is showing that there is a warming of the global climate system.
 - In this regard, Burman Energy has reviewed the impact of weather on the energy usage starting from January 1990 to July 2010. This is done to determine weather-normalized forecast. A sensitivity analysis was done showing the impact on the 2010 and 2011 purchased kWh weather normalized forecast based on 10-year and a 20-year weather trend data.
- Economic output – which encompasses customer trends in the Brant County Power service area as well as general economic conditions; this is captured in the model using the Ontario Real Gross Domestic Product (GDP) as an index of economic output.
- CDM activity is another driver which impacts the load forecast and thus, historical CDM activity reported by the OPA as well as the Minister's Directive for CDM activity for 2011-2014 target numbers for Brant County Power have been used in the regression analysis model as part of the equation.

- **Calendar variable** is another factor in determining energy use in the monthly model. For example, the number of days in a particular month will impact energy use.
- A 'Constant' was used for the purchased kWh in 2006 due to higher kWh consumption towards the end of 2006 onwards.

Determination of coefficients:

- **Monthly Purchased kWh** and values of the dependant variables from January 2005 to December 2009 resulted in 60 data points.. This is done in order to obtain the coefficients of the regression model equation.

Purchased kWh Prediction Model Equation:

The following outlines the equation of the predication model used to predict weather normal kWh purchases.

$$\begin{aligned}
 \text{Purchased kWh}_{\text{predicted}} &= (HDD_{\text{coefficient}} * HDD) + (CDD_{\text{coefficient}} * CDD) \\
 &+ (GS > 50kW \text{ Flag}_{\text{coefficient}} * 'Constant') \\
 &+ (Number \text{ of Days in a Month}_{\text{coefficient}} * Number \text{ of days in a month}) \\
 &+ (Ontario \text{ real GDP}_{\text{coefficient}} * GDP) + (CDM \text{ Activity}_{\text{coefficient}} \\
 &* CDM \text{ activity})
 \end{aligned}$$

A table at the end of the report illustrate the resulting outcome of the predicted kWh and is compared to the actual kWh.

The sources of data for the various data points are:

1. Environment Canada website for monthly heating degree day and cooling degree information. Data for the Brantford/Brant County weather station was used.
2. The 2003, 2008 and 2009 Ontario Economic Outlooks from the Ontario Ministry of Finance provided the Ontario real GDP index.
3. The calendar provided information related to number of days in the month.

Billed energy (kWh) Forecast:

To determine the total weather normalized energy billed forecast, the total system weather normalized purchased forecast is adjusted by a historical loss factor. As outlined in the table below, historically the Brant County Power loss factor on average has been 6.80%. This loss factor was used in load forecast for the prediction of billed kWh.

Year	Purchased kWh Actual	Billed kWh Actual	Loss Factor
2005	236,756,080	221,102,367	7.080%
2006	244,309,195	221,505,841	10.288%
2007	306,747,610	287,791,044	6.587%
2008	297,492,850	281,426,082	5.709%
2009	285,044,124	271,297,515	5.067%
		Average	6.945%

With this average loss factor the total weather normalized billed energy (kWh) will be:

$$\left(\text{Purchased kWh}_{\text{Predicted}} / \text{Loss Factor}_{\text{Average}} \right)$$

Billed Demand Usage (kW) Forecast:

As Brant County has classes which are not weather sensitive and the cost of power is based on kW (demand) use, the energy forecast for these classes needs to be converted to a kW basis. The forecast of kW for these classes is based on a review of the historical ratio of kW to kWh and applying the average ratio to the forecasted kWh to produce the required kW. This approach was done for the GS>50 kW, Streetlights and Sentinel lights classes.

The following is the historical billed kW and predicted kW for 2010 and 2011.

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Annual Ratio of kW to kWh			
Year	GS>50 kW	Street Lights	Sentinel Lights
2005	0.31810%	0.28689%	0.26667%
2006	0.31599%	0.28202%	0.26667%
2007	0.20789%	0.28119%	0.26667%
2008	0.21486%	0.28026%	0.26667%
2009	0.22320%	0.28117%	0.26667%
Average	0.25601%	0.28231%	0.26667%

Annual Billed kW				
Year	GS>50 kW	Street Lights	Sentinel Lights	Total
2005	321,664	4,685	560	326,909
2006	332,145	4,779	555	337,479
2007	356,488	4,779	524	361,790
2008	353,530	4,770	500	358,800
2009	342,070	4,770	481	347,322
2010	425,205	4,792	459	430,455
2011	451,104	4,794	437	456,335

Results of Prediction Model:

The prediction formula from the regression analysis has the following statistical result which generally indicates the formula has a very good fit to the actual data set.

Regression Statistics	
Multiple R	0.95
R Square	0.91
Adjusted R Square	0.90
Observations	60

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	t Stat
Intercept	-1
Heating Degree Days	9
Cooling Degree Days	10
GS>50kW Flag for 2006	9
Number of Days in Month	3
Ontario Real GDP Monthly %	2
CDM Activity	-1.8

Prediction Results and Actual Data Comparison:

The annual results of the above prediction formula compared to the actual annual purchases from 2005 to 2009 are shown in the table below.

Brant County Power-Weather Normalized Load Forecast							
	2005	2006	2007	2008	2009	2010	2011
Actual kWh Purchases	236,756,080	242,722,450	306,747,610	297,492,850	285,044,124		
Predicted kWh Purchases	237,105,183	241,529,155	303,227,205	298,065,175	288,836,397	293,500,326	292,363,223
% Difference	0.147%	-0.492%	-1.148%	0.1924%	1.330%		
Billed kWh	221,115,207	221,518,681	287,802,804	281,438,922	271,310,355	274,447,754	273,384,466

The weather normalized forecast amount for 2010 and 2011 is determined by using dependant variables in the prediction formula on a monthly basis.

	Actual
	Predicted

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Follow up to VECC TC 3d

UNDERTAKING NO. JT1.1: TO EXPLAIN WHETHER CDM VARIABLE USED IN REGRESSION ANALYSIS REPRESENTED MONTHLY SAVINGS FROM PROGRAMS IMPLEMENTED FOR THE YEAR IN QUESTION, OR WHETHER IT WAS MONTHLY SAVINGS FOR THE PROGRAMS PLUS CARRY-OVER OF PERSISTING PROGRAMS FROM PREVIOUS YEARS, AND IF IT REPRESENTED ONLY YEAR IN QUESTION, EXPLAIN WHY IT IS MORE APPROPRIATE THAN ONE REPRESENTING ALL SAVINGS ACHIEVED TO DATE.

The annual CDM results shown in the table below is obtained from the OPA file for the year 2006 to 2010. These are final results which consider carry-over amounts from CDM programs of persisting previous years as well as results from the year in question. For example, 2007 Annual CDM results considers 2006 results plus 2007 to give 1,407,266.18

For CDM Activity Calculation-Using most up-to-date OPA file					
Month	CDM Activity Variable	Month	CDM Activity Variable	Month	CDM Activity Variable
Jan-06	10,675.48	Jan-07	126,439.09	Jan-08	127,851.45
Feb-06	21,350.97	Feb-07	124,772.38	Feb-08	147,597.63
Mar-06	32,026.45	Mar-07	123,105.67	Mar-08	167,343.82
Apr-06	42,701.93	Apr-07	121,438.96	Apr-08	187,090.00
May-06	53,377.42	May-07	119,772.25	May-08	206,836.18
Jun-06	64,052.90	Jun-07	118,105.54	Jun-08	226,582.36
Jul-06	74,728.38	Jul-07	116,438.83	Jul-08	246,328.54
Aug-06	85,403.87	Aug-07	114,772.12	Aug-08	266,074.72
Sep-06	96,079.35	Sep-07	113,105.40	Sep-08	285,820.90
Oct-06	106,754.83	Oct-07	111,438.69	Oct-08	305,567.08
Nov-06	117,430.32	Nov-07	109,771.98	Nov-08	325,313.26
Dec-06	128,105.80	Dec-07	108,105.27	Dec-08	345,059.45
Jan-09	360,614.76	Jan-10	506,870.78	Jan-11	216,725.18
Feb-09	376,170.08	Feb-10	482,018.29	Feb-11	199,956.96
Mar-09	391,725.40	Mar-10	457,165.80	Mar-11	183,188.75
Apr-09	407,280.72	Apr-10	432,313.31	Apr-11	166,420.54
May-09	422,836.04	May-10	407,460.82	May-11	149,652.32
Jun-09	438,391.36	Jun-10	382,608.33	Jun-11	132,884.11
Jul-09	453,946.67	Jul-10	357,755.84	Jul-11	116,115.89
Aug-09	469,501.99	Aug-10	332,903.35	Aug-11	99,347.68
Sep-09	485,057.31	Sep-10	308,050.86	Sep-11	82,579.46
Oct-09	500,612.63	Oct-10	283,198.37	Oct-11	65,811.25
Nov-09	516,167.95	Nov-10	258,345.88	Nov-11	49,043.04
Dec-09	531,723.27	Dec-10	233,493.39	Dec-11	32,274.82
Year	TOTAL ANNUAL CDM RESULTS	Increase over Previous year (kWh)	Rate	Year	Value
2006	832,687.71	832,687.70990	10,675.48	2006	1,537,269.62
2007	1,407,266.18	- 130,003.44	- 1,666.71	2007	1,297,263.27
2008	2,837,465.40	1,540,202.12	19,746.18	2008	4,140,713.35
2009	5,354,028.19	1,213,314.84	15,555.32	2009	6,380,679.20
2010	4,442,185.01	- 1,938,494.19	- 24,852.49	2010	2,801,920.70
2011-2014 (GWh)	9.85	-	-	2011	387,297.87
2011	1,494,000.00	- 1,307,920.70	- 16,768.21		
CDM Results for 2006-2009 is obtained from OPA Conservation file provided by Brant County Power.					
The Rate is obtained by taking the value in 'Increase over previous year (kWh)' x 'Constan Number (=78					
'Increase over previous year (kWh)' is obtained by taking the 'Total Annual CDM Results' - 'value'					
For example, 2007 'Increase over previous year (kWh)' = 2007 'Total Annual CDM Results' - 2006 'Value'					

Follow up to VECC TC 3d

UNDERTAKING NO. JT1.2: TO EXPLAIN WHETHER UPDATED TABLE IN PART (D) SHOWS ACTUAL SAVINGS ACHIEVED OR WHETHER IT SHOWS EXPECTED ANNUALIZED VALUE IF PROGRAMS HAD BEEN IN PLACE FOR THE FULL YEAR.

THE TABLE IN PART (D) OF THE VECC TC3D RESPONSE SHOWS THE ACTUAL REPORTED FINAL SAVINGS OF THE CDM PROGRAMS FOR THE YEAR IN QUESTION. FOR EXAMPLE, THE 2006 RESULTS OF 832,687.71 IS ACTUAL OPA CDM FINAL RESULTS.

Follow up to VECC TC 3h

UNDERTAKING NO. JT1.3: TO RECONCILE UPDATED CDM SAVINGS WITH AMOUNTS FROM BRANT COUNTY POWER INC. CONSERVATION DEMAND MANAGEMENT 2011 TO 2014 STRATEGY FILING.

For CDM Activity Calculation-Using most up-to-date OPA file					
Month	CDM Activity Variable	Month	CDM Activity Variable	Month	CDM Activity Variable
Jan-06	10,675.48	Jan-07	126,439.09	Jan-08	127,851.45
Feb-06	21,350.97	Feb-07	124,772.38	Feb-08	147,597.63
Mar-06	32,026.45	Mar-07	123,105.67	Mar-08	167,343.82
Apr-06	42,701.93	Apr-07	121,438.96	Apr-08	187,090.00
May-06	53,377.42	May-07	119,772.25	May-08	206,836.18
Jun-06	64,052.90	Jun-07	118,105.54	Jun-08	226,582.36
Jul-06	74,728.38	Jul-07	116,438.83	Jul-08	246,328.54
Aug-06	85,403.87	Aug-07	114,772.12	Aug-08	266,074.72
Sep-06	96,079.35	Sep-07	113,105.40	Sep-08	285,820.90
Oct-06	106,754.83	Oct-07	111,438.69	Oct-08	305,567.08
Nov-06	117,430.32	Nov-07	109,771.98	Nov-08	325,313.26
Dec-06	128,105.80	Dec-07	108,105.27	Dec-08	345,059.45
Jan-09	360,614.76	Jan-10	506,870.78	Jan-11	216,725.18
Feb-09	376,170.08	Feb-10	482,018.29	Feb-11	199,956.96
Mar-09	391,725.40	Mar-10	457,165.80	Mar-11	183,188.75
Apr-09	407,280.72	Apr-10	432,313.31	Apr-11	166,420.54
May-09	422,836.04	May-10	407,460.82	May-11	149,652.32
Jun-09	438,391.36	Jun-10	382,608.33	Jun-11	132,884.11
Jul-09	453,946.67	Jul-10	357,755.84	Jul-11	116,115.89
Aug-09	469,501.99	Aug-10	332,903.35	Aug-11	99,347.68
Sep-09	485,057.31	Sep-10	308,050.86	Sep-11	82,579.46
Oct-09	500,612.63	Oct-10	283,198.37	Oct-11	65,811.25
Nov-09	516,167.95	Nov-10	258,345.88	Nov-11	49,043.04
Dec-09	531,723.27	Dec-10	233,493.39	Dec-11	32,274.82
Year	TOTAL ANNUAL CDM RESULTS	Increase over Previous year (kWh)	Rate	Year	Value
2006	832,687.71	832,687.70990	10,675.48	2006	1,537,269.62
2007	1,407,266.18	- 130,003.44	- 1,666.71	2007	1,297,263.27
2008	2,837,465.40	1,540,202.12	19,746.18	2008	4,140,713.35
2009	5,354,028.19	1,213,314.84	15,555.32	2009	6,380,679.20
2010	4,442,185.01	- 1,938,494.19	- 24,852.49	2010	2,801,920.70
2011-2014 (GWh)	9.85	-	-	2011	387,297.87
2011	1,494,000.00	- 1,307,920.70	- 16,768.21		
CDM Results for 2006-2009 is obtained from OPA Conservation file provided by Brant County Power.					
The Rate is obtained by taking the value in 'Increase over previous year (kWh)' x 'Constan Number (=78					
'Increase over previous year (kWh)' is obtained by taking the 'Total Annual CDM Results' - 'value'					
For example, 2007 'Increase over previous year (kWh)' = 2007 'Total Annual CDM Results' - 2006 'Value'					

UNDERTAKING NO. JT1.3

Year	Month	Heating Degree Days	Cooling Degree Days	Ontario Real GDP Monthly %	Number of Days/Month	GS>50kW Flag for 2006	CDM Activity Variable	Predicted Purchase kWh	Total Predicted Purchase kWh
2010	Jan	742	0	135	31	1	506,871	25,888,450	293,705,148
	Feb	667	0	135	28	1	482,018	24,308,562	
	Mar	560	0	136	31	1	457,166	24,967,566	
	Apr	332	0	136	30	1	432,313	23,302,655	
	May	179	9	137	31	1	407,461	23,259,308	
	June	37	56	137	30	1	382,608	24,103,029	
	July	5	90	137	31	1	357,756	25,786,506	
	Aug	12	72	138	31	1	332,903	25,148,773	
	Sep	63	19	138	30	1	308,051	22,872,723	
	Oct	261	3	138	31	1	283,198	23,826,587	
	Nov	413	0	139	30	1	258,346	24,262,187	
	Dec	627	0	139	31	1	233,493	25,978,803	
2011	Jan	742	0	139	31	1	216,725	26,695,748	302,006,799
	Feb	667	0	140	28	1	199,957	25,094,927	
	Mar	560	0	140	31	1	183,189	25,732,978	
	Apr	332	0	140	30	1	166,421	24,047,096	
	May	179	9	140	31	1	149,652	23,982,756	
	June	37	56	141	30	1	132,884	24,805,466	
	July	5	90	141	31	1	116,116	26,467,911	
	Aug	12	72	141	31	1	99,348	25,809,126	
	Sep	63	19	142	30	1	82,579	23,512,004	
	Oct	261	3	142	31	1	65,811	24,444,776	
	Nov	413	0	142	30	1	49,043	24,859,263	
	Dec	627	0	142	31	1	32,275	26,554,748	

THIS A NEW QUESTION WHICH SHOULD HAVE BEEN SENT TO YOU PREVIOUSLY – OUR APOLOGIES

UNDERTAKING NO. JT1.5: TO PROVIDE RESPONSE TO VECC TECHNICAL CONFERENCE QUESTION NO. 11(D). PROVIDE A REVISED LOAD FORECAST CDM REDUCTION CALCULATION FOR THE HISTORIC PERIOD (I.E., UPDATE RESPONSE TO VECC #4 E))(ORIGINAL IRS), RE-ESTIMATE THE REGRESSION MODEL AND REVISE THE LOAD FORECAST USING THE NEW MODEL. PLEASE INDICATE THE INPUT ASSUMPTIONS USED FOR 2010 AND 2011 FOR GDP FOR PURPOSES OF THE RESPONSE.

UNDERTAKING NO. JT1.5

NOTE: THE CDM ACTIVITY VARIABLE SHOWN IN THE TABLE BELOW HAS BEEN REVISED TO REFLECT THE 2011-2014 CDM STRATEGY.

THE GDP ASSUMPTIONS USED FOR 2010 AND 2011 ARE THOSE PROVIDED BY ENERGY PROBE IN THE INITIAL RESPONSE.

For CDM Activity Calculation-Using most up-to-date OPA file					
Month	CDM Activity Variable	Month	CDM Activity Variable	Month	CDM Activity Variable
Jan-06	10,675.48	Jan-07	126,439.09	Jan-08	127,851.45
Feb-06	21,350.97	Feb-07	124,772.38	Feb-08	147,597.63
Mar-06	32,026.45	Mar-07	123,105.67	Mar-08	167,343.82
Apr-06	42,701.93	Apr-07	121,438.96	Apr-08	187,090.00
May-06	53,377.42	May-07	119,772.25	May-08	206,836.18
Jun-06	64,052.90	Jun-07	118,105.54	Jun-08	226,582.36
Jul-06	74,728.38	Jul-07	116,438.83	Jul-08	246,328.54
Aug-06	85,403.87	Aug-07	114,772.12	Aug-08	266,074.72
Sep-06	96,079.35	Sep-07	113,105.40	Sep-08	285,820.90
Oct-06	106,754.83	Oct-07	111,438.69	Oct-08	305,567.08
Nov-06	117,430.32	Nov-07	109,771.98	Nov-08	325,313.26
Dec-06	128,105.80	Dec-07	108,105.27	Dec-08	345,059.45
Jan-09	360,614.76	Jan-10	506,870.78	Jan-11	216,725.18
Feb-09	376,170.08	Feb-10	482,018.29	Feb-11	199,956.96
Mar-09	391,725.40	Mar-10	457,165.80	Mar-11	183,188.75
Apr-09	407,280.72	Apr-10	432,313.31	Apr-11	166,420.54
May-09	422,836.04	May-10	407,460.82	May-11	149,652.32
Jun-09	438,391.36	Jun-10	382,608.33	Jun-11	132,884.11
Jul-09	453,946.67	Jul-10	357,755.84	Jul-11	116,115.89
Aug-09	469,501.99	Aug-10	332,903.35	Aug-11	99,347.68
Sep-09	485,057.31	Sep-10	308,050.86	Sep-11	82,579.46
Oct-09	500,612.63	Oct-10	283,198.37	Oct-11	65,811.25
Nov-09	516,167.95	Nov-10	258,345.88	Nov-11	49,043.04
Dec-09	531,723.27	Dec-10	233,493.39	Dec-11	32,274.82
Year	TOTAL ANNUAL CDM RESULTS	Increase over Previous year (kWh)	Rate	Year	Value
2006	832,687.71	832,687.70990	10,675.48	2006	1,537,269.62
2007	1,407,266.18	- 130,003.44	- 1,666.71	2007	1,297,263.27
2008	2,837,465.40	1,540,202.12	19,746.18	2008	4,140,713.35
2009	5,354,028.19	1,213,314.84	15,555.32	2009	6,380,679.20
2010	4,442,185.01	- 1,938,494.19	- 24,852.49	2010	2,801,920.70
2011-2014 (GWh)	9.85	-	-	2011	387,297.87
2011	1,494,000.00	- 1,307,920.70	- 16,768.21		

CDM Results for 2006-2009 is obtained from OPA Conservation file provided by Brant County Power.

The Rate is obtained by taking the value in 'Increase over previous year (kWh)' x 'Constan Number (=78
'Increase over previous year (kWh)' is obtained by taking the 'Total Annual CDM Results' - 'value'
For example, 2007 'Increase over previous year (kWh)' = 2007 'Total Annual CDM Results' - 2006 'Value

UNDERTAKING NO. JT1.5

SUMMARY OUTPUT								
<i>Regression Statistics</i>								
Multiple R	0.9542478							
R Square	0.910588865							
Adjusted R Square	0.900466849							
Standard Error	956102.0214							
Observations	60							
ANOVA								
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>			
Regression	6	4.93418E+14	8.224E+13	89.96122	5.33054E-26			
Residual	53	4.84489E+13	9.141E+11					
Total	59	5.41867E+14						
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-2064695.368	11585405.96	-0.1782152	0.859233	-25302076.44	21172685.7	-25302076.4	21172685.7
Heating Degree Days	5825.392603	667.7952961	8.7233208	7.97E-12	4485.964893	7164.820313	4485.964893	7164.820313
Cooling Degree Days	42160.67453	4519.827082	9.3279397	9.05E-13	33095.04967	51226.29939	33095.04967	51226.29939
Ontario Real GDP Monthly %	46935.78587	80405.36067	0.5837395	0.561872	-114336.9406	208208.5123	-114336.941	208208.5123
Number of Days/Month	405042.1252	153616.9016	2.6367029	0.01096	96925.64714	713158.6032	96925.64714	713158.6032
GS>50kW Flag for 2006	5794767.126	606422.085	9.5556664	4.02E-13	4578438.486	7011095.766	4578438.486	7011095.766
CDM Activity Variable	-2.089978377	1.166028143	-1.792391	0.078779	-4.4287346	0.248777847	-4.4287346	0.248777847

Year	Month	Heating Degree Days	Cooling Degree Days	Ontario Real GDP Monthly %	Number of Days/Month	GS>50kW Flag for 2006	CDM Activity Variable	Predicted Purchase kWh	Total Predicted Purchase kWh
2010	Jan	742	0	135	31	1	506,871	25,888,450	293,705,148
	Feb	667	0	135	28	1	482,018	24,308,562	
	Mar	560	0	136	31	1	457,166	24,967,566	
	Apr	332	0	136	30	1	432,313	23,302,655	
	May	179	9	137	31	1	407,461	23,259,308	
	June	37	56	137	30	1	382,608	24,103,029	
	July	5	90	137	31	1	357,756	25,786,506	
	Aug	12	72	138	31	1	332,903	25,148,773	
	Sep	63	19	138	30	1	308,051	22,872,723	
	Oct	261	3	138	31	1	283,198	23,826,587	
	Nov	413	0	139	30	1	258,346	24,262,187	
	Dec	627	0	139	31	1	233,493	25,978,803	
2011	Jan	742	0	139	31	1	216,725	26,695,748	302,006,799
	Feb	667	0	140	28	1	199,957	25,094,927	
	Mar	560	0	140	31	1	183,189	25,732,978	
	Apr	332	0	140	30	1	166,421	24,047,096	
	May	179	9	140	31	1	149,652	23,982,756	
	June	37	56	141	30	1	132,884	24,805,466	
	July	5	90	141	31	1	116,116	26,467,911	
	Aug	12	72	141	31	1	99,348	25,809,126	
	Sep	63	19	142	30	1	82,579	23,512,004	
	Oct	261	3	142	31	1	65,811	24,444,776	
	Nov	413	0	142	30	1	49,043	24,859,263	
	Dec	627	0	142	31	1	32,275	26,554,748	

UNDERTAKING NO. JT1.6: TO PROVIDE CDM VALUES USED TO MAKE ADJUSTMENT FOR BULLET POINT NUMBER 1, VECC TECHNICAL CONFERENCE QUESTION NO. 4 (A).

For CDM Activity -Using LRAM Calculation							
Month	CDM Activity Variable	Month	CDM Activity Variable	Month	CDM Activity Variable	Month	CDM Activity Variable
Jan-05	9,830.72	Jan-06	154,498.91	Jan-07	556,937.09	Jan-08	607,610.11
Feb-05	19,661.44	Feb-06	191,029.20	Feb-07	557,542.09	Feb-08	651,628.15
Mar-05	29,492.15	Mar-06	227,559.49	Mar-07	558,147.09	Mar-08	695,646.19
Apr-05	39,322.87	Apr-06	264,089.78	Apr-07	558,752.09	Apr-08	739,664.23
May-05	49,153.59	May-06	300,620.07	May-07	559,357.09	May-08	783,682.27
Jun-05	58,984.31	Jun-06	337,150.36	Jun-07	559,962.08	Jun-08	827,700.31
Jul-05	68,815.03	Jul-06	373,680.64	Jul-07	560,567.08	Jul-08	871,718.35
Aug-05	78,645.74	Aug-06	410,210.93	Aug-07	561,172.08	Aug-08	915,736.39
Sep-05	88,476.46	Sep-06	446,741.22	Sep-07	561,777.08	Sep-08	959,754.43
Oct-05	98,307.18	Oct-06	483,271.51	Oct-07	562,382.08	Oct-08	1,003,772.47
Nov-05	108,137.90	Nov-06	519,801.80	Nov-07	562,987.08	Nov-08	1,047,790.51
Dec-05	117,968.62	Dec-06	556,332.09	Dec-07	563,592.07	Dec-08	1,091,808.55
Jan-09	1,101,419.62	Jan-10	1,078,378.41	Jan-11	-466,777.21		
Feb-09	1,111,030.69	Feb-10	949,615.44	Feb-11	-595,540.18		
Mar-09	1,120,641.76	Mar-10	820,852.47	Mar-11	-724,303.15		
Apr-09	1,130,252.83	Apr-10	692,089.51	Apr-11	-853,066.11		
May-09	1,139,863.90	May-10	563,326.54	May-11	-981,829.08		
Jun-09	1,149,474.97	Jun-10	434,563.57	Jun-11	-1,110,592.05		
Jul-09	1,159,086.03	Jul-10	305,800.60	Jul-11	-1,239,355.02		
Aug-09	1,168,697.10	Aug-10	177,037.63	Aug-11	-1,368,117.99		
Sep-09	1,178,308.17	Sep-10	48,274.66	Sep-11	-1,496,880.96		
Oct-09	1,187,919.24	Oct-10	-80,488.30	Oct-11	-1,625,643.92		
Nov-09	1,197,530.31	Nov-10	-209,251.27	Nov-11	-1,754,406.89		
Dec-09	1,207,141.38	Dec-10	-338,014.24	Dec-11	-1,883,169.86		
Year	TOTAL ANNUAL CDM RESULTS	Increase over Previous year (kWh)	Rate	Year	Value		
2005	766,796	766,796	9,830.72	2005	1,415,623.38		
2006	4,264,986.00	2,849,362.61538	36,530.29	2006	6,763,104.88		
2007	6,723,175.00	47,189.86	605.00	2007			
2008	10,196,512.00	3,433,407.12	44,018.04	2008	13,101,702.64		
2009	13,851,366.00	749,663.36	9,611.07	2009	14,485,696.54		
2010	4,442,185.01	10,043,511.52	128,762.97	2010	4,056,170.89		
2011-2014 (GWh)	9.85			2011	22,598,038.32		
2011	2,462,500.00	6,518,670.89	83,572.70				
CDM Results for 2005-2009 is obtained from LRAM file provided by Brant County Power.							
The Rate is obtained by taking the value in 'Increase over previous year (kWh)' x 'Constan Number (=78)'							
'Increase over previous year (kWh)' is obtained by taking the 'Total Annual CDM Results' - 'value'							
For example, 2007 'Increase over previous year (kWh)' = 2007 ` Total Annual CDM Results` - 2006 `Value`							

Follow up to EP TC 9

UNDERTAKING NO. JT1.10: TO RERUN EQUATION IN RESPONSE TO ENERGY PROBE QUESTION NO. 9, EXCLUDING CDM VARIABLE, AND PROVIDE COEFFICIENTS AND 2011 FORECAST BASED ON HIGHER GDP FIGURES FROM ENERGY PROBE QUESTIONS.

Year	Month	Heating Degree Days	Cooling Degree Days	Ontario Real GDP Monthly %	Number of Days/Month	GS>50kW Flag for 2006	Predicted Purchase kWh (With New Economic Growth Rate)	Total Predicted kWh Purchase
2010	Jan	741.59	0.00	135.11	31	1	26,312,592.39	295,550,662.59
	Feb	667.16	0.00	135.47	28	1	24,718,459.44	
	Mar	559.87	0.00	135.83	31	1	25,265,656.18	
	Apr	331.77	0.00	136.19	30	1	23,507,433.81	
	May	179.17	8.81	136.55	31	1	23,383,567.75	
	June	37.40	56.39	136.91	30	1	24,254,223.71	
	July	5.24	89.51	137.28	31	1	25,943,625.13	
	Aug	12.11	71.80	137.64	31	1	25,240,833.70	
	Sep	63.37	18.70	138.01	30	1	22,860,365.19	
	Oct	261.30	2.73	138.38	31	1	23,800,581.62	
	Nov	413.47	0.00	138.75	30	1	24,262,188.41	
	Dec	626.73	0.00	139.12	31	1	26,001,135.26	
2011	Jan	741.59	0.00	139.39	31	1	26,734,663.94	300,046,632.78
	Feb	667.16	0.00	139.66	28	1	25,132,050.59	
	Mar	559.87	0.00	139.94	31	1	25,670,725.54	
	Apr	331.77	0.00	140.21	30	1	23,903,939.81	
	May	179.17	8.81	140.49	31	1	23,771,468.70	
	June	37.40	56.39	140.76	30	1	24,633,477.76	
	July	5.24	89.51	141.04	31	1	26,314,190.29	
	Aug	12.11	71.80	141.31	31	1	25,602,667.81	
	Sep	63.37	18.70	141.59	30	1	23,213,425.97	
	Oct	261.30	2.73	141.87	31	1	24,144,826.61	
	Nov	413.47	0.00	142.15	30	1	24,597,575.02	
	Dec	626.73	0.00	142.43	31	1	26,327,620.74	

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.951403747							
R Square	0.90516909							
Adjusted R Square	0.89638845							
Standard Error	975493.6493							
Observations	60							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	5	4.90481E+14	9.81E+13	103.0869	2.3336E-26			
Residual	54	5.13857E+13	9.52E+11					
Total	59	5.41867E+14						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-8750164.897	11191025.95	-0.78189	0.437694	-31186820.89	13686491.1	-31186820.89	13686491.09
Heating Degree Days	6152.111092	655.4660626	9.385858	6.14E-13	4837.980767	7466.24142	4837.980767	7466.241416
Cooling Degree Days	44093.38851	4478.344207	9.845913	1.18E-13	35114.84902	53071.928	35114.84902	53071.928
Ontario Real GDP Monthly %	98608.03041	76581.86386	1.287616	0.203371	-54929.36128	252145.422	-54929.36128	252145.4221
Number of Days/Month	390562.6944	156515.6894	2.495358	0.015671	76767.63255	704357.756	76767.63255	704357.7562
GS>50kW Flag for 2006	5070275.59	461238.4446	10.99274	2.16E-15	4145548.191	5995002.99	4145548.191	5995002.988

- 12g) Please provide an updated table with an LRAM amount exclusive of any persisting CDM savings that take place after BCP's last Board-approved load forecast.

BCP Response

A table with LRAM amounts exclusive of any persisting CDM savings that take place after BCP's last Board-Approved load forecast is provided below. BCP does not believe that this LRAM claim is appropriate since it does not account for revenue lost from 2010 OPA programs between January 1 2011 and April 30 2012. As such, this LRAM claim would not keep BCP revenue neutral with respect to 2010 OPA programs.

Customer class	LRAM amounts
Residential	\$4,862
GS < 50 kW	\$8,235
GS 50 to 4,999 kW (all sub-classes)	\$1,963