

# REPORT TO THE PUBLIC UTILITIES BOARD

## SURPLUS ENERGY PROGRAM

NOVEMBER 1, 2010 – OCTOBER 31, 2011

July 6, 2012

Manitoba Hydro  
July 6, 2012



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**REPORT TO PUBLIC UTILITIES BOARD  
SURPLUS ENERGY PROGRAM  
NOVEMBER 1, 2010 - OCTOBER 31, 2011**

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**BACKGROUND**

The Surplus Energy Program (SEP) was first approved on June 30, 2000 by Public Utilities Board (PUB) Order No. 90/00. Customers began accepting service under the Terms and Conditions of this program on December 4, 2000. Numerous Board Orders have been issued over the years to renew the program's Terms and Conditions; the latest being Board Order 57/09 dated April 28, 2009 which approved the SEP program to March 31, 2013. The program allows customers to purchase surplus energy at market prices determined on a weekly basis for peak, shoulder, and off-peak periods.

As part of the original Board Order which approved SEP, Manitoba Hydro was directed to file annual reports on the status of the program. This is the 11th report and covers the period November 1, 2010 to October 31, 2011.

For a brief history of PUB Orders and Manitoba Hydro's applications and reports with respect to the SEP Program, please see Attachment 1.

**SUMMARY OF FINDINGS**

The SEP Program is performing as anticipated and is of mutual benefit to Manitoba Hydro and its customers. This revenue neutral program offers customers choice and access to surplus energy at prices similar to those paid by export customers. To obtain the benefits of the program, customers need to have sufficient flexibility in their operations to take advantage of lower price periods. Analysis shows that all SEP customers have benefited from reduced bills relative to their respective General Service firm rate during the current reporting period of November 1, 2010 through to October 31, 2011.

The cost to Manitoba Hydro for providing surplus energy to SEP customers during the current one-year period was \$602,184. Total revenue collected under SEP was \$672,493, excluding Basic Charges and Distribution Charges, resulting in net revenue of \$70,309.

The four main factors that affected SEP prices during the current year were extra-provincial market prices, water conditions, Manitoba Hydro's cost of hydraulic generation and transmission constraints to neighboring markets. While water conditions during this reporting period were above average, 80% of the Peak SEP energy supply was sourced from displaced exports, while 20% was sourced through avoided spill. For the Shoulder period, 66% was sourced through exports, and 34% through avoided spill. Avoided spill is defined as the water that would have been spilled absent of the SEP. This trend began in May and continued throughout the summer as Manitoba Hydro's reservoirs were full and surplus water had to be released from storage beyond that needed to serve domestic and export load requirements. For the Off-Peak period, 53% was sourced through exports, and 47% through avoided spill. Off-Peak energy is sourced from avoided spill during times when tie-lines to neighboring markets are fully utilized resulting from low over-night Manitoba loads combined with unused hydro generation capacity.

SEP prices during the reporting year for all three pricing periods were, on average, the lowest since the SEP has been available to customers. This situation arose as a result of weak export markets combined with high water supplies. SEP General Service Medium average prices were: On-Peak 3.615 ¢/kWh (ranging from 2.621 ¢/kWh to 5.154 ¢/kWh); Shoulder 2.753 ¢/kWh (ranging from 1.377 ¢/kWh to 3.798 ¢/kWh); and Off-Peak 1.187 ¢/kWh (ranging from 0.457 ¢/kWh to 2.535 ¢/kWh). The lowest off peak prices were a reflection of Manitoba Hydro's marginal cost of hydraulic generation when adjusted for transmission losses to load as a result of transmission constraints that limited further exports to neighboring markets.

There was no interruption in service during the 12 month reporting period.

## **DESCRIPTION OF PROGRAM**

### Eligibility:

The Program makes surplus energy available on an interruptible basis to Manitoba Hydro General Service customers. Eligible customers can participate in one of three options. The three options are:

- 1) Industrial Load - Option 1 - available to industrial loads whose total monthly demand is 1,000 kVA or greater. Under this option customers may only designate 25%<sup>1</sup> of their total load as SEP load.

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<sup>1</sup> Customers can designate up to 50% of their load as SEP provided they have an alternate back-up source of energy to supply the amount in excess of the 25%.

- 2) Heating Load - Option 2 – available to electrical loads of 200 kW or greater. The electricity is to be used for space and/or water heating only and must be separately metered from the customer’s firm load. Customers must have an alternate back-up energy source capable of heating the entire load in the event of an interruption.
- 3) Self-Generation Displacement - Option 3 – available to industrial intermittent loads with total demand between 200 kW to 50,000 kW. Load would not be considered intermittent if the average monthly load factor exceeds 25%. The load must be separately metered from the customer’s firm load and must be fully backed up by generating equipment which is leased or owned by the customer and is located on the premises of the SEP load.

### Billing:

All SEP customers are billed a monthly Basic Charge, Distribution Charge and an Energy Charge. The Basic Charge is \$50.00 per month for customers with connected loads less than 1,000 kVA, and \$100.00 per month for connected loads greater than 1,000 kVA. The Distribution Charge per kilowatt-hour ranges from \$0.0006 to \$0.0062 dependent on customer class. The Energy Charge per kilowatt-hour, applicable to three pricing periods, varies based on expected market prices from week-to-week. The three pricing periods are peak, shoulder and off-peak, and are further defined by season as shown in the following table:

	<b>Summer (May 1 – October 31)</b>	<b>Winter (November 1 – April 30)</b>
Peak	12:01 to 20:00 hours Monday to Friday Except Statutory Holidays	07:01 to 11:00 hours and 16:01 to 20:00 hours Monday to Friday Except Statutory Holidays
Shoulder	All hours except Peak, every day from 07:01 to 23:00	
Off-Peak	All night time hours from 23:01 to 07:00 hours	

### PROGRAM SUBSCRIPTION

There were 26 SEP customers on the program during this reporting period, an increase of two over last year. Both customers are in the Agricultural Service Industry and were former SEP customers. Of these 26 customers, 21 are Option 2 (Heating Load) and 5 are Option 3 (Self-Generation Displacement). There are no Option 1 (Industrial Load) customers.

All the Option 2 customers are classed as General Service Medium Demand and fall under the following industry types:

Agricultural and Related Service Industries	5 customers
Educational Service Industries	11 customers
Local Government Service Industries	4 customers
Retail Food, Beverage and Drug Industries	1 customer

All the Option 3 customers are in the General Service Large Demand 750 V – 30 kV class under the following industry types:

Quarry & Sand Pit Industries	3 customers
Paper & Allied Products Industries	2 customers

All customers have appropriate back-up facilities to support their loads in the event of an interruption.

### **POTENTIAL CUSTOMERS**

Customers in the agricultural industry continue to show interest in SEP. In addition to the two returning SEP agricultural customers a third agricultural customer is in the process of contracting for SEP for the next reporting period. Several more are considering SEP in light of the Manitoba government's consideration to ban the use of coal for space and water heating in 2014. A customer in the paper and product industry is also currently reviewing the Terms and Conditions of SEP to see if this is a viable rate option. Three consecutive years of low SEP prices is attracting customers to consider this program.

The SEP program offers savings to customers who are able to take advantage of lower price periods by scheduling their operations during times when energy prices are low. For many businesses this may not be desirable.

### **CUSTOMER EXPERIENCE**

Experience to date indicates that the majority of customers are satisfied with the SEP Program.

There have been no difficulties encountered with communication of pricing information to customers on a timely basis. This information is faxed or emailed to customers on Wednesday

of each week, providing prices that will be in place for the following week beginning Sunday at midnight.

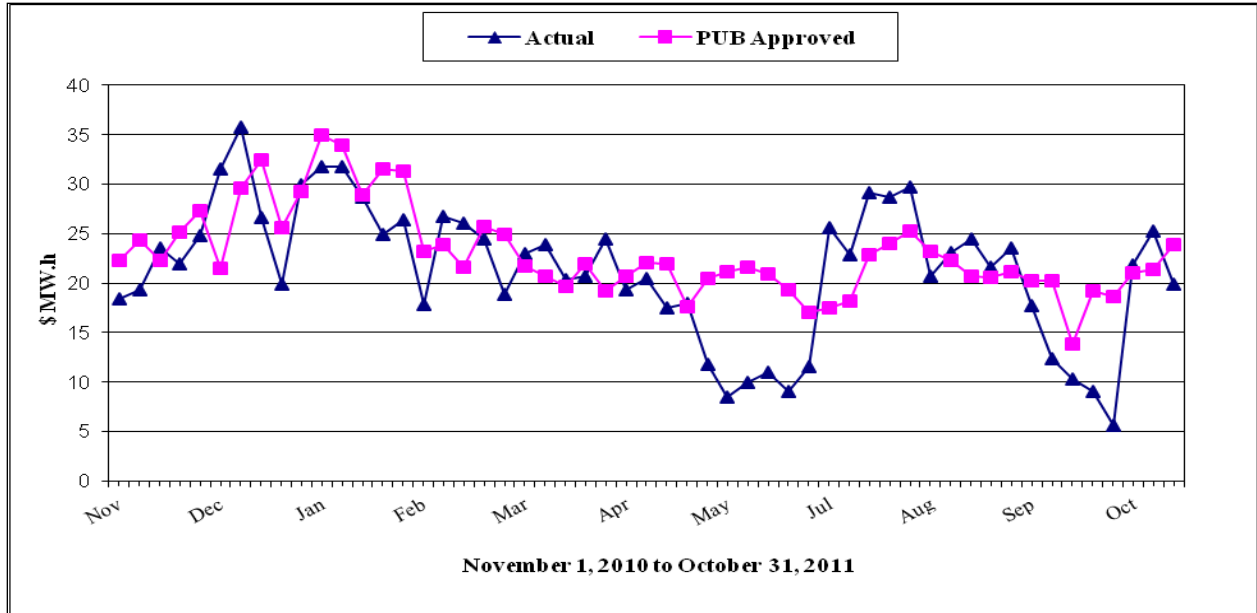
### **SEP ENERGY PRICES**

Each Wednesday Manitoba Hydro applies to the Public Utilities Board for interim *ex parte* approval of the SEP Energy Rates to be in effect the following Monday through Sunday. The following table compares the weekly average prices approved by the PUB with the actual average after-the-fact prices throughout the reporting period. Attachment 2 provides the weekly rates for each pricing period for both Medium and Large 750 V - 30 kV classes. The information is also shown graphically on page 7.

<b>SEP - Average Weekly Rate Per MWh</b>				
<b>Week Beginning</b>	<b>Actual</b>	<b>PUB Approved</b>	<b>Difference</b>	<b>PUB Order No.</b>
November 1, 2010	\$18.45	\$22.24	(\$3.79)	105/10
November 8, 2010	\$19.35	\$24.38	(\$5.03)	111/10
November 15, 2010	\$23.54	\$22.34	\$1.20	112/10
November 22, 2010	\$21.99	\$25.10	(\$3.11)	113/10
November 29, 2010	\$24.77	\$27.26	(\$2.49)	114/10
December 6, 2010	\$31.49	\$21.52	\$9.97	115/10
December 13, 2010	\$35.74	\$29.62	\$6.12	121/10
December 20, 2010	\$26.67	\$32.42	(\$5.75)	125/10
December 27, 2010	\$19.93	\$25.57	(\$5.64)	138/10
January 3, 2011	\$29.99	\$29.30	\$0.69	142/10
January 10, 2011	\$31.78	\$34.99	(\$3.21)	2/11
January 17, 2011	\$31.80	\$33.92	(\$2.12)	5/11
January 24, 2011	\$28.63	\$28.92	(\$0.29)	7/11
January 31, 2011	\$24.97	\$31.54	(\$6.57)	21/11
February 7, 2011	\$26.46	\$31.26	(\$4.80)	22/11
February 14, 2011	\$17.88	\$23.24	(\$5.36)	24/11
February 21, 2011	\$26.69	\$23.84	\$2.85	27/11
February 28, 2011	\$26.06	\$21.63	\$4.43	29/11
March 7, 2011	\$24.50	\$25.67	(\$1.17)	30/11
March 14, 2011	\$18.86	\$24.89	(\$6.03)	32/11
March 21, 2011	\$22.98	\$21.73	\$1.25	34/11
March 28, 2011	\$23.86	\$20.74	\$3.12	36/11
April 4, 2011	\$20.32	\$19.70	\$0.62	39/11
April 11, 2011	\$20.65	\$22.00	(\$1.35)	54/11

<b>SEP - Average Weekly Rate Per MWh</b>				
<b>Week Beginning</b>	<b>Actual</b>	<b>PUB Approved</b>	<b>Difference</b>	<b>PUB Order No.</b>
April 18, 2011	\$24.48	\$19.16	\$5.32	55/11
April 25, 2011	\$19.37	\$20.66	(\$1.29)	59/11
May 2, 2011	\$20.45	\$22.11	(\$1.66)	62/11
May 9, 2011	\$17.50	\$21.94	(\$4.44)	67/11
May 16, 2011	\$17.95	\$17.60	\$0.35	73/11
May 23, 2011	\$11.83	\$20.51	(\$8.68)	75/11
May 30, 2011	\$8.51	\$21.10	(\$12.59)	76/11
June 6, 2011	\$9.99	\$21.56	(\$11.57)	78/11
June 13, 2011	\$10.98	\$20.98	(\$10.00)	79/11
June 20, 2011	\$9.03	\$19.27	(\$10.24)	82/11
June 27, 2011	\$11.54	\$16.99	(\$5.45)	85/11
July 4, 2011	\$25.63	\$17.50	\$8.13	88/11
July 11, 2011	\$22.85	\$18.14	\$4.71	90/11
July 18, 2011	\$29.13	\$22.87	\$6.26	92/11
July 25, 2011	\$28.63	\$23.99	\$4.64	94/11
August 1, 2011	\$29.66	\$25.21	\$4.45	98/11
August 8, 2011	\$20.68	\$23.22	(\$2.54)	100/11
August 15, 2011	\$23.11	\$22.24	\$0.87	102/11
August 22, 2011	\$24.45	\$20.73	\$3.72	107/11
August 29, 2011	\$21.60	\$20.55	\$1.05	108/11
September 5, 2011	\$23.53	\$21.19	\$2.34	115/11
September 12, 2011	\$17.74	\$20.24	(\$2.50)	116/11
September 19, 2011	\$12.35	\$20.21	(\$7.86)	121/11
September 26, 2011	\$10.33	\$13.81	(\$3.48)	122/11
October 3, 2011	\$9.04	\$19.21	(\$10.17)	129/11
October 10, 2011	\$5.68	\$18.60	(\$12.92)	133/11
October 17, 2011	\$21.89	\$21.02	\$0.87	138/11
October 24, 2011	\$25.28	\$21.42	\$3.86	144/11
October 31, 2011	\$19.93	\$23.94	(\$4.01)	151/11
<b>Average</b>	<b>\$21.33</b>	<b>\$23.01</b>	<b>(\$1.68)</b>	





**SOURCE OF SUPPLY FOR SEP ENERGY**

As part of its weekly Application to the PUB, Manitoba Hydro is required to indicate the expected source of supply for SEP energy that is used to derive the marginal cost of energy for the weekly SEP energy rates. The following summary table compares the expected source of supply, which was the basis of the weekly Applications, to the actual source of supply as determined after-the-fact. A more detailed analysis by week is provided in Attachment 3.

SEP Energy Supply Source (%)														
November 1, 2010 to October 31, 2011														
	Actual							Forecast						
	Imports			Exports			Avoided Spill	Imports			Exports			Avoided Spill
	Peak	Shoulder	Off-Peak	Peak	Shoulder	Off-Peak		Peak	Shoulder	Off-Peak	Peak	Shoulder	Off-Peak	
Peak	0%	0%	0%	80%	0%	0%	20%	0%	0%	0%	97%	0%	0%	3%
Shoulder	0%	0%	0%	0%	66%	0%	34%	0%	0%	0%	0%	76%	0%	24%
Off-Peak	0%	0%	0%	0%	0%	53%	47%	0%	0%	0%	0%	0%	53%	47%

Above average water conditions during this reporting period resulted in 80% of Peak, 66% of Shoulder and 53% of Off-Peak SEP energy supply being sourced from displaced exports. The remaining SEP energy supply for all three TOU periods was sourced from avoided spill. For

Peak and Shoulder this trend started in May and continued throughout the summer as Manitoba Hydro's reservoirs were full. Off-Peak energy is sourced from avoided spill during times when tie-lines to neighboring markets are fully utilized.

### **ACTUAL SALES**

Total energy and revenue of SEP sales over the period November 1, 2010 to October 31, 2011 were 25,568 MWh and \$824,893 (excluding \$17,650 in Basic Charges). The distribution of the energy and revenue by pricing period is shown below. A more detailed analysis by week is provided in Attachments 4, 5 and 6.

Period	SEP Energy Sales MWh	Revenue		
		Distribution Charge	Energy Charge	Total
Peak	6,062	\$35,369	\$225,271	\$260,640
Shoulder	11,160	\$66,470	\$320,230	\$386,700
Off Peak	8,345	\$50,562	\$126,992	\$177,554
<b>Total</b>	<b>25,568</b>	<b>\$152,400</b>	<b>\$672,493</b>	<b>\$824,893</b>

### **MARGINAL COST OF ENERGY TO MANITOBA HYDRO**

Over the period November 1, 2010 through to October 31, 2011, the value of SEP energy (using after-the-fact prices) was \$602,184. Revenue from energy sales was \$672,493 resulting in net revenues to Manitoba Hydro of \$70,309 for the year. The following table summarizes Manitoba Hydro net revenue for each time-of-use period. A more detailed analysis by week is found in Attachment 7.

SEP Energy Revenues versus Costs				
Period	SEP Energy Sales MWh	SEP Sales*	Value of SEP Energy to Manitoba Hydro	Manitoba Hydro Net Revenue
Peak	6,062	\$225,271	\$197,067	\$28,204
Shoulder	11,160	\$320,230	\$272,379	\$47,851
Off Peak	8,345	\$126,992	\$132,737	(\$5,745)
<b>Total</b>	<b>25,568</b>	<b>\$672,493</b>	<b>\$602,184</b>	<b>\$70,309</b>

\* SEP Sales do not include \$152,400 from Distribution Charges or \$17,650 from Basic Charges. The value of SEP energy to Manitoba Hydro was calculated by multiplying weekly MWh sales by the actual weekly SEP energy rate at common bus.

**YEAR-TO-DATE RESULTS**

The following is a summary of the program since its inception on December 4, 2000.

<b><u>Number of Services</u></b>	<b><u>GS Medium</u></b>	<b><u>GS Large (750 V to 30 kV)</u></b>	<b><u>Total</u></b>
December 4, 2000 to October 31, 2001	24	4	28
November 1, 2001 to October 31, 2002	27	6	33
November 1, 2002 to October 31, 2003	27	6	33
November 1, 2003 to October 31, 2004	25	6	31
November 1, 2004 to October 31, 2005	22	6	28
November 1, 2005 to October 31, 2006	22	6	28
November 1, 2006 to October 31, 2007	22	5	27
November 1, 2007 to October 31, 2008	20	5	25
November 1, 2008 to October 31, 2009	19	5	24
November 1, 2009 to October 31, 2010	19	5	24
November 1, 2010 to October 31, 2011	21	5	26

**Actual SEP Sales (MWh)**

December 4, 2000 to October 31, 2001	18,123
November 1, 2001 to October 31, 2002	28,808
November 1, 2002 to October 31, 2003	19,473
November 1, 2003 to October 31, 2004	19,328
November 1, 2004 to October 31, 2005	25,013
November 1, 2005 to October 31, 2006	22,927
November 1, 2006 to October 31, 2007	22,152
November 1, 2007 to October 31, 2008	22,347
November 1, 2008 to October 31, 2009	23,393
November 1, 2009 to October 31, 2010	19,506
November 1, 2010 to October 31, 2011	<u>25,568</u>
<b>Total</b>	<b>246,638</b>

<b><u>Revenue from SEP Sales</u></b>	<b><u>Basic Charge</u></b>	<b><u>Distribution Charge</u></b>	<b><u>Energy Charge</u></b>	<b><u>Total</u></b>
December 4, 2000 to October 31, 2001	\$15,436	\$105,948	\$880,033	\$1,001,418
November 1, 2001 to October 31, 2002	\$20,169	\$164,565	\$959,529	\$1,144,263
November 1, 2002 to October 31, 2003	\$21,330	\$111,347	\$1,061,522	\$1,194,200
November 1, 2003 to October 31, 2004	\$21,700	\$112,572	\$1,201,434	\$1,335,707
November 1, 2004 to October 31, 2005	\$20,180	\$147,530	\$1,277,816	\$1,445,526
November 1, 2005 to October 31, 2006	\$19,200	\$134,445	\$1,248,314	\$1,401,959
November 1, 2006 to October 31, 2007	\$19,178	\$128,724	\$1,414,933	\$1,562,835

<u>Revenue from SEP Sales - continued</u>	<u>Basic Charge</u>	<u>Distribution Charge</u>	<u>Energy Charge</u>	<u>Total</u>
November 1, 2007 to October 31, 2008	\$17,150	\$131,068	\$1,149,472	\$1,297,689
November 1, 2008 to October 31, 2009	\$16,790	\$139,021	\$932,076	\$1,087,887
November 1, 2009 to October 31, 2010	\$16,800	\$115,817	\$594,374	\$726,991
November 1, 2010 to October 31, 2011	\$17,650	\$152,400	\$672,493	<u>\$842,543</u>
<b>Total</b>				<b>\$13,041,017</b>

**Marginal Cost of Energy to Manitoba Hydro**

December 4, 2000 to October 31, 2001	\$891,308
November 1, 2001 to October 31, 2002	\$994,233
November 1, 2002 to October 31, 2003	\$1,056,307
November 1, 2003 to October 31, 2004	\$992,650
November 1, 2004 to October 31, 2005	\$1,241,792
November 1, 2005 to October 31, 2006	\$1,161,379
November 1, 2006 to October 31, 2007	\$1,392,736
November 1, 2007 to October 31, 2008	\$1,138,131
November 1, 2008 to October 31, 2009	\$842,510
November 1, 2009 to October 31, 2010	\$577,384
November 1, 2010 to October 31, 2011	<u>\$602,184</u>
<b>Total</b>	<b>\$10,890,614</b>

**Manitoba Hydro Net Revenue**

December 4, 2000 to October 31, 2001	(\$11,275)
November 1, 2001 to October 31, 2002	(\$34,704)
November 1, 2002 to October 31, 2003	\$5,215
November 1, 2003 to October 31, 2004	\$208,784
November 1, 2004 to October 31, 2005	\$36,024
November 1, 2005 to October 31, 2006	\$86,935
November 1, 2006 to October 31, 2007	\$22,197
November 1, 2007 to October 31, 2008	\$11,341
November 1, 2008 to October 31, 2009	\$89,565
November 1, 2009 to October 31, 2010	\$16,990
November 1, 2010 to October 31, 2011	<u>\$70,309</u>
<b>Total</b>	<b>\$501,381</b>

**Attachment 1 - SEP: Chronology of PUB Directives, MH Applications, and Reports**

<b>PUB Order</b>	<b>Date</b>	<b>PUB Board Findings &amp; MH Applications and Reports Filings</b>
	Oct 25/99	MH files application for approval of the Surplus Energy Program
90/00	Jun 30/00	PUB approves SEP application to March 31, 2004 and directs MH to file annual reports on SEP by no later than January 31 of each year.
	Jul 20/00	MH letter - in response to Board Order 90/00 MH requests variance of 12 month notice provision to range from 12 to 16 months notice.
132/00	Sep 29/00	The PUB varies BO 90/00 such that an SEP customer who chooses to convert to firm service has various notice period options.
	Oct 26/00	MH files revised Terms & Condition of SEP to be in accordance with Board Order 90/00 and 132/00. MH also advises its intent to waive requirement for a Professional Engineer Certification of back-up facilities
143/01	Sep 13/01	The PUB approves the revised Terms and Conditions as noted in MH's letter of Oct 26/00.
	Sep 21/01	MH files revised SEP Terms and Conditions as required by BO 143/01
	Nov 30/01	MH files Report #1 on SEP for period Dec 4/00 to Oct 31/01
	Mar 12/03	MH files Report #2 on SEP for period Nov 1/01 to Oct 31/02
	Mar 24/03	MH - by correspondence requests SEP be extended to Mar 31/05 on ex parte bases.
153/03	Oct 31/03	PUB approves request for extension of SEP to March 31, 2005 on an interim ex parte basis.
	Jan 29/04	As part of 2004 GRA (Appendix 9.2.2, Volume 3) MH requests SEP program be extended two more years to March 31, 2007. MH files Report #3 on SEP for period Nov 1/02 to Oct 31/03
101/04	Jul 28/04	PUB approves MH's application to extend Terms and Conditions of the SEP, as proposed and amended by MH, until March 31, 2007.
	May 17/05	MH files Report #4 on SEP for period Nov 1/03 to Oct 31/04
	Jan 23/06	MH files Report #5 on SEP for period Nov 1/04 to Oct 31/05
	Apr 20/06	MH applies to extend SEP Terms & Conditions to Mar 31/09
	Sep 7/06	PUB issues letter advising they are prepared to extend SEP to Oct 31/07. Also state their intention to review SEP in upcoming MH GRA.
	Sep 28/06	MH letter requests PUB reconsider their position and extend program, at minimum to October 31, 2008, noting customers need to plan for modifications or elimination of SEP and require minimum 12 months notice period.
173/06	Dec 21/06	PUB approves extension of SEP to the earlier of October 31, 2007 or an application to amend by MH. Advises MH to include a review of SEP in its GRA filing, due no later than August 1, 2007.

<b>PUB Order</b>	<b>Date</b>	<b>PUB Board Findings &amp; MH Applications and Reports Filings</b>
	Jan 12/07	MH files Report #6 on SEP for period Nov 1/05 to Oct 31/06
	Aug 1/07	GRA filing - MH requests immediate approval to extend SEP to October 31/08 with final approval to extend the program to March 31/13 as it is expected hearing will not take place until early 2008.
136/07	Oct 26/07	PUB approves extension of SEP to April 30, 2009 on an interim basis, unless amended or extended by a further Order of the Board.
	Feb 5/08	MH files Report #7 on SEP for period Nov 1/06 to Oct 31/07
90/08	Jun 30/08	PUB approves extension of SEP until October 31, 2008, with the application for a further extension to March 31, 2013 to be dealt with in the subsequent Order.
116/08	Jul 29/08	PUB approves extension of the SEP to October 31, 2008; on condition annual reports continue to be provided. Also raises concern with MH's marketing practices that yield extremely low prices for off-peak exports. MH directed to file a report by January 15, 2009 evaluating SEP, including monthly historical data from 2000 to 2008.
	Sep 18/08	MH files application to vary BO 116/08, requesting PUB extend the date for filing of SEP report to February 28, 2009.
150/08	Nov 7/08	PUB agrees to vary deadline date for the SEP report to February 28, 2009 and approves extension of SEP to April 30, 2009. PUB indicates final approval of SEP to March 31, 2013 will follow once receipt and review of the February 28, 2009 SEP Annual Report is complete.
	Mar 4/09	MH files Report #8 on SEP for period Nov 1/07 to Oct 31/08
57/09	Apr 28/09	PUB approves SEP to March 31, 2013
	Mar 11/10	MH files Report #9 on SEP for period Nov 1/08 to Oct 31/09
	May 11/11	MH files Report #10 on SEP for period Nov 1/09 to Oct 31/10

## Attachment 2 - PUB Approved Weekly SEP Rates

<b>PUB APPROVED WEEKLY SEP RATES ¢ / kWh</b>						
<b>Week Beginning</b>	<b>General Service Medium</b>			<b>General Service Large 750 V to 30 kV</b>		
	<b>Peak</b>	<b>Shoulder</b>	<b>Off-Peak</b>	<b>Peak</b>	<b>Shoulder</b>	<b>Off-Peak</b>
November 1, 2010	3.301	2.831	1.036	3.257	2.793	1.023
November 8, 2010	3.351	3.108	1.355	3.307	3.067	1.337
November 15, 2010	3.272	2.731	1.218	3.228	2.694	1.201
November 22, 2010	3.767	2.871	1.556	3.717	2.833	1.535
November 29, 2010	4.142	2.961	1.854	4.087	2.922	1.830
December 6, 2010	3.143	2.519	1.320	3.101	2.486	1.303
December 13, 2010	4.588	3.194	1.983	4.527	3.152	1.957
December 20, 2010	4.852	3.434	2.370	4.788	3.388	2.338
December 27, 2010	4.182	2.972	1.625	4.127	2.932	1.603
January 3, 2011	4.508	3.181	2.144	4.448	3.139	2.115
January 10, 2011	5.154	3.798	2.499	5.086	3.747	2.465
January 17, 2011	4.796	3.706	2.535	4.732	3.657	2.502
January 24, 2011	4.067	3.210	2.112	4.013	3.167	2.084
January 31, 2011	4.159	3.596	2.378	4.103	3.548	2.347
February 7, 2011	4.321	3.436	2.382	4.264	3.390	2.351
February 14, 2011	3.353	2.582	1.634	3.308	2.547	1.612
February 21, 2011	3.768	2.713	1.511	3.718	2.677	1.490
February 28, 2011	3.230	2.507	1.311	3.187	2.473	1.294
March 7, 2011	3.795	2.908	1.668	3.745	2.869	1.646
March 14, 2011	3.706	2.834	1.579	3.656	2.796	1.558
March 21, 2011	3.418	2.503	1.210	3.372	2.470	1.194
March 28, 2011	3.164	2.302	1.337	3.122	2.271	1.319
April 4, 2011	3.042	2.384	0.991	3.001	2.352	0.978
April 11, 2011	3.206	2.719	1.170	3.164	2.683	1.155
April 18, 2011	2.872	2.346	1.066	2.834	2.315	1.052
April 25, 2011	2.932	2.509	1.273	2.893	2.476	1.256
May 2, 2011	3.512	2.617	1.117	3.466	2.583	1.102
May 9, 2011	2.890	2.725	1.369	2.852	2.689	1.351
May 16, 2011	2.621	2.396	0.612	2.586	2.364	0.604
May 23, 2011	3.664	2.752	0.460	3.615	2.715	0.454
May 30, 2011	3.477	2.900	0.460	3.431	2.861	0.454
June 6, 2011	3.596	2.945	0.463	3.548	2.906	0.457
June 13, 2011	3.580	2.811	0.462	3.533	2.773	0.456

<b>PUB APPROVED WEEKLY SEP RATES ¢ / kWh</b>						
<b>Week Beginning</b>	<b>General Service Medium</b>			<b>General Service Large 750 V to 30 kV</b>		
	<b>Peak</b>	<b>Shoulder</b>	<b>Off-Peak</b>	<b>Peak</b>	<b>Shoulder</b>	<b>Off-Peak</b>
June 20, 2011	3.344	2.522	0.463	3.300	2.488	0.457
June 27, 2011	3.450	2.058	0.462	3.404	2.031	0.455
July 4, 2011	3.261	2.129	0.466	3.217	2.101	0.460
July 11, 2011	3.640	2.083	0.457	3.592	2.055	0.451
July 18, 2011	3.946	3.027	0.522	3.893	2.986	0.515
July 25, 2011	4.279	3.066	0.587	4.222	3.025	0.579
August 1, 2011	5.108	2.915	0.889	5.040	2.876	0.877
August 8, 2011	4.213	2.914	0.587	4.157	2.876	0.579
August 15, 2011	3.851	2.925	0.522	3.800	2.886	0.515
August 22, 2011	3.599	2.538	0.721	3.551	2.504	0.711
August 29, 2011	3.567	2.471	0.772	3.519	2.438	0.762
September 5, 2011	3.587	2.647	0.868	3.539	2.612	0.856
September 12, 2011	3.261	2.486	0.876	3.218	2.453	0.864
September 19, 2011	3.123	2.547	0.885	3.082	2.514	0.873
September 26, 2011	2.645	1.377	0.707	2.610	1.359	0.697
October 3, 2011	2.801	2.499	0.859	2.764	2.466	0.848
October 10, 2011	2.850	2.492	0.694	2.812	2.459	0.685
October 17, 2011	3.230	2.570	1.037	3.187	2.535	1.023
October 24, 2011	3.039	2.712	1.116	2.999	2.676	1.101
October 31, 2011	3.348	2.953	1.381	3.303	2.914	1.363
<b>Average Rate</b>	<b>3.615</b>	<b>2.753</b>	<b>1.187</b>	<b>3.567</b>	<b>2.717</b>	<b>1.172</b>
<b>Maximum Rate</b>	<b>5.154</b>	<b>3.798</b>	<b>2.535</b>	<b>5.086</b>	<b>3.747</b>	<b>2.502</b>
<b>Minimum Rate</b>	<b>2.621</b>	<b>1.377</b>	<b>0.457</b>	<b>2.586</b>	<b>1.359</b>	<b>0.451</b>
<b>Class Rev/kWh</b>	<b>3.745</b>	<b>2.887</b>	<b>1.530</b>	<b>3.516</b>	<b>2.676</b>	<b>1.355</b>



### Attachment 3 - SEP Energy Supply Source

<b>SEP Energy Supply Source (%)</b>															
<b>November 1, 2010 to October 31, 2011</b>															
Week Of		Actual							Forecast						
		Imports			Exports			Avoided Spill	Imports			Exports			Avoided Spill
		Peak	Shoulder	Off Peak	Peak	Shoulder	Off Peak		Peak	Shoulder	Off Peak	Peak	Shoulder	Off Peak	
Nov 01/10	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	78	0	22	0	0	0	0	0	0	100
	Off-Peak	0	0	0	0	0	57	43	0	0	0	0	0	0	100
Nov 08/10	Peak	0	0	0	100	0	0	0	0	0	0	75	0	0	25
	Shoulder	0	0	0	0	90	0	10	0	0	0	0	40	0	60
	Off-Peak	0	0	0	0	0	71	29	0	0	0	0	0	0	100
Nov 15/10	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	89	0	11	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	86	14
Nov 22/10	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	86	14	0	0	0	0	0	100	0
Nov 29/10	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	89	0	11	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	71	29	0	0	0	0	0	100	0
Dec 06/10	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0
Dec 13/10	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0
Dec 20/10	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0
Dec 27/10	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0
Jan 03/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0

**SEP Energy Supply Source (%)**  
**November 1, 2010 to October 31, 2011**

Week Of		Actual							Forecast								
		Imports			Exports				Avoided Spill	Imports			Exports				Avoided Spill
		Peak	Shoulder	Off Peak	Peak	Shoulder	Off Peak	Peak		Shoulder	Off Peak	Peak	Shoulder	Off Peak			
Jan 10/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0		
Jan 17/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0		
Jan 24/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0		
Jan 31/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0		
Feb 07/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0		
Feb 14/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	78	0	22	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	43	57	0	0	0	0	0	100	0		
Feb 21/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	86	14	0	0	0	0	0	100	0		
Feb 28/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0		
Mar 07/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0		
Mar 14/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	100	0	0	0	0	0	0	100	0		
Mar 21/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	86	14	0	0	0	0	0	100	0		

**SEP Energy Supply Source (%)**  
**November 1, 2010 to October 31, 2011**

Week Of		Actual							Forecast								
		Imports			Exports				Avoided Spill	Imports			Exports				Avoided Spill
		Peak	Shoulder	Off Peak	Peak	Shoulder	Off Peak	Peak		Shoulder	Off Peak	Peak	Shoulder	Off Peak			
Mar 28/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	71	29	0	0	0	0	0	100	0		
Apr 04/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	78	0	22	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	86	14	0	0	0	0	0	100	0		
Apr 11/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	89	0	11	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	43	57	0	0	0	0	0	100	0		
Apr 18/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	57	43	0	0	0	0	0	100	0		
Apr 25/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	86	14	0	0	0	0	0	100	0		
May 2/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	78	0	22	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	86	14	0	0	0	0	0	100	0		
May 09/11	Peak	0	0	0	80	0	0	20	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	67	0	33	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	57	43	0	0	0	0	0	100	0		
May 16/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	44	0	56	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	71	29	0	0	0	0	0	14	86		
May 23/11	Peak	0	0	0	25	0	0	75	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	20	0	80	0	0	0	0	60	0	40		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		
May 30/11	Peak	0	0	0	20	0	0	80	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	0	0	100	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		
Jun 06/11	Peak	0	0	0	0	0	0	100	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	0	0	100	0	0	0	0	56	0	44		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		

**SEP Energy Supply Source (%)**  
**November 1, 2010 to October 31, 2011**

Week Of		Actual							Forecast								
		Imports			Exports				Avoided Spill	Imports			Exports				Avoided Spill
		Peak	Shoulder	Off Peak	Peak	Shoulder	Off Peak	Peak		Shoulder	Off Peak	Peak	Shoulder	Off Peak			
Jun 13/11	Peak	0	0	0	20	0	0	80	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	11	0	89	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		
Jun 20/11	Peak	0	0	0	0	0	0	100	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	0	0	100	0	0	0	0	44	0	56		
	Off-Peak	0	0	0	0	0	14	86	0	0	0	0	0	0	100		
Jun 27/11	Peak	0	0	0	50	0	0	50	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	0	0	100	0	0	0	0	10	0	90		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		
Jul 04/11	Peak	0	0	0	60	0	0	40	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	33	0	67	0	0	0	0	0	0	100		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		
Jul 11/11	Peak	0	0	0	80	0	0	20	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	89	0	11	0	0	0	0	0	0	100		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		
Jul 18/11	Peak	0	0	0	40	0	0	60	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	11	0	89	0	0	0	0	44	0	56		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		
Jul 25/11	Peak	0	0	0	60	0	0	40	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	0	0	100	0	0	0	0	100	0	0		
	Off-Peak	0	0	0	0	0	29	71	0	0	0	0	0	0	100		
Aug 01/11	Peak	0	0	0	50	0	0	50	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	20	0	80	0	0	0	0	20	0	80		
	Off-Peak	0	0	0	0	0	14	86	0	0	0	0	0	0	100		
Aug 08/11	Peak	0	0	0	60	0	0	40	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	22	0	78	0	0	0	0	0	0	100		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		
Aug 15/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	44	0	56	0	0	0	0	0	0	100		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		
Aug 22/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	33	0	67	0	0	0	0	0	0	100		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		
Aug 29/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0		
	Shoulder	0	0	0	0	44	0	56	0	0	0	0	44	0	56		
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100		

**SEP Energy Supply Source (%)**  
**November 1, 2010 to October 31, 2011**

Week Of		Actual							Forecast						
		Imports			Exports			Avoided Spill	Imports			Exports			Avoided Spill
		Peak	Shoulder	Off Peak	Peak	Shoulder	Off Peak		Peak	Shoulder	Off Peak	Peak	Shoulder	Off Peak	
Sep 05/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	60	0	40	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	57	43	0	0	0	0	0	0	100
Sep 12/11	Peak	0	0	0	80	0	0	20	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	56	0	44
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100
Sep 19/11	Peak	0	0	0	80	0	0	20	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	44	0	56	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	14	86	0	0	0	0	0	0	100
Sep 26/11	Peak	0	0	0	20	0	0	80	0	0	0	80	0	0	20
	Shoulder	0	0	0	0	22	0	78	0	0	0	0	44	0	56
	Off-Peak	0	0	0	0	0	14	86	0	0	0	0	0	0	100
Oct 03/11	Peak	0	0	0	0	0	0	100	0	0	0	80	0	0	20
	Shoulder	0	0	0	0	0	0	100	0	0	0	0	89	0	11
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100
Oct 10/11	Peak	0	0	0	0	0	0	100	0	0	0	0	0	0	100
	Shoulder	0	0	0	0	0	0	100	0	0	0	0	60	0	40
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	29	71
Oct 17/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	71	29	0	0	0	0	0	14	86
Oct 24/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	86	14	0	0	0	0	0	86	14
Oct 31/11	Peak	0	0	0	100	0	0	0	0	0	0	100	0	0	0
	Shoulder	0	0	0	0	100	0	0	0	0	0	0	100	0	0
	Off-Peak	0	0	0	0	0	0	100	0	0	0	0	0	100	0
Overall Avg		0	0	0	27	22	17	34	0	0	0	32	26	18	24

**Attachment 4 - Total Energy Sales in MWh**

**SURPLUS ENERGY PROGRAM  
TOTAL ENERGY SALES IN MWH**

<b>Week Beginning</b>	<b>Peak</b>	<b>Shoulder</b>	<b>Off-Peak</b>	<b>Total</b>
November 1, 2010	122	191	153	465
November 8, 2010	108	257	165	530
November 15, 2010	182	333	229	744
November 22, 2010	200	327	251	778
November 29, 2010	198	331	245	774
December 6, 2010	232	402	288	922
December 13, 2010	219	360	272	851
December 20, 2010	192	330	252	774
December 27, 2010	128	446	277	852
January 3, 2011	166	397	279	842
January 10, 2011	194	367	276	837
January 17, 2011	232	411	318	961
January 24, 2011	216	393	294	903
January 31, 2011	198	346	276	821
February 7, 2011	220	378	310	907
February 14, 2011	194	362	287	843
February 21, 2011	170	415	303	888
February 28, 2011	219	386	313	918
March 7, 2011	196	351	288	836
March 14, 2011	180	301	253	735
March 21, 2011	179	307	262	748
March 28, 2011	149	249	213	611
April 4, 2011	142	233	209	583
April 11, 2011	150	264	221	635
April 18, 2011	108	248	206	562
April 25, 2011	83	240	179	502
May 2, 2011	101	192	161	454
May 9, 2011	106	185	156	447
May 16, 2011	76	131	106	312
May 23, 2011	65	163	114	342
May 30, 2011	84	143	111	338
June 6, 2011	71	111	85	266
June 13, 2011	56	90	57	204
June 20, 2011	56	88	56	200
June 27, 2011	35	51	32	118

**SURPLUS ENERGY PROGRAM  
TOTAL ENERGY SALES IN MWH**

<b>Week Beginning</b>	<b>Peak</b>	<b>Shoulder</b>	<b>Off-Peak</b>	<b>Total</b>
July 4, 2011	32	48	24	104
July 11, 2011	39	58	34	130
July 18, 2011	36	56	32	124
July 25, 2011	33	44	27	105
August 1, 2011	24	42	21	87
August 8, 2011	30	39	22	91
August 15, 2011	29	43	21	93
August 22, 2011	32	49	26	107
August 29, 2011	34	52	28	114
September 5, 2011	30	53	27	110
September 12, 2011	61	87	50	199
September 19, 2011	49	75	49	172
September 26, 2011	49	92	50	191
October 3, 2011	61	103	67	231
October 10, 2011	57	122	79	258
October 17, 2011	96	184	119	400
October 24, 2011	116	205	149	470
October 31, 2011	27	28	23	77
<b>Total*</b>	<b>6,062</b>	<b>11,160</b>	<b>8,345</b>	<b>25,568</b>

\* Totals may not add up due to rounding.

**Attachment 5 - Energy Charge Revenue**

**SURPLUS ENERGY PROGRAM  
ENERGY CHARGE REVENUE**

<b>Week Beginning</b>	<b>Peak</b>	<b>Shoulder</b>	<b>Off-Peak</b>	<b>Total</b>
November 1, 2010	\$4,009	\$5,386	\$1,581	\$10,976
November 8, 2010	\$3,620	\$7,982	\$2,231	\$13,833
November 15, 2010	\$5,944	\$9,091	\$2,789	\$17,824
November 22, 2010	\$7,515	\$9,378	\$3,909	\$20,802
November 29, 2010	\$8,177	\$9,798	\$4,536	\$22,512
December 6, 2010	\$7,273	\$10,128	\$3,801	\$21,203
December 13, 2010	\$10,013	\$11,484	\$5,392	\$26,889
December 20, 2010	\$9,304	\$11,310	\$5,975	\$26,589
December 27, 2010	\$5,367	\$13,265	\$4,501	\$23,133
January 3, 2011	\$7,470	\$12,633	\$5,981	\$26,084
January 10, 2011	\$10,017	\$13,922	\$6,886	\$30,824
January 17, 2011	\$11,120	\$15,214	\$8,055	\$34,390
January 24, 2011	\$8,758	\$12,602	\$6,216	\$27,576
January 31, 2011	\$8,240	\$12,446	\$6,564	\$27,250
February 7, 2011	\$9,491	\$12,974	\$7,380	\$29,845
February 14, 2011	\$6,502	\$9,333	\$4,687	\$20,522
February 21, 2011	\$6,417	\$11,259	\$4,569	\$22,245
February 28, 2011	\$7,073	\$9,662	\$4,106	\$20,841
March 7, 2011	\$7,433	\$10,213	\$4,806	\$22,452
March 14, 2011	\$6,679	\$8,539	\$3,998	\$19,216
March 21, 2011	\$6,119	\$7,685	\$3,167	\$16,970
March 28, 2011	\$4,727	\$5,728	\$2,841	\$13,297
April 4, 2011	\$4,308	\$5,549	\$2,070	\$11,927
April 11, 2011	\$4,819	\$7,164	\$2,584	\$14,567
April 18, 2011	\$3,111	\$5,827	\$2,191	\$11,129
April 25, 2011	\$2,441	\$6,009	\$2,282	\$10,731
May 2, 2011	\$3,528	\$5,024	\$1,798	\$10,350
May 9, 2011	\$3,052	\$5,035	\$2,140	\$10,228
May 16, 2011	\$1,977	\$3,136	\$646	\$5,758
May 23, 2011	\$2,374	\$4,490	\$524	\$7,388
May 30, 2011	\$2,894	\$4,138	\$512	\$7,543
June 6, 2011	\$2,548	\$3,248	\$391	\$6,187
June 13, 2011	\$2,008	\$2,534	\$264	\$4,807
June 20, 2011	\$1,862	\$2,211	\$257	\$4,331
June 27, 2011	\$1,200	\$1,044	\$148	\$2,391
July 4, 2011	\$1,042	\$1,020	\$111	\$2,174



**SURPLUS ENERGY PROGRAM  
ENERGY CHARGE REVENUE**

<b>Week Beginning</b>	<b>Peak</b>	<b>Shoulder</b>	<b>Off-Peak</b>	<b>Total</b>
July 11, 2011	\$1,422	\$1,192	\$153	\$2,766
July 18, 2011	\$1,417	\$1,698	\$166	\$3,281
July 25, 2011	\$1,399	\$1,350	\$159	\$2,909
August 1, 2011	\$1,207	\$1,224	\$183	\$2,614
August 8, 2011	\$1,268	\$1,129	\$128	\$2,525
August 15, 2011	\$1,109	\$1,248	\$112	\$2,469
August 22, 2011	\$1,141	\$1,235	\$187	\$2,563
August 29, 2011	\$1,196	\$1,290	\$216	\$2,701
September 5, 2011	\$1,056	\$1,400	\$237	\$2,693
September 12, 2011	\$1,988	\$2,164	\$436	\$4,588
September 19, 2011	\$1,522	\$1,894	\$431	\$3,847
September 26, 2011	\$1,283	\$1,266	\$353	\$2,901
October 3, 2011	\$1,709	\$2,562	\$575	\$4,845
October 10, 2011	\$1,624	\$3,026	\$545	\$5,196
October 17, 2011	\$3,103	\$4,727	\$1,236	\$9,066
October 24, 2011	\$3,505	\$5,553	\$1,666	\$10,724
October 31, 2011	\$888	\$814	\$319	\$2,022
<b>Total*</b>	<b>\$225,271</b>	<b>\$320,230</b>	<b>\$126,992</b>	<b>\$672,493</b>

\* Totals may not add up due to rounding.

## Attachment 6 - Distribution Charge Revenue

### SURPLUS ENERGY PROGRAM DISTRIBUTION CHARGE REVENUE

<b>Week Beginning</b>	<b>Peak</b>	<b>Shoulder</b>	<b>Off-Peak</b>	<b>Total</b>
November 1, 2010	\$688	\$1,109	\$927	\$2,724
November 8, 2010	\$628	\$1,530	\$1,004	\$3,162
November 15, 2010	\$1,070	\$1,996	\$1,393	\$4,459
November 22, 2010	\$1,205	\$1,979	\$1,524	\$4,707
November 29, 2010	\$1,170	\$1,988	\$1,480	\$4,638
December 6, 2010	\$1,355	\$2,411	\$1,742	\$5,508
December 13, 2010	\$1,284	\$2,153	\$1,646	\$5,083
December 20, 2010	\$1,153	\$2,000	\$1,532	\$4,685
December 27, 2010	\$787	\$2,735	\$1,686	\$5,208
January 3, 2011	\$1,016	\$2,433	\$1,697	\$5,146
January 10, 2011	\$1,190	\$2,243	\$1,678	\$5,111
January 17, 2011	\$1,421	\$2,516	\$1,934	\$5,871
January 24, 2011	\$1,298	\$2,387	\$1,793	\$5,479
January 31, 2011	\$1,201	\$2,107	\$1,681	\$4,989
February 7, 2011	\$1,343	\$2,312	\$1,886	\$5,541
February 14, 2011	\$1,189	\$2,215	\$1,751	\$5,156
February 21, 2011	\$1,044	\$2,543	\$1,838	\$5,425
February 28, 2011	\$1,341	\$2,361	\$1,908	\$5,610
March 7, 2011	\$1,195	\$2,146	\$1,756	\$5,096
March 14, 2011	\$1,103	\$1,844	\$1,548	\$4,495
March 21, 2011	\$1,097	\$1,881	\$1,601	\$4,579
March 28, 2011	\$915	\$1,524	\$1,300	\$3,739
April 4, 2011	\$868	\$1,426	\$1,279	\$3,574
April 11, 2011	\$918	\$1,610	\$1,353	\$3,882
April 18, 2011	\$662	\$1,522	\$1,254	\$3,438
April 25, 2011	\$503	\$1,453	\$1,097	\$3,054
May 2, 2011	\$597	\$1,164	\$982	\$2,743
May 9, 2011	\$636	\$1,120	\$958	\$2,713
May 16, 2011	\$431	\$776	\$644	\$1,852
May 23, 2011	\$362	\$955	\$693	\$2,011
May 30, 2011	\$458	\$833	\$676	\$1,966
June 6, 2011	\$383	\$623	\$512	\$1,518
June 13, 2011	\$291	\$494	\$344	\$1,128
June 20, 2011	\$284	\$471	\$329	\$1,083
June 27, 2011	\$163	\$256	\$181	\$600
July 4, 2011	\$137	\$230	\$129	\$496

**SURPLUS ENERGY PROGRAM  
DISTRIBUTION CHARGE REVENUE**

<b>Week Beginning</b>	<b>Peak</b>	<b>Shoulder</b>	<b>Off-Peak</b>	<b>Total</b>
July 11, 2011	\$182	\$285	\$188	\$654
July 18, 2011	\$172	\$291	\$181	\$643
July 25, 2011	\$149	\$212	\$150	\$511
August 1, 2011	\$100	\$194	\$112	\$405
August 8, 2011	\$128	\$183	\$118	\$429
August 15, 2011	\$126	\$201	\$119	\$446
August 22, 2011	\$143	\$237	\$144	\$525
August 29, 2011	\$152	\$261	\$157	\$570
September 5, 2011	\$130	\$264	\$153	\$546
September 12, 2011	\$303	\$460	\$291	\$1,054
September 19, 2011	\$245	\$383	\$284	\$912
September 26, 2011	\$236	\$492	\$295	\$1,023
October 3, 2011	\$310	\$556	\$398	\$1,265
October 10, 2011	\$304	\$690	\$470	\$1,464
October 17, 2011	\$520	\$1,062	\$721	\$2,303
October 24, 2011	\$638	\$1,194	\$905	\$2,737
October 31, 2011	\$149	\$157	\$140	\$446
<b>Total*</b>	<b>\$35,369</b>	<b>\$66,470</b>	<b>\$50,562</b>	<b>\$152,400</b>

\* Totals may not add up due to rounding.

## Attachment 7 - SEP Energy Revenues vs. Costs

### SURPLUS ENERGY PROGRAM SEP ENERGY REVENUES VS COSTS

<b>Week Beginning</b>	<b>SEP Energy Sales (MWH)</b>	<b>SEP Sales*</b>	<b>Value of SEP Energy to MH</b>	<b>Total</b>
November 1, 2010	465	\$10,976	\$8,683	\$2,293
November 8, 2010	530	\$13,833	\$10,460	\$3,373
November 15, 2010	744	\$17,824	\$17,700	\$125
November 22, 2010	778	\$20,802	\$17,289	\$3,513
November 29, 2010	774	\$22,512	\$19,443	\$3,069
December 6, 2010	922	\$21,203	\$29,405	(\$8,202)
December 13, 2010	851	\$26,889	\$30,787	(\$3,899)
December 20, 2010	774	\$26,589	\$20,777	\$5,812
December 27, 2010	852	\$23,133	\$17,050	\$6,082
January 3, 2011	842	\$26,084	\$25,317	\$767
January 10, 2011	837	\$30,824	\$26,571	\$4,253
January 17, 2011	961	\$34,390	\$30,586	\$3,804
January 24, 2011	903	\$27,576	\$25,897	\$1,679
January 31, 2011	821	\$27,250	\$20,506	\$6,744
February 7, 2011	907	\$29,845	\$24,035	\$5,811
February 14, 2011	843	\$20,522	\$14,963	\$5,559
February 21, 2011	888	\$22,245	\$23,660	(\$1,415)
February 28, 2011	918	\$20,841	\$23,874	(\$3,032)
March 7, 2011	836	\$22,452	\$20,373	\$2,079
March 14, 2011	735	\$19,216	\$13,854	\$5,363
March 21, 2011	748	\$16,970	\$17,088	(\$118)
March 28, 2011	611	\$13,297	\$14,533	(\$1,236)
April 4, 2011	583	\$11,927	\$11,785	\$141
April 11, 2011	635	\$14,567	\$12,988	\$1,579
April 18, 2011	562	\$11,129	\$13,575	(\$2,446)
April 25, 2011	502	\$10,731	\$9,588	\$1,144
May 2, 2011	454	\$10,350	\$9,181	\$1,169
May 9, 2011	447	\$10,228	\$7,732	\$2,495
May 16, 2011	312	\$5,758	\$5,586	\$172
May 23, 2011	342	\$7,388	\$4,051	\$3,337
May 30, 2011	338	\$7,543	\$2,890	\$4,653
June 6, 2011	266	\$6,187	\$2,730	\$3,458
June 13, 2011	204	\$4,807	\$2,367	\$2,440
June 20, 2011	200	\$4,331	\$1,891	\$2,439

**SURPLUS ENERGY PROGRAM  
SEP ENERGY REVENUES VS COSTS**

<b>Week Beginning</b>	<b>SEP Energy Sales (MWH)</b>	<b>SEP Sales*</b>	<b>Value of SEP Energy to MH</b>	<b>Total</b>
June 27, 2011	118	\$2,391	\$1,482	\$908
July 4, 2011	104	\$2,174	\$2,999	(\$825)
July 11, 2011	130	\$2,766	\$3,230	(\$464)
July 18, 2011	124	\$3,281	\$4,011	(\$731)
July 25, 2011	105	\$2,909	\$3,256	(\$347)
August 1, 2011	87	\$2,614	\$2,845	(\$231)
August 8, 2011	91	\$2,525	\$2,100	\$425
August 15, 2011	93	\$2,469	\$2,368	\$101
August 22, 2011	107	\$2,563	\$2,866	(\$303)
August 29, 2011	114	\$2,701	\$2,706	(\$5)
September 5, 2011	110	\$2,693	\$2,786	(\$93)
September 12, 2011	199	\$4,588	\$3,834	\$755
September 19, 2011	172	\$3,847	\$2,244	\$1,603
September 26, 2011	191	\$2,901	\$2,056	\$845
October 3, 2011	231	\$4,845	\$2,179	\$2,666
October 10, 2011	258	\$5,196	\$1,460	\$3,736
October 17, 2011	400	\$9,066	\$8,952	\$113
October 24, 2011	470	\$10,724	\$11,979	(\$1,255)
October 31, 2011	77	\$2,022	\$1,618	\$404
<b>Total**</b>	<b>25,568</b>	<b>\$672,493</b>	<b>\$602,184</b>	<b>\$70,309</b>

\* Sales figures are based on the revenue received from the Energy Charge only. They do not include revenues from Distribution and Basic Charges.

\*\* Totals may not add up due to rounding.