



Regulated Price Plan

Price Report

May 1, 2011

to

April 30, 2012

Ontario Energy Board

April 19, 2011

EXECUTIVE SUMMARY

This report contains the electricity commodity prices under the Regulated Price Plan (RPP) for the period May 1, 2011 through April 30, 2012. The prices were developed using the methodology described in the Regulated Price Plan Manual (RPP Manual).

In accordance with legislation, the prices paid for electricity by RPP consumers must be based on a forecast of the cost of supplying them and must be set to recover this cost. RPP prices are reviewed by the Board every six months to determine if they need to be adjusted.

In broad terms, the methodology used to develop RPP prices has two essential steps:

1. Forecasting the total RPP supply cost for 12 months, and
2. Establishing prices to recover the forecast RPP supply cost from RPP consumers over the 12-month period.

The calculation of the total RPP electricity supply cost involves several separate forecasts, including forecasts of:

- o the hourly market price of electricity;
- o the electricity consumption pattern of RPP consumers;
- o the electricity supplied by those assets of Ontario Power Generation (OPG) whose price is regulated;
- o the costs related to the contracts signed by non-utility generators (NUGs) with the former Ontario Hydro and the costs associated with certain OPG coal facilities¹;
- o the costs of the supply contracts, and conservation and demand management (CDM) initiatives of the Ontario Power Authority (OPA); and
- o the net variance account balance (as of April 30, 2011) carried by the OPA.

The market-based price for electricity used by RPP consumers reflects both the hourly market price of electricity and the electricity consumption pattern of RPP consumers. Residential consumers, who represent most RPP consumption, use relatively more of their electricity during times when total Ontario demand and prices are higher (than the overall Ontario average) and relatively less when total Ontario demand and prices are lower (than the overall Ontario average). This consumption pattern makes the average market price for RPP consumers higher than the average market price for the entire Ontario electricity market.

¹ In addition to the contracts with the NUGs, OEFC is also the counterparty to a contingency support agreement with OPG in relation to two of its generation facilities identified in O. Reg. 427/04 (Payments to the Financial Corporation re Section 78.2 of the Act). Payments made to OPG under this agreement are related to the cost recovery mechanism associated with the carbon dioxide (CO₂) limits that went into effect January 1, 2009.

Average RPP Supply Cost

The hourly market price forecast was developed by Navigant Consulting, Ltd. (Navigant). The forecast of the simple average market price for 12 months from May 1, 2011 is \$40.15 / MWh (4.015 cents per kWh). After accounting for the consumption pattern of RPP consumers, the average market price for electricity used by RPP consumers is forecast to be \$43.41 / MWh (4.341 cents per kWh).

The combined effect of the other components of the RPP supply cost is expected to increase this per kilowatt-hour price. The collective impact of the other components is summarized by the Global Adjustment. Starting with this RPP price period, the share of Global Adjustment costs paid by RPP consumers changes because of a regulation that modified the cost allocation methodology. The Global Adjustment reflects the impact of the NUG contract costs, which are above market prices, the regulated prices for OPG's prescribed baseload nuclear and hydroelectric generating facilities, which may be above or below market prices, and the cost of supply contracts held by the Ontario Power Authority (OPA), most of which are above market prices. The cost associated with CDM initiatives implemented by the OPA is also included. The Global Adjustment also reflects payments made to OPG's Nanticoke and Lambton facilities, under an agreement with the Ontario Electricity Financial Corporation (OEFC), related to the cost recovery mechanism associated with the CO₂ limits that went into effect January 1, 2009. The forecast net impact of the Global Adjustment is to increase the average RPP supply cost by \$28.22 / MWh (2.822 cents per kWh).

Another factor to be taken into account is that actual prices and actual demand cannot be predicted with absolute certainty; both price and demand are subject to random effects. Two adjustments are made to account for this forecast variance. A small adjustment is made to the RPP supply cost to account for the fact that these random effects are more likely to increase than to decrease costs. This adjustment was determined to be \$1.00 / MWh (0.100 cents per kWh). Without this adjustment, the RPP would be expected to end the year with a small debit variance.

An additional adjustment factor is required so that the expected balance in the OPA variance account can be cleared by April 30, 2012. The current outstanding balance was accumulated because of lower than forecast RPP revenues and higher than forecast supply costs since November 1, 2010. The forecast adjustment factor to clear the existing variance balance is a charge (increase in the RPP price) of \$0.35 / MWh (0.035 cents per kWh).

The resulting average RPP supply cost, or the RPA, is \$72.98 / MWh (7.298 cents per kWh). This is summarized in Table ES-1.

Table ES-1: Average RPP Supply Cost Summary (for the 12 months from May 1, 2011)

RPP Supply Cost Summary		
for the period from May 1, 2011 through April 30, 2012		
Forecast Wholesale Electricity Price		\$40.15
Load-Weighted Price for RPP Consumers (\$ / MWh)		\$43.41
Impact of the Global Adjustment (\$ / MWh)	+	\$28.22
Total Contract Cost		\$71.27
Market Value		(\$43.05)
Adjustment to Address Bias Towards Unfavourable Variance (\$ / MWh)	+	\$1.00
Adjustment to Clear Existing Variance (\$ / MWh)	+	\$0.35
Average Supply Cost for RPP Consumers (\$ / MWh)	=	\$72.98

Inevitably, there will be a difference between the actual and forecast cost of supplying electricity to all RPP consumers. This difference is referred to as the unexpected variance and will be included in the RPP supply cost for the next RPP period.

RPP consumers are not charged the average RPP supply cost. Rather, they pay prices under price structures that are designed to make their consumption weighted average price equal to the average supply cost. There are two RPP price structures, one for consumers with conventional meters (Tier Pricing) and one for consumers with eligible time-of-use (or “smart”) meters who pay time-of-use (TOU) prices.

Smart Meter Regulated Price Plan - TOU Pricing

Consumers with “smart” meters that can determine when electricity is consumed during the day will pay under a time-of-use price structure. This currently applies only to consumers of those utilities that have implemented time-of-use prices. The prices for this plan are based on three time-of-use periods per weekday². These periods are referred to as Off-Peak (with a price of $RPEM_{OFF}$), Mid-Peak ($RPEM_{MID}$) and On-Peak ($RPEM_{ON}$). The lowest (Off-Peak) price is below the RPA, while the other two are above it.

The resulting **time-of-use (TOU) prices** for consumers with eligible time-of-use meters are:

- o $RPEM_{OFF}$ = 5.9 cents per kWh,
- o $RPEM_{MID}$ = 8.9 cents per kWh, and
- o $RPEM_{ON}$ = 10.7 cents per kWh.

These prices reflect the change in the TOU schedule which will take effect on May 1, 2011. Under the new schedule, the off-peak period will start at 7 pm every weekday, rather than 9 pm.³

² Weekends and statutory holidays have one TOU period: Off-peak.

³ O. Reg. 95/05 was amended on January 1, 2011 to stipulate that off-peak pricing begin no later than 7pm on weekdays.

Regulated Price Plan - Tiered Pricing

RPP consumers that are not on TOU pricing pay prices in two tiers; one price (referred to as RPCMT₁) for monthly consumption under a tier threshold and a higher price (referred to as RPCMT₂) for consumption over the threshold. The threshold for residential consumers changes twice a year on a seasonal basis: to 600 kWh per month during the summer season (May 1 to October 31) and to 1000 kWh per month during the winter season (November 1 to April 30). The threshold for non-residential RPP consumers remains constant at 750 kWh per month for the entire year.

The resulting **tier prices** for consumers with conventional meters are:

- o RPCMT₁ = 6.8 cents per kWh, and.
- o RPCMT₂ = 7.9 cents per kWh.

Based on consumption over the 12 month period ending February 28, 2011, approximately 58% of RPP tier consumption was at the lower tier price (RPCMT₁) and 42% was at the higher tier price (RPCMT₂). This ratio is expected to remain the same in the upcoming RPP period. Given these proportions, the average price for conventional meter RPP consumption is forecast to be equal to the RPA.

The average price a consumer on TOU prices will pay depends on the consumer's load profile (i.e., how much electricity is used at what time). As discussed above, RPP prices are set so that a consumer with an *average* load profile will pay the same average price under either the tiered or TOU prices, as shown in Table ES-2.⁴ This average price is equal to the average RPP supply cost (the RPA) of 7.3¢ / kWh.

Table ES-2: Price Paid by Average RPP Consumer under Tiered and TOU RPP prices

Tiered RPP Prices		Tier 1		Tier 2	Average Price
Price		6.8¢		7.9¢	7.3¢
% of Consumption		58%		42%	
Time-of-Use RPP Prices		Off-Peak	Mid-Peak	On-Peak	Average Price
Price		5.9¢	8.9¢	10.7¢	7.3¢
% of Consumption		64%	18%	18%	

⁴ The percentages of total consumption by TOU period in Table ES-2 are based on consumption data for consumers on TOU pricing provided by the IESO. Data from the December 2010 through February 2011 period is used, taking into account the change in the TOU schedule.

Major Factors Causing the Change in RPP Prices

The RPP average supply cost increases by \$4.60/MWh in the current forecast compared to the previous forecast. Three factors account for this increase:

- Higher load-weighted market price and Global Adjustment: 28% of the increase;
- Change in the Global Adjustment allocation methodology: 39% of the increase; and,
- Change in the variance account balance clearance: 33% of the increase.

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1. INTRODUCTION

Under amendments to the *Ontario Energy Board Act, 1998* (the Act) the Ontario Energy Board (OEB or the Board) is mandated to establish a regulated price plan (RPP) for electricity commodity prices to be charged to consumers that are designated by legislation and that have not opted to switch to a retailer or the hourly spot market price. The first prices were implemented under the RPP effective on April 1, 2005, as set out in regulation by the Ontario Government. This report and the prices contained herein come into effect on May 1, 2011 and are intended to remain in effect until April 30, 2012 barring any required true-up or rebasing.⁵ The Board will review the prices in six months to determine if a change is needed.

The Board has prepared a Regulated Price Plan Manual (RPP Manual) to explain how the RPP price is set. In addition, the Board relies on a forecast of wholesale electricity market prices, prepared by Navigant Consulting Ltd., as a basic input into the forecast of RPP supply costs as per the RPP Manual methodology.

This Report describes how the Board has used the RPP Manual's processes and methodologies to arrive at the RPP prices effective May 1, 2011.

This Report consists of four chapters as follows:

- o Chapter 1. Introduction
- o Chapter 2. Calculating the RPP Supply Cost
- o Chapter 3. Calculating RPP Prices
- o Chapter 4. Expected Variance

1.1 Associated Documents

Two documents are closely associated with this Report:

- o The *Regulated Price Plan Manual* (RPP Manual) describes in detail the methodology followed in producing the results contained in this Report; and
- o The *Ontario Wholesale Electricity Market Price Forecast For the Period May 1, 2011 through October 31, 2012* (Market Price Forecast Report),⁶ prepared by Navigant, contains the Ontario wholesale electricity market price forecast and explains the material assumptions which lie behind the hourly price forecast. Those assumptions are not repeated in this Report.

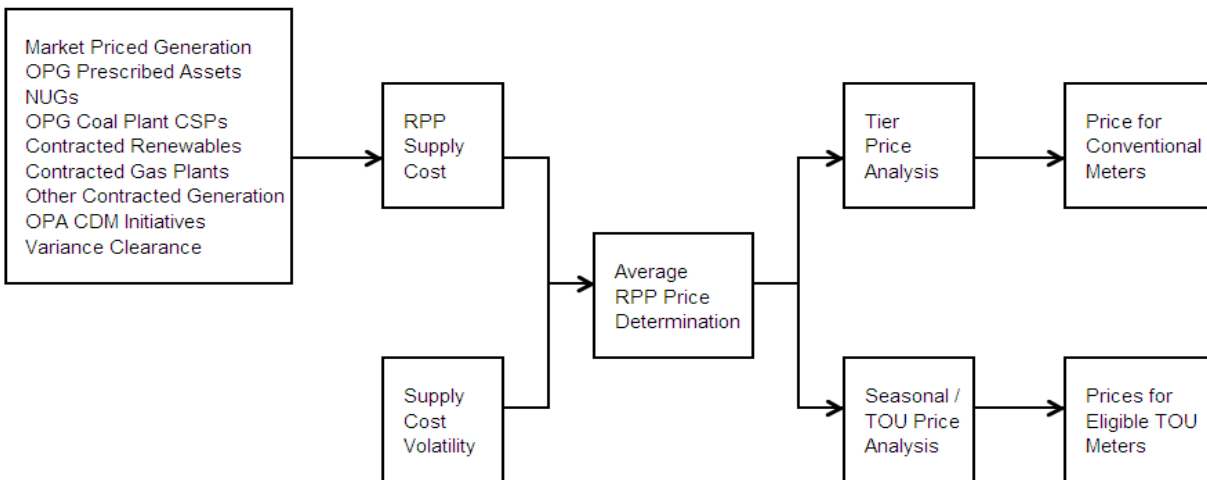
⁵ In accordance with the RPP Manual, price resetting is considered for implementation every six months. If there is a price resetting following a Board review, it will determine how much of a price change will be needed to recover the forecast RPP supply cost *plus or minus* the accumulated variance in the OPA variance account over the next 12 months. In addition to the scheduled six month review, the RPP Manual allows for an automatic "trigger" based adjustment if the unexpected variance exceeds \$160 million within a quarter.

⁶ The Market Price Forecast Report is posted on the OEB web site, along with the RPP Price Report, on the RPP web page.

1.2 Process for RPP Price Determinations

Figure 1 below illustrates the process for setting RPP prices. The RPP supply cost and the accumulated variance account balance (carried by the Ontario Power Authority or OPA) both contribute to the base RPP price, which is set to recover the full costs of electricity supply. The diagram below illustrates the processes to be followed to set the RPP price for both consumers with conventional meters and those with eligible time-of-use meters (or “smart” meters).

Figure 1: Process Flow for Determining the RPP Price



Source: RPP Manual

This Report is organized according to this basic process.

2. CALCULATING THE RPP SUPPLY COST

The RPP supply cost calculation formula is set out in Equation 1 below. To calculate the RPP supply cost requires forecast data for each of the terms in Equation 1. Most of the terms depend on more than one underlying data source or assumption. This chapter details the data or assumption source for each of the terms and describes how the data were used to calculate the RPP supply cost. More detail on this methodology is in the RPP Manual.

It is important to remember that all of the terms in Equation 1 are forecasts. In some cases, the calculation uses actual historical values, but in these cases the historical values constitute the best available forecast.

2.1 Defining the RPP Supply Cost

Equation 1 below defines the RPP supply cost. The elements of Equation 1 are set out by the legislation and regulations. This equation is further explained in the RPP Manual.

Equation 1

$$C_{RPP} = M + \alpha [(A - B) + (C - D) + (E - F) + G] + H, \text{ where}$$

- o C_{RPP} is the total RPP supply cost;
- o M is the amount that the RPP supply would have cost under the Market Rules;
- o α is the RPP share of the Global Adjustment;⁷
- o A is the amount paid to prescribed (or regulated) generators;⁸
- o B is the amount those generators would have received under the Market Rules;
- o C is the amount paid to OEFC with respect to its payments under contracts with non-utility generators (NUGs) and the amount to be paid to OPG in relation to two of its coal facilities under an agreement with OEFC;
- o D is the amount those NUGs would have received under the Market Rules for supplying both electricity and ancillary services;
- o E is the amount paid to generators contracted to the OPA that are paid according to their output (i.e., renewable generators);
- o F the amount those generators would have received under the Market Rules;

⁷ The expression in square brackets is the Global Adjustment; it is applied to the RPP according to the allocation of the Global Adjustment between Class A and Class B consumers, and RPP consumers' share of Class B consumption.

⁸ The Board sets payment amounts for energy produced from Ontario Power Generation's nuclear and large baseload hydro-electric generating stations. The Board's most recent proceeding for setting these payments (EB-2010-0008) was completed in March 2011.

- o G is the amount paid by the OPA for its other procurement contracts, which includes payments to conventional generators (i.e., natural gas), and for demand response or conservation and demand management (CDM); and,
- o H is the amount associated with the variance account held by the OPA. This includes any existing variance account balance needed to be recovered (or disbursed) in addition to any interest incurred (or earned).

The forecast per unit RPP supply cost will be the total RPP supply cost (C_{RPP}) divided by the total forecast RPP demand. RPP prices will be based on that forecast per unit cost.

2.2 Computation of the RPP Supply Cost

Broadly speaking, the steps involved in forecasting the RPP supply cost are:

1. Forecast wholesale market prices;
2. Forecast the load shape for RPP consumers;
3. Forecast the quantities in Equation 1; and
4. Forecast RPP Supply Cost = Total of Equation 1.

In addition to the four steps listed above, the calculation of the total RPP supply cost requires a forecast of the stochastic adjustment, which is not included in Equation 1. The stochastic adjustment is included in the RPP Manual as an additional cost factor calculated outside of Equation 1. Since the RPP prices are always announced by the Board in advance of the actual price adjustment being implemented, it is also necessary to forecast the net variance account balance at the end of the current RPP period (April 30, 2012).⁹ This amount is included in Equation 1 ("H").

The following sections will describe each term or group of terms in Equation 1, the data used for forecasting them, and the computational methodology to produce each component of the RPP supply cost.

2.2.1 Forecast Cost of Supply Under Market Rules

This section covers the first term of Equation 1:

$$C_{RPP} = \bar{M} + \alpha [(A - B) + (C - D) + (E - F) + G] + H.$$

The forecast cost of supply to RPP consumers under the Market Rules depends on two forecasts:

- o The forecast of the simple average hourly Ontario electricity price (HOEP) in the IESO-administered market over all hours in each month of the year; and

⁹ RPP prices are announced in advance by the Board to provide notification to consumers of the upcoming price change and to provide distributors with the necessary amount of time to incorporate the new RPP prices into their billing systems.

- o The forecast of the ratio of the load-weighted average market price paid by RPP consumers in each month to the simple average HOEP in that month.

The forecast of HOEP is taken directly from the Market Price Forecast Report. That report also contains a detailed explanation of the assumptions that underpin the forecast such as generator fuel prices (e.g., coal and natural gas). Table 1 below shows forecast seasonal on-peak, off-peak, and average prices. The prices provided in Table 1 are simple averages over all of the hours in the specified period (i.e., they are not load-weighted). These on-peak and off-peak periods differ from and should not be confused with the TOU periods associated with the RPP TOU prices discussed later in this report.

Table 1: Ontario Electricity Market Price Forecast (\$ per MWh)

Term	Quarter	Calendar Period	On-Peak	Off-Peak	Average	Term Average
RPP Year	Q1	May 11 - Jul 11	\$43.92	\$27.13	\$34.89	
	Q2	Aug 11 - Oct 11	\$48.39	\$32.36	\$39.64	
	Q3	Nov 11 - Jan 12	\$55.66	\$38.70	\$46.43	
	Q4	Feb 12 - Apr 12	\$47.06	\$33.31	\$39.63	\$40.15
Other	Q1	May 12 - Jul 12	\$43.91	\$26.42	\$34.51	
	Q2	Aug 12 - Oct 12	\$46.40	\$29.85	\$37.37	\$35.94

Source: Navigant Consulting, *Wholesale Electricity Market Price Forecast Report*

Note: On-peak hours include the hours ending at 8 a.m. through 11 p.m. Eastern Standard Time (EST) on working weekdays and off-peak hours include all other hours. The definition of “on-peak” and “off-peak” hours for this purpose bears no relation to the “on-peak”, “mid-peak” and “off-peak” periods used for time-of-use pricing.

The forecasts of the monthly ratios of load-weighted vs. simple average HOEP are based on actual prices between April 2005 and April 2011. The on-peak:off-peak ratio is based on data through February 2011.

As shown in Table 1, the forecast simple average HOEP for the period May 1, 2011 to April 30, 2012, is \$40.15 / MWh (4.015 cents per kWh). The forecast of the load weighted average price for RPP consumers (“M” in Equation 1) is \$43.41 / MWh (4.341 cents per kWh), or \$2.4 billion in total, the result of RPP consumers having load patterns that are more peak oriented than the overall system.

2.2.2 RPP Share of the Global Adjustment

Alpha (“ α ”) in Equation 1 represents the share of the Global Adjustment paid (or credited to) RPP consumers. The Global Adjustment is allocated between Class A and Class B consumers based on their share of consumption at the time of peak system demand. The Class B share is then allocated among Class B consumers based on each consumer’s energy consumption. The first step in determining alpha is therefore to estimate Class A’s share of the Global Adjustment. Based on the formula in Regulation 398/10, this share has been set at 10.9% by the IESO for the January to June 2011 period; it is assumed to remain at that level for the July 2011 to June 2012

period.¹⁰ Class B's share is 89.1%. The second step is to estimate RPP consumers' share of Class B consumption. Since the RPP was introduced, some consumers have chosen to leave the RPP program to sign competitive retail supply contracts. Some RPP consumers with interval meters have also chosen to purchase power in the spot market instead of under the RPP. Some consumers have also returned to the RPP from retail contracts. The expected impact of this migration away from the RPP (or attrition) has been reflected in the forecast volume of RPP consumers for the period under consideration, but is not expected to have a pronounced impact on the load shape of RPP consumers for this period. RPP migration to competitive retail supply or the spot market price is a potential risk factor in determining the RPP supply cost and will continue to be tracked closely.

The Class A/Class B split did not exist before January 2011. Data on RPP consumption as a share of total Class B consumption is available only for January and February 2011. However, based on historical data on RPP consumption as a share of total Ontario consumption it is forecast that RPP consumption will represent about 56 TWh or 47.7% of total Class B consumption. The RPP share varies from month to month, ranging between 45.6% and 48.5%. The value of α therefore ranges between 0.406 and 0.432. Over the entire RPP period, RPP consumers are forecast to be responsible for 42.1% of the Global Adjustment.

2.2.3 Cost Adjustment Term for Prescribed Generators

This section covers the second term of Equation 1:

$$C_{RPP} = M + \alpha [(A - B) + (C - D) + (E - F) + G] + H$$

The prescribed generators are comprised of the nuclear and baseload hydroelectric facilities of Ontario Power Generation (OPG). The amounts paid to OPG's prescribed generation since March 2011 have been \$55.85/MWh for nuclear generation and \$34.13 /MWh for hydraulic generation. The nuclear payment amount includes a base rate of \$51.51 / MWh, plus a rider of \$4.33 / MWh. The hydraulic base rate is \$35.78, minus a rider of \$1.65. Quantity A was therefore forecast by multiplying these fixed payment amounts per MWh, for the prescribed generation facilities, times their total forecast output per month in MWh.

Quantity B was forecast by estimating the market values of each MWh of nuclear and prescribed hydraulic generation, and multiplying those market values by the volume of nuclear and prescribed hydraulic generation.¹¹ The value of A is \$3.5 billion, and the value of B is \$2.8 billion.

¹⁰ The percentage of Class A Global Adjustment costs was based on Class A load during peak demand hours in the May 1 to October 30, 2010 period. Peak hours for that period occurred in July, August and September. A revised Class A peak demand factor will be effective for the July 1, 2011 to June 30, 2012 period but will be based on peak load percentages in the May 1, 2010 to April 30, 2011 period. It is likely that the peak hours in this period will be the same as for the current Class A peak demand factor.

¹¹ The forecast of the dollar amount that the prescribed generators would receive under the Market Rules (quantity B in Equation 1) was calculated as their forecast monthly generation multiplied by their forecast average market revenue in each month. Forecasts of both of these variables were taken from Navigant's statistical model. For details of the statistical model and the wholesale market price forecast, see the Market Price Forecast Report.

2.2.4 Cost Adjustment Term for Non-Utility Generators (NUGs)

This section describes the calculation of the third term of Equation 1:

$$C_{RPP} = M + \alpha [(A - B) + (C - D) + (E - F) + G] + H$$

The OPA has published monthly aggregate payments to the NUGs between September 2007 and February 2011. Although the details of these payments (amounts by recipient, volumes, etc.) are not public, the published information has been used as the basis for forecasting payments in future months. This has been supplemented by information provided by the OEFC. This forecast was used to compute an estimate of the total payments to the NUGs under their contracts, or amount C in Equation 1.

Since the beginning of 2009, the OEFC component of the Global Adjustment, as published by the OPA, has included an additional component: contingency support payments (CSPs) made in relation to certain OPG coal generation facilities. These payments are explained as follows by OPG in its 2009 *Second Quarter Results* report: *“a contingency support agreement [was] established with the Ontario Electricity Financial Corporation (“OEFC”) to provide for the continued reliability and availability of OPG’s Lambton and Nanticoke generating stations. The agreement was put in place in accordance with the Shareholder Resolution that an appropriate recovery mechanism be established to enable OPG to recover the costs of its coal-fired generating stations following implementation of OPG’s carbon dioxide (“CO2”) emissions reduction strategy.”*¹² Based on the agreement,¹³ OPG receives payments through OEFC which make up the difference between OPG’s actual costs and its gross revenues for these two plants. The plants’ market revenues have been very low in recent months, because of a combination of low market demand and low market prices. As a result, according to OPG’s financial reports, these payments were \$258 million in the twelve months ending December, 2010¹⁴. For the purpose of setting the RPP prices for this period, these payments have been forecast based on the following:

- Monthly forecasts of coal generation, based on the historical relationship between market prices and the volume of coal generation (i.e., when market prices are low, coal plants generate less);
- Monthly forecasts of the average hourly market price received by coal generation, based on historical relationships; and,

¹² See page 8 of OPG’s 2009 *Second Quarter Results* report at the following: www.opg.com/investor/pdf/2009_Q2_FullRpt.pdf.

¹³ The body of the agreement (excluding the schedules) is available at: www.opg.com/pdf/OEFC%20Agreement%202009.pdf. According to the agreement, Gross Revenues and Actual Costs are comprised of: (1) *Actual costs* include OM&A, fuel costs (including emission credit/allowances), depreciation, insurance, capital/property taxes, direct corporate support costs, interest on inventory (including fuel), IESO market charges (i.e., uplifts), and biomass costs; (2) *Gross revenues* include all net market revenues (all energy related market revenues, CMSC credits, ancillary service revenues), revenues from emission credits, generation cost guarantee payments, and other non-electricity revenues (i.e., by-products and dock rentals).

¹⁴ Ontario Power Generation Quarterly Financial Results, http://www.opg.com/investor/fin_reports/index.asp

- Estimates of the monthly revenue requirement and unit variable costs, based on historical data on hourly coal generation and hourly market prices, and the actual payments received by OPG in 2009 and 2010.

The amount that the NUGs would receive under the Market Rules, quantity D in Equation 1, is their hourly production times the hourly Ontario energy price. These quantities were forecast on a monthly basis, as an aggregate for the NUGs as a whole.

The value of “C” in Equation 1 (i.e., the contract cost of both the NUGs and the coal plants) is estimated to be \$1.7 billion, and the value of “D” (i.e., the market value of the NUG and coal output) is estimated to be \$0.9 billion.

2.2.5 Cost Adjustment Term for Renewable Generation Under Output-Based Contracts with the OPA

This section describes the calculation of the fourth term of Equation 1:

$$C_{RPP} = M + \alpha [(A - B) + (C - D) + (E - F) + G] + H$$

Quantities E and F in the above formula refer to generators paid by the OPA under contracts related to output. Generators in this category are renewable generators under the following contracts:

- o Renewable Energy Supply (RES) Request for Proposals (RFP) Phases I, II and III;
- o the Renewable Energy Standard Offer Program (RESOP);
- o the Feed-In Tariff (FIT) Program;
- o the Hydroelectric Energy Supply Agreements (HESA) directive, covering new hydro; and,
- o the Hydro Contract Initiative (HCI), covering existing hydro plants.

Quantity E in Equation 1 is the forecast quantity of electricity supplied by these renewable generators times the fixed prices they are paid under contracts with the OPA. The statistical model includes estimates of the fixed prices. In some cases, this is simply the announced contract price (e.g., \$420/MWh for solar generation under RESOP). In others, the contract price needs to be adjusted in each year either partially or fully in proportion to inflation. In still others, detailed information on contract prices is not available, and they have been estimated based on publicly-available information (for example, the Ontario Government announced that the weighted average price for Renewable RFP I projects was \$79.97 / MWh, but did not announce prices for individual contracts).¹⁵

The size and generation type of the successful renewable energy projects to date have been announced by the Government and the OPA. The statistical model produced forecasts of additional renewable capacity coming into service during the RPP Period, and the monthly

¹⁵ For information related to the FIT Price Schedule, see the OPA’s dedicated web page at: www.fit.powerauthority.on.ca/Page.asp?PageID=924&ContentID=10543

output of both existing and new plants, using either historical values of actual outputs (where available), or estimates based on the plants' capacities and estimated capacity factors. The statistical model also forecasts average market revenues for each plant or type of plant. Quantity F in Equation 1 is therefore the forecast output of the renewable generation multiplied by the forecast average market revenue (based on market prices in the Wholesale Market Price Forecast Report) at the time that output is generated.

The value of "E" in Equation 1 (i.e., the contract cost of renewable generation) is estimated to be \$1.2 billion, and the value of "F" (i.e., the market cost of renewable generation) is estimated to be \$0.4 billion.

2.2.6 Cost Adjustment Term for Other Contracts with the OPA

This section describes the calculation of the fifth term of Equation 1:

$$C_{RPP} = M + \alpha [(A - B) + (C - D) + (E - F) + G] + H$$

The costs for three types of resources under contract with the OPA are included in G:

1. conventional generation (e.g., natural gas) whose payment relates to the generator's capacity costs;
2. demand side management or demand response contracts; and
3. Bruce Power, which has an output-based contract for generation from its Bruce A nuclear facility, and a price guarantee contract (i.e., floor price) for its Bruce B facility.

The contribution of conventional generation under contract to the OPA to quantity G relates to several contracts:

- o The Clean Energy Supply (CES) RFP, which includes conventional generation contracts as well as a 10-MW demand response contract awarded to Loblaw's;¹⁶
- o The "early mover" contracts;¹⁷
- o Seven contracts awarded through the Combined Heat and Power (CHP) Phase I RFP¹⁸; and,

¹⁶ Seven facilities holding CES contracts are expected to be operational during this RPP period: the GTAA Cogeneration Facility, the Loblaw's Demand Response Program, the Greenfield Energy Centre, the Portlands Energy Centre, the Goreway Station Project, the St. Clair Energy Centre and Halton Hills Generating Station. The OPA entered into contracts with these facilities pursuant to the Ministry of Energy's directive of March 24, 2005.

¹⁷ On December 14, 2005, the Minister of Energy directed the OPA to negotiate contracts with plants that had entered service since 1998 without a contract. Five facilities signed early mover contracts with the OPA: the Brighton Beach facility, TransAlta's Sarnia facility, and three Toromont facilities. On December 24, 2008, the OPA was directed to negotiate new contracts which are to expire no later than December 26, 2026. For forecasting purposes, it is assumed that the contribution to the Global Adjustment of these new contracts will be similar to what it would have been under the old contracts

- o Five large gas-fired plants (Portlands, Goreway, Greenfield St. Clair and Halton Hills). The first of these, the Portlands Energy Centre, began operation as a simple-cycle plant in June 2008 and has been converted into a combined-cycle plant. Greenfield began commercial operation in October 2008, St. Clair in March 2009, and Goreway in June 2009. The Halton Hills Generating Station began operating in the third quarter of 2010.

The costs of these contracts, for the purpose of calculating the RPP supply cost, are based on an estimate of the contingent support payments to be paid under the contract guidelines. The contingent support payment is the difference between the net revenue requirement (NRR) stipulated in the contracts and the “deemed” energy market revenues. The deemed energy market revenues were estimated based on the deemed dispatch logic as stipulated in the contract and the Wholesale Market Price Forecast Report that underpins this RPP price setting activity. The NRRs and other contract parameters for each contract have been estimated based on publicly available information. For example, the average NRR for the CES contracts was announced by the Government to be \$7,900 per megawatt-month.¹⁹

The cost to the OPA of any additional conservation and demand management (CDM) initiatives is also captured in term G of Equation 1. The OPA is currently offering or planning to offer several CDM initiatives over the next 12 months. These programs generally fall into three categories: Mass Market programs, Commercial / Institutional Market programs and Industrial Market programs, and are based on various Ministerial directives to the OPA and the Board between June 2005 and July 2010.

The Bruce Power contract initially stipulated that output from the Bruce A facility would be paid a base price of \$57.37 / MWh, indexed to inflation, plus fuel costs. As of April 1, 2008, the base price was increased by \$2.11/MWh, to \$59.48 / MWh.²⁰ At today’s fuel prices and including inflation adjustments since the contract went into effect, the average price during the upcoming RPP period is estimated to be approximately \$72/MWh. Under the agreement, Bruce Power will be paid a monthly contingent support payment if its actual revenues are less than contract revenues or it will make a revenue sharing payment to the OPA if actual revenues are greater than contract revenues.

The Bruce Power contract also stipulates that output from the Bruce B facility be guaranteed a floor price of \$45/MWh, indexed to inflation, over a calendar year. Adjustments for inflation are made on an annual basis. For the upcoming RPP period, the average floor price is forecast to be approximately \$51/MWh.

¹⁸ Seven facilities holding CHP Phase I contracts are expected to be operational during this RPP period: the Great Northern Tri-gen Facility, the Durham College District Energy Project, the Countryside London Cogeneration Facility, the Warden Energy Centre, the Algoma Energy Cogeneration Facility, the East Windsor Cogeneration Centre, and the Thorold Cogeneration Project.

¹⁹ Given the ministerial directive to the OPA, the NRR for the “early movers” was assumed to be the same.

²⁰ <http://www.powerauthority.on.ca/Page.asp?PageID=5024&ContentID=6572&SiteNodeID=237> The “base” (or “reference”) price was increased due to the agreement involving the expansion of the Bruce A refurbishment project.

The OPA has signed a contract with OPG for the on-going operation of OPG's Lennox Generating Station, a 2,140-MW peaking plant. The cost of this contract is included in the "OPA" component of the Global Adjustment.

The value of "G" in Equation 1 (i.e., net cost of Bruce nuclear, gas and Lennox generation plus CDM programs) is estimated to be \$1.6 billion.

2.2.7 Estimate of the Global Adjustment

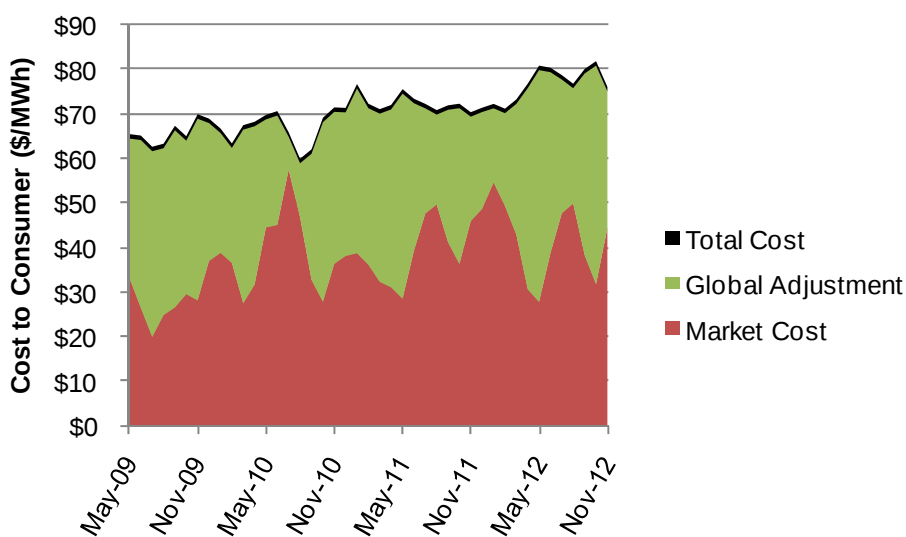
The total Global Adjustment (i.e., $(A - B) + (C - D) + (E - F) + G$, in Equation 1) is estimated to be a cost of \$3.8 billion. The RPP share of this (i.e., α times the total cost) is estimated to be a cost of \$1.6 billion, or \$28.22 / MWh (2.822 cents per kWh). This is the forecast of the average Global Adjustment cost per unit that will accrue to RPP consumers over the period from May 1, 2011 to April 30, 2012

The Global Adjustment represents the difference between the total contract cost of the various contracts it covers (for OPG nuclear and prescribed hydro, Bruce nuclear, gas plants, renewable generation, OPG coal, CDM, etc.) and the market value of the contracted generation. The Global Adjustment therefore changes for two reasons:

- o changes (usually increases) in the contracts it covers, or
- o fluctuations in the market value of the contracted generation.

This is illustrated in Figure 2, which shows how the Global Adjustment is expected to change over the next 18 months. Consumers pay the full cost of the contracts covered by the Global Adjustment, either through market costs or through the Global Adjustment itself. The Global Adjustment fluctuates as market prices rise and fall, but the total supply cost (market cost plus Global Adjustment) is expected to increase over the next 12 months.

Figure 2: Components of the RPP Supply Cost



Four main factors are contributing to the increase in the supply cost between this RPP Period and the previous one:

- o Increases in market prices that are not fully offset by changes in the Global Adjustment.
- o Increases in the expected output from OPG's nuclear plants.
- o Re-estimation of the contribution of fossil generation (gas and coal) to the Global Adjustment. Analysis has shown a tendency to underestimate these costs in previous forecasts.
- o An increase in renewable generation.

2.2.8 Cost Adjustment Term for OPA Variance Account

This section describes the calculation of the sixth term of Equation 1:

$$C_{RPP} = M + \alpha [(A - B) + (C - D) + (E - F) + G] + H$$

The cost adjustment term for the OPA variance account consists of two factors. The first is the forecast interest costs associated with carrying any RPP-related variances incurred during the upcoming RPP period (May 2011 – April 2012). The second represents the price adjustment required to clear (i.e., recover or disburse) the existing RPP variance and interest accumulated over the previous RPP period.

The first term discussed above is small, as any interest expenses incurred by the OPA to carry consumer debit variances in some months are generally offset by interest income the OPA receives from carrying consumer credit balances in other months. In addition, the interest rate paid by the OPA on the variance account is relatively low.

The second term is significant. It represents the price adjustment necessary to clear the total net variance accumulated since the RPP was introduced on April 1, 2005 through to the beginning of this RPP Period. As of April 30, 2011 the net variance account balance is expected to be a unfavourable, or negative, balance of approximately \$21 million including interest. This is quantity "H" in Equation 1.

A variance clearance factor has been calculated that is estimated to bring the variance account to approximately a zero balance over the twelve month period, after taking into account both the changes in total RPP consumption and the Final RPP Variance Settlement Amount payments expected as of March 31, 2011. This variance clearance factor has changed from a *credit* of 0.116 cents per kWh in the previous RPP report to a *charge* of 0.035 cents per kWh. This change is primarily the result of higher-than-forecast Global Adjustment costs relative to the level of HOEP, including the change in the allocation of the Global Adjustment, which moved the variance account balance from a positive to a negative amount. The variance clearance factor increases the average RPP supply cost by the amount of the charge: \$0.35 / MWh (0.035 cents per kWh).

2.3 Correcting for the Bias Towards Unfavorable Variances

The supply costs discussed in section 2.2 are based on a forecast of the HOEP. However, actual prices and actual demand cannot be predicted with absolute certainty. Calculating the total RPP supply cost therefore needs to take into account the fact that volatility exists amongst the forecast parameters, and that there is a slightly greater likelihood of negative or unfavourable variances than favourable variances. For example, because nuclear generation plants tend to operate at capacity factors between 80% and 90%, these facilities are more likely to “under-generate” (due to unscheduled outages) than to “over-generate” (i.e., there is 10-20% upside versus 80-90% downside on the generator output). Similarly, during unexpectedly cold or hot weather, prices tend to be higher than expected as does RPP consumers’ demand for electricity. The net result is that the RPP would be “expected” to end the year with a small unfavourable variance in the absence of a minor adjustment to reflect the greater likelihood of unfavourable variances.

The Board regularly reviews the differences between the estimated and actual RPP supply cost, and publishes its findings in Variance Explanation Reports; to date, 34 such reports have been published. Based on this experience, the Adjustment to Address Bias Towards Unfavourable Variance is set at \$1.00 / MWh (0.100 cents per kWh). This amount is included in the price paid by RPP consumers to ensure that the “expected” variance at the end of the RPP year is zero.

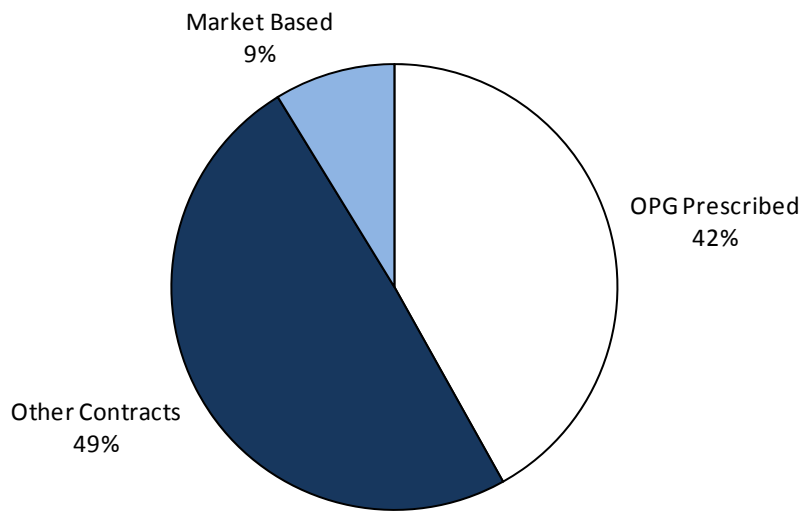
2.4 Total RPP Supply Cost

The total RPP supply cost is estimated to be \$4.1 billion.²¹ Figure 3 breaks this supply cost into the three major cost streams. Since the forecast market price is well below the “floor” price in the contract with Bruce Power for its Bruce B facilities, those facilities are categorized under “Other Contracts”. OPG’s Lambton and Nanticoke coal plants are also included in “Other Contracts” because of the agreement with the OEFC which ensures OPG recovers its costs on a monthly basis.

Figures 3 and 4 below illustrate different concepts. Figure 3 shows the expected breakdown of *physical electricity* (i.e., kilowatt-hours) supplied by each of the four generation categories (including CDM) during the upcoming RPP period. This includes all Ontario generation, not just that used by RPP consumers.

²¹ The total cost figure is net of the forecast variance account balance as of March 31, 2011.

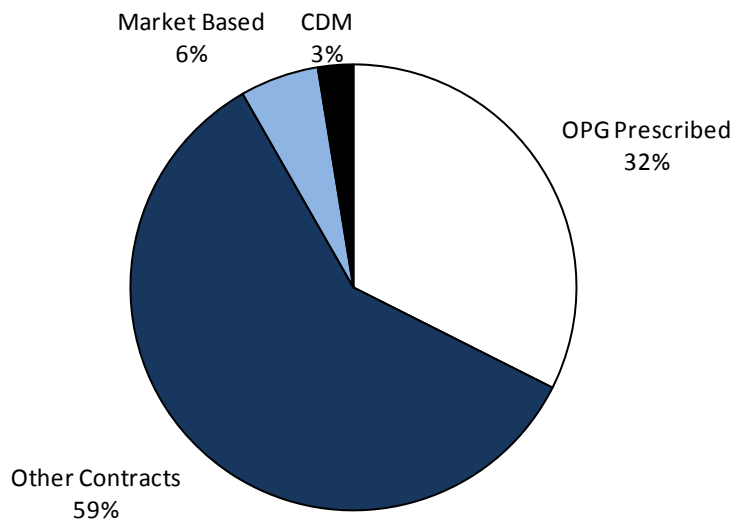
Figure 3: Ontario Generation by Category (% of kWh)



Source: Navigant Consulting

Figure 4 shows the expected breakdown of the RPP's *total cost* (exclusive of the variance clearance factor and the stochastic adjustment factor). Costs are allocated based on the projected market revenue of each category of generation at the time of consumption. These costs are then adjusted to account for the impact of the relevant regulated or contract terms that affect the ultimate price received by the generators in each of the three non-market based generation categories. These adjustments are also reflected in the Global Adjustment as shown in Table 2 on the following page.

Figure 4: Components of Total RPP Supply Cost (% of \$)



Source: Navigant Consulting

The proportions shown in the two figures above may be quite different, because they are illustrating different things. For example, while OPG Prescribed (or regulated) generation is expected to account for 42% of Ontario generation output, it is expected to contribute only 32% of the total RPP supply cost, after taking into account differences in usage patterns of RPP consumers compared to the market as a whole, as well as the regulated prices for these generation facilities.

The following table itemizes the various steps discussed above to arrive at the average RPP supply cost of \$72.98/MWh. This average supply cost corresponds to an average RPP price, which is referred to as RPA, of 7.298 cents per kWh.

Table 2: Average RPP Supply Cost Summary

<i>RPP Supply Cost Summary</i>		
for the period from May 1, 2011 through April 30, 2012		
Forecast Wholesale Electricity Price		\$40.15
Load-Weighted Price for RPP Consumers (\$ / MWh)		\$43.41
Impact of the Global Adjustment (\$ / MWh)	+	\$28.22
Total Contract Cost		\$71.27
Market Value		(\$43.05)
Adjustment to Address Bias Towards Unfavourable Variance (\$ / MWh)	+	\$1.00
Adjustment to Clear Existing Variance (\$ / MWh)	+	\$0.35
Average Supply Cost for RPP Consumers (\$ / MWh)	=	\$72.98

Source: Navigant Consulting

3. CALCULATING THE RPP PRICE

The previous chapter calculated a forecast of the total RPP supply cost. Given the forecast of total RPP demand, it also produced a computation of the average RPP supply cost and the average RPP supply cost, RPA. This chapter explains how prices are determined for consumers with eligible smart meters that are being charged the TOU prices, $RPEM_{ON}$, $RPEM_{MID}$, and $RPEM_{OFF}$ and for the tiers, $RPCM_{T1}$ and $RPCM_{T2}$.

3.1 Setting the TOU Prices for Consumers with Eligible Smart Meters

For those consumers with eligible smart meters whose distributors have implemented time-of-use (TOU) prices, three separate prices will apply. The times when these prices apply varies by time of day and season, as set out in the RPP Manual. There are three price levels: On-peak ($RPEM_{ON}$), Mid-peak ($RPEM_{MID}$), and Off-peak ($RPEM_{OFF}$). The load-weighted average price must be equal to the RPA, as was the case for the conventional meter RPP prices.

As described in the RPP Manual, the first step is to set the Off-peak price, or $RPEM_{OFF}$. This price reflects the forecast market price during that period, including the global adjustment and the variance clearance factor. The Mid-peak price, $RPEM_{MID}$, is similarly set. After these two prices are set, and given the forecast levels of consumption during each of the three periods, the On-peak price, $RPEM_{ON}$, is determined by the requirement for the load-weighted average of TOU prices to equal the RPA.

The various components of Global Adjustment costs are allocated to TOU consumption periods based on the type of cost. The costs associated with OPG's regulated facilities, Bruce Power's nuclear plants, renewable generation and CDM costs related to conservation programs are allocated uniformly across all consumption. The remaining portion of the CDM cost is allocated only to On-peak consumption, because the purpose of the demand management portion of CDM is to ensure uninterrupted supply during peak times. Payments to Lennox are also allocated to the on-peak period, for the same reason. Contingent support payments to the coal and gas plants are allocated to the three periods based on the amount of generation in each period over the past twelve months (March 2010 – February 2011), taking into account the change in the TOU schedule. The NUG component of the GA (excluding the coal component) is allocated to both Mid-peak and On-peak consumption because these generators serve non-Off-peak consumption. Solar generation GA costs are allocated in proportion to their forecast output in the TOU periods. As well, approximately one-quarter of the stochastic adjustment was allocated to the Mid-peak price and three-quarters was allocated to the On-peak price because the majority of risks covered by the adjustment are borne during these time periods.

The resulting **time-of-use prices** are:

- o $RPEM_{OFF} = 5.9$ cents per kWh
- o $RPEM_{MID} = 8.9$ cents per kWh, and

- o $RPEM_{ON} = 10.7$ cents per kWh.²²

As defined in the RPP Manual, the time periods for time-of-use (TOU) price application are defined as follows:

- o *Off-peak* period (priced at $RPEM_{OFF}$):
 - *Winter and summer weekdays*: 7 p.m. to midnight and midnight to 7 a.m.
 - *Winter and summer weekends and holidays*:²³ 24 hours (all day)
- o *Mid-peak* period (priced at $RPEM_{MID}$)
 - *Winter weekdays (November 1 to April 30)*: 11 a.m. to 5 p.m.
 - *Summer weekdays (May 1 to October 31)*: 7 a.m. to 11 a.m. and 5 p.m. to 7 p.m.
- o *On-peak* period (priced at $RPEM_{ON}$)
 - *Winter weekdays*: 7 a.m. to 11 a.m. and 5 p.m. to 7p.m.
 - *Summer weekdays*: 11 a.m. to 5 p.m.

The above times are given in local time (i.e., the times given reflect daylight savings time in the summer). These TOU periods incorporate changes to the start of off-peak hours for weekdays that become effective May 1, 2011.²⁴

The average price for a consumer on time-of-use prices depends on the consumer's load profile (i.e., how much electricity is used at what time). The load profile assumed for TOU consumers is different from the load profile for non-TOU RPP consumers. RPP prices are set so that a TOU consumer with an average TOU load profile will pay the same average price as an RPP consumer that pays the tiered prices with a typical (non-TOU) load profile, as shown in Table 3. This average price is equal to the average RPP supply cost (the RPA) of 7.3¢ / kWh.

3.2 Setting the Tier Prices

For consumers who are not on TOU pricing, there is a two-tiered pricing structure: $RPCM_{T1}$ (the price for consumption at or below the tier threshold) and $RPCM_{T2}$ (the price for consumption above the tier threshold). The tier threshold is an amount of consumption per month.

²² These TOU prices, under the Board's new Global Adjustment allocation methodology, are related to each other in approximately a 1: 1.5: 1.8 ratios.

²³ For the purpose of RPP time-of-use pricing, a "holiday" includes the following days: New Year's Day, Family Day, Good Friday, Christmas Day, Boxing Day, Victoria Day, Canada Day, Labour Day, Thanksgiving Day, and the Civic Holiday. When any holiday falls on a weekend (Saturday or Sunday), the next weekday following is to be used in lieu of that holiday.

²⁴ O. Reg. 95/05 was amended on January 1, 2011 to stipulate that off-peak pricing begin no later than 7pm on weekdays.

The tier prices are calculated so that the average per unit revenue generated is equal to the RPA. This is achieved by maintaining the ratio between the original upper and lower tier prices (i.e., the ratio between 4.7 and 5.5 cents per kWh) and forecasting consumption above and below the threshold in each month of the RPP.

RPP tier rates are set such that the weighted average rate will come as close as possible to the RPA, based on the forecast ratio of Tier 1 to Tier 2 consumption, and maintaining a 15-17% difference between Tier 1 and Tier 2 rates.

The resulting **tier prices** are:

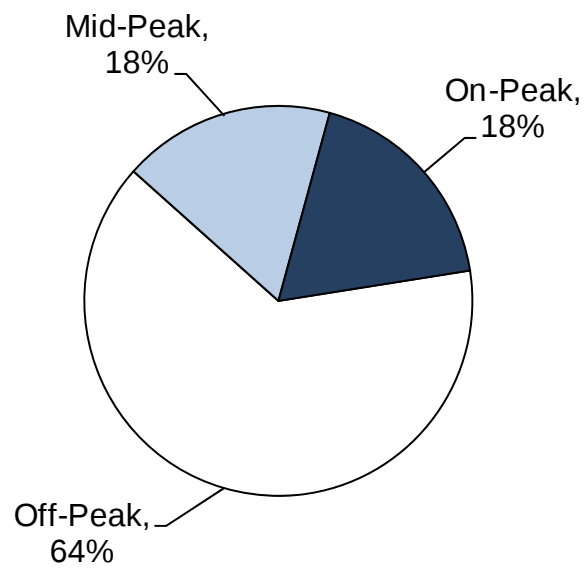
- o $RPCM_{T1} = 6.8$ cents per kWh; and,
- o $RPCM_{T2} = 7.9$ cents per kWh.

Table 3: Price Paid by Average RPP Consumer under TOU and Tiered RPP prices

Time-of-Use RPP Prices	Off-Peak	Mid-Peak	On-Peak	Average Price
Price	5.9¢	8.9¢	10.7¢	7.3¢
% of Consumption	64%	18%	18%	
Tiered RPP Prices	Tier 1	Tier 2	Average Price	
Price	6.8¢	7.9¢	7.3¢	
% of Consumption	56%	44%		

As shown in Figure 5, 64% of the consumption of the average RPP consumer paying TOU prices will be at the Off-Peak price.

Figure 5: Breakdown of Average RPP Consumption by TOU Periods



4. EXPECTED VARIANCE

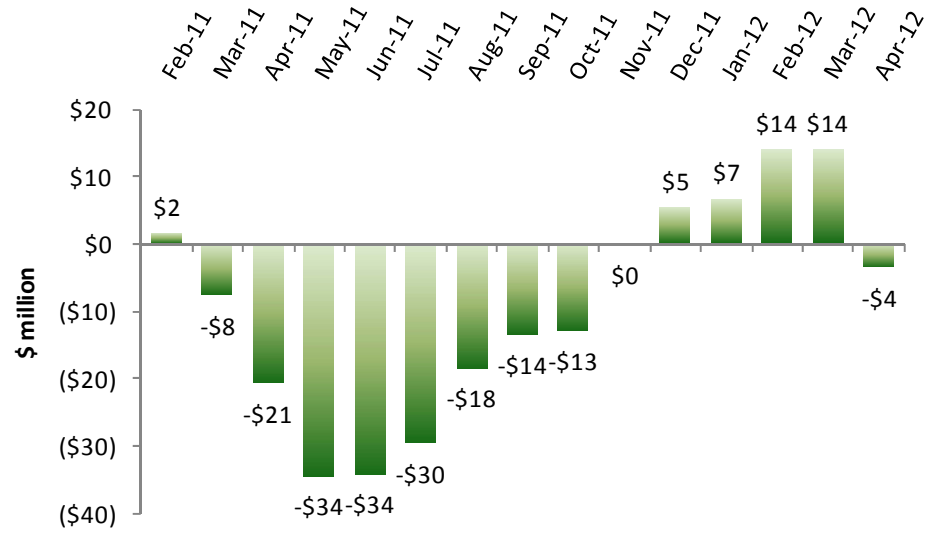
After RPP prices are set, the monthly expected variance can be calculated directly. The variance clearance factor is set so that the expected variance balance at the end of the RPP period will be as close as possible to zero. However, the variance balance is not expected to decline smoothly; the amount of the variance balance cleared is expected to vary significantly from month to month for several reasons:

- Variance clearance will tend to be higher in months when RPP volumes are higher (i.e., summer and winter) and lower when volumes are lower (i.e., spring and fall).
- While there is only technically a single average RPP price (or RPA) in this report, the residential thresholds are higher in winter (1000 kWh) than in summer (600 kWh). This means that the average price most RPP consumers pay will be lower in winter than in summer, because they will have less consumption at the higher tiered price in the winter. Thus, variance clearance will vary from summer to winter.
- The HOEP is projected to be higher in some months (especially summer) and lower in others (especially the shoulder seasons), but RPP prices remain constant. This will be partially offset by changes in the Global Adjustment. Thus, variance clearance will vary by month, depending on market prices.

The combined effect of these factors is shown in Figure 6. The values in each month of Figure 6 represent the total expected balance in the OPA variance account at the end of each month.

Because the RPP prices are rounded to the nearest tenth of a cent, the amount of revenue to be collected cannot be adjusted to exactly clear the variance account. In this case, the new RPP prices given above are expected to collect slightly more than the RPP supply cost, leaving an “expected” balance of \$3 million in the variance account at the end of the RPP period. However, any decrease in the RPP prices would lead to an even larger under-collection. The RPP prices are therefore set to bring the variance balance as close as possible to zero.

Figure 6: Expected Monthly Variance Account Balance (\$ million)



Source: Navigant Consulting