

# PUBLIC INTEREST ADVOCACY CENTRE LE CENTRE POUR LA DEFENSE DE L'INTERET PUBLIC

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December 12, 2008

**VIA MAIL and E-MAIL** 

Ms. Kirsten Walli Board Secretary Ontario Energy Board P.O. Box 2319 2300 Yonge St. Toronto, ON M4P 1E4

Dear Ms. Walli:

Re: Vulnerable Energy Consumers Coalition (VECC)

Comments on Enbridge and Union Submissions

EB-2008-0384/0385 DSM Measures and Input Assumptions.

Please find enclosed the detailed comments submitted on behalf of VECC in the above noted proceedings.

VECC does not have the resources to examine the details of the specific DSM measures and input assumptions for all measures. We have therefore focussed measures applicable to Low Income customers, including residential lighting, showerheads and weatherization.

We have compared key input assumptions between those provided by Union and Enbridge in their submissions and the latest OPA Measures and Input assumptions as per the OPA 2009 Measures and Assumptions List. As noted in the attachment we find important inconsistencies and differences.

The OPA measures and assumptions are key because on November 24, 2008 the Board commenced a proceeding with the stated goal of adopting the OPA Measures and Input assumptions for all electric CDM programs, replacing its own TRC Guide Assumptions.

The OPA is also viewed as independent with a very large Evaluation and Verification Budget and has no SSM incentive based on input assumptions. Accordingly the OPA measures and input assumptions must be viewed as the "gold standard" and should, *where applicable* be used by the gas utilities for their programs.

In examining the input assumptions for similar measures, the gas utilities have used the OPA as the key reference in several instances (i.e. water savings) but have not done so in other cases.

The gas utilities should be required to justify any differences in input assumptions from the OPA 2009 measures and assumptions list and re-file updated assumptions as necessary.

In VECC's view harmonizing the Gas DSM input assumptions to those of OPA is not merely an academic exercise; doing so will allow the Board to be confident that the best set of assumptions are used for the Gas DSM programs in 2009 and beyond.

The Board should defer its approval until harmonization has been done and the amendments reviewed and endorsed by the respective EACs of Union and Enbridge.

Yours truly,

Michael Buonaguro Counsel for VECC Encl. IN THE MATTER OF the Ontario Energy Board Act 1998, S.O.1998, c.15, (Schedule B);

AND IN THE MATTER OF an application by Enbridge Gas Distribution Inc. seeking approval of certain demand side management input assumptions for the 2008 program year.

## **Comments of Vulnerable Energy Consumers Coalition**

### Union and Enbridge Gas DSM Measures and Assumptions for Low income

The following extracts from the Union/Enbridge summary table and the OPA List illustrates the issues

## **Union Enbridge**

	Base Equipment &	Load	Natural Gas Electricity Water		Equipment Incremental Cost		ntal Cost	Free Ridership				
Efficient Equipment & Technologies	Technologies	Type	m3	kWh	L.	Years Customer Contractor		%	% Notes		- Reference	
LOWINCOME	•											
Faucet Aerator (kitchen, distributed,     1.5 G PM)	Average existing stock	base	22		7,800	10	\$2		1%		Union & Enbridge - Savings per aerat	or upd ate d
<ol> <li>Faucet Aerator (bathroom, distributed, 1.5 G PM)</li> </ol>	Average existing stock	base	6		2,000	10	\$1		1%		Union & Enbridge - Savings per aerat	or upd ate d
3a. Low-Flow Showerhead (Per household, Installed, 1.25 GPM)	2.D GPM showerhead	base	33		8,900	10		\$15	1%/5%		Union & Enbridge	upd ate d
3b. Low-Flow Showerhead (Per household, Installed, 1.25 GPM)	2.1 -2.5 GPM showerhead	base	47		12,400	10		\$15	1%/5%		Union & Enbridge	upd ate d
3c. Low-Flow Showerhead (Per household, Installed, 1.25 GPM)	2.6 + GPM showerhead	base	68		17,500	10		\$15	1%/5%		Union & Enbridge	upd ate d
4. Pipe Insulation	Water Heaterw/o pipe insulation	base	17			15		\$4	1%		Union & Enbridge	E8-2006-0021 Phase II
5. Programmable Thermostat	Standard Thermostat	weather	152	26		15		\$50	1%		Union & Enbridge	upd ate d
6. Weatherization	Existing home sample	weather	1,143	165		23		\$2,600	0%		Union & Enbridge	Enbridge 2007-2009 DSM Plan, updated
-	•		-	-	-		-	•		_		-
OTHER MEASURES								F	ree Ridership			
1. CFL (13W)	60W hoandescent	n/a	0	45	0	8	\$1.75		24%	B	nbridge S	Sub stantiation documents pro vided
2. CFL /23W/\	75W hoandescent	n/a	0	49.7	0	8	\$2.00		24%	Œ	nbridae S	Sub stantiation documents pro vided

#### **OPA**

Decision Type	Seatonal Energy Salvingt Pattern	Load Shape #	Annual Energy Saving ( (KWNA/n)	Summer On Peak	Winter On Realt NW			Mater	Ga i Sa vingi	EUL	ncremental Cout (Life )
					<u> </u>		_				
Retrofft	OPA Res Lighting	5	30.4	0.001	0.004	0.001	0.009	-	-	8	39.III
Retrorit	OPA Res Lighting	5	24.1	0.001	0.003	0.001	1000	-	-	8	\$3.00
Retrofft	OPA Res Lighting	5	25.0	0.001	0.004	0.001	0.007	-	-	8	\$D.DD
Discretionary Retrofft	OPA Res Retrigeration	9	846D	870.0	0.083	0.087	0.105	-	-		
Discretionary Retroffs	O PA Res Retrigeration	9	77 0	0.007	0.008	0.008	0.010	-	- "		\$504 DD
Discretionary Retrofft	OPA Res Retrigeration	9	9120	0.085	0.090	0.093	0.113	-	-		
Discretionary Retrofft	OPA Res Retrigeration	9	69 Д	0.006	0.007	0.007	0.009	-	-	"	\$729.00
Retrofft	OPA Res Water Heating	14	8160	0.065	0.136	0.063	0.151	-	-	30	\$749.00
Retrorit	OPA Res Water Heating	14	38.0	0.003	0.006	0.003	1000	-	-	6	\$5.00
Retrofft	O PA Block Heater	15	580.0	0.000	0.000	0.000	0.000	-	-	10	\$25.00
Retrofft	OPA Res Water Heating	14	22.0	0.002	0.004	0.002	0.004	7800	-	10	\$4.65
Retrofft	OPA Res Water Heating	14	6Д	0.000	0.001	0.000	0.001	2000	-	10	\$4.65
Retrorit	OPA Res Water Heating	14	377.0	0.030	0.063	0.029	0.070	12 400	-	10	\$10.00
Retrofft	OPA Res Space Heating SF	13	1,682.0	0.002	0.458	0.000	0.496	-	- 1	15	2839 TD
Retrofft	OPA Res Space Heating SF	13	s,000.0	0.005	1.361	0.000	1.476	-	-	30	\$1,500.00
Retrofft	OPA Res Space Heating SF	13	1,4440	0.001	0.393	0.000	0.426	- 1	-	30	\$967 JD
	Retrofit	Reborit OPA Res Lighting Reborit OPA Res Lighting Reborit OPA Res Lighting Reborit OPA Res Lighting Discretionary Reborit OPA Res Retrige cition Reborit OPA Res Water Heating Reborit OPA Res Space Heating SF Reborit OPA Res Space Heating SF	State   Stat	Load   Sharper   Sharper	Decision   Person   Person	Decision Type	DecisionType	DecisionType	Decision Type	Decision Type	DecisionType

## Comparison Of Union/EGD and OPA measures for Low income

Measure per Union/EGD	Union/EGD		<u>OPA</u>				
	<u>Savings</u>	Cost	<u>Savings</u>	Cost			
1. Faucet Aerator							
Water savings/cost	7800 gal	<u>\$2.00</u>	<u>7800</u>	<u>\$4.65</u>			
3b.Low Flow Showerhead 2.1-2.5 gpm							
Water savings/cost	12,400 gal	<u>\$15.00</u>	12,400 gal	<u>\$10.00</u>			
3c Low Flow Showerhead 2.5+ gpm							
Water Savings/cost	17,500 gal	<u>\$15.00</u>	<u>n/a</u>	<u>n/a</u>			
4.Pipe insulation							
Savings/life and cost	17 m3/10 yrs	\$4.00	0.003 kwh/6yrs	<u>\$6.00</u>			
6. Weatherization	1143 m3	\$2600	Not applicable	<u>n/a</u>			
Annual Savings/life and cost	<u>165 kwh</u>		3 measures				
Comprehensive Draftproofing (Elec Heat)	<u>n/a</u>	n/a	1682 kwh/15 yrs	<u>\$789</u>			
Wall Insulation	<u>n/a</u>	n/a	5000 kwh/30 yrs	<u>\$1500</u>			
Attic Insulation	<u>n/a</u>	n/a	1444 kwh/30 yrs	<u>\$967</u>			
CFL(13w) Screw-in Standard							
Annual Savings/life and cost	45 kwh/8.yrs	<u>\$1.75</u>	25 kwh/8 yr	<u>\$0.0</u>			

#### Comments

The most serious difference is that OPA breaks down Weatherization into 3 specific measures (as does the Greensaver Federal energy audit)
 Union and EGD are using an average based on samples from its own and OPA pilot programs to provide the estimated savings and costs.

This is not appropriate -the Weatherization should be broken out and assumptions generated for each measure

2 Minor differences between Union/Enbridge and OPA on showerheads and energy efficient lighting serve to illustrate the need for harmonization of input assumptions.