

# 2007 EDR SMART METER RATE CALCULATION MODEL MANAGER'S SUMMARY

# EB-2007-0547 FEBRUARY 9, 2007

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# **SUBMISSION**

Kenora Hydro submits the 2007 Smart Meter Rate Calculation Model including:

- One CD containing the Manager's Summary, and the 2007 Smart Meter Rate Calculation Model.
- Three paper copies of the Manager's Summary and the 2007 Smart Meter Rate Calculation Model.

## **GENERAL COMMENTS**

- Kenora Hydro did not use any alternative principles or mechanisms for this Smart Meter Rate Calculation model, it is filed as presented as instructed by the Report of the Board, January 29, 2007.
- The Board has grouped Kenora Hydro into the "Inactive Distributor" classification. Although it is intended that 20% of the residential meters will be converted to smart meters in 2007, the associated technology to allow Kenora Hydro to interrogate these meters will not be in place until 2008 or beyond.
- Kenora Hydro's current approved 2006 rates include a \$.26 per month charge for all Residential and General Service customers for Smart Meters.
- The results of this model indicate \$.73 per metered customer is required for 2007.



## SHEET 2

### **Smart Meter Unit Cost**

• Kenora Hydro has estimated a capital cost of \$100 per installed meter.

### **AMI Capital Cost**

• It is estimated that in 2008, \$20,000 will be spent on capital infrastructure to enable the communication with and interrogation of the smart meters.

# **AMI Computer Software Cost**

• In 2009, the associated billing software upgrades will be purchased at an estimated cost of \$10,000

## Other Computer Software Costs

• Kenora has budgeted \$10,000 in 2007 to allow for a propagation study.

# Incremental AMI O&M Expenses

- 2007 has \$3,600 budgeted for meter interrogation of 1,000 meters at \$.30/meter/month
- 2008 has \$7,920 for interrogation of 2,200 meters at \$.30/meter/month
- 2009 has \$12,240 for interrogation of 3,400 meters at \$.30/meter/month
- 2010 has \$20,880 for interrogation of 5,800 meters at \$.30/meter/month

### Incremental AMI Admin Expenses

• \$10,000 has been included in 2007 to cover staff travel and training.

### Incremental Other O&M Operational Expenses

- An estimate for O&M admin at \$.20/meter/month and an allowance for meter reverification over the life of the meters has been provided for the following:
  - ~ 2007 \$2,400 O&M admin and \$25,000 meter re-verification
  - ~ 2008 \$5,280 O&M admin and \$30,000 meter re-verification
  - ~ 2009 \$8,160 O&M admin and \$30,000 meter re-verification
  - ~ 2010 \$13,920 O&M admin and \$60,000 meter re-verification



# SHEET 3

From the 2006 EDR Sheets, the following data is submitted:

- 50% Deemed Debt
- 50% Deemed Equity
- 6.5% Weighted Debt Rate
- 9.0% proposed ROE
- 7.75% Weighted Average Cost of Capital
- 5,831 metered customers
- 18.62% PILs tax rate for 2007 year

The amortization rates presented in the model of 15 years for smart meters, 5 years for computer hardware and 3 years for software is the policy for Kenora Hydro.

## **SHEET 4**

The inputs as provided by Kenora Hydro result in a Smart Meter rate adder of \$.73.



## **Conclusion:**

Kenora Hydro customers will have a smart meter adder of \$.73/meter/month for the 2007 rate year.

It is to be understood that the figures used in this filing, as were initially presented in the Smart Meter Program filing of December 15, 2006 to the OEB, are preliminary estimates only, and could vary materially from the actual capital and operating expenditures incurred over the life of this smart meter program.

This filing has been completed with the most current and accurate information at the time of filing. Best efforts were made to ensure this filing was accurate and complete as instructed in the "Report of the Board" of January 29, 2007.

Respectfully Submitted

Janice Robertson for: David Sinclair, President and CEO Kenora Hydro



# **Ontario Energy Board**

# 2007 EDR SMART METER RATE CALCULATION MODEL

# **Sheet 1** Utility Information Sheet

Legend:	Input Cell	Pull-Down Menu Option	Output Cell
	From Another Sheet	To The 2007 IRM Model	To Another Sheet

Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.

Name of LDC:	Kenora Hydro Electric Cor	poration Ltd.		
Licence Number:	ED-2003-0030	Smart	Meter Grouping:	Inactive
IRM 2007 EB Number:	EB-2007-0547	]		
EDR 2006 RP Number:	RP-2005-0020	EDR 2006 EB Number:	EB-2005-0384	
Date of Submission:	February 9, 2007	Revision:	0	
Version:	1.0			
Contact Information Name:	JANICE ROBERTSON		-	
Title:		& REGULATORY AFFAIRS	-	
		& REGULATORT AFFAIRS		
	JROBERTSON@KENORA.C	ΣΔ.	-	

Please Note: In the event of an inconsistency between this model and any element of the January 2007 "Report of the Board on 2nd Generation Incentive Regulation of Ontario's Electricity Distributors - Addendum for Smart Metering Rates ", the Report governs.

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# 2007 EDR SMART METER RATE CALCULATION MODEL Kenora Hydro Electric Corporation Ltd.

### EB-2007-0547

Friday, February 09, 2007

Sheet 2. Smart Meter Capital Cost and Open		well-orso.					
Smart Meter Unit Installation Plan: (From Smart Meter Plan filed D	ecember 15, 2006 )	0000	2027	2000	2000	2010	T
assume calendar year installation  Planned number of Residential smart meters to be installed		2006	2007 1,000	2008 1,200	2009 1,200	2010 1,600	Total 5,000
Planned number of General Service Less Than 50 kW smart meters		-	-	-	-	800	800
Planned Meter Installation (Residential and Less Than 50 kW only)	-	-	1,000	1,200	1,200	2,400	5,800
Planned Meter Installation Completed before January 1, 2008		_	1,000				
Smart Meter Unit Cost	Per Un	it					
Smart Meter Unit Cost Enter the invoiced cost per smart meter purchased Please provide details in Manager's Summary	\$	100.00	Α				
Smart Meter Other Unit Cost Enter the invoiced other costs per smart meter unit purchased Please provide details in Manager's Summary			В				
Smart Meter Installation Cost per Unit Enter the time and material cost per smart meter unit installed Please provide details in Manager's Summary			С				
Smart Meter Other Cost per Unit Enter the other cost per smart meter unit installed Please provide details in Manager's Summary			D				
Total Unit cost per Smart Meter	\$ 3. LDC Assumption		= A + B + C + D				
AMI Capital Cost	o. Ebo Assumpti	ons and Data					
·	2006		2007	2008	2009	2010	Total 20,000 F
AMI Computer Hardware Costs Enter the estimated capital costs for AMI related Computer Hardware Please provide details in Manager's Summary				DC Assumptions and Data	-   \$		20,000 F
AMI Computer Software Costs Enter the estimated capital costs for AMI related Computer Software	2006		2007 3. L	2008 \$ DC Assumptions and Data	2009	2010	10,000
Please provide details in Manager's Summary  Total AMI Capital Cost	\$	- \$	- 9	5 20,000 \$	10,000 \$	- \$	30,000 H = F
		·	·	•	.,,	·	
Other Capital Cost	2006		2007	2008	2009	2010	Total
Other Computer Hardware Costs Enter the estimated capital costs for other related Computer Hardware Please provide details in Manager's Summary	2000			DC Assumptions and Data	2003	\$	-
Other Computer Software Costs		\$	10,000			\$	10,000
Enter the estimated capital costs for other related Computer Software Please provide details in Manager's Summary			3. L	DC Assumptions and Data			
Total Other Capital Cost							
Total Other Capital Cost	\$	- \$	10,000 \$	5 - \$	- \$	- \$	10,000 K =
Incremental AMI Operational Expenses	\$	- \$		·	•	·	<u> </u>
	2006	- \$	2007	2008 3 7,920 \$ DC Assumptions and Data	2009	- <b>\$</b> 2010 20,880 \$	10,000 K =  Total 44,640 L
Incremental AMI Operational Expenses Incremental AMI 0&M Expenses Enter the estimated incremental AMI related 0&M expenses	2006	- \$	2007 3,600 \$ 3. L	2008	2009	2010	Total
Incremental AMI Operational Expenses Incremental AMI O&M Expenses Enter the estimated incremental AMI related O&M expenses Please provide details in Manager's Summany Incremental AMI Admin Expenses Enter the estimated incremental AMI related Admin expenses	\$ 2006	- \$ - \$	2007 3,600 \$ 3. L	2008 3 7,920 \$ DC Assumptions and Data DC Assumptions and Data	2009	2010 \$	Total 44,640 l
Incremental AMI Operational Expenses Incremental AMI O&M Expenses Enter the estimated incremental AMI related O&M expenses Please provide details in Manager's Summary Incremental AMI Admin Expenses Enter the estimated incremental AMI related Admin expenses Please provide details in Manager's Summary	\$	- \$	2007 3,600 \$ 3 L 10,000 \$ 3 L 13,600 \$	2008 S 7,920 \$ DC Assumptions and Data  DC Assumptions and Data  T,920 \$	2009 12,240 \$	2010 20,880 \$ \$ 20,880 \$	Total 44,640 L 10,000 M 54,640 N = L
Incremental AMI Operational Expenses Incremental AMI O&M Expenses Enter the estimated incremental AMI related O&M expenses Please provide details in Manager's Summary Incremental AMI Admin Expenses Enter the estimated incremental AMI related Admin expenses Please provide details in Manager's Summary Total Incremental AMI Operation Expenses	\$ 2006	- \$	2007 3,600 \$  10,000 \$  13,600 \$  2007	2008 3 7,920 \$ DC Assumptions and Data DC Assumptions and Data	2009 12,240 \$	2010 \$	Total 44,640 L 10,000 M
Incremental AMI Operational Expenses Incremental AMI O&M Expenses Enter the estimated incremental AMI related O&M expenses Please provide details in Manager's Summary Incremental AMI Admin Expenses Enter the estimated incremental AMI related Admin expenses Please provide details in Manager's Summary Total Incremental AMI Operation Expenses Incremental Other Operational Expenses Incremental Other O&M Expenses Enter the estimated incremental Other related O&M expenses	\$	- \$	2007 3,600 \$ 3, L  10,000 3, L  13,600 \$  2007  27,400 \$ 3, L	2008 \$ 7,920 \$ DC Assumptions and Data  DC Assumptions and Data  T,920 \$  2008 \$ 35,280 \$	2009 12,240 \$	2010 20,880 \$ \$ 20,880 \$	Total 44,640 L 10,000 M 54,640 N = L

AMI - Advanced Metering Infrastructure

Other - Cost or expenses not AMI but does not include stranded assets



#### 2007 EDR SMART METER RATE CALCULATION MODEL

# Kenora Hydro Electric Corporation Ltd. EB-2007-0547

EB-2007-0547 Friday, February 09, 2007

Sheet 3. LDC Assumptions and Data

#### Assumptions:

- 1. Planned meter installations occur evenly through the year.
- 2. Year assumed January to December
- 3. Amortization is straight line and has half year rule applied in first year

### 2006 EDR Data Information

Deemed Debt (from 2006 EDR Sheet "3-2 COST OF CAPITAL (Input)" Cell C 18)

Deemed Equity (from 2006 EDR Sheet "3-2 COST OF CAPITAL (Input)" Cell C 19)

Weighted Debt Rate (from 2006 EDR Sheet "3-2 COST OF CAPITAL (Input)" Cell C 25)

Proposed ROE (from 2006 EDR Sheet "3-2 COST OF CAPITAL (Input)" Cell E 32)

**Weighted Average Cost of Capital** 

#### 2006 EDR Total Metered Customers

Sum of Residential, General Service, and Large User

from 2006 EDR Sheet "7-1 ALLOCATION - Base Rev. Reg." Cells H16 thru H93

#### 2006 EDR Tax Rate

Corporate Income Tax Rate

(from 2006 PILs Sheet "Test Year PILs, Tax Provision" Cell D 14)

#### **Capital Data:**

Smart meter including installation (\$100 times Planned Meters Installed)
Computer Hardware Costs 2. Smart Meter Data; AMI (F) plus Other (I)
Computer Software Costs 2. Smart Meter Data; AMI (G) plus Other (J)
Total Computer Costs 2. Smart Meter Data; AMI (H) plus Other (K)

#### LDC Amortization Policy:

Smart Meter Amortization Rate Enter Amortization Policy Computer Hardware Amortization Rate Enter Amortization Policy Computer Software Amortization Rate Enter Amortization Policy

#### **Operating Expense Data:**

Incremental O&M Expenses 2. Smart Meter Data; AMI (L) plus Other (O) Incremental Admin Expenses 2. Smart Meter Data; AMI (M) plus Other (P) Total Incremental Operating Expense 2. Smart Meter Data; AMI (N) plus Other (Q)

#### Per Meter Cost Split:

Smart meter including installation Computer Hardware Costs Computer Software Costs Smart meter incremental operating expenses Total Smart Meter Capital Costs per meter

4. Smart Meter Rate Ca
4. Smart Meter Rate Ca
4. Smart Meter Rate Ca
4. Smart Meter Rate Ca

7.75%

5,831 4. Smart Meter Rate Calc

18.62% 5. PILs

2006	i	2007	2008	2009	2010	Total
\$ -	\$	100,000	\$ 120,000	\$ 120,000	\$ 240,000	\$ 580,000
\$ -	\$	-	\$ 20,000	\$ -	\$ -	\$ 20,000
\$ -	\$	10,000	\$ -	\$ 10,000	\$ -	\$ 20,000
\$ -	\$	110,000	\$ 140,000	\$ 130,000	\$ 240,000	\$ 620,000

6. SM Avg Net Fixed Assets &UCC

15	Year	S	6. SN	1 Avg Net Fixed	l Ass	ets &UCC		
5	Year	'S	6. SN	1 Avg Net Fixed	l Ass	ets &UCC		
3	Year	'S	6. SN	1 Avg Net Fixed	l Ass	ets &UCC		
2006	;	2007		2008		2009	2010	Total
\$ -	\$	31,000	\$	43,200	\$	50,400	\$ 94,800	\$ 219,400
\$ -	\$	10,000	\$	-	\$	-	\$ -	\$ 10,000
\$ 	\$	41 000	\$	43 200	\$	50 400	\$ 94 800	\$ 229 400

4. Smart Meter Rate Calc

	Per Meter	Installed	Investment	% of Invest
\$	100.00	5,800	\$ 580,000	68%
\$	3.45	5,800	\$ 20,000	0%
\$	3.45	5,800	\$ 20,000	0%
\$	39.55	5,800	\$ 229,400	0%
\$	146.45		\$ 849,400	68%



# 2007 EDR SMART METER RATE CALCULATION MODEL Kenora Hydro Electric Corporation Ltd. EB-2007-0547

Friday, February 09, 2007

**Sheet 4. Smart Meter Rate Calc** 

# **Smart Meter Rate Calculation**

A A (Well		0007				
Average Asset Values  Net Fixed Assets Smart Meters (6. SM Avg Net Fixed Assets &UCC)	\$ 48,3	2007				
Net Fixed Assets Computer Hardware (6. SM Avg Net Fixed Assets &UCC)	\$ 40,3 \$ -					
Net Fixed Assets Computer Software (6. SM Avg Net Fixed Assets &UCC)	\$ 4,1					
Total Net Fixed Assets	\$ 52,5	00 \$	52,500			Α
Working Capital						
Operation Expense	\$ 41,0	00				
15 % Working Capital	\$ 6,1	50 \$	6,150			В
Smart Meters included in Rate Base		\$	58,650	· ·		C = A + B
Return on Rate Base						
Deemed Debt (3. LDC Assumptions and Data)	50.0%	\$	29,325			D = C * Deemed Debt
Deemed Equity (3. LDC Assumptions and Data)	50.0%	\$	29,325 58,650	•		E = C * Deemed Equity
Weighted Dahl Date (6, 100 to 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	0.5%			•		E. D. Weinhard Debt Dete
Weighted Debt Rate (3. LDC Assumptions and Data) Proposed ROE (3. LDC Assumptions and Data)	6.5% 9.0%	\$	1,906 2,639			F = D * Weighted Debt Rate G = E * Proposed ROE
Return on Rate Base	9.0 /8	<u>\$</u> \$	4,545	\$ 4,545		H=F+G
Return on Nate Dase		Ψ	4,545	φ 4,545		H=F+G
Operating Expenses						
Incremental Operating Expenses (3. LDC Assumptions and Data)				\$ 41,000		I
Amortization Expenses						
Amortization Expenses - Smart Meters (6. SM Avg Net Fixed Assets &UCC)		\$	3,333			
Amortization Expenses - Computer Hardware (6. SM Avg Net Fixed Assets &UCC)		\$	-			
Amortization Expenses - Computer Software (6. SM Avg Net Fixed Assets &UCC)		\$	1,667	\$ 5.000		J
Total Amortization Expenses				\$ 5,000	5. PILs	J
Revenue Requirement Before PILs				\$ 50,545	<del>-</del> -	K = H + I + J
Calculation of Taxable Income						
Incremental Operating Expenses				-\$ 41,000		I
Depreciation Expenses				-\$ 5,000		J _
Interest Expense				-\$ 1,906	_	F
Taxable Income For PILs				\$ 2,639	_5. PILs	L = K - I - J - F
Grossed up PILs (5. PILs)				\$ 633		М
Revenue Requirement Before PILs				\$ 50,545		K
Grossed up PILs (5. PILs)  Revenue Requirement for Smart Meters				\$ 633 <b>\$</b> 51,178	_	M = K + M
					•	
2007 Smart Meter Rate Adder Revenue Requirement for Smart Meters				\$ 51.178		N
Revenue Requirement for Smart Meters 2006 EDR Total Metered Customers (3. LDC Assumptions and Data)				\$ 51,178 5,831		N O = 2006 EDR Total Metered Customers
Annualized amount required per metered customer				\$ 8.78	=	P = N/O
Number of months in year				ψ 0.76 12		Q
2007 Smart Meter Rate Adder				\$ 0.73		R = P/Q
					the 2007 IRM Model	
					sheet "4. 2006 Smart	
					Meter Information" in	
					cells F 17 thru F 32 (as	
					required)	



# 2007 EDR SMART METER RATE CALCULATION MODEL

# Kenora Hydro Electric Corporation Ltd.

EB-2007-0547

Friday, February 09, 2007

**Sheet 5. PILs** 

# **PILs Calculation**

INCOME TAX		
Net Income (4. Smart Meter Rate Calc)	\$	2,639
Amortization (4. Smart Meter Rate Calc)	\$	5,000
CCA - Class 47 (8%) Smart Meters (6. SM Avg Net Fixed Assets &UCC)	-\$	4,000
CCA - Class 45 (45%) Computers (6. SM Avg Net Fixed Assets &UCC)	-\$	2,250
Change in taxable income	\$	1,389
Tax Rate (3. LDC Assumptions and Data)		18.62%
Income Taxes Pavable	\$	259

### **ONTARIO CAPITAL TAX**

Smart Meters (6. SM Avg Net Fixed Assets &UCC)	\$ 96,667
Computer Hardware (6. SM Avg Net Fixed Assets &UCC)	\$ -
Computer Software (6. SM Avg Net Fixed Assets &UCC)	\$ 8,333
Rate Base	\$ 105,000
Less: Exemption	\$ -
Deemed Taxable Capital	\$ 105,000
Ontario Capital Tax Rate	0.300%
Net Amount (Taxable Capital x Rate)	\$ 315

# **Gross Up**

	PILs Pa	yable	Gross Up	 PILs	
Change in Income Taxes Payable	\$	259	18.62%	\$ 318	
Change in OCT	\$	315		\$ 315	_
PIL's	\$	574		\$ 633	4. Smart Meter Rate Calc

Grossed

# 2007 EDR SMART METER RATE CALCULATION MODEL Kenora Hydro Electric Corporation Ltd.

EB-2007-0547

Friday, February 09, 2007

Sheet 6. SM Avg Net Fixed Assets &UCC

# **Smart Meter Average Net Fixed Assets**

Net Fixed Assets - Smart Meters		2006	6	2007	
Opening Capital Investment	\$	_	\$	-	=
Capital Investment Year 1 (3. LDC Assumptions and Data)	\$		Ψ		-
Capital Investment Year 2 (3. LDC Assumptions and Data)	•		\$	100,000	
Closing Capital Investment	\$	-	\$	100,000	-
					-
Opening Accumulated Amortization	\$	-	\$	-	_
Amortization Year 1 (15 Years Straight Line)	\$	-	\$	-	
Amortization Year 2 (15 Years Straight Line)			\$	3,333	_
Closing Accumulated Amortization	\$	-	\$	3,333	-
Opening Net Fixed Assets	\$	_	\$	_	-
Closing Net Fixed Assets	\$		<u>\$</u>	96,667	5 PII s
Average Net Fixed Assets	\$		\$	•	4. Smart Meter Rate Calc
, wordigo Not 1 Mod 7 toooto	Ψ		Ψ	10,000	- Onlare Wictor Nate Care
Net Fixed Assets - Computer Hardware		2006	6	2007	
Opening Capital Investment	\$	-	\$	-	-
Capital Investment Year 1 (3. LDC Assumptions and Data)	\$	-			-
Capital Investment Year 2 (3. LDC Assumptions and Data)			\$	-	
Closing Capital Investment	\$	-	\$	-	_
					_
Opening Accumulated Amortization	\$	-	\$	-	_
Amortization Year 1 (5 Years Straight Line)	\$	-	\$	-	
Amortization Year 2 (5 Years Straight Line)	\$	_	\$ \$		-
Closing Accumulated Amortization	Φ	<u>-</u>	Φ		_
Opening Net Fixed Assets	\$	-	\$	-	-
Closing Net Fixed Assets	\$	-	\$	-	5. PILs
Average Net Fixed Assets	\$	-	\$	-	4. Smart Meter Rate Calc
Net Fixed Assets - Computer Software		2006	6	2007	
	_				-
Opening Capital Investment	<u>\$</u>	=	\$	-	-
Capital Investment Year 1 (3. LDC Assumptions and Data) Capital Investment Year 2 (3. LDC Assumptions and Data)	Þ	-	\$	10,000	
Closing Capital Investment	\$		\$	10,000	=
Closing Capital Investment	Ψ		Ψ	10,000	-
Opening Accumulated Amortization	\$	-	\$	-	-
Amortization Year 1 (3 Years Straight Line)	\$	-	\$	-	_
Amortization Year 2 (3 Years Straight Line)			\$	1,667	_
Closing Accumulated Amortization	\$	-	\$	1,667	=
Opening Net Fixed Assets	\$		\$		=
Closing Net Fixed Assets	\$	<del>-</del>	<u>Ψ</u>		5. PILs
Average Net Fixed Assets	\$		\$ \$		_5. PILS 4. Smart Meter Rate Calc
	Ψ		Ψ	7,107	Gart Wold Nato Gale



# 2007 EDR SMART METER RATE CALCULATION MODEL Kenora Hydro Electric Corporation Ltd.

EB-2007-0547

Friday, February 09, 2007

Sheet 6. SM Avg Net Fixed Assets &UCC

# For PILs Calculation

### **UCC - Smart Meters**

CCA Class 47 (8%)		2006		2007	
Opening UCC	\$	-	\$	-	
Capital Additions	\$	-	\$	100,000	
UCC Before Half Year Rule	\$	-	\$	100,000	
Half Year Rule (1/2 Additions - Disposals)	\$	-	\$	50,000	
Reduced UCC	\$	-	\$	50,000	
CCA Rate Class 47		8% 8%			
CCA	\$	-	\$	4,000	5. PILs
Closing UCC	\$	-	\$	96,000	

## **UCC - Computer Equipment**

CCA Class 45 (	45%)

Opening UCC				
Capital Additions Hardware				
Capital Additions Software				
UCC Before Half Year Rule				
Half Year Rule (1/2 Additions - Disposals)				
Reduced UCC				
CCA Rate Class 45				
CCA				
Closing UCC				

	2006	2007
\$	- \$	-
	- \$	-
\$ \$	- \$	10,000
\$	- \$	10,000
\$	- \$	5,000
\$	- \$	5,000
	45%	45%
\$	- \$	2,250 5. PILs
\$	- \$	7,750