



Monthly Energy Rate  
Jan-10

Rate Class	TEC	45EC	HLSC	PCG & LOC	NEC	NEC Adj	TC	PTC	RComp	IP	RM	CC	Jan-10 Rate (\$/MWh)	Jan-10 Rate (¢/kWh)
Residential	\$14.55	\$49.91	\$1.70	\$0.20	\$0.44	(\$0.00)	\$0.02	\$0.31	\$1.54	\$0.29	\$2.46	\$ 0.00	\$71.42	7.142
Commercial	\$14.32	\$49.12	\$1.70	\$0.20	\$0.44	(\$0.00)	\$0.02	\$0.31	\$1.54	\$0.29	\$2.46	\$ 0.00	\$70.40	7.040
Industrial	\$13.90	\$47.70	\$1.70	\$0.20	\$0.44	(\$0.00)	\$0.02	\$0.32	\$1.54	\$0.29	\$2.46	\$ 0.00	\$68.56	6.856
Farming (Includes REA)	\$14.27	\$48.94	\$1.70	\$0.20	\$0.44	(\$0.00)	\$0.02	\$0.32	\$1.54	\$0.29	\$2.46	\$ 0.00	\$70.17	7.017
Irrigation (Includes REA)	\$14.27	\$48.94	\$1.70	\$0.20	\$0.44	(\$0.00)	\$0.02	\$0.32	\$1.54	\$0.29	\$2.46	\$ 0.00	\$70.17	7.017
Oil & Gas	\$13.79	\$47.35	\$1.70	\$0.20	\$0.44	(\$0.00)	\$0.02	\$0.32	\$1.54	\$0.29	\$2.46	\$ 0.00	\$68.10	6.810
Lighting	\$11.58	\$39.87	\$1.70	\$0.20	\$0.44	(\$0.00)	\$0.02	\$0.31	\$1.54	\$0.29	\$2.46	\$ 0.00	\$58.40	5.840
	<i>Schedule 2</i>	<i>Schedule 2</i>	<i>Schedule 3</i>	<i>Schedule 5</i>	<i>Schedule 5</i>	<i>Schedule 5</i>	<i>Schedule 4</i>	<i>Schedule 4</i>	<i>Schedule 3</i>	<i>Schedule 3</i>	<i>Schedule 3</i>			

**Monthly Energy Rate<sub>rc</sub> = TEC<sub>rc</sub>** *(Schedule 2 (line 10:16))* **+45EC** *(Schedule 2 (line 10:16))* **+ HLSC** *(Schedule 3 (line 2))* **+ PCG&LOC** *(Schedule 5 (line 10))* **+ NEC** *(Schedule 5 (line 16))* **+ NEC Adjustment** *(Schedule 5 (line 23))* **+ TC<sub>rc</sub>** *(Schedule 4 (line 2:8))* **+ PTC<sub>rc</sub>** *(Schedule 4 (line 11:17))* **+ RComp** *(Schedule 3 (line 3))* **+ IP** *(Schedule 3 (line 23))* **+ RM** *(Schedule 3 (line 21))* **+ RM Shortfall** *(Schedule 8 (line 11:17))* **+ CC** *(Schedule 6 (line 13))*

Schedule 2 - Off-Peak and Peak Energy Portfolio Costs by Rate Class  
Jan-10

Line No	Description	Units	TPEC	TOPEC	45PEC	45OPEC	OC
1	Monthly Total Energy Cost	\$	2,204,119	287,909	7,540,345	1,007,394	-
2	Residential	\$	1,103,606	130,842	3,775,463	457,815	0
3	Commercial	\$	440,592	59,005	1,507,276	206,459	0
4	Industrial	\$	100,221	16,697	342,859	58,422	0
5	Farming	\$	539,360	76,830	1,845,164	268,827	0
6	Irrigation	\$	0	0	0	0	0
7	Oil & Gas	\$	16,194	2,948	55,400	10,317	0
8	Lighting	\$	4,146	1,588	14,182	5,555	0

$$\text{Term Volume Energy Cost}_{rc} = [\text{TPEC}_{(Schedule 2 (line 1))} \times \text{RCFPLPr}_{c(Schedule 7 (line 8:14))}] + [\text{TOPEC}_{(Schedule 2 (line 1))} \times \text{RCFOPLP}_{rc(Schedule 7 (line 8:14))}]$$

$$45\text{-Day Energy Cost}_{rc} = [45\text{PEC}_{(Schedule 2 (line 1))} \times \text{RCFPLPr}_{c(Schedule 7 (line 8:14))}] + [45\text{OPEC}_{(Schedule 2 (line 1))} \times \text{RCFOPLP}_{rc(Schedule 7 (line 8:14))}] + \text{OC}_{rc}$$

$$\text{OC}_{rc} = \text{Option Cost} \times \text{LDTLF}_{rc(Schedule 7 (line 15:21))} \div \text{LDTLF}_{(Schedule 7 (line 22))}$$

9	Monthly Total Energy Charge		TEC	45EC
10	Residential	\$/MWh	14.55	49.91
11	Commercial	\$/MWh	14.32	49.12
12	Industrial	\$/MWh	13.90	47.70
13	Farming	\$/MWh	14.27	48.94
14	Irrigation	\$/MWh	14.27	48.94
15	Oil & Gas	\$/MWh	13.79	47.35
16	Lighting	\$/MWh	11.58	39.87

$$\text{Term Energy Charge}_{rc} = (\text{TPEC}_{rc} + \text{TOPEC}_{rc})_{(Schedule 2 (line 2:8))} \div \text{LDMLF}_{rc(Schedule 7 (line 22))}$$

$$45\text{-Day Energy Charge}_{rc} = (45\text{PEC}_{rc} + 45\text{OPEC}_{rc})_{(Schedule 2 (line 2:8))} \div \text{LDMLF}_{rc(Schedule 7 (line 22))}$$

Schedule 3 - Hourly Load Shape Compensation, Risk Compensation, Return Margin and Incentive Payment  
Jan-10

Line No	Description	Units	Jan-10
1	Peak Price Index	\$/MWh	65.48
2	<b>HLSC</b> (reference: Terms of Settlement 1(h))	\$/MWh	<b>1.705</b>
3	<b>Rcomp</b> (reference: Schedule E "Rcomp")	\$/MWh	<b>1.539</b>
4	Risk Compensation (reference: Terms of Settlement 1(h))	\$/MWh	1.602
5	Total Credit Default Risk (calculated with actual trades and Schedule J)	\$	124
6	Credit Default Risk Rate	\$/MWh	0.001
7	RAM Monthly Forecast Costs	\$	(11,117)
8	RAM Monthly Forecast Rate	\$/MWh	(0.064)
9	12 Months of Historical RAM		
10		Dec-08	-
11		Jan-09	-
12		Feb-09	150.00
13		Mar-09	598.24
14		Apr-09	231.60
15		May-09	7,183.81
16		Jun-09	3,871.78
17		Jul-09	678.64
18		Aug-09	125.42
19		Sep-09	(53,842.56)
20		Oct-09	(93,411.04)
		Nov-09	1,013.29
21	<b>RM</b>	\$/MWh	<b>2.46</b>
22	IP	\$	50,000
23	<b>IP Rate</b> (reference: Terms of Settlement 1(k))	\$/MWh	<b>0.289</b>

$$\text{HLSC} = [\$1.59 + ((\text{Max}(\text{Peak Price Index}_{(\text{Schedule 3 (line 1))}, 65.00) - 65.00) \times 0.05)] \times \text{LDTLF}_{(\text{Schedule 7 (line 22)})} \div \text{LDMLF}_{(\text{Schedule 7 (line 22)})}$$

$$\text{Risk Compensation} = [\$1.50 + ((\text{Max}(\text{Peak Price Index}_{(\text{Schedule 3 (line 1))}, 65.00) - 65.00) \times 0.035)] \times \text{LDTLF}_{(\text{Schedule 7 (line 22)})} \div \text{LDMLF}_{(\text{Schedule 7 (line 22)})}$$

$$\text{RCOMP} = \text{Risk Compensation}_{(\text{Schedule 3 (line 4)})} + \text{Credit Default Risk}_{(\text{Schedule 3 (line 6)})} + \text{RAM Monthly Forecast Rate}_{(\text{Schedule 3 (line 8)})}$$

Schedule 4 - Transaction Costs and Pool Trading Charges by Rate Class  
Jan-10

Line No	Description	Units	Jan-10
1	<b>Transaction Costs</b> (reference: Schedule A "Transaction Costs")	(\$)	2,728
2	Residential	\$/MWh	0.016
3	Commercial	\$/MWh	0.016
4	Industrial	\$/MWh	0.016
5	Farming	\$/MWh	0.016
6	Irrigation	\$/MWh	0.016
7	Oil & Gas	\$/MWh	0.016
8	Lighting	\$/MWh	0.016
9	$TC_{rc} = \{ TC_{(Schedule\ 4\ (line\ 1))} \times ( LDTLF_{rc\ (Schedule\ 7\ (line\ 15:21))} \div LDTLF_{(Schedule\ 7\ (line\ 22))} ) \} \div LDMLF_{rc\ (Schedule\ 7\ (line\ 15:21))}$		
10	<b>Pool Trading Charges</b> (reference: Schedule E "PTC")	\$/MWh	0.298
11	Residential	\$/MWh	0.314
12	Commercial	\$/MWh	0.315
13	Industrial	\$/MWh	0.316
14	Farming	\$/MWh	0.316
15	Irrigation	\$/MWh	0.316
16	Oil & Gas	\$/MWh	0.319
17	Lighting	\$/MWh	0.314
18	$PTC_{rc} = PTC_{(Schedule\ 4\ (line\ 10))} \times ( LDTLF_{rc\ (Schedule\ 7\ (line\ 15:21))} \div LDMLF_{rc\ (Schedule\ 7\ (line\ 15:21))}$		

**Schedule 5 - PCG & LOC Costs, Non-Energy Costs and Non-Energy Cost Adjustment  
Jan-10**

Line No	Description	Units	Jan-10
1	LDMLF <i>(Schedule 7 (line 22))</i>	MWh	173,194
2	PCG & LOC Posted Amount for NGX	\$	10,000,000
3	PCG & LOC Annual Rate <i>(reference: Schedule A "PCG&amp;LOC Costs")</i>		1.000
4	PCG & LOC Costs Monthly for NGX	\$	8,333
5	PCG & LOC Posted Amount for ISO (as per Section 21 of RRO Regulation)	\$	31,300,000
6	PCG & LOC Annual Rate <i>(reference: Schedule A "PCG&amp;LOC Costs")</i>		1.000
7	PCG & LOC Costs Monthly for ISO	\$	26,083
8	PCG & LOC Costs for other Counterparties	\$	-
10	<b>Total PCG &amp; LOC (\$/MWh)</b>	<b>\$/MWh</b>	<b>0.20</b>
11	Non-Energy Costs		
12	Monthly Operating & Capital Costs <i>(reference: Terms of Settlement 1(h))</i>	\$	61,050
13	Monthly Implementation Costs*		10,000
14	Hearing/Negotiation Costs*	\$	4,412
15	Total Non-Energy Costs	\$	75,462
16	<b>Non-Energy Costs Rate (\$/MWh)</b>	<b>\$/MWh</b>	<b>0.44</b>
17	Non-Energy Cost Adjustment		
18	Recovered in past quarter	\$	30,105
19	Actual Costs	\$	29,598
20	Non-Energy Costs Adjustment (under/(over recovery)) line 19-line 20	\$	(508)
21	<b>Non-Energy Cost Adjustment (\$/MWh)</b>	<b>\$/MWh</b>	<b>(0.00)</b>

\*These amounts are subject to deferral accounts

Line 2 - NGX Posted Amount will be updated on a monthly basis

Line 5 - ISO Rules - DERS will be required to post PCG and LOC

Line 8 - DERS to post PCG & LOC for other counterparties as required depending on actual trades

Line 17 - NEC Adjustment will be done quarterly based on filed quarterly costs and actual load (Adjust Implementation Costs and Hearing/Negotiation Costs)

Schedule 6 - Carrying Costs  
Jan-10

Line No	Description	Units	Jan-10
1	Paid Hearing/Negotiation costs	\$	264,692
2	Recovered through Rates	\$	183,079
3	Mid-Month Balance of Hearing/Negotiation Account	\$	81,614
4	Current Working Capital Rate (before Tax) <i>(reference: Schedule A "Carrying Costs")</i>	%	8.58%
5	<b>Monthly Carrying Costs (Hearing/Negotiation Cots)</b>		<b>584</b>
6	Paid Option Premiums	\$	-
7	Option Premiums included in rates	\$	-
8	Carried Option Premiums	\$	-
9	Current Working Capital Rate (before tax)	%	8.58%
10	<b>Monthly Carrying Costs (Option Premiums)</b>		<b>-</b>
11	<b>Total Monthly Carrying Costs</b> <i>(line 5 + line 10)</i>		<b>584</b>
12	<b>LDMLF</b>		<b>173,194</b>
13	<b>Carrying Cost (\$/MWh)</b>		<b>0.003</b>

Note: Working Capital rate includes tax

Schedule 7 - Monthly Forecast Load Data  
Jan-10

Monthly On-Peak and Off-Peak Forecast by rate class

Line No		On-Peak	Off-Peak
1	Residential	67,085	22,258
2	Commercial	26,782	10,038
3	Industrial	6,092	2,840
4	Farming	32,786	13,070
5	Irrigation	-	-
6	Oil & Gas	984	502
7	Lighting	252	270

Monthly On-Peak and Off-Peak share by rate class

		RCFPLP	RCFOPLP
8	Residential	50.1%	45.4%
9	Commercial	20.0%	20.5%
10	Industrial	4.5%	5.8%
11	Farming	24.5%	26.7%
12	Irrigation	0.0%	0.0%
13	Oil & Gas	0.7%	1.0%
14	Lighting	0.2%	0.6%

Total Load forecast and Metered Load Forecast (MWh)

		LFTLF	LDMLF
15	Residential	89,343	84,817
16	Commercial	36,820	34,887
17	Industrial	8,933	8,413
18	Farming	45,856	43,194
19	Irrigation	0	0
20	Oil & Gas	1,486	1,388
21	Lighting	522	495
22	Total	182,959	173,194

**Input Sheet**

**Applicable Month** **Jan-10**

**Monthly On-Peak and Off-Peak Volume by Rate Class (MWh)**

<b>Off-Peak</b>	<b>Jan-10</b>
Sum of Residential	22,258
Sum of Commercial	10,038
Sum of Industrial	2,840
Sum of Farming	13,070
Sum of Irrigation	-
Sum of Oil & Gas	502
Sum of Lighting	270

<b>On-Peak</b>	<b>Jan-10</b>
Sum of Residential	67,085
Sum of Commercial	26,782
Sum of Industrial	6,092
Sum of Farming	32,786
Sum of Irrigation	-
Sum of Oil & Gas	984
Sum of Lighting	252

**LDMLFrc - Excluding Losses and UFE (MWh)**

	<b>Jan-10</b>
Sum of Residential	84,817
Sum of Commercial	34,887
Sum of Industrial	8,413
Sum of Farming	43,194
Sum of Irrigation	-
Sum of Oil & Gas	1,388
Sum of Lighting	495

	<b>MWh</b>	<b>%</b>
<b>Term Volumes (Includes UFE and Losses)</b>	32,984	18.0%
<b>45 Day Volumes (Includes UFE and Losses)</b>	149,975	82.0%

	<b>Jan-10</b>
<b>Term Peak Energy Costs</b>	2,204,119
<b>Term Off-Peak Energy Costs</b>	287,909
<b>45 Peak Energy Costs</b>	7,540,345
<b>45 Off-Peak Energy Costs</b>	1,007,394
	11,039,767

<b>Forecast Costs</b>	<b>Jan-10</b>
NGX PCG & LOC Posted Amount	10,000,000
AESO PCG & LOC Posted Amount	31,300,000
LOC Annual Rate - NGX	0.600
PCG Annual Rate	0.400
LOC Annual Rate	0.600
Monthly Implementation Costs	10,000
Hearing/Negotiation Costs Monthly	4,412
Number of Months in Plan	41.5
Recovered Negotiation Costs for CC	183,079
NEC	61,050
Incentive Payments	50,000
Credit default Risk	124
Transaction Costs	2,728
Pool Trading Charges \$/MWh	0.298
RM	2.460
Peak Price index	65.48

**Historical RAM**

	<b>RAM</b>
Dec-08	-
Jan-09	-
Feb-09	150.00
Mar-09	598.24
Apr-09	231.60
May-09	7,183.81
Jun-09	3,871.78
Jul-09	678.64
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