

- 1    Q.    Re: IC-59: Please provide the assumed barrels, the net efficiency and the  
2           forecast fuel prices used to calculate the table on Page 8 of 10.  
3  
4  
5    A.    Please see the following tables.

**IC 167 NLH**  
**2006 NLH General Rate Application**

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Thermal Unit Generation (GWh)		IC 59 NLH page 3 of 10																		
Thermal Unit*	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
CBPP-COG 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DIESEL 1	0.4	0.5	0.4	0.5	0.5	0.6	1.0	0.9	1.0	1.0	0.8	0.9	1.1	1.0	0.8	0.1	0.2	0.3	0.4	0.5
GASTURGH 1	2.5	2.8	2.8	3.2	4.0	4.7	8.2	7.9	8.5	8.0	6.4	7.8	9.0	8.0	6.8	1.5	1.8	2.6	2.9	3.2
GASTURHL 1	1.0	1.1	1.1	1.3	1.5	1.8	2.9	2.8	3.0	2.9	2.4	2.8	3.1	2.8	2.4	0.5	0.6	0.9	1.0	1.2
GASTURHW 1	2.5	2.8	2.8	3.2	3.9	4.5	7.5	7.3	7.8	7.4	6.0	7.1	8.1	7.4	6.2	1.2	1.5	2.3	2.8	3.3
GASTURMO 1	0.8	0.9	0.9	1.0	1.3	1.5	2.4	2.3	2.4	2.3	1.9	2.2	2.5	2.3	2.0	0.4	0.5	0.7	0.8	0.9
GASTURSP 1	1.8	2.1	2.1	2.4	2.9	3.4	5.3	5.2	5.5	5.2	4.2	5.0	5.7	5.2	4.4	0.9	1.1	1.6	1.8	2.1
GASTURST 1	3.9	4.4	4.4	4.9	6.1	7.0	11.4	11.1	11.9	11.3	9.2	10.8	12.3	11.2	9.5	1.9	2.3	3.5	4.1	4.8
HOLYROOD 1	968.2	985.1	992.2	999.2	1016.9	1029.6	1066.9	1060.8	1060.2	1061.6	1051.9	1056.2	1064.9	1052.2	1050.5	1057.7	1065.7	1079.5	1083.0	1079.5
HOLYROOD 2	419.4	463.2	470.8	506.2	575.0	624.4	786.6	775.1	795.5	777.5	710.0	761.0	804.1	771.5	759.3	797.9	833.5	902.7	924.6	938.8
HOLYROOD 3	67.9	76.6	78.1	85.6	99.4	109.1	139.5	137.1	139.7	136.7	125.4	133.8	142.0	136.9	135.5	143.5	163.2	221.5	259.8	300.0
CCGT_125 200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	36.7	43.5	61.5	72.6	84.7
Grand Total																				

Please note that Hydro does not operate CBPP-COG 1 (Corner Brook Pulp & Paper Co-Gen). This represents the energy purchased from CBPP-COG under a PPA.

Thermal Unit Efficiency (kWh/bbl)																				
Thermal Unit*	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
CBPP-COG 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DIESEL 1	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
GASTURGH 1	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
GASTURHL 1	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
GASTURHW 1	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
GASTURMO 1	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
GASTURSP 1	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
GASTURST 1	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
HOLYROOD 1	637.7	638.6	638.8	639.3	640.1	640.7	642.2	642.1	642.0	642.1	641.5	641.9	642.2	641.7	641.5	641.9	642.3	642.8	642.8	642.8
HOLYROOD 2	616.8	617.7	618.8	620.2	624.3	627.1	633.9	633.5	634.2	632.9	630.4	632.7	634.6	632.8	632.1	634.4	635.9	638.5	639.2	639.7
HOLYROOD 3	616.0	617.1	617.2	618.6	620.7	622.3	626.4	626.1	626.7	625.8	624.8	626.3	627.0	626.1	626.0	627.0	626.4	624.3	622.2	620.3
CCGT_125 200															715.3	709.6	707.5	700.6	697.1	698.3
Grand Total																				

Please note that the efficiency for Holyrood and the CCGT\_125 varies as a function of the operating load.

The efficiency curves used for Holyrood and the CCGT\_125 remained the same throughout the study period.

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<b>Fuel Consumed    ,000 bbl</b>																				
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
CBPP-COG 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DIESEL 1	0.8	0.9	0.8	0.9	1.0	1.1	1.8	1.8	2.0	1.9	1.5	1.8	2.1	1.9	1.6	0.3	0.3	0.6	0.7	0.9
GASTURGH 1	5.3	5.9	6.0	6.7	8.4	9.9	17.2	16.7	18.0	16.9	13.5	16.4	18.9	16.8	14.3	3.2	3.7	5.4	6.1	6.7
GASTURHL 1	2.0	2.3	2.3	2.7	3.2	3.8	6.2	6.0	6.3	6.0	5.0	5.8	6.6	6.0	5.1	1.0	1.2	1.9	2.2	2.6
GASTURHW 1	5.3	6.0	5.9	6.6	8.2	9.5	15.8	15.3	16.4	15.6	12.7	15.0	17.1	15.5	13.2	2.6	3.1	4.9	5.8	6.9
GASTURMO 1	1.7	1.9	1.9	2.2	2.7	3.1	5.0	4.8	5.1	4.9	4.0	4.7	5.3	4.9	4.1	0.8	1.0	1.4	1.7	2.0
GASTURSP 1	3.8	4.4	4.4	5.0	6.2	7.1	11.2	10.9	11.5	11.0	8.9	10.5	12.0	10.9	9.4	2.0	2.3	3.3	3.8	4.4
GASTURST 1	8.1	9.2	9.2	10.4	12.7	14.8	24.1	23.4	25.0	23.8	19.4	22.8	26.0	23.5	20.0	4.0	4.8	7.3	8.7	10.2
HOLYROOD 1	1518.2	1542.6	1553.3	1563.1	1588.6	1607.0	1661.4	1652.2	1651.3	1653.4	1639.6	1645.5	1658.1	1639.7	1637.7	1647.7	1659.3	1679.2	1684.6	1679.2
HOLYROOD 2	680.0	749.8	760.8	816.2	921.0	995.8	1241.0	1223.7	1254.4	1228.5	1126.3	1202.8	1267.1	1219.1	1201.2	1257.7	1310.8	1413.8	1446.6	1467.4
HOLYROOD 3	110.2	124.1	126.6	138.3	160.2	175.3	222.8	219.0	223.0	218.5	200.7	213.7	226.5	218.7	216.5	228.9	260.6	354.7	417.5	483.7
CCGT_125 200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	51.8	61.5	87.7	104.1	121.4
<b>Fuel Price    \$/bbl</b>																				
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
CBPP-COG 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DIESEL 1	82.7	77.2	76.1	75.8	75.8	79.3	82.8	86.3	89.9	93.5	95.5	97.4	99.4	101.5	103.6	105.7	107.9	110.1	112.4	114.7
GASTURGH 1	82.7	77.2	76.1	75.8	75.8	79.3	82.8	86.3	89.9	93.5	95.5	97.4	99.4	101.5	103.6	105.7	107.9	110.1	112.4	114.7
GASTURHL 1	82.7	77.2	76.1	75.8	75.8	79.3	82.8	86.3	89.9	93.5	95.5	97.4	99.4	101.5	103.6	105.7	107.9	110.1	112.4	114.7
GASTURHW 1	82.7	77.2	76.1	75.8	75.8	79.3	82.8	86.3	89.9	93.5	95.5	97.4	99.4	101.5	103.6	105.7	107.9	110.1	112.4	114.7
GASTURMO 1	82.7	77.2	76.1	75.8	75.8	79.3	82.8	86.3	89.9	93.5	95.5	97.4	99.4	101.5	103.6	105.7	107.9	110.1	112.4	114.7
GASTURSP 1	82.7	77.2	76.1	75.8	75.8	79.3	82.8	86.3	89.9	93.5	95.5	97.4	99.4	101.5	103.6	105.7	107.9	110.1	112.4	114.7
GASTURST 1	82.7	77.2	76.1	75.8	75.8	79.3	82.8	86.3	89.9	93.5	95.5	97.4	99.4	101.5	103.6	105.7	107.9	110.1	112.4	114.7
HOLYROOD 1	45.0	45.2	47.5	48.1	48.4	51.6	54.4	57.1	59.8	62.4	63.7	65.0	66.4	67.7	69.1	70.6	72.0	73.5	75.0	76.6
HOLYROOD 2	45.0	45.2	47.5	48.1	48.4	51.6	54.4	57.1	59.8	62.4	63.7	65.0	66.4	67.7	69.1	70.6	72.0	73.5	75.0	76.6
HOLYROOD 3	45.0	45.2	47.5	48.1	48.4	51.6	54.4	57.1	59.8	62.4	63.7	65.0	66.4	67.7	69.1	70.6	72.0	73.5	75.0	76.6
CCGT_125 200	82.7	77.2	76.1	75.8	75.8	79.3	82.8	86.3	89.9	93.5	95.5	97.4	99.4	101.5	103.6	105.7	107.9	110.1	112.4	114.7
<b>Thermal Unit Fuel Cost    \$000</b>																				
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
CBPP-COG 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DIESEL 1	68.6	66.5	63.2	67.4	75.7	87.7	152.4	153.2	175.9	173.1	142.0	173.8	208.6	190.7	164.6	28.8	34.8	65.7	82.0	101.5
GASTURGH 1	437.1	455.9	455.7	508.9	638.1	786.3	1,425.7	1,442.6	1,616.5	1,582.1	1,285.0	1,597.3	1,880.1	1,708.7	1,477.7	337.3	400.0	595.0	687.1	773.8
GASTURHL 1	169.1	179.7	177.5	201.0	246.1	299.9	509.6	514.5	569.2	565.7	475.0	566.6	659.0	604.4	528.9	109.0	130.4	206.0	245.8	293.1
GASTURHW 1	439.9	460.1	450.8	503.9	617.9	753.7	1,304.5	1,318.2	1,476.7	1,460.6	1,211.8	1,459.0	1,704.4	1,577.9	1,362.6	274.2	332.0	540.5	656.7	794.1
GASTURMO 1	137.4	147.2	145.2	163.5	202.6	243.9	413.0	417.6	462.1	460.9	381.6	459.9	529.1	493.9	428.0	89.6	106.7	158.9	189.0	225.2
GASTURSP 1	318.3	340.2	337.8	382.7	467.0	559.4	924.8	942.6	1,034.7	1,032.5	854.3	1,025.0	1,194.5	1,109.3	970.2	206.5	247.7	361.2	428.5	508.9
GASTURST 1	672.6	709.9	701.0	785.9	965.6	1,168.5	1,994.9	2,018.6	2,246.7	2,229.0	1,849.2	2,218.2	2,584.1	2,389.0	2,073.0	428.0	514.9	808.1	974.8	1,170.7
HOLYROOD 1	68,321.8	69,645.8	73,702.9	75,108.7	76,804.8	82,916.0	90,382.6	94,337.1	98,750.1	103,167.3	104,445.0	106,960.9	110,017.9	111,005.6	113,163.1	116,251.8	119,469.9	123,423.9	126,344.1	128,544.2
HOLYROOD 2	30,601.3	33,851.8	36,098.0	39,220.0	44,526.1	51,378.5	67,511.3	69,868.8	75,015.0	76,656.8	71,745.4	78,185.0	84,078.4	82,529.8	83,003.5	88,732.0	94,373.2	103,917.0	108,492.4	112,333.4
HOLYROOD 3	4,959.7	5,601.7	6,004.7	6,647.0	7,745.7	9,043.1	12,119.4	12,503.9	13,335.5	13,634.1	12,781.6	13,887.7	15,026.8	14,805.8	14,960.9	16,149.6	18,763.1	26,072.9	31,314.9	37,025.5
CCGT_125 200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	603.1	5,471.4	6,638.6	9,658.3	11,705.1	13,919.4
Grand Total																				

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