CIMFP Exhibit P-01280



Oct 78/12 Executive Summery 11. 3.5

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b. arrival to here any 1 in percentate dury peop demand percent 1.28 - Lithium for hetteren emoral of installed wind appealing 1/36 - Committee tribinar as backup Increase for Suaw in 2012 1 / maximum / 1319 Cm L 2035 (1.32 ad 137)

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1.40 Interponnected Tisled (MF)
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- 8.37 B 10.78 6 (1.48) (3.58) - 417.438 (a9.0B)

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In Holyrood, is int a least pool of the and does set represent good whiting fractice of this time.

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Critics have argued that natural gas issues were not thoroughly explored. Government retained Ziff Energy of Calgary to review the LNG option (importation of natural gas and Grand Banks pipeline option.

In Wade Locke's presentation at the Harris Center in March 2012 Dr. Locke indicated that for LNG to be viable, gas would have to come in at less than \$5.75 mbtu.

Critics argued that because of the shale gas revolution in the US, cheap natural gas would be available to use at Holyrood and that it would be cheaper than Muskrat Falls. Today shale gas is selling at 3.70 Mcf Henry Hub in the US and has gone as low as \$1.85 in April of this year.

The LNG Option Ziff concludes:

- the Henry Hub price is not the price the province would pay. In fact because of low volume of natural gas required it would be required to pay world prices (approximate natural gas in Europe costs \$9 Mcf and Asia costs \$15 Mcf)
- Added to base Henry Hub price one has to add 15% premium, toll fees and registration costs.
- Locke did not take into account the cost of building regasification facility.
- World gas markets are primarily linked to world oil prices 80-90% of Brent Crude
- Firm contracts would be required to ensure security of supply.
- Delivered to NL at \$18.35 Mcf

- Regasification facility would cost \$800m
- Full LNG Supply cost would be \$27.15 mcf

To help people understand cost and to allow a comparison of apples to apples, Nalcor, using the CPW methodology utilized by MHI in both reports, concluded the following:

Muskrat Falls - \$8.4B Isolated Island - \$10.8B

LNG - \$10.7 - \$11.1B

Pipeline (FPSO) (Bruneau) - \$12.8B Pipeline Standalone - \$15.0B

Shale tied to the volatility of fossil fuels – simply one fuel with another.

On the Grand Banks pipeline option, Ziff concluded that:

- While natural gas is available, there is no viable commercial market to develop and produce the gas
- Companies have looked at this opportunity for a number of years and they have yet to find a commercial solution
- If oil companies in the NL offshore could be making money on natural gas, they'd be producing and selling it now.
- The amount of gas required to generate electricity at Holyrood is small. When you put this up against the high capital and operating costs to develop and produce gas from the Grand Banks, the cost to consumers would be greater

than the costs they currently pay for electricity from Holyrood.

- Delivered gas from the Grand Banks would cost between \$27 Mcf to \$33 Mcf depending on the development option.
- When converted to a CPW equivalent, the costs range from \$12.5 billion to \$15.0 billion. The CPW for Muskrat falls is \$8.4 billion.