## Hydro PPA Details

| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Fermeuse Wind** | Energy GWh | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 |
| 27 MW | Cost (,000s $) | $ 6,312.7 | $ 6,340.5 | $ 6,370.3 | $ 6,399.4 | $ 6,429.2 | $ 6,458.2 | $ 6,486.4 | $ 6,515.2 | $ 6,544.6 | $ 6,574.6 | $ 6,605.1 | $ 6,636.3 | $ 6,668.1 | $ 6,700.6 |
| | $/MWh | $ 74.8 | $ 75.1 | $ 75.5 | $ 75.8 | $ 76.2 | $ 76.5 | $ 76.8 | $ 77.2 | $ 77.5 | $ 77.9 | $ 78.2 | $ 78.6 | $ 79.0 | $ 79.4 |
| **St. Lawrence Wind** | Energy GWh | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 |
| 27 MW | Cost (,000s $) | $ 7,328.8 | $ 7,361.8 | $ 7,397.0 | $ 7,431.5 | $ 7,466.7 | $ 7,501.1 | $ 7,534.5 | $ 7,568.6 | $ 7,603.4 | $ 7,638.9 | $ 7,675.1 | $ 7,712.0 | $ 7,749.6 | $ 7,788.0 |
| | $/MWh | $ 69.9 | $ 70.2 | $ 70.6 | $ 70.9 | $ 71.2 | $ 71.6 | $ 71.9 | $ 72.2 | $ 72.5 | $ 72.9 | $ 73.2 | $ 73.6 | $ 73.9 | $ 74.3 |
| **3rd Wind 2014** | Energy GWh | ***Proposed - Isolated Island Case*** | | | | 24.2 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 |
| 25 MW | Cost (,000s $) | | | | | $ 2,268.0 | $ 8,862.7 | $ 8,898.8 | $ 8,935.5 | $ 8,973.0 | $ 9,011.3 | $ 9,050.3 | $ 9,090.1 | $ 9,130.7 | $ 9,172.1 |
| | $/MWh | | | | | $ 93.6 | $ 101.2 | $ 101.6 | $ 102.0 | $ 102.4 | $ 102.8 | $ 103.3 | $ 103.7 | $ 104.2 | $ 104.7 |
| **Corner Brook Co-Gen** | Energy GWh | 65.3 | 65.3 | 65.5 | 65.3 | 65.3 | 65.3 | 65.5 | 65.3 | 65.3 | 65.3 | 65.5 | 65.3 | 65.3 | 5.5 |
| 15 MW | Cost (,000s $) | $ 7,328.6 | $ 7,434.5 | $ 7,872.6 | $ 8,293.9 | $ 8,504.1 | $ 8,632.1 | $ 8,765.3 | $ 8,997.6 | $ 9,224.3 | $ 9,390.7 | $ 9,504.1 | $ 9,641.3 | $ 9,791.3 | $ 844.3 |
| | $/MWh | $ 112.2 | $ 113.8 | $ 120.2 | $ 127.0 | $ 130.2 | $ 132.2 | $ 133.8 | $ 137.8 | $ 141.2 | $ 143.8 | $ 145.1 | $ 147.6 | $ 149.9 | $ 152.2 |
| **Rattle Brook** | Energy GWh | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| 4 MW | Cost (,000s $) | $ 1,203.0 | $ 1,218.6 | $ 1,235.2 | $ 1,251.5 | $ 1,268.1 | $ 1,284.4 | $ 1,300.2 | $ 1,316.3 | $ 1,332.7 | $ 1,349.5 | $ 1,366.5 | $ 1,384.0 | $ 1,401.8 | $ 1,419.9 |
| | $/MWh | $ 82.9 | $ 84.0 | $ 85.1 | $ 86.3 | $ 87.4 | $ 88.5 | $ 89.6 | $ 90.7 | $ 91.8 | $ 93.0 | $ 94.2 | $ 95.4 | $ 96.6 | $ 97.9 |
| **Star Lake** | Energy GWh | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 |
| 15 MW | Cost (,000s $) | $10,748.0 | $10,887.4 | $11,036.2 | $11,181.9 | $11,330.8 | $11,476.1 | $11,617.4 | $11,761.4 | $11,908.4 | $12,058.3 | $12,211.2 | $12,367.1 | $12,526.2 | $12,688.4 |
| | $/MWh | $ 74.4 | $ 75.4 | $ 76.4 | $ 77.4 | $ 78.4 | $ 79.4 | $ 80.4 | $ 81.4 | $ 82.4 | $ 83.5 | $ 84.5 | $ 85.6 | $ 86.7 | $ 87.8 |
| **Exploits River Partnership** | Energy GWh | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 |
| 32.3 MW | Cost (,000s $) | $10,605.5 | $10,607.5 | $10,609.4 | $10,611.4 | $10,613.4 | $10,615.3 | $10,617.2 | $10,619.1 | $10,621.1 | $10,623.2 | $10,625.3 | $10,627.4 | $10,629.5 | $10,631.7 |
| | $/MWh | $ 77.4 | $ 77.4 | $ 77.4 | $ 77.5 | $ 77.5 | $ 77.5 | $ 77.5 | $ 77.5 | $ 77.5 | $ 77.5 | $ 77.6 | $ 77.6 | $ 77.6 | $ 77.6 |
| **Exploits Generation** | Energy GWh | 470.8 | 470.8 | 476.1 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 |
| 58.5 MW | Cost (,000s $) | $ 9,416.0 | $ 9,416.0 | $ 9,521.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 |
| | $/MWh | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 |

Notes:

1. The Wind PPAs have a BOOT clause that allows transfer of ownership of assets to Hydro at the end of the contract period, at no cost. It is assumed that Hydro would take over the site(s) and refurbish them, if cost-effective. Windfarms are assumed to have a twenty year life.
2. Hydro-power PPAs are assumed to continue indefinitely.
3. Exploits Generation is owned by the Government of Newfoundland and operated by Nalcor. It is assumed that the energy will feed into the Island grid. This PPA is a placeholder, until the negotiations with Abitibi are completed. As the PPA is assumed to be common to both the Isolated Island case and the HVdc case, there is no effect on the CPW difference.

| | | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Fermeuse Wind** | Energy GWh | 84.4 | 84.4 | 84.4 | 84.4 | 61.1 | | | | | | | | | |
| 27 MW | Cost (,000s $) | $ 6,733.6 | $ 6,767.4 | $ 6,801.8 | $ 6,836.9 | $ 5,099.0 | | | | | | | | | |
| | $/MWh | $ 79.8 | $ 80.2 | $ 80.6 | $ 81.0 | $ 83.5 | | | | | | | | | |
| **St. Lawrence Wind** | Energy GWh | 104.8 | 104.8 | 104.8 | 104.8 | 75.8 | | | | | | | | | |
| 27 MW | Cost (,000s $) | $ 7,827.2 | $ 7,867.1 | $ 7,907.9 | $ 7,949.4 | $ 5,928.3 | | | | | | | | | |
| | $/MWh | $ 74.7 | $ 75.1 | $ 75.4 | $ 75.8 | $ 78.2 | | | | | | | | | |
| **3rd Wind 2014** | Energy GWh | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 63.4 | | | |
| 25 MW | Cost (,000s $) | $ 9,214.4 | $ 9,257.4 | $ 9,301.4 | $ 9,346.2 | $ 9,391.9 | $ 9,438.6 | $ 9,486.1 | $ 9,534.6 | $ 9,584.1 | $ 9,634.6 | $ 7,180.1 | | | |
| | $/MWh | $ 105.2 | $ 105.7 | $ 106.2 | $ 106.7 | $ 107.2 | $ 107.7 | $ 108.3 | $ 108.8 | $ 109.4 | $ 110.0 | $ 113.3 | | | |
| **Corner Brook Co-Gen** | Energy GWh | | | | | | | | | | | | | | |
| 15 MW | Cost (,000s $) | | | | | | | | | | | | | | |
| | $/MWh | | | | | | | | | | | | | | |
| **Rattle Brook** | Energy GWh | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| 4 MW | Cost (,000s $) | $ 1,438.4 | $ 1,457.3 | $ 1,476.5 | $ 1,496.1 | $ 1,516.2 | $ 1,536.6 | $ 1,557.4 | $ 1,578.7 | $ 1,600.3 | $ 1,622.5 | $ 1,645.0 | $ 1,668.0 | $ 1,691.5 | $ 1,715.4 |
| | $/MWh | $ 99.1 | $ 100.4 | $ 101.8 | $ 103.1 | $ 104.5 | $ 105.9 | $ 107.3 | $ 108.8 | $ 110.3 | $ 111.8 | $ 113.4 | $ 115.0 | $ 116.6 | $ 118.2 |
| **Star Lake** | Energy GWh | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 |
| 15 MW | Cost (,000s $) | $12,853.9 | $13,022.7 | $13,194.9 | $13,370.5 | $13,549.7 | $13,732.4 | $13,918.8 | $14,108.9 | $14,302.8 | $14,500.6 | $14,702.3 | $14,908.1 | $15,118.0 | $15,332.1 |
| | $/MWh | $ 89.0 | $ 90.2 | $ 91.3 | $ 92.6 | $ 93.8 | $ 95.1 | $ 96.4 | $ 97.7 | $ 99.0 | $ 100.4 | $ 101.8 | $ 103.2 | $ 104.7 | $ 106.1 |
| **Exploits River Partnership** | Energy GWh | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 |
| 32.3 MW | Cost (,000s $) | $10,634.0 | $10,636.3 | $10,638.6 | $10,641.0 | $10,643.5 | $10,645.9 | $10,648.5 | $10,651.1 | $10,653.7 | $10,656.4 | $10,659.1 | $10,661.9 | $10,664.8 | $10,667.7 |
| | $/MWh | $ 77.6 | $ 77.6 | $ 77.7 | $ 77.7 | $ 77.7 | $ 77.7 | $ 77.7 | $ 77.7 | $ 77.8 | $ 77.8 | $ 77.8 | $ 77.8 | $ 77.8 | $ 77.9 |
| **Exploits Generation** | Energy GWh | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 |
| 58.5 MW | Cost (,000s $) | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 |
| | $/MWh | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 |

| | | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Fermeuse Wind** | Energy GWh | | | | | | | | | | | | | | |
| 27 MW | Cost (,000s $) | | | | | | | | | | | | | | |
| | $/MWh | | | | | | | | | | | | | | |
| **St. Lawrence Wind** | Energy GWh | | | | | | | | | | | | | | |
| 27 MW | Cost (,000s $) | | | | | | | | | | | | | | |
| | $/MWh | | | | | | | | | | | | | | |
| **3rd Wind 2014** | Energy GWh | | | | | | | | | | | | | | |
| 25 MW | Cost (,000s $) | | | | | | | | | | | | | | |
| | $/MWh | | | | | | | | | | | | | | |
| **Corner Brook Co-Gen** | Energy GWh | | | | | | | | | | | | | | |
| 15 MW | Cost (,000s $) | | | | | | | | | | | | | | |
| | $/MWh | | | | | | | | | | | | | | |
| **Rattle Brook** | Energy GWh | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| 4 MW | Cost (,000s $) | $ 1,739.8 | $ 1,764.7 | $ 1,790.1 | $ 1,816.0 | $ 1,842.4 | $ 1,869.4 | $ 1,896.9 | $ 1,924.9 | $ 1,953.5 | $ 1,982.7 | $ 2,012.4 | $ 2,042.8 | $ 2,073.7 | $ 2,105.3 |
| | $/MWh | $ 119.9 | $ 121.6 | $ 123.4 | $ 125.2 | $ 127.0 | $ 128.8 | $ 130.7 | $ 132.7 | $ 134.6 | $ 136.6 | $ 138.7 | $ 140.8 | $ 142.9 | $ 145.1 |
| **Star Lake** | Energy GWh | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 |
| 15 MW | Cost (,000s $) | $15,550.4 | $15,773.2 | $16,000.3 | $16,232.1 | $16,468.4 | $16,709.5 | $16,955.5 | $17,206.3 | $17,462.1 | $17,723.1 | $17,989.3 | $18,260.8 | $18,537.8 | $18,820.2 |
| | $/MWh | $ 107.7 | $ 109.2 | $ 110.8 | $ 112.4 | $ 114.0 | $ 115.7 | $ 117.4 | $ 119.1 | $ 120.9 | $ 122.7 | $ 124.5 | $ 126.4 | $ 128.3 | $ 130.3 |
| **Exploits River Partnership** | Energy GWh | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 |
| 32.3 MW | Cost (,000s $) | $10,670.7 | $10,673.7 | $10,676.8 | $10,679.9 | $10,683.2 | $10,686.4 | $10,689.8 | $10,693.2 | $10,696.7 | $10,700.2 | $10,703.8 | $10,707.5 | $10,711.3 | $10,715.1 |
| | $/MWh | $ 77.9 | $ 77.9 | $ 77.9 | $ 78.0 | $ 78.0 | $ 78.0 | $ 78.0 | $ 78.1 | $ 78.1 | $ 78.1 | $ 78.1 | $ 78.2 | $ 78.2 | $ 78.2 |
| **Exploits Generation** | Energy GWh | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 |
| 58.5 MW | Cost (,000s $) | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 |
| | $/MWh | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 |

| | | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Fermeuse Wind** | Energy GWh | | | | | | | | | | | | | | |
| 27 MW | Cost (,000s $) | | | | | | | | | | | | | | |
| | $/MWh | | | | | | | | | | | | | | |
| **St. Lawrence Wind** | Energy GWh | | | | | | | | | | | | | | |
| 27 MW | Cost (,000s $) | | | | | | | | | | | | | | |
| | $/MWh | | | | | | | | | | | | | | |
| **3rd Wind 2014** | Energy GWh | | | | | | | | | | | | | | |
| 25 MW | Cost (,000s $) | | | | | | | | | | | | | | |
| | $/MWh | | | | | | | | | | | | | | |
| **Corner Brook Co-Gen** | Energy GWh | | | | | | | | | | | | | | |
| 15 MW | Cost (,000s $) | | | | | | | | | | | | | | |
| | $/MWh | | | | | | | | | | | | | | |
| **Rattle Brook** | Energy GWh | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| 4 MW | Cost (,000s $) | $ 2,137.5 | $ 2,170.4 | $ 2,203.9 | $ 2,238.0 | $ 2,272.9 | $ 2,308.5 | $ 2,344.7 | $ 2,381.7 | $ 2,419.5 | $ 2,458.0 | $ 2,497.2 | $ 2,537.3 | $ 2,578.1 | $ 2,619.8 |
| | $/MWh | $ 147.3 | $ 149.6 | $ 151.9 | $ 154.2 | $ 156.6 | $ 159.1 | $ 161.6 | $ 164.1 | $ 166.7 | $ 169.4 | $ 172.1 | $ 174.9 | $ 177.7 | $ 180.5 |
| **Star Lake** | Energy GWh | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 |
| 15 MW | Cost (,000s $) | $19,108.4 | $19,402.3 | $19,702.0 | $20,007.8 | $20,319.7 | $20,637.8 | $20,962.3 | $21,293.3 | $21,630.9 | $21,975.2 | $22,326.4 | $22,684.7 | $23,050.1 | $23,422.8 |
| | $/MWh | $ 132.3 | $ 134.3 | $ 136.4 | $ 138.5 | $ 140.7 | $ 142.9 | $ 145.1 | $ 147.4 | $ 149.7 | $ 152.1 | $ 154.6 | $ 157.0 | $ 159.6 | $ 162.2 |
| **Exploits River Partnership** | Energy GWh | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 | 137.0 |
| 32.3 MW | Cost (,000s $) | $10,719.1 | $10,723.1 | $10,727.1 | $10,731.3 | $10,735.5 | $10,739.9 | $10,744.3 | $10,748.8 | $10,753.4 | $10,758.0 | $10,762.8 | $10,767.7 | $10,772.7 | $10,777.7 |
| | $/MWh | $ 78.2 | $ 78.3 | $ 78.3 | $ 78.3 | $ 78.4 | $ 78.4 | $ 78.4 | $ 78.5 | $ 78.5 | $ 78.5 | $ 78.6 | $ 78.6 | $ 78.6 | $ 78.7 |
| **Exploits Generation** | Energy GWh | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 | 479.7 |
| 58.5 MW | Cost (,000s $) | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 | $ 9,593.6 |
| | $/MWh | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 | $ 20.0 |

| | | 2066 | 2067 |
|---|---|---|---|
| **Fermeuse Wind** | Energy GWh | | |
| 27 MW | Cost (,000s $) | | |
| | $/MWh | | |
| **St. Lawrence Wind** | Energy GWh | | |
| 27 MW | Cost (,000s $) | | |
| | $/MWh | | |
| **3rd Wind 2014** | Energy GWh | | |
| 25 MW | Cost (,000s $) | | |
| | $/MWh | | |
| **Corner Brook Co-Gen** | Energy GWh | | |
| 15 MW | Cost (,000s $) | | |
| | $/MWh | | |
| **Rattle Brook** | Energy GWh | 14.5 | 14.5 |
| 4 MW | Cost (,000s $) | $ 2,662.3 | $ 2,705.6 |
| | $/MWh | $ 183.5 | $ 186.5 |
| **Star Lake** | Energy GWh | 144.5 | 144.5 |
| 15 MW | Cost (,000s $) | $23,803.0 | $24,190.8 |
| | $/MWh | $ 164.8 | $ 167.5 |
| **Exploits River Partnership** | Energy GWh | 137.0 | 137.0 |
| 32.3 MW | Cost (,000s $) | $10,782.9 | $10,788.2 |
| | $/MWh | $ 78.7 | $ 78.7 |
| **Exploits Generation** | Energy GWh | 479.7 | 479.7 |
| 58.5 MW | Cost (,000s $) | $ 9,593.6 | $ 9,593.6 |
| | $/MWh | $ 20.0 | $ 20.0 |