

INFORMATION REQUEST RESPONSE

To: Manitoba Public Utilities Board

Date: February 20, 2014

KP File: VA103-449/1-A.55

Needs For Alternatives To – **GAC/KP I-001 a**

1 **SUBJECT: Wind Costs**

2
3 **REFERENCE:** http://www.pub.gov.mb.ca/nfat/knight_pi3sold_report_jan_27_2014.pdf, Page 50

4
5 **PREAMBLE:**

6 "The NFAT assessment could consider a wind energy base cost of \$1,800/kW for a total base cost of \$117
7 million (excluding transmission) for the 65 MW wind energy projects"

8
9 **QUESTION:**

10 Please confirm that the base cost of \$1,800/kW is intended to exclude both interconnection costs and
11 transmission line costs.

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13 **RESPONSE:**

14 The cost of \$1,800/kW excludes transmission line costs and any major transmission system upgrades.

15
16 /bxf

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Needs For Alternatives To – **GAC/KP I-001 b**

1 **SUBJECT: Wind Costs**

2
3 **REFERENCE:** http://www.pub.gov.mb.ca/nfat/knight_pi3sold_report_jan_27_2014.pdf, Page 49

4
5 **PREAMBLE:**

6 "It is apparent that project costs may differ by locality, with the "Interior" region of the US (adjacent to Manitoba)
7 reporting average project costs of approximately \$1760/kW and the lowest overall spread in costs (US DoE,
8 2013). ... On this basis, the expected "base case" capital costs rounded to the nearest \$100/kW would be
9 approximately \$1,800/kW"

10
11 **QUESTION:**

12 Was KP aware that the DoE's average project cost of \$1,760/kW included "substation and/or interconnection
13 expenses" (DoE, p. 34)? If so, how does KP reconcile its estimate of \$1,800/kW (excluding transmission) with
14 the DoE's average project cost of \$1,760 (including transmission substation/interconnection)?

15
16 **RESPONSE:**

17 We are aware that the DoE report suggests that substation and/or interconnection expenses are included, but it
18 does not appear that transmission costs and major transmission system upgrades have been included in this
19 cost. The DoE report further states that "*emphasis should be placed on overall trends in the data rather than on*
20 *individual project-level estimates*". It is for this reason that KP used the recent cost trend applied to the more
21 detailed MH cost estimate as the first basis for their opinion, and used the DoE report's cost of \$1,760/kW for the
22 interior region only as a means to corroborate the cost estimate of \$1,800/kW.

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24 /mgp1