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Wind X Update March 2, 2020

A. <u>Background</u>

This is MidAmerican Energy Company's ("MidAmerican") status update for the Iowa Utilities Board ("Board") in response to the Board's August 21, 2015 Order Approving Settlement with Modification, and Requiring Reports, issued in Docket No. RPU-2015-0002. This document is offered in fulfillment of the requirements established in the said Board order. Pursuant to the Board's April 19, 2019 Order Consolidating Semi-Annual Reports, the updates for the Wind VIII through Wind XII projects, and the Repowering project, are now filed in Docket No. 2018-0003.

B. Status for Wind X Iowa Project (Docket No. RPU-2015-0002)

The Wind X facilities have been installed at two sites: the 250.3 MW O'Brien County site, in O'Brien County, which includes 104 turbines, and the 301 MW Ida Grove site, in Ida County, which includes 134 turbines, for a total of 551.3 MW. Through December 31, 2019, expenditures on Wind X totaled \$851.0 million. Based on costs to date, the per kW cost of the Wind X Iowa Project are approximately \$1,544/kW, as compared to MidAmerican's cost cap of \$1,610/kW.

Actual Operating and Capital Costs of Wind X

Operating costs, through December 31, 2019, totaled **\$** million. (An unredacted copy of this page has been provided pursuant to a Request for Confidential Treatment.)

Operating capital costs associated with Wind X, through December 31, 2019, have been million.

Amount of Accelerated Depreciation on Walter Scott Energy Center, Unit No. 4 (due to retail fuel cost reduction attributable to Wind X)

Through December 31, 2019, the retail fuel cost reduction resulted in accelerated depreciation of \$21.7 million.

Income from PTCs, REC Sales, Capacity Sales, and Net System Benefits Attributable to Wind X

Through December 31, 2019, PTC's generated from Wind X totaled \$44.9 million. There were no REC sales. There were no capacity sales associated with these wind assets, and net system benefits totaled \$30.4 million.

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C. Transmission Studies and Off-site transmission

Please see the transmission related discussion under the Project site updates below.

As stated above, the Wind X facilities were installed at two sites: the approximately 250.3 MW O'Brien County site, in O'Brien County, and the approximately 301 MW Ida Grove site in Ida County.

250.3 MW O'Brien County Site

The O'Brien County site is a wind farm acquired from Highland Wind Energy II LLC, that is interconnected to the 345 kV system at O'Brien substation in O'Brien County.

MISO queue project J285 was studied in the August 2014 West Definitive Planning Phase (DPP) System Impact Study (SIS) which is now complete. MISO's completed transmission study is available at the following MISO link:

https://www.misoenergy.org/planning/generator-interconnection/GI_Studies

Once on the MISO site, select the desired documents.

A Conditional Generation Interconnection Agreement (Conditional GIA) was executed on May 20, 2016.

Operation of the site is guided by the Conditional GIA. Until the identified upgrades and contingent facilities are completed, output may be limited on an annual basis through the MISO Annual ERIS Evaluation or on a quarterly basis through the MISO Quarterly Operating Limit (QOL) review that could reduce output by as much as it's fully requested output. As reported in previous updates, in response to input from stakeholders, including MidAmerican, MISO reviewed its QOL review process. MISO's revised process reduces, but does not eliminate, the possibility of any future limitations at the site while the site is part of the QOL review.

In MISO's Annual ERIS Evaluation, it was determined that 0 MW of the 250 MW (the GIA injection limit) is subject to curtailment in the QOL process for MISO's 2019-2020 planning year (June 1, 2019 through May 31, 2020). To date, this site has not been limited in any of the QOL studies. MISO's forward-looking results of the next two seasons do not show the site being limited.

<u>301 MW Ida Grove Site</u>

The Ida Grove site, located in Ida County, is a wind farm acquired from Ida Grove Wind Energy LLC that is interconnected to the 345 kV system at a new Ida County substation in Ida County.

MISO queue project J411 was studied in the February 2015 West Definitive Planning Phase (DPP) System Impact Study (SIS), and the DPP study is complete. MISO's completed transmission study is available at the following MISO link:

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https://www.misoenergy.org/planning/generator-interconnection/GI_Studies

Once on the MISO site, select the desired documents.

A Conditional GIA was executed on October 13, 2016.

Operation of the site is guided by the Conditional GIA. Until the identified upgrades and contingent facilities are completed, output may be limited on an annual basis through the MISO Annual ERIS Evaluation or on a quarterly basis through the MISO Quarterly Operating Limit (QOL) review that could reduce output by as much as it's fully requested output. As reported in previous updates, in response to input from stakeholders, including MidAmerican, MISO reviewed its QOL review process. MISO's revised process reduces, but does not eliminate, the possibility of any future limitations at the site while the site is part of the QOL review.

In MISO's Annual ERIS Evaluation, it was determined that 0 MW of the 300 MW (the GIA injection limit) is subject to curtailment in the QOL process for MISO's 2019-2020 planning year (June 1, 2019 through May 31, 2020). To date, this site has not been limited in any of the QOL studies. MISO's forward-looking results of the next two seasons do not show the site being limited.

Next Report

MidAmerican's next update is due September 1, 2020.