

Wind Update - Repowering Project March 2, 2020

A. Background

This is MidAmerican Energy Company's ("MidAmerican") status update for the Iowa Utilities Board ("Board") in response to the Board's August 17, 2017 *Order Approving Settlement and Approving Tariff*, issued in Docket No. TF-2017-0294 ("Order"), which Order approved the *Stipulation and Agreement* filed by the parties in the said docket on August 9, 2017 ("Stipulation"). 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. EAC Factor Calculations

Through December 31, 2019, a total of 705 General Electric turbines have been repowered at the Century, Intrepid, Victory, Pomeroy, Charles City, Carroll and Walnut sites. Consistent with the information MidAmerican provided in Docket Nos. TF-2017-0294 and DRU-2017-0002, the GE-S model units are assumed to achieve a 26% increase in capacity factor and the GE-SLE model units are assumed to achieve a 19% increase in capacity factor. Additionally, 52 Siemens turbines have been repowered at the Adair site. (Note: Twenty-four (24) added turbines were repowered by February 2020.) The Siemens units are assumed to achieve a 26.5% increase in capacity factor. Due to the increased capacity factors, for the period January 1, 2019 through December 31, 2019, the repowered turbines generated an estimated additional 426,654 megawatt-hours of energy, above what would have been possible without repowering. This increased energy has resulted in an estimated \$3.0 million reduction in the energy adjustment clause through December 31, 2019. See Exhibit A in support of the capacity factor figures cited above.

C. Application of Repowering Projects to Revenue Sharing

Revenue Sharing for calendar year 2019 is reported in Exhibit B of this update which shows revenue sharing calculations reflecting the effects of including and excluding the financial impacts of the repowering projects. (An unredacted copy of this Exhibit B has been provided pursuant to a Request for Confidential Treatment.)

Next Report

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