

Wind Update - Repowering Project September 1, 2021

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. 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 June 30, 2021, 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, 76 Siemens turbines have been repowered at the Adair site. The Siemens units are assumed to achieve a 26.5% increase in capacity factor. Due to the modeled increased capacity factors, for the period January 1, 2021 through June 30, 2021, the repowered turbines generated an estimated additional 367,058 megawatt-hours of energy, above what would have been possible without repowering, through June 30, 2021. This increased energy has resulted in an estimated \$2.1 million reduction in the energy adjustment clause through June 30, 2021. See Exhibit A in support of the capacity factor figures cited above.

C. Application of Repowering Projects to Revenue Sharing

MidAmerican completes its revenue sharing calculation annually and files it with the Board each February. Therefore, MidAmerican's next revenue sharing calculation will be filed in 2022.

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MidAmerican's next update is due March 1, 2022.