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June 4, 2024

DECISION MEMORANDUM

TO: Council members

FROM: Kevin Smit, Christian Douglass

SUBJECT: Authorization to Contract with Cadeo Group for Energy Efficiency Potential Estimates in the Water Supply and Wastewater Treatment Industries

PROPOSED ACTION:

Council staff are requesting that the Council authorize staff to execute a contract to conduct research and assess the energy efficiency potential in the municipal water supply and wastewater treatment (WSWT) industries in the Pacific Northwest. The contract would be with Cadeo Group in the amount not to exceed \$45,572.

SIGNIFICANCE:

This project will provide energy efficiency potential estimates for the WSWT industries that will be used in the upcoming Ninth Power Plan. The project includes an investigation of methods for estimating the potential, recommending a preferred method, and then developing the energy efficiency measures and potential estimates. These estimates will then be integrated into our industrial sector supply curves for the Ninth Power Plan.

BUDGETARY / ECONOMIC IMPACTS

The cost for the project is not to exceed \$45,572. The proposed costs are reasonable relative to other bids received as well as projects of similar scope. The proposed budget is expected to cross over two fiscal years: \$32,248 in FY2024 (ending September 2024), and \$13,324 in FY2025 (October – December 2024).

BACKGROUND

The methodology currently being used for the WSWT segments was developed for the Sixth Power Plan (circa 2010). Since then, the methodology has remained the same,

but input data were updated for the Seventh and Eighth (2021) Plans. The current methodology is based on electricity consumption per gallon of water flowing through the system. The efficiency estimates are based on optimizing the pumping energy to produce the necessary flow rates. This project will investigate a different method that more closely aligns with how potential is estimated in many of the rest of our sectors and segments, using a unit-based approach.

The Council staff issued a request for proposals (RFP), formed a committee to review the proposals, reviewed and ranked the proposals received, and ultimately selected Cadeo Group to be recommended for this project. They will subcontract with Cascade Energy, a firm that specializes in performing industrial energy efficiency projects. Their combined experience and expertise are expected to produce the high-quality results needed for the Ninth Plan EE supply curves.