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January 7, 2020

DECISION MEMORANDUM

TO: Council members

FROM: Kevin Smit

SUBJECT: Authorization to enter into a contract with the Cadeo Group to develop supply curves for energy efficient air compressors and motors.

PROPOSED ACTION: Council staff recommends authorization to contract with Cadeo Group for technical support to develop energy efficiency supply curves for air compressors and motors in the Industrial Sector.

SIGNIFICANCE: Motors comprise a significant portion of the Industrial sector energy consumption.

BUDGETARY/ECONOMIC IMPACTS

Total contract budget not to exceed \$35,000.

BACKGROUND

Electric motors are prolific in the industrial sector, accounting for over 70% of the total electricity consumption. Motors are used to drive pumps, fans, air compressors and a myriad of other industrial processes (e.g., conveyance equipment). In 2019, Cadeo Group, in conjunction with NEEA and the RTF developed energy efficiency measures and supply curves for fans and pumps for use in the 2021 Power Plan. The Cadeo Group is uniquely qualified for this because they work directly with the Department of Energy on developing federal standards for motors and motor-driven products and collaborates with Northwest entities such as NEEA to advance motor efficiency. This work scope covers the development of supply curves (EE potential estimates) for the remaining industrial motors (i.e., excluding fans and pumps).

ANALYSIS

This contract will assist staff in developing the 2021 Power Plan.

ALTERNATIVES

One alternative would be to have Council staff conduct the research and develop these supply curves. This would require significant utilization of staff time, and a detailed review of past research and analysis developed by Cadeo (i.e., duplication of effort). Another alternative would be to hire a different contractor through an RFP process. However, the short timeframe (i.e., complete by the end of February) does not allow for this, and a different contractor would have to utilize, or duplicate past results developed by Cadeo.