



COMMISSION FILE NO: 20-059-4 **DATE INTRODUCED:** April 15, 2020

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Policy, Finance, and Personnel Committee

RELATING TO: Amend the 2020 Capital Budget and Create the Project M031049, Energy Plan for MMSD Facilities

SUMMARY:

The Commission is requested to amend the 2020 Capital Budget and create Project M03109, Energy Plan for MMSD Facilities, with a total project cost (TPC) of \$800,000 and to make a corresponding decrease to the TPC of Project M99001, Allowance for Cost and Schedule Changes. A two-thirds affirmative vote of the Commission is required for adoption.

In 2015, the District completed an energy plan with the goal of meeting the District's 2035 Vision. Many recommendations for renewable energy and energy conservation have been implemented or are being pursued, including maximizing digester gas production and use, increasing landfill gas use, implementing advanced controls, installing variable frequency drives, and installing high efficiency lighting.

The 2050 Facilities Plan is being completed, and that plan includes a review of the recommendations of the Energy Plan. The 2050 Facilities Plan analyzed some additional alternatives, including sharing power generation between Jones Island Water Reclamation Facility and South Shore Water Reclamation Facility (SSWRF) and a solar installation at SSWRF.

Various changes have occurred since the 2015 Energy Plan's evaluations were completed, including a new electric rate cost structure, a decrease in the cost of natural gas, a reinvigorated national conversation around carbon sequestration, and the adoption of the United Nations' Sustainable Development Goals (UNSDG). These changes necessitate updating the Energy Plan to generate new ideas and reflect the new conditions. This plan will expand upon addressing the UNSDG by increasing the share of renewable energy (Goal 7.2), increasing energy efficiency (Goal 7.3), and improving sustainability (Goal 9.4).

ATTACHMENTS: **BACKGROUND** **KEY ISSUES** **RESOLUTION**
 FISCAL NOTE **S/W/MBE** **OTHER**

COMMITTEE ACTION: _____ **DATE:** _____

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SUMMARY (Cont'd)

Amend the 2020 Capital Budget and Create the Project M031049 – Energy Plan for MMSD Facilities

The scope of the project generally consists of the following:

- Conducting a planning study to review current energy usage at all District facilities.
- Performing a goal-setting exercise to review the 2035 Vision energy goals with District stakeholders.
- Analyzing alternatives and review existing renewable energy practices.
- Reviewing the cost effectiveness of landfill gas as it relates to the cost of natural gas.
- Reviewing carbon and greenhouse gas emissions as they relate to renewable energy alternatives.
- Reviewing MMSD assets within the water reclamation facilities and conveyance system and the opportunity to convert to a renewable fuel.
- Recommending projects to improve renewable energy use, increase energy efficiency, and improve sustainability.

RESOLUTION

Amend the 2020 Capital Budget and Create the Project M03109 – Energy Plan for
MMSD Facilities

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the 2020 Capital Budget is amended, that Project M03109, Energy Plan for MMSD Facilities, is created with a total project cost of \$800,000, and that a corresponding decrease is made to the total project cost of Project M99001, Allowance for Cost and Schedule Changes.