

# Metro Plant Solids Management Facility Plan



## SUSTAINABLE INCINERATION

**Metropolitan Council Environmental Services (MCES) proposes to continue sustainable incineration at its Metropolitan Wastewater Treatment Plant (Metro Plant).**

### Project Overview


The project includes construction of a fourth incinerator, following renewal of existing incineration facilities. The fourth incinerator includes energy recovery equipment, air pollution control equipment, and related solids processing equipment.

### Project Background

MCES employs the newest environmentally sustainable solids processing methods at the Metro Plant. The process eliminates pathogens, generates energy, and reduces solids disposal. The Metro Plant incineration system continues to have an exceptional track record of environmental compliance.

### Project Need

The Metro Plant needs additional solids processing capacity to:



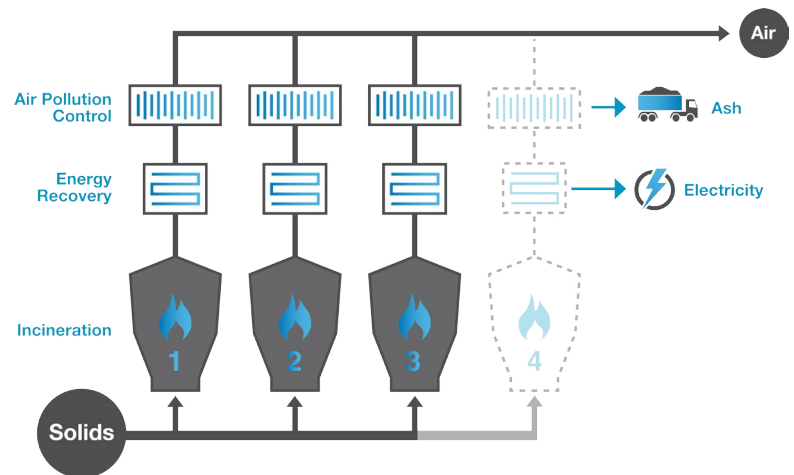
**Preserve Existing Wastewater Treatment Plant Infrastructure**

Planned renewal projects will require extended downtime of the existing incinerators.



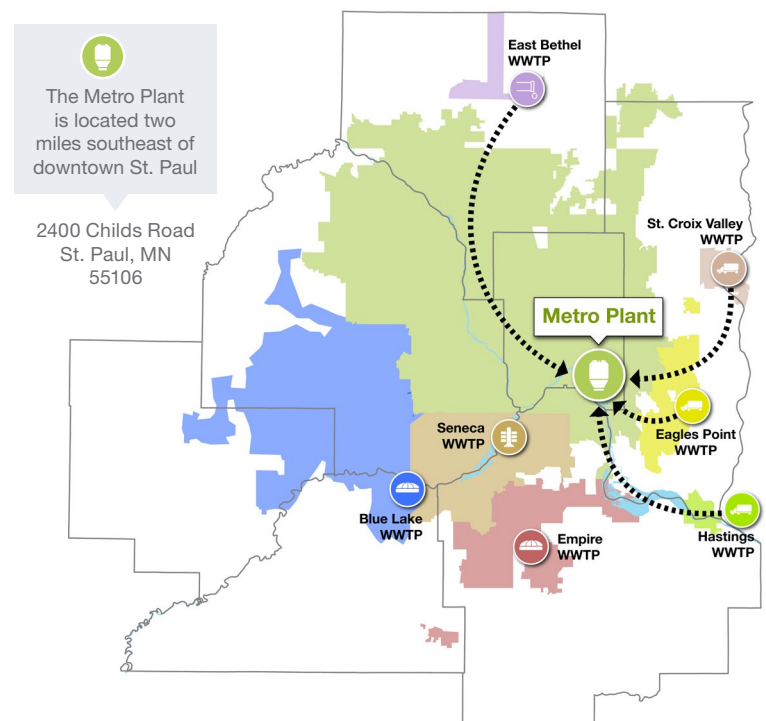
**Serve Regional Population Growth**

500,000 new residents in the Twin Cities Metro Plant service area by 2050.



### PROJECT LOCATION

The Metro Plant treats 180 million gallons of wastewater every day for 66 communities and processes 850 wet tons of solids every day for 73 communities.



## Fourth Incinerator Project Benefits

The fourth incinerator is the most cost-effective and sustainable alternative to meet the region's wastewater needs. It will have the lowest community impact, and will improve the reliability of the wastewater treatment system.



### COST EFFECTIVE

Adding a fourth incinerator costs 50% less to construct, operate, and maintain than any other solids processing alternative.



### LOW GREENHOUSE GASES

Greenhouse gas emissions are similar to other alternatives and insignificant compared to other industries and are offset through energy recovery.



### LOW IMPACT

A fourth incinerator will not generate additional odors or require land acquisition, providing the lowest impact to surrounding communities.



### EXCEPTIONAL AIR QUALITY

The fourth incinerator will meet strict air emission standards, ensuring protection of human health and the environment.



### ENERGY RECOVERY

Incineration recovers enough energy to power 2,400 homes. The energy recovered is used within the plant and saves ratepayers \$2.5 million per year.



### SYSTEM RELIABILITY

The fourth incinerator will allow the Metro Plant to serve as backup to the other MCES facilities, increasing the reliability of the whole MCES system.



## Project Schedule

Planning was initiated in 2015. The fourth incinerator will be constructed by 2024, followed by renewal of existing facilities.

2015



PLANNING

2019



FOURTH  
INCINERATOR  
PERMITTING &  
DESIGN

2021



FOURTH INCINERATOR  
CONSTRUCTION

2024



EXISTING INCINERATORS  
RENEWAL DESIGN &  
CONSTRUCTION

2027

Learn more

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About MCES

Metropolitan Council Environmental Services (MCES) is responsible for protecting public health and the environment through efficient and cost-effective wastewater collection and treatment for the Twin Cities region.

