Working towards MCES' energy goal

A HISTORY OF SUSTAINABILITY PROGRESS











Timeline

MCES is committed to reducing its carbon footprint and saving ratepayers money through the energy component of the Council's wastewater sustainability policy. From 2008 - 2015 alone, MCES its energy purchases by about \$4 million per year through conservation efforts and onsite electrical generation. MCES set a further goal to reduce electrical purchases by 10% between 2015 and 2020. If met, this goal will result in an additional \$1 million annual savings in electrical costs.







Reduce high-energy uses in known areas

Create sustainable policies and programs

Build capital improvements & partnerships

ACTION/PROJECT

ACTION/PROJECT			
2004 2006	Empire Biogas- Based Building and Process Heating Eagles Point Effluent Heat Recovery Eagles Point Effluent Heat Combined Heat and Power Project Metro Fluid Bed Incineration and Combined Heat and Power Project Metro Fluid Bed Incineration And Combined Heat and Power Project	PARTNERSHIP	
2007 2008	MCES sets goal to reduce energy purchases by 15% below 2005 levels by 2010 Metro Enhanced Diffuser Cleaning	Council joins the Climate Registry as a founding member Xcel Partnership Agreement identifies energy savings opportunities	AWARD
2009 2011	Metro Tunnel High Efficiency Fluorescent Lighting Retrofit Metro 408 F&I2 Building begins decommissioning	MCES joins Metropolitan Energy Policy Coalition	★ ⑤ ⑤
2012 2013	Council adopts Environ. Sustainability Policy and Sustainability in Energy Use & Digesters Emissions Procedure Metro Aeration Header Seneca DO Controls Pressure Reduction Controls Metro High Efficiency Fluorescent Lighting Retrofits	University of Minesota JPA - Framework for Collaborating on Energy Research Projects	⇔
2014	MCES completes development of Blue Lake Digester Mixing WAS VFDs Optimization		(3)
2015 2016	Water Resources Policy plan adopted with energy part of sustainability policy Blue Lake Solar Facility Solar F	Council Leads Regional Council joins Community Solar Sustainable Garden Collaboration Growth Coalition	₩ T
2017	MCES-sited Community Solar Gardens at Empire and Blue Lake Controls at Metro Plant		
2018	First Industrial Pretreatment Incentive Program contract executed Empire Influent VFDs MCES-sited Community Solar Garden at Seneca Ash Landfill MetroPremium Efficiency Transformer	Council and Xcel Energy Sign Green Partnership MOU pledging Council to buy 100% renewable electricity from Xcel by 2040	
Current	Biogas Empire High Blue Lake Seneca Seneca Combined Heat Strength Scrubber Scrubber Solids Solids		

AWARDS LEGEND



Xcel Energy Process Efficiency Partnership Award

Bioler Upgrade



Receiving

Gov. Dayton's Continuous Improvement Award for energy savings initiatives

Recovery

Recovery



Improvement

Environmental Initiative's Community in Action Award for solar garden initiative







