Michigan Water Resource Utility of the Future Implementation

Michigan Water Environment Association
2018 Annual Conference
Monday June 25, 2018 9:15 AM

Presented by:
Peter V. Cavagnaro P.E., BCEE, PMP, Johnson Controls
Brian Hannon P.E., Moore & Bruggink
Michigan’s UOTF Initiative

- Overview of Grant & Activities Completed
- Outreach Update
- Effective Utility Management workshop
- MDEQ/MWEA Recognition Program
- Call to Action
Overview of Grant & Activities Completed
Grant Status

- Grant Management
- Recycling Metrics
- Literature Review
- Leadership Summit I
- Summit Recap & Vision
- Recognition Program
- Outreach
- Summit II, EUM Workshop
Work Product Completed to Date

Leadership Summit
Vision Document
Recycling Metrics
Energy Survey & Baseline
Literature Review

Michigan WEA Website
http://www.mi-wea.org/wrrf_grant.php
Outreach Update
WR UOTF Initiative Brochure

Obtain copy at registration desk
WRRF Initiative Documents

Loan copies at registration desk

State of Michigan
Water Resource Utility of the Future Initiative

Work Documents for Tasks 2, 3, and 5

Prepared for
Michigan Department of Environmental Quality
Water Resources Division

By

michigan water environment association
the water quality people

April 15, 2017
Presentations

- MWEA Wastewater Administrators Conference
- MWEA Annual Conference (2017 & 2018)
- Northern Michigan WW Administrators (Marquette, MI)
- AWWA/WEF Utility Management (San Antonio, TX)
- Michigan Rural Water Association
Articles in Matters Magazine
Beyond the Grant

- Collaboration with Universities
  - WRRF Academy
- Collaboration with MRWA
  - Providing modified EUM training
- Collaboration with Technical Schools
  - Bay College
Effective Utility Management Workshop
The Utility of the Future Today
Joint Recognition Program

“While a variety of initiatives exist to promote and acknowledge excellent performance and sustainable management of utilities focused on our sector’s historic priorities – providing reliable, affordable, and responsible water sector services, the most prominent of these is Effective Utility Management (EUM) (www.WaterEUM.org).

... While EUM is not a requirement for recognition under this program, utilities are encouraged to use the EUM framework as they seek to become a Utility of the Future.”
Water EUM Workshop

June 7, 2018

In Partnership with
U.S. EPA
Effective Practices Developed to Address

- Rising costs
- Aging infrastructure
- Increasingly stringent regulatory requirements
- Population growth
- A rapidly changing workforce
The Collaborating Organizations of the Effective Utility Management Initiative

Reference: http://dev.watereum.org/resources/interactive-primer/background/collaborating-organizations/
EFFECTIVE UTILITY MANAGEMENT WORKSHOP
THE ROAD TO SUSTAINABILITY FOR WATER AND WASTEWATER UTILITIES

- Create a new strategic plan or update an existing strategic plan
- Communicate utility needs to board members, local leaders, customers, and other community stakeholders
- Reassess goals and priorities on an annual basis
- Align goals with practices and measures to gauge progress over time
- Establish and deploy cross-departmental teams on improvement efforts
WWW.WaterEUM.org

Reference: http://www.watereum.org/
Task 6
MDEQ/MWEA
WRFF Recognition Program
Recognition Program

• Goals are to recognize efforts taken by MI WRRFs and encourage others
• Recommendations were prepared by MWEA and reviewed with MDEQ
• Key points:
  ▫ Joint MDEQ & MWEA recognition
  ▫ Recognition of efforts
  ▫ Self Nomination
  ▫ Everyone meeting the criteria will be recognized
Criteria

- Municipal utilities that have practiced two or more of the EUM Attributes
- First application will allow for past projects to be recognized
- Complete the application
Schedule

• Apply by September 1, 2018
• Notified by Thanksgiving
• Recognition ceremony in January 2019
“Call to Action“
Call to Action

Establish the Right Culture

“A Utility of the Future Organizational Culture emphasizes a collaborative workplace that...”

Reference: Utility of the Future Today, 2018 Application for Recognition, WEF, NACWA, WateReuse, Water Research Foundation
Call to Action

Establish the Right Culture

“inspires and embraces continual improvement and learning through a high level of employee, community, and stakeholder engagement.”

Reference: Utility of the Future Today, 2018 Application for Recognition, WEF, NACWA, WateReuse, Water Research Foundation
Call to Action

Establish the Right Culture

“Every employee is empowered to creatively problem-solve, allowing innovation to be infused throughout the organization.”

Reference: Utility of the Future Today, 2018 Application for Recognition, WEF, NACWA, WateReuse, Water Research Foundation
Call to Action

Begin by change the name of your facility

- Grand Rapids WRRF
- Linden Plant, Dist #3 WRRF
- GLWA WRRF
- East Lansing WRRF
Call to Action

✓ Use the watereum.org resources
✓ Plan for succession
✓ Offer tours
✓ Get involved in community events
✓ Focus on Operational Efficiency and Production of Energy
✓ Beneficial use of solids
✓ Use Asset Management
✓ Apply for MWEA’s Sustainable Energy Award
Key Take Away’s
Key take away’s ...

• We are coming to the end of the beginning of the WRRF Initiative
• Obtain and use Water EUM Materials
• Apply for the MI WRRF Recognition
• It is all about Culture
• Pick a EUM Element and start working on it