Energy Best Practices Guide: Water & Wastewater
Industry Best Practice Manual

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What is Focus on Energy?

Wisconsin utilities’ statewide program for energy efficiency and renewable energy

- Created in 2001 by Act 141 Wis. Stat. § 196.374(2)(a)
- Funded by rate payers of state’s investor-owned and participating municipal & co-op utilities
- Provides financial and technical support to undertake projects that otherwise would not be implemented.
FOCUS ON ENERGY® empowers the people and businesses of Wisconsin to make smart energy decisions with enduring economic benefits. Since 2001, Wisconsin’s energy efficiency and renewable resource program has stayed true to that mission statement. On behalf of 107 Wisconsin electric and natural gas utilities, Focus on Energy’s information, resources and financial incentives benefit all Wisconsinites by implementing energy efficiency and renewable energy projects that otherwise wouldn’t happen, or in some cases years sooner than scheduled.
Introduction

• The objective of the Best Practice Manual was to provide information and resources to assist the W/WW industry to identify, assess and implement energy efficiency and renewable energy opportunities

• Provide information in a format that anyone can understand

• Developed because research did not identify an existing document to provide similar information

• Utilized as a tool to deliver the program and assist in implementation of the program

• Manual accepted because a committee of consultants, equipment suppliers, regulatory and program representatives were involved—actually a letter from the WDNR urging its use was obtained
Why Energy Efficiency at W/WW

• Water/Wastewater systems need to provide service continuously

• Wastewater treatment systems are generally biological systems thus they operate 8760 hours/year – no time off - vacation – holidays

• Operating 8760 hours compared to a 40 hour work week 2080 hours/year provides: $\frac{8760}{2080} = 4.2$ more time for savings
Why are there EE opportunities

- Facilities sized per codes for twenty year projected flows and loadings
- Capability to meet 20 year projected peak conditions also required
- Redundant equipment required
- Usually assumed all equipment needs to operated
- Priority to meet water quality standards
- Rarely to never see their energy bills
- Not aware of the information on their energy bill
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Questions – Comments - Contact Information

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