



Asking for Efficiency: How to Specify Energy Performance at Water Treatment Facilities

Jess Burgess
Industrial Program Manager
CEE

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Agenda

- ▶ The Consortium for Energy Efficiency
- ▶ Why RFP Guidance?
- ▶ What is in the RFP Guidance
- ▶ Discussion

The Consortium for Energy Efficiency

- ▶ CEE represents 142 member efficiency programs in 40 US states and 7 Canadian provinces.
- ▶ “Simple” Mission: Accelerate the market for energy efficient technologies by increasing program effectiveness



Efficiency Program Offerings

- ▶ Incentives to offset cost of high efficiency equipment & design
- ▶ Funding for audits and process studies
- ▶ Energy expertise

Efficiency programs are giving away money, expertise, audits, project assistance...

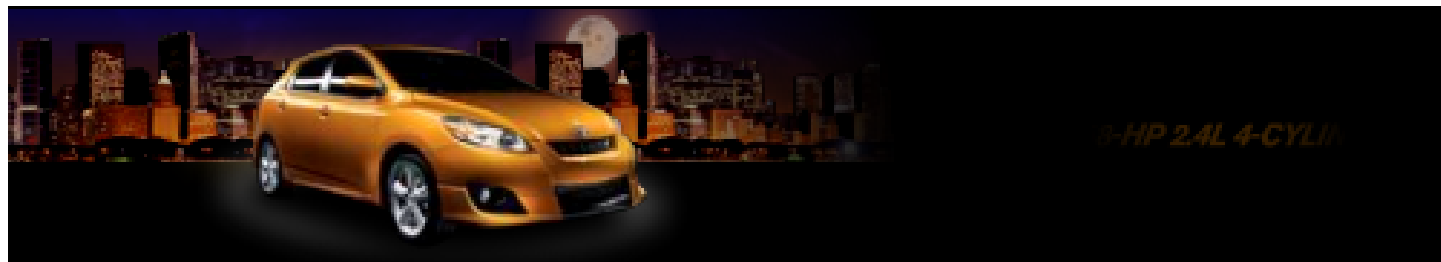
Any NSTAR customers in the room?

The New York Times

N.Y. / Region

WORLD U.S. N.Y. / REGION BUSINESS TECHNOLOGY SCIENCE HEALTH SPORTS OPINION

THE CITY CONNECTICUT LONG ISLAND NEW JERSEY WESTCHESTER



Obscure Fee Pays for Efficient-Energy Projects



*PART OF WHAT WE COLLECT IN THE TRANSITION
CHARGE IS OWNED BY EACH OF BEC FUNDING LLC
AND BEC FUNDING II LLC

Why Do Water Utilities Need Efficiency?


- ▶ Rising energy costs
 - Using more at higher prices
- ▶ Shrinking budgets
- ▶ Emissions requirements
- ▶ Climate Change
- ▶ “Green”: Public image



But how do you ask for energy efficiency?

The Problem: Municipal Bid Process

Hurdles Facing Municipal Utilities

- ▶ Low bid requirement  Race to the bottom
- ▶ Energy performance must be included in specification
- ▶ Shortage of specification expertise

Hurdles Facing Consulting Engineers

- ▶ Lack of consistency

The CEE RFP Guidance: Objectives

- ▶ Improve consistency
- ▶ Help small facilities – raise the baseline
- ▶ Increase awareness of efficiency opportunities
- ▶ Assist communication and knowledge sharing
- ▶ Generate low-cost energy savings

CEE RFP Guidance: Development Process

- ▶ We spent 6 months...
 - ...reading RFP documents
 - ...talking to stakeholders
 - ...making sense of the solicitations process
 - ...stepping on toes



CDM



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VEOLIA
WATER



WOODARD & CURRAN
Engineering • Science • Operations

CEE RFP Guidance: What's Actually In It?

▼ The Guidance includes a recommended form and key concepts for wastewater project RFQ/RFPs, including:

- Sections to include
- Project team qualifications
- Considerations for facility sizing
- Capital vs. Lifecycle cost, methodologies



CEE RFP Guidance: Process focused

- ▶ Process-specific guidance focused on major energy end-users, including: aeration, pumping, solids handling, UV disinfection



Shaped by the Water Industry

- ▶ CEE developed the RFP Guidance document in partnership with the Water Environment Federation
 - Process included review & substantial input from WEF technical committees



Where Is the CEE RFP Guidance Available?

- ▶ Consortium for Energy Efficiency
- ▶ Water Environment Foundation
- ▶ Energy Efficiency Programs:
 - Efficiency Vermont
 - Energy Trust of Oregon
 - Nebraska Public Power
 - NYSERDA
 - ...

Trade Press



Share Your Thoughts (Seriously)

Jess Burgess

Industrial Program Manager

Consortium for Energy Efficiency

617-337-9274

jburgess@cee1.org