



#### Utilities

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### **Commercial Industrial and Institutional (CII) Training Water Efficiency Grant** **50% Progress Report Update**

Since being awarded the water efficiency grant in January Fort Collins Utilities has successfully completed Phase 1 of Task 1. The majority of Phase 2 of Task 1 has also been completed, however due to scheduling challenges the training will take place in August instead of April. This has postponed some of the tasks in Phase 2 of Task 1 outlined in the original grant proposal.

Phase 1 involved outreach to potential participants to raise awareness about the training and gather feedback on topics of interest. Fort Collins Utilities advertised the training through the Rocky Mountain Section AWWA Conservation Committee and Colorado Water Wise. Currently there are 15 participants signed up, representing 13 different entities. In the original grant proposal registration was capped at 14 participants. After discussion with Maddaus Water Management (MWM) Fort Collins Utilities arranged for two instructors, which increased the total number of participants that can attend. Per MWM's recommendation registrations will now be capped at 25 participants. Additional advertising is scheduled to take place in Colorado Water Wise's newsletter and upcoming June meeting to fill the remaining spots.

Registered participants were surveyed to identify training topics. Topics of interest include: HVAC systems, cooling towers, kitchens, submetering, pools, and process equipment. Additionally, participants expressed interest in gaining knowledge about how to benchmark commercial facilities, conduct audits and evaluate efficiency, and work with commercial facilities out of state. This information has been relayed to MWM. MWM has modified and created additional content to address interests of the group.

Phase 2 focused on coordinating logistics with MWM, identifying CII customers for site visits, and gathering and organizing data required by MWM. Initially the training was scheduled to occur in April. MWM's schedule and potential participants' concerns about traveling to a three-day training in April, which is a busy time for staff as they prepare for irrigation season, required the training to be postponed until later in the year. After consulting schedules, the training has been scheduled for August 22<sup>nd</sup> – August 24<sup>th</sup>.

CII customers have been identified and Fort Collins Utilities is in the process of coordinating logistics between CII customers and MWM. Per MWM's advice, participants will visit one site each day. Each day will start at the Fort Collins Utilities 215 N. Mason building. A week before the training MWM will provide a one-hour webinar that covers logistics, site locations, and what will be taking place during the training. MWM will also require participants complete "homework" based on the webinar for the first day of "class." A one-hour webinar will take place after the training to address additional information or questions not covered.

During the three-day training, MWM will review information that is relevant to the site visit for the first hour of each day. This will cover both site-specific information and general information about quantifying efficiency, identifying certain types of equipment, and how to benchmark information. MWM has provided preliminary presentations for each day. Daily presentations will be finalized after the logistics for the customer visits are finalized.

The majority of training time will be spent in the field. Conversations between Fort Collins Utilities, participating customers, and MWM have taken place to identify equipment of interest on each site and set up privacy agreements between customers and participants.

Each site will have a different focus depending on the equipment and processes that take place on the property. After the site visit participants will return to Fort Collins Utilities to review the data and conduct basic analysis. We expect to review the following at each site:

Customer 1:

- Deionized (DI) Water System
- Scrubbers
- Cooling Tower
- HVAC System
- Possibility of reclaim/recycle of DI water

Customer 2:

- Commercial Kitchen
- Cooling Tower
- Sterile Processing
- Commercial Laundry
- Irrigation (if time permits)

Customer 3:

- Swimming Pool
- Extension Facility – Outdoor water use
- Steam autoclaves
- Commercial Kitchen
- Bathrooms (Urinals, Flushvavles, Toilets, Showers)

Each site has been asked to gather information to be shared with the participants and MWM. Fort Collins Utilities has gathered historic use and meter information for each site. This information will be used by participants to benchmark, generate reports, and evaluate efficiency during the training, however two of the customers require confidentiality agreements to share facility information with third parties. Currently Fort Collins Utilities is waiting for agreements from both sites. Coordinating and drafting the necessary agreements has been one of the most challenging aspects of organizing the training. Once privacy agreements have been finalized the information will be shared directly with MWM to finalize materials for the training. Fort Collins Utilities will finalize remaining logistics with participants after privacy agreements have been signed by all participating parties.

Below is a revised timeline for the remainder of the project:

**Task 1 – Training Development, ~~January 2018–March 2018~~, January 2018 – August 2018**

*Phase 1: Complete*

*Phase 2: Complete expect for confidentiality agreements. Once agreements have been provided to Fort Collins Utilities information will be shared among all parties and training logistics can be finalized.*

**Task 2 – Training Execution, ~~April 2018~~ August 22<sup>nd</sup> – 24<sup>th</sup> (revised)**

*Adjusted to August to accommodate MWM and participants' schedules. A 75% progress report will be submitted after the training as been completed.*

**Task 3 – Follow Up & Network Development, ~~November 2018~~ January 2019 (revised)**

*Adjusted to January to provide more time between training and follow-up meeting. A final report will be submitted after the follow up event has taken place.*