

WEBINAR SERIES ASSESSING KEY DELIVERY PRACTICES FOR LARGE C&I PROGRAM SUCCESS

June 24, 2020



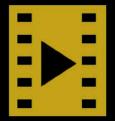
W E B I N A R S E R I E S ASSESSING KEY DELIVERY PRACTICES FOR LARGE C&I PROGRAM SUCCESS



Housekeeping







We will respond to **questions** after the presentation in Q**&**A

You'll get the <mark>slides</mark> via email after the webinar You'll get a recording of the webinar within 24h



WEBINAR SERIES



AMANDA GASSÉ Zondits Content Manager



amanda@zondits.com



https://www.linkedin.com/in/amandagasse/



www.zondits.com





WEBINAR SERIES



RYAN COLLINS PROJECT CONSULTANT II, ERS



rcollins@ers-inc.com



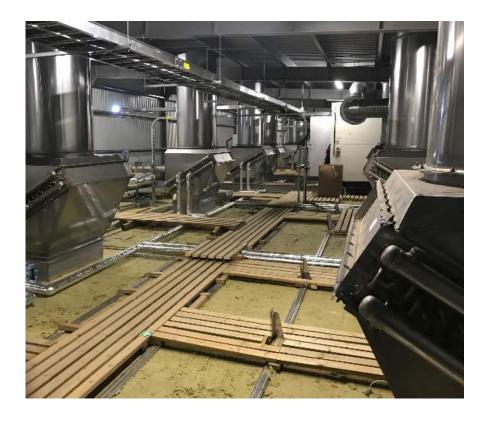
https://www.linkedin.com/in/-ryan-collins/



www.zondits.com



PROGRAM OVERVIEW



Efficiency Maine Trust (EMT) Commercial and Industrial (C&I) Custom Program

Targets Site-Specific Efficiency Projects Requiring Tailored Engineering Analysis

Incentivizes a Diverse Set of Facility Process Improvements & Technologies

FY2019 Annual Savings (Lifetime Costs):

- 5,351,446 kWh (\$0.042/kWh)
- 94,256 MMBtu (\$2.16/MMBtu)

PROGRAM ADMINISTRATOR:



PROGRAM OVERVIEW CONTINUED



Incentive Pathways:

• Electric, Thermal, Distributed Generation

Incentive Structure:

- 50% (Retrofit) / 75% (Lost-Opportunity)
- \$0.28/kWh / \$25.00/MMBtu
- Or Amount to Achieve a 1-Year Payback

Minimum Project Cost, Incentive, and TRC Benefit-Cost Ratio Requirements

Provides Technical Support Via Scoping Audits and Technical Assistance Studies

EFFECTIVELY DELIVERING EFFICIENCY

- A long history of program delivery
- Diverse experience: technologies and facilities
- High impact evaluation realization rates



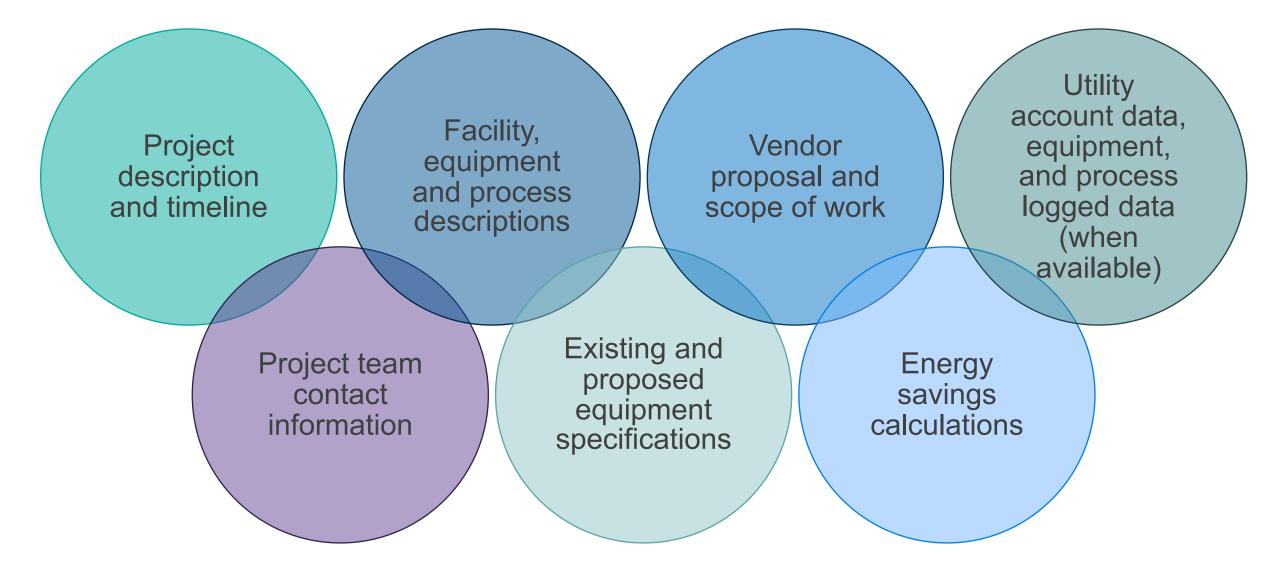
ERS ROLE: PROGRAM DELIVERY TEAM

- Project development and outreach
- Program participant guidance
- Technical assistance and scoping audits
- Project technical analysis
- Project final inspection
- Incentive invoicing
- Project pipeline tracking
- Project database closeout

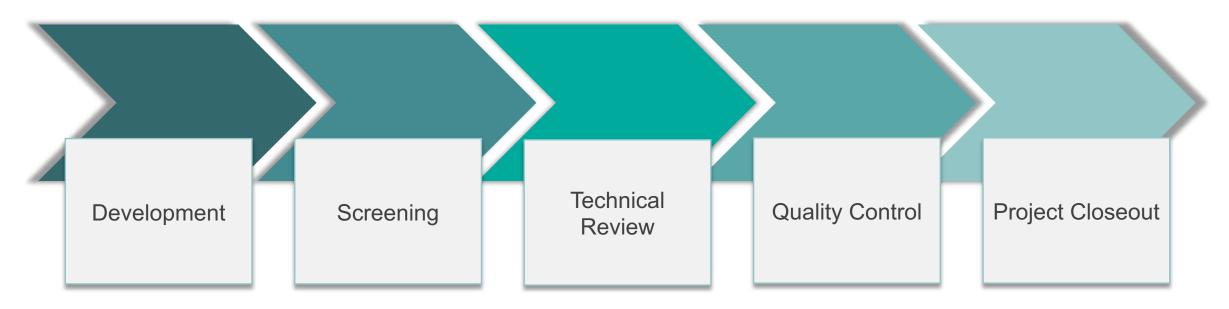




MANAGING A COMPLEX PROCESS



ERS PROGRAM DELIVERY PROCESS



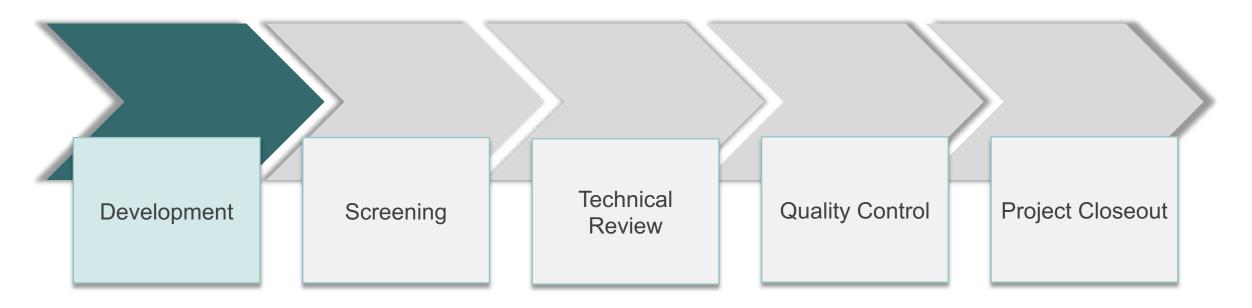
> Emphasis on early engagement and reengagement

> Projects reviewed on a rolling basis

Incentives aimed to overcome capital expenditure barriers



DEVELOPMENT



Key Activities

- Engage or reengage early
- Communicate program requirements
- Establish project timeline
- Request information

Challenges

- Clear project direction or timeline
- Lack of project stakeholders
- Facility capital planning cycles



DEVELOPING PROJECTS TO REDUCE SUPERMARKET REFRIGERATION LOADS

- 1
- 2
- Stakeholder engagement challenges

Many locations, many opportunities

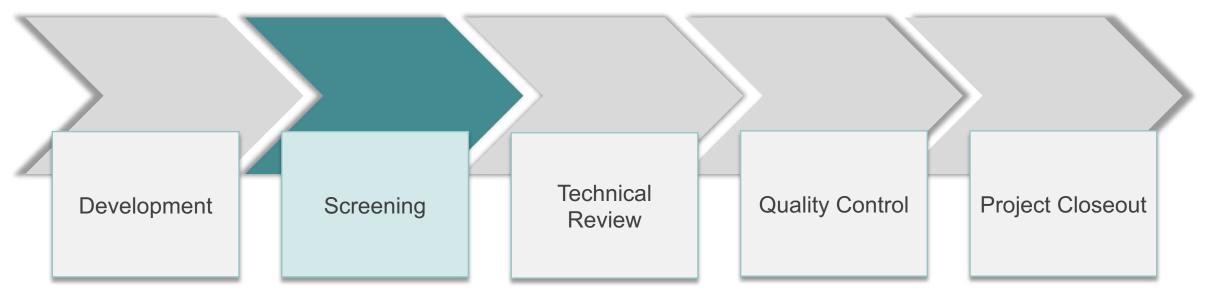
- 3
- Streamlining information exchange
- 4
- Prioritizing conservation measures



Leveraging an applicant's facility portfolio



SCREENING



Key Activities

- Identify undocumented assumptions
- Establish cost-effectiveness potential
- Communicate qualification potential
- Identify the need for scoping audit or technical assistance

Challenges

- Identifying free-ridership
- Validating project feasibility
- Project failing to qualify



SCREENING MEASURES FOR AN ASSISTED LIVING FACILITY





3

4

5

Starting with a scoping audit

Identifying potential measures

Estimating project costs and energy impacts

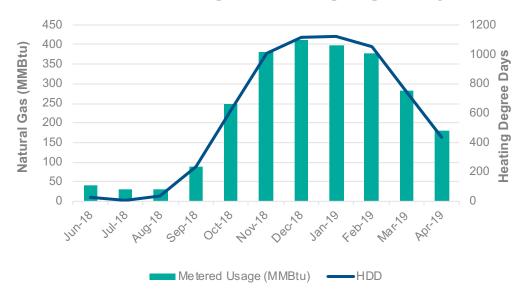
Understanding project feasibility



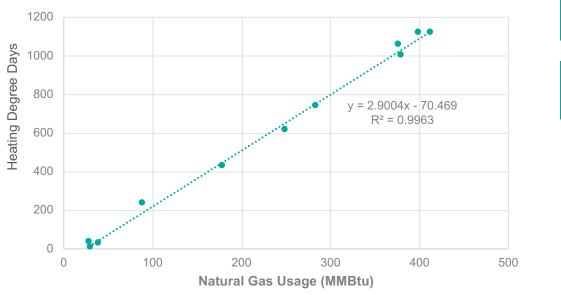




Natural Gas Usage vs. Heating Degree Days



Natural Gas vs. Heating Degree Days



Assisted Living Facility Energy Recovery Ventilation





Surveyed facility and analyzed utility data

Estimated project costs and savings



4

5

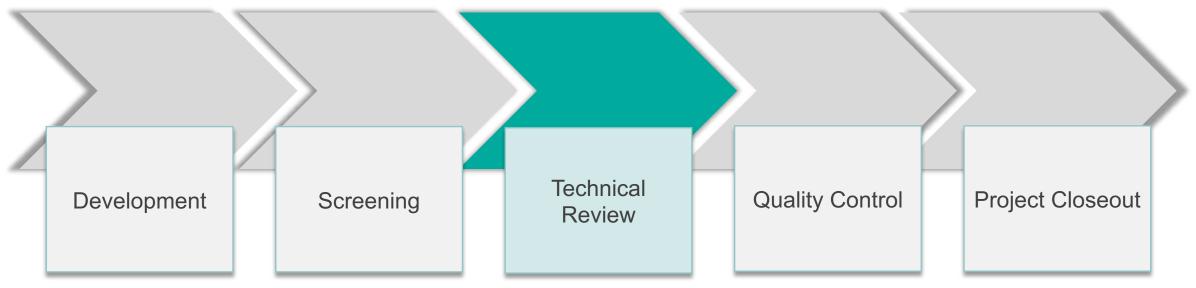
Identified a high-impact, feasible project

Provided guidance on next steps

Planned to follow-up periodically



TECHNICAL REVIEW



Key Activities

- Validate project costs and energy savings
- Document the review methodology
- Link review findings to PA's database

Challenges

- Complexity of measure
- Accurately forecasting energy impacts



MANUFACTURING FACILITY COMPRESSED AIR SYSTEM EXPANSION



2

Project Description

Data collection



4

5

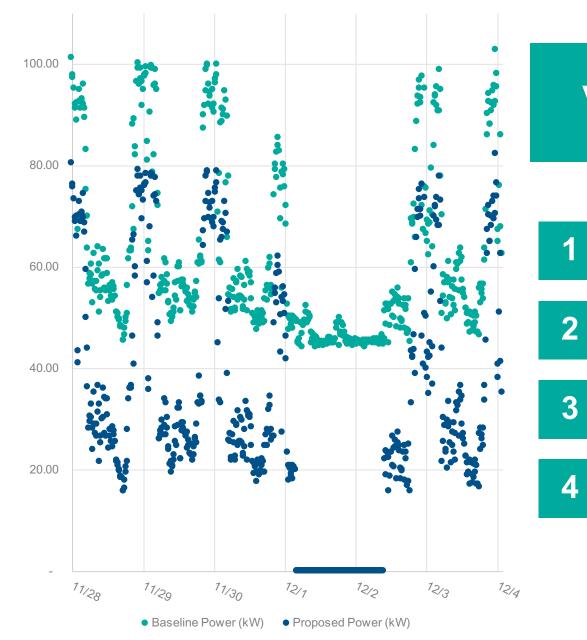
Validating costs and energy impacts

The Total Resource Cost (TRC) test



Documentation and incentive approval





VALIDATING PROJECT IMPACTS

Using flow (CFM) data

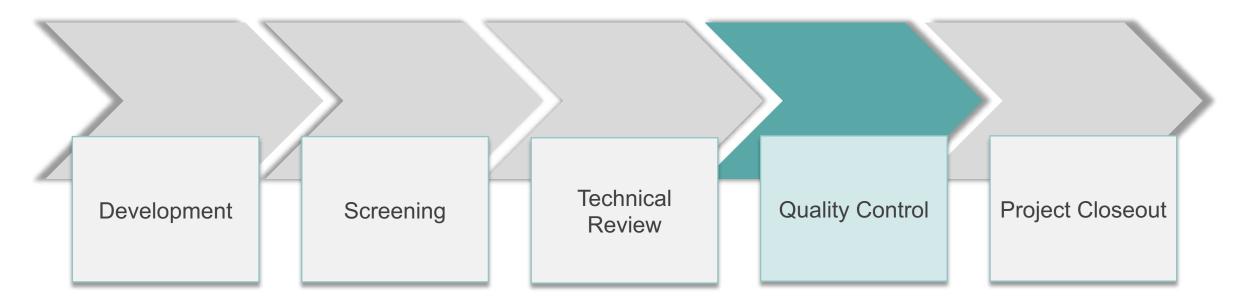
Extrapolating annual impacts

Baseline versus Proposed Performance

Documentation and incentive approval



QUALITY CONTROL



Key Activities

- Complete quality control review
- Incentive review submitted for approval

Challenges

 Rectifying any outstanding discrepancies



HOSPITAL STEAM DISTRIBUTION PIPING INSULATION





Material and temperature inventories

Familiarity with measure and vendor



4

5

Double-checking calculations

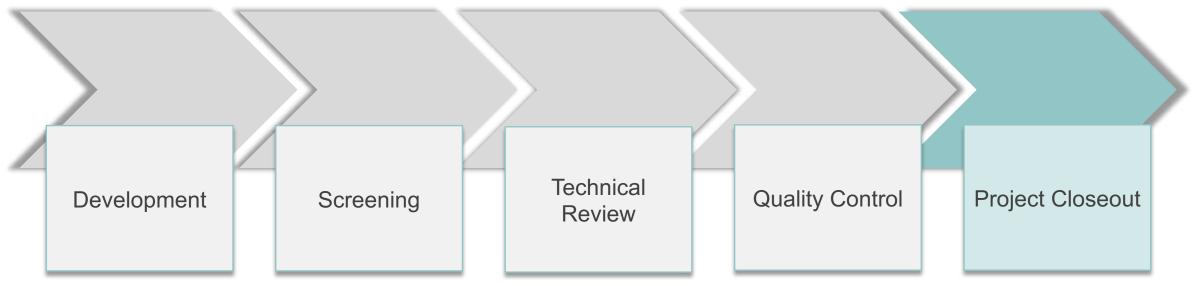
Double-checking data tracking

Incentive approval





PROJECT CLOSEOUT



Key Activities

- Complete final inspection
- Review project invoices
- Incentive invoicing
- Final report and database closeout

Challenges

- Altered scope of work or project timeline
- Re-validating project costs and energy savings







Project background



Site visit



4

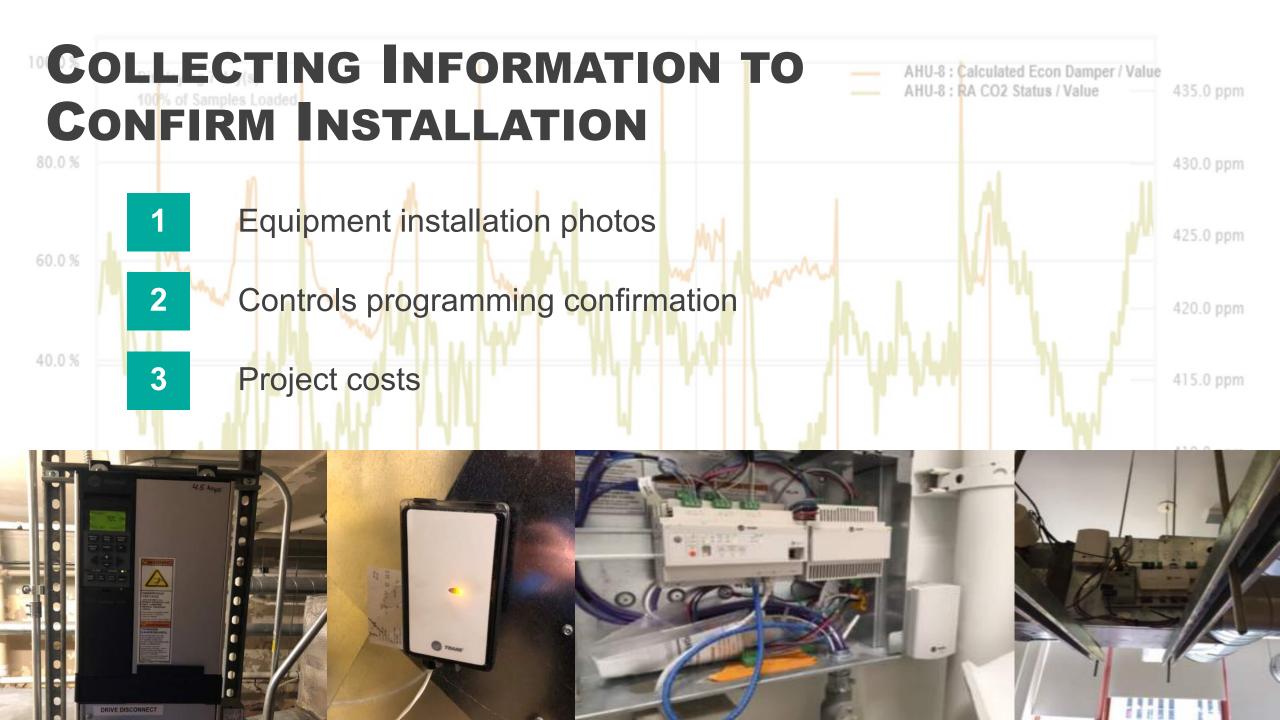
5

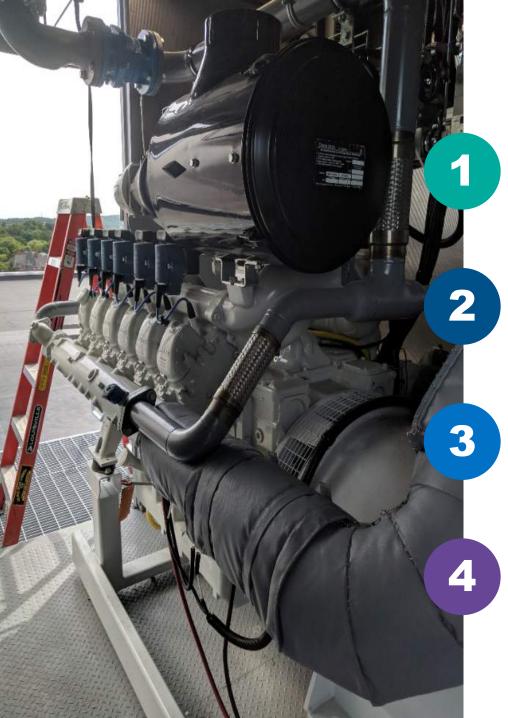
Final inspection report and TRC

Incentive invoicing

Project closeout







DELIVERY CORE PRACTICES

PROJECT DATA TRACKING AND QUALITY CONTROL

Built-in opportunities to ensure data tracking and technical reviews are accurate.

TECHNOLOGY AGNOSTIC

A qualifying project is limited primarily by cost-effectiveness and meeting minimum program requirements.

FOCUSED ON DATA

Leverages operating data, equipment and design specifications, weather data, and project economics to assess energy impacts.

EMPHASIZES LONG-TERM RELATIONSHIPS

Places emphasis on repeat customers, reducing wasted energy and operating costs, and overcoming capital expenditure barriers.





To ask a question:

> Type your question into the Q&A box.

Click Send.



THANK YOU FOR JOINING US TODAY!

Our next webinar series kicks off in August. Join us on August 19th for Part 2 of our indoor agriculture webinar:

HVAC for Controlled Environment Agriculture Register today: https://bit.ly/2B5aOJE