

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

June 24, 2020



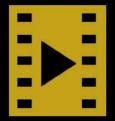
### W E B I N A R S E R I E S ASSESSING KEY DELIVERY PRACTICES FOR LARGE C&I PROGRAM SUCCESS



### 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



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WEBINAR SERIES



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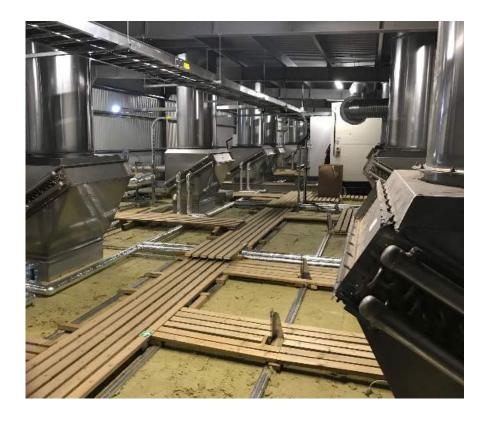
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## **PROGRAM OVERVIEW**



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



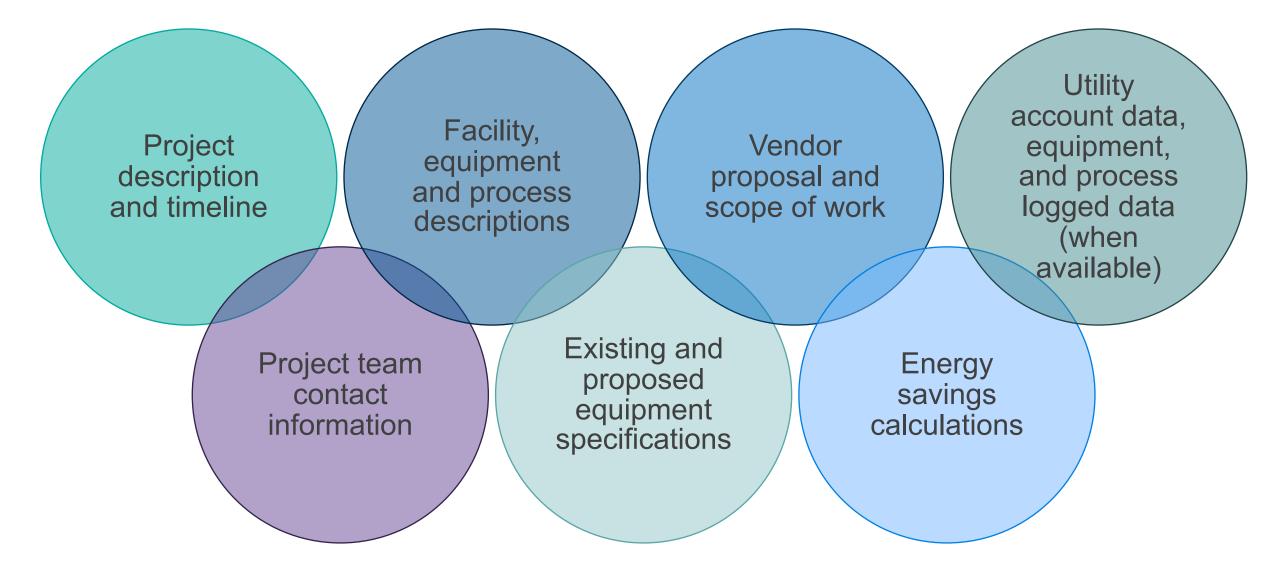
## ERS ROLE: PROGRAM DELIVERY TEAM

- 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

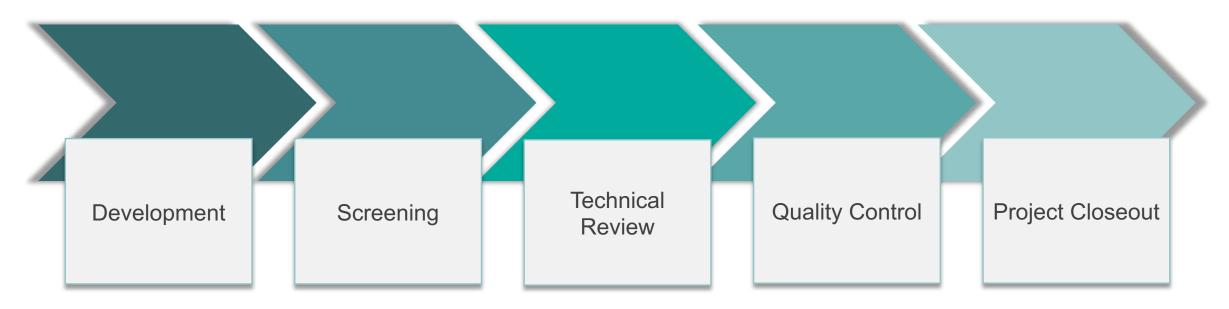




### MANAGING A COMPLEX PROCESS



## **ERS PROGRAM DELIVERY PROCESS**



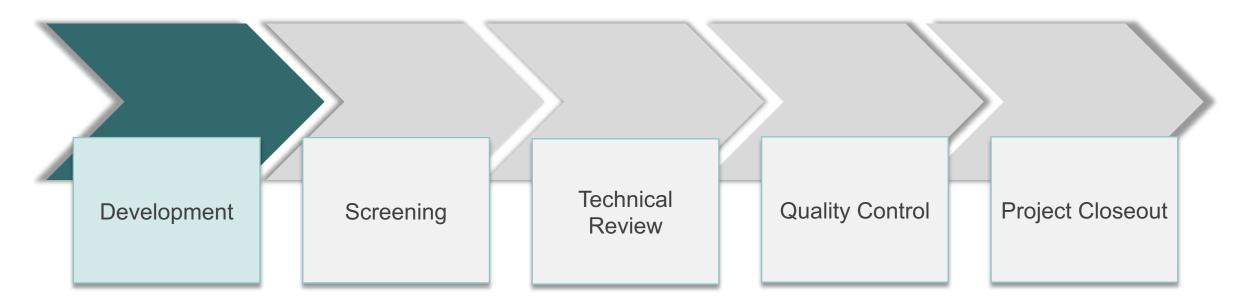
> Emphasis on early engagement and reengagement

> 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

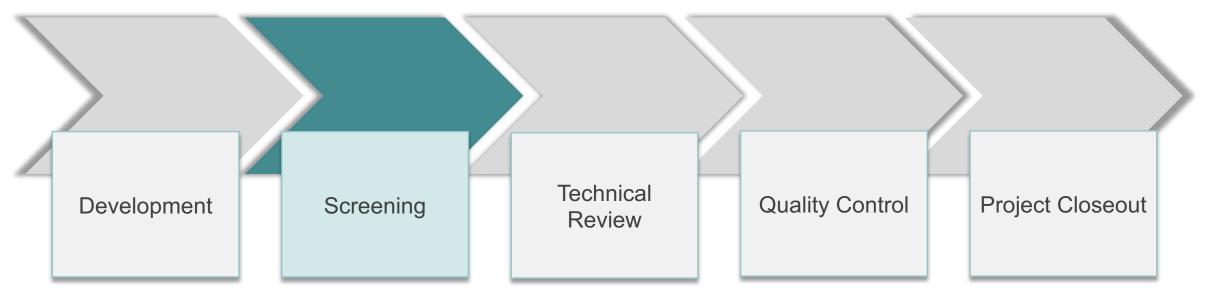
- 3
- Streamlining information exchange
- 4
- Prioritizing conservation measures



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

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Starting with a scoping audit

Identifying potential measures

Estimating project costs and energy impacts

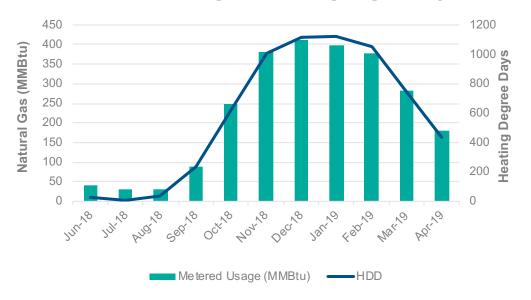
Understanding project feasibility



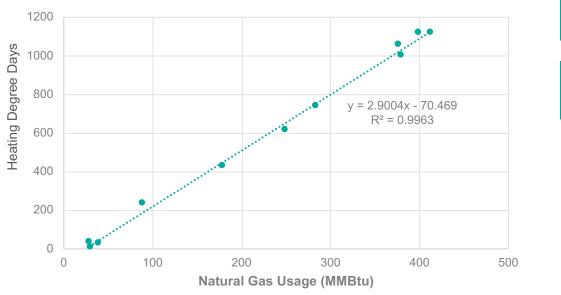




#### Natural Gas Usage vs. Heating Degree Days



Natural Gas vs. Heating Degree Days



### Assisted Living Facility Energy Recovery Ventilation





Surveyed facility and analyzed utility data

Estimated project costs and savings



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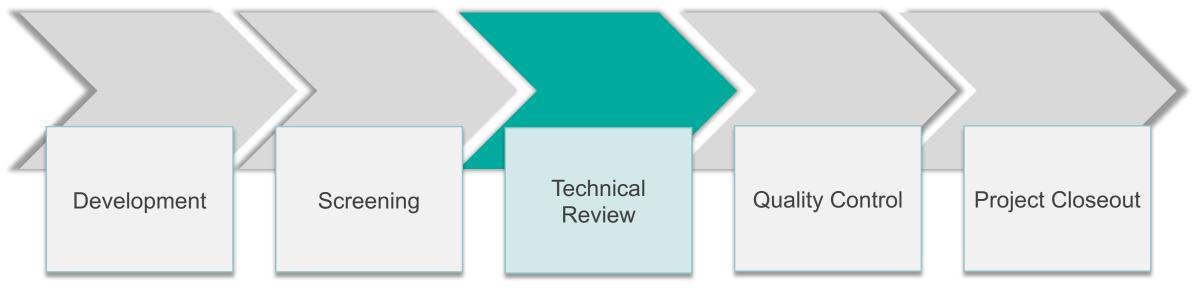
Identified a high-impact, feasible project

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

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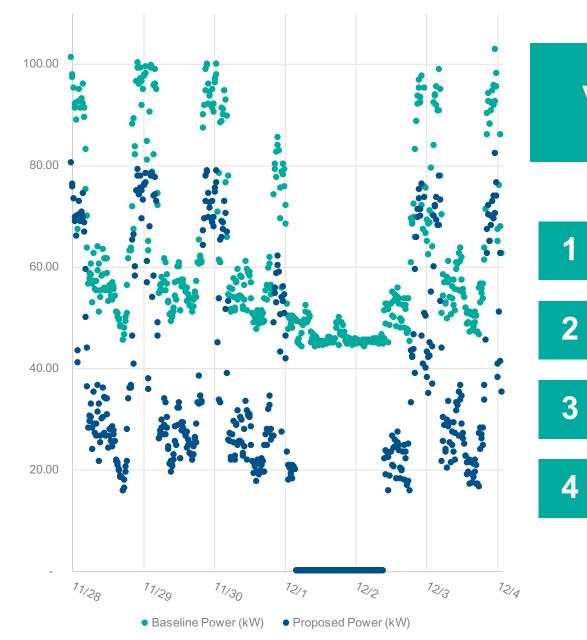
Validating costs and energy impacts

The Total Resource Cost (TRC) test



Documentation and incentive approval





### VALIDATING PROJECT IMPACTS

Using flow (CFM) data

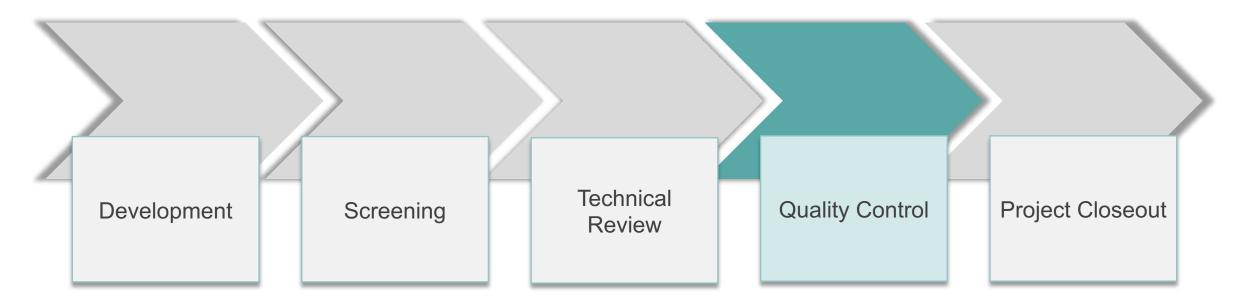
Extrapolating annual impacts

**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



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**Double-checking calculations** 

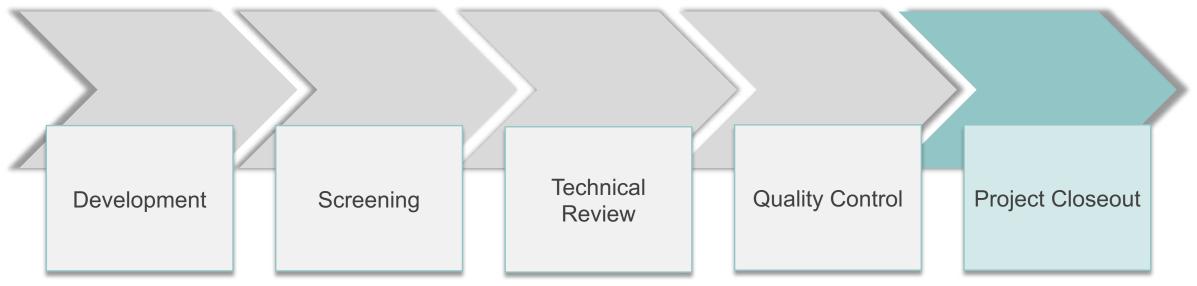
Double-checking data tracking

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



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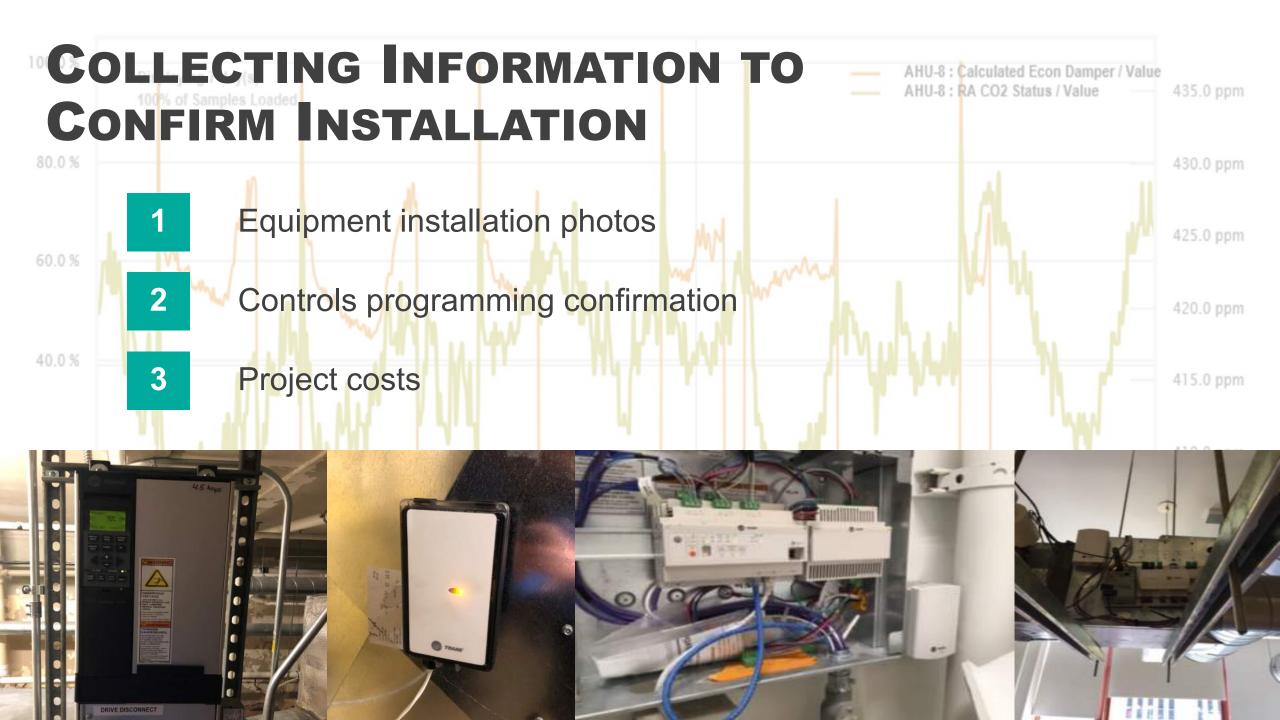
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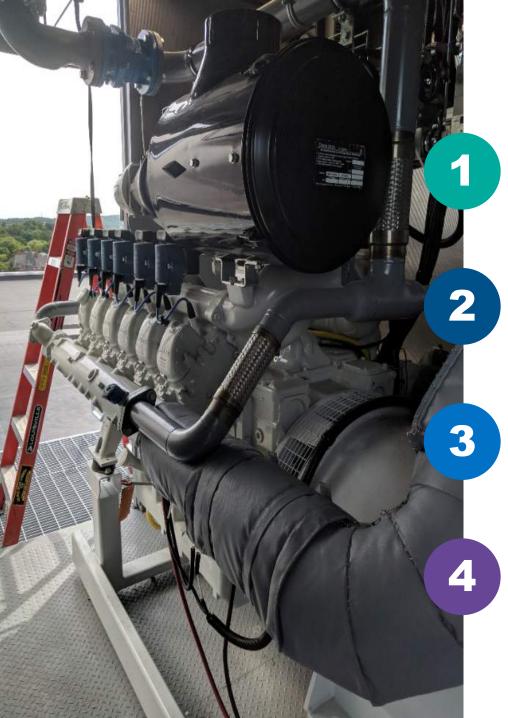
Final inspection report and TRC

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.



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