

CalNEXT Request for Ideas (RFI)

2023 Q1

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Rebecca Rothman, VEIC
Tim Minezaki, Energy Solutions

Presenters



Rebecca Rothman

Senior Consultant
VEIC



Tim Minezaki

Senior Staff Engineer, Policy & Ratings
Energy Solutions

Agenda

1	Introduction & Why RFIs?	5 min
2	RFI 1 – Heat Pump Dryers	5 min
3	RFI 2 – SMART Manufacturing	5 min
4	Review Submission Process	5 min
5	Q&A	10 min

About CalNEXT

CalNEXT's vision is to identify emerging technology trends and bring commercially available technologies to the energy efficiency program portfolio.



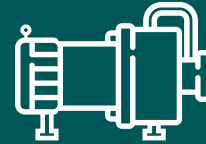
Appliances &
Plug Loads



HVAC



Lighting



Process
Loads



Water
Heating



Whole
Buildings

Poll #1

What Technology Area(s) are you interested in submitting a project idea for?

Please respond to the Zoom poll

Why RFIs?



Portfolio Gaps

- 170 Projects for the life of the program
- 40 to be selected this year



Selecting the Best

- Maximize impact
- Maximize technology transfer
- Maximize budget



Industry Subject Matter Expertise

- Compliment partner team
- Increase industry engagement
- Increase adoption

RFI 1 – Heat Pump Dryers



Plug Loads & Appliances TPM: Decarbonizing Household Appliances

- Heat Pump Dryers is a research focus area under the Decarbonizing Household Appliances technology family of the Plug Loads & Appliances TPM.



Opportunities

- Gas-fired clothes dryers represent the majority in both residential (58%) and commercial (82%) settings in California. Heat pump dryers or other high efficiency electric alternatives represent both a strong decarbonization opportunity and energy savings opportunity.



RFI 1 – Heat Pump Dryers



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Barriers

- While heat pump dryers are prevalent in other markets, they are in a nascent stage in the U.S. Despite the significant savings opportunities, there remains several consumer barriers including electrical capacity, customer acceptance, and retail stocking practices.



RFI 2 – Smart Manufacturing & Controls



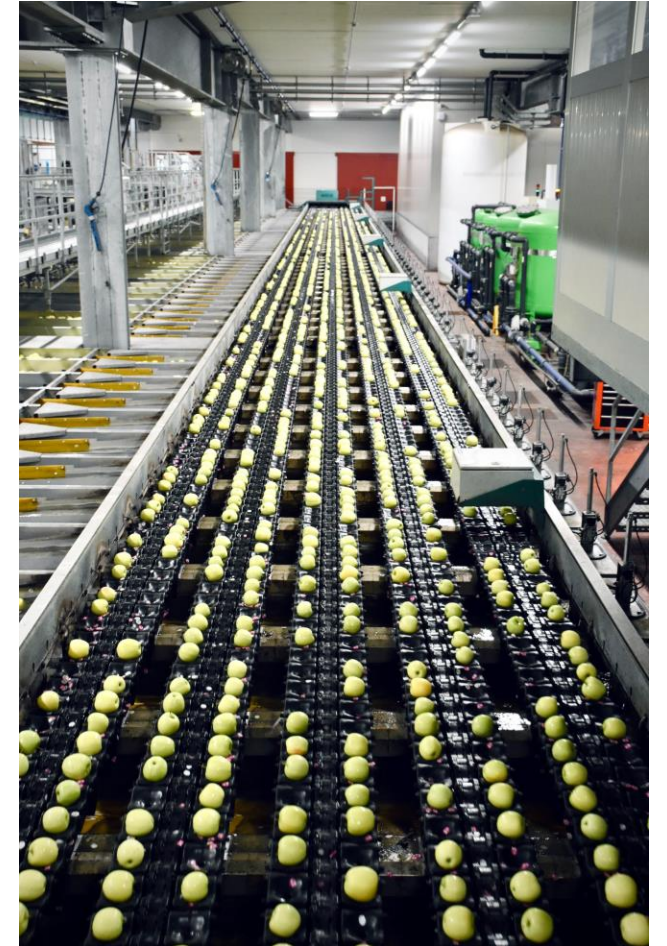
Process Loads TPM: Smart Manufacturing & Controls

- Smart Manufacturing & Controls are a cross-cutting focus area under the Process Loads TPM.



Opportunities

- Most manufacturing facilities have significant energy & cost-savings opportunities. ACEEE estimates between \$7 billion to \$25 billion in savings nationwide by enabling data-driven control and optimization in this sector.
- Federal funding from both the Bipartisan Infrastructure Law and the Inflation Reduction Act will bring multiple programs aimed at modernizing and decarbonizing our industrial sector.



RFI 2 – Smart Manufacturing & Controls



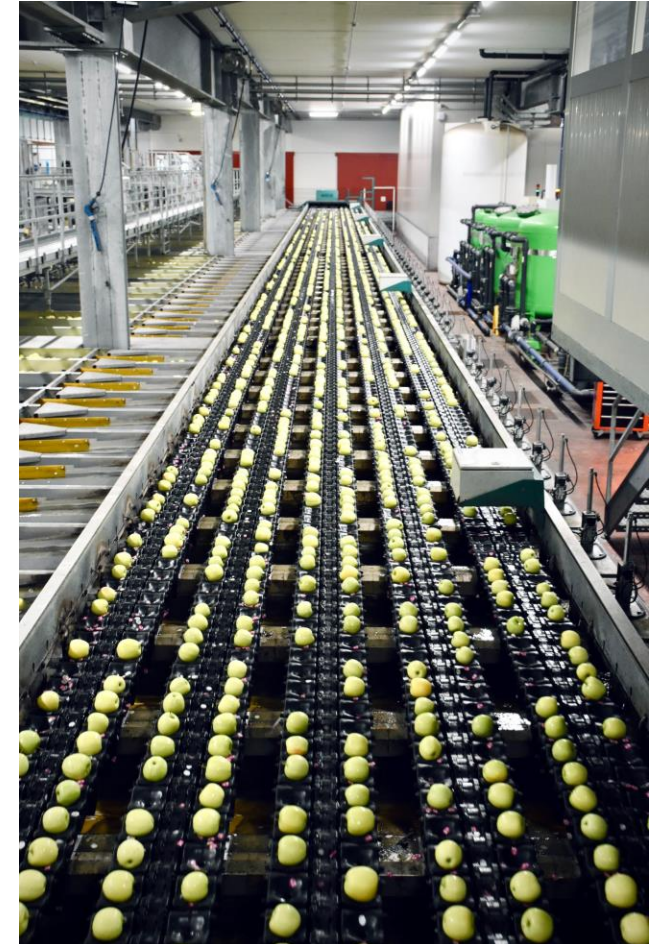
Process Loads TPM: Smart Manufacturing & Controls

- Smart Manufacturing & Controls are a cross-cutting focus area under the Process Loads TPM.



Barriers

- Smart Manufacturing is an emerging practice within the industrial sector, with few experienced practitioners.
- Many industrial EE and decarb projects are custom engineered which is a challenge to scale in the market.

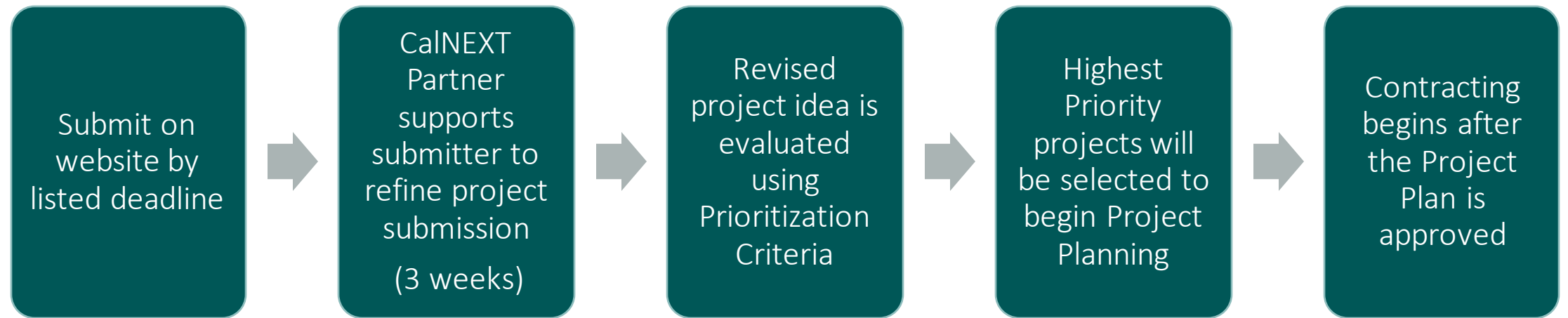


Poll #2

**How likely are you to submit a project or idea
before the February 23, 2023 deadline?**

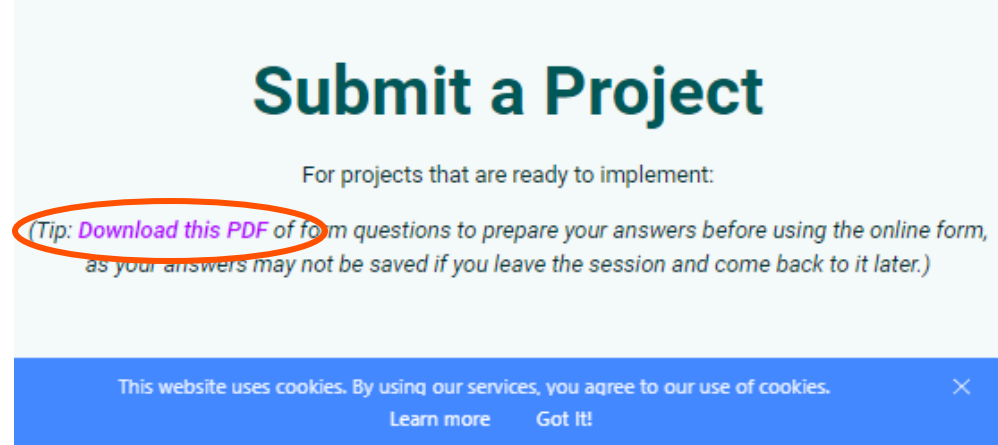
Please respond to the Zoom poll

Project Submission & Selection Process



Project Submission on CalNEXT.com

- Navigate to website
- Download questions
- Develop Answers
- Input answers into webform when you are ready to submit



CalNEXT Project Submission Form

PROJECT TEAM INFORMATION

1. Submission Date *

2. Project Name *

3. Company or Organization Name *

4. Contact Name *

Prioritization Criteria

Criteria	Weighting	Details
TPM Alignment	15%	How well the project aligns with the CalNEXT TPMs
Technology Transfer	10%	How well will the research support technology inclusion in IOU and non-IOU EE, DR, Decarbonization programs, codes & standards, or market adoption?
Benefits	20%	Whether the project has benefits for the utilities and affects HTR/DACs
Quality of Idea	50%	Clarify of scope, how innovative it is, whether it's ready for implementation, has a clear market strategy, and has a reasonable timeline
Cost	5%	Estimated budget

Poll #3

How did we do?

Please respond to the Zoom poll

Q&A





Thank You!

Rebecca Rothman, VEIC

Tim Minezaki, Energy Solutions

Email us: info@calnext.com

