

# **Goals of Today's Workshop**

- Discuss available and potential future program opportunities for REV Campus Challenge members
- Venue to provide feedback on programs
- Facilitate open and targeted peer-to-peer discussion to support near term clean energy objectives
- Network and have fun!



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# Introduce yourself!

Find someone you don't know and spend a few minutes introducing yourselves. Find out from each other (and report out to the group):

- What is your name and role at your institution?
- What is the name and size of your institution?
- What's your favorite spot on campus and why?
- What was your favorite Earth Day/Week activity at your institution?





# **REV Campus Challenge**

Spring 2018 Update

**Spring 2018 Workshops** 

Contact us!

REVCampusChallenge@nyserda.ny.gov www.nyserda.ny.gov/All-Programs/Programs/REV-Campus-Challenge

# Reforming the Energy Vision (REV): Colleges & Universities

Governor Cuomo's REV initiative to build a cleaner, more resilient, and affordable energy system for all New Yorkers

- NYS colleges and universities are centers of clean energy innovation, leading by example and training the next generation of clean energy leaders
- The REV Campus Challenge aims to help NYS colleges and universities reduce GHG emissions and set and achieve ambitious clean energy goals



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# **Defining Clean Energy**

In the context of REV Campus Challenge, **clean energy** is broadly defined to include:

- Energy efficiency
- Energy conservation
- Renewable energy



# The REV Campus Challenge Mission

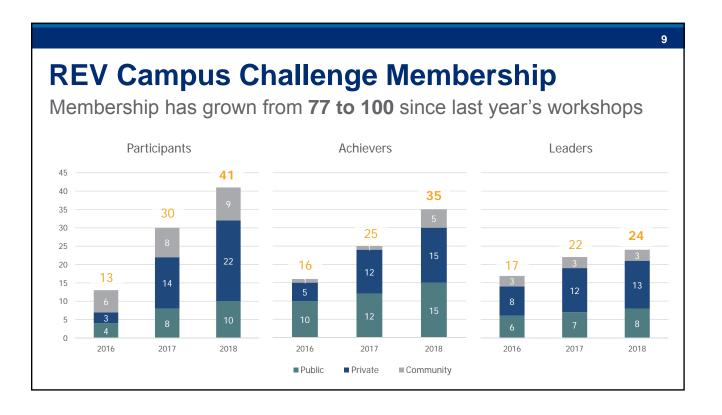
REV Campus Challenge promotes clean energy efforts by recognizing and supporting C&Us in NYS that:

- Invest in clean energy and GHG reductions
- Educate by integrating clean energy into the curriculum and supporting cleantech R&D
- Engage the campus and off-campus communities to promote clean energy and sustainability

On campus, in the classroom, in the community



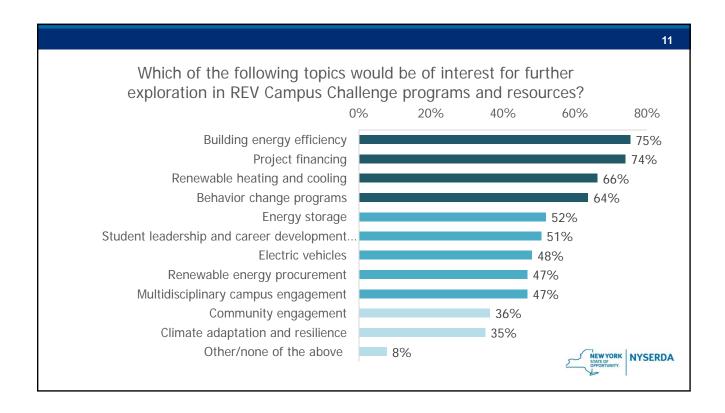


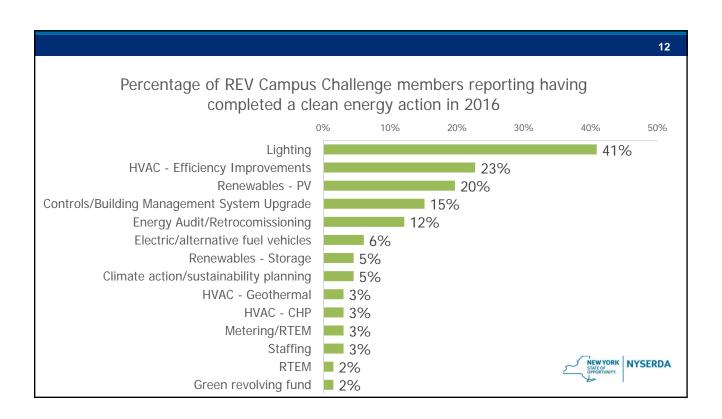


# Thank you for filling out the annual survey!

- 76 of 91 members (84%!) at the time completed the survey
- A few highlights from the survey:
  - 40% of members created a new or updated climate action plan, energy master plan, and/or GHG inventory in 2016
  - 30% of members do not currently collect data on GHG emissions
  - 39% do not have dedicated staff members assigned to manage clean energy/sustainability initiatives







# Funding opportunities and updates for REV Campus Challenge members



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# **Open program opportunities**

- Roadmaps Technical Assistance Program
- On-site Energy Manager (OsEM)
- NY-SUN
- Renewable Heat NY (RHNY)
- Combined Heat and Power (CHP)
- FlexTech

- Workforce Training Building O&M
- Real Time Energy Management (RTEM)
- Geothermal Clean Energy Challenge
- Small Wind Turbine Program
- Clean Heating and Cooling Communities
- Ground Source Heat Pump Rebate
- Air Source Heat Pump Rebate



# **Ongoing program opportunities**

- Roadmaps Technical Assistance Program
- On-site Energy Manager (OsEM)
- NY-SUN
- Renewable Heat NY (RHNY)
- Combined Heat and Power (CHP)
- FlexTech

- Workforce Training Building O&M
- Real Time Energy Management (RTEM)
- Geothermal Clean Energy Challenge
- Small Wind Turbine Program
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- Ground Source Heat Pump Rebate
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Unless otherwise noted, applicant must pay electric SBC to be eligible



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#### 2017 Energy to Lead Competition Recap

- Award letters out
- \$3 million competition
- · Based on member feedback from first round:
  - Flexibility in award size
  - Timeline to prepare application
  - Streamlined application
  - Opportunity for feedback on project concept



#### 2017 Energy to Lead Competition Recap

- Feedback sessions
  - Opportunity for teams to present and ask questions of three NYSERDA panelists to get constructive feedback on their project concepts
  - 20-minute slots at State of NY Sustainability Conference
  - Student involvement in presentation
- Feedback from the 10 schools that presented:
  - Students found the experience valuable and feedback provided/discussion insightful
  - Respondents found the sessions to be very useful for preparing their applications
  - Some respondents suggested adding an opportunity to submit follow-up written questions to panelists/directly to NYSERDA

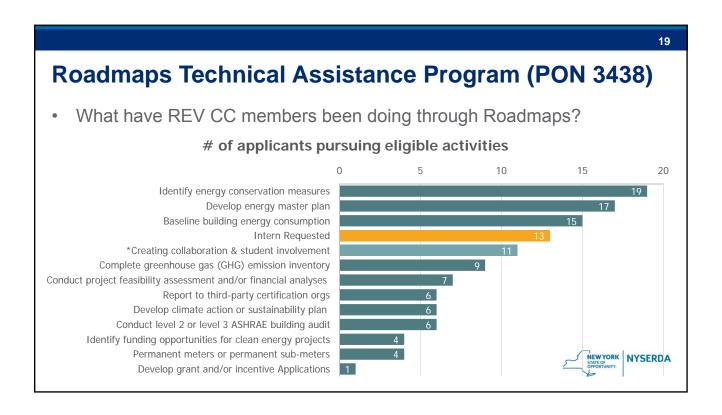


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#### **Roadmaps Technical Assistance Program (PON 3438)**

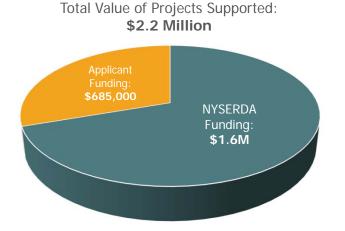
- Launched December 2016 as a <u>member-exclusive</u> program, available through December 2018
- Direct response to feedback from REV CC members at 2016 Spring workshops
- Assistance in evaluating existing campus energy conditions and establishing a roadmap for managing campus energy needs
- Funding support to work with a consultant of your choice
- Funding capped at \$150,000 per member
  - \$4,000 bonus to fund student intern support





#### **Roadmaps Technical Assistance Program (PON 3438)**

What have REV CC members been doing through Roadmaps?



Typical project cost: **\$150,000 - \$160,000** 

Typical incentive: ~\$115,000

**75%** of project funding provided by NYSERDA



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#### **Workforce Training – Building O&M (PON 3715)**

- Goal: reduce building energy use and operations by improving skills of workers in building O&M across New York State
  - Applicants propose a training curriculum to improve energy management and O&M skills among buildings staff
  - Funding capped at \$400,000 per proposal and requires minimum cost-share of 50%
- 2 REV CC member applicants to date:





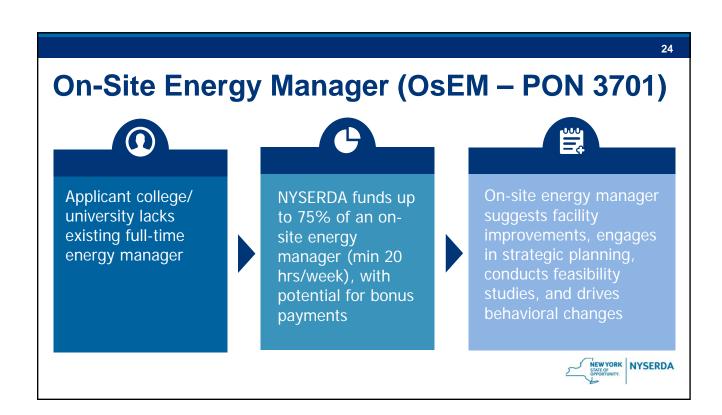


#### **Workforce Training – Building O&M (PON 3715)**

- Eligibility requirements
  - Applications accepted until May 30, 2018 (or until funding is exhausted)
  - Proposals must involve buildings or groups of buildings with total annual energy expenditures of \$1 million or more
  - College/university can be the lead proposer (or a training provider can submit proposal)

Contact Debora Moran: <a href="mailto:debora.moran@nyserda.ny.gov">debora.moran@nyserda.ny.gov</a> | 518.862.1090 x3488





### On-Site Energy Manager (OsEM – PON 3701)

Previously open only to industrial facilities, opened up to commercial buildings (including colleges and universities) in late 2017

- Open enrollment solicitation through December 2019
- Applicants can opt for full or part time On-Site Energy Manager
  - ≥0.5 Full Time Equivalent (20 hours per week)
- Applicant cannot have an existing dedicated full time energy manager on-site
- Applicants can seek support for their On-Site Energy Manager via new hire, contracted staff, or hybrid of supplementing permanent staff with contract staff

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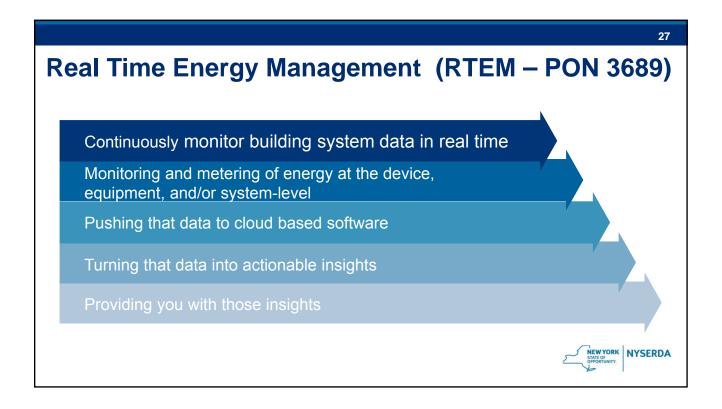
# On-Site Energy Manager (OsEM – PON 3701)

Facility Consumption (aggregated)	OsEM Cost-share* (initial 12 to 24** month term)	1 <sup>st</sup> Bonus: 12 months after initial term	2 <sup>nd</sup> Bonus: 24 months after initial term
>\$1 million annual energy spend	Up to 75%, not to exceed \$200,000	\$7,000	\$7,000
<\$1 million annual energy spend	Up to 75%, not to exceed \$100,000	\$5,000	\$5,000

Use funds for services only; not for implementation or equipment purchases

<sup>\*</sup> Must include minimum 25% cost-sharing in form of cash support from customer

<sup>\*\*</sup>Minimum 12 month OsEM initial term (at minimum 20 hours/week); work must be completed within 24 months of receiving NYSERDA PO unless otherwise negotiated.



#### **Real Time Energy Management (RTEM – PON 3689)**

- Open enrollment solicitation through June 2021
- Must pay into the electric System Benefits Charge (SBC)
- Cost share up to 30% of overall RTEM project costs
- Qualified list of vendors with wide ranging capabilities and specialties
- RTEM Advisor provides tools and support to customers



# **Opportunities for** Improvement and **New Programming**



#### **More on RTEM**

To date, no colleges and universities have applied for RTEM

- Are you interested?
- What's holding you back?
- What would encourage you to participate?

Bandwidth

Competing priorities

Confidence in technology Cost/financing

ROI

Procurement

Confidence in vendors



# More on Roadmaps

Lots of interest in Roadmaps from a variety of campus types

- What do you like about the Roadmaps program?
- How could it be improved to better meet your needs?
- One possibility: a follow-on phase to encourage implementation
  - What would be most valuable?



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#### Other future REV Campus Challenge programs

- What other programs and resources can REV Campus Challenge provide that could help you address your clean energy challenges?
- What other external programs and resources have been helpful for achieving your clean energy goals?

On-site, NYSERDA-led charrette to identify and overcome institutional barriers

Workforce training to build internal staff capacity and knowledge

On-site energy manager program extended to higher ed

Energy to Lead 201/ Student clean energy internships



