

CleanEnergy

States Alliance

ANNUAL WORK PLAN

July 1, 2016 – June 30, 2017



Mission

The Clean Energy States Alliance (CESA) is a national, nonprofit coalition of public agencies and organizations working together to advance clean energy. CESA members—mostly state agencies—include many of the most innovative, successful, and influential public funders of clean energy initiatives in the country.

CESA works with state leaders, federal agencies, industry representatives, and other stakeholders to develop and promote clean energy technologies and markets. It supports effective state and local policies, programs, and innovation in the clean energy generation sector, with emphasis on renewable energy, financing strategies, and economic development. CESA facilitates information sharing, provides technical assistance, coordinates multi-state collaborative projects, and communicates the positions and achievements of its members. CESA is managed by Clean Energy Group (CEG), see www.cleanegroup.org.

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CESA's Members (*Anticipated*)

Core Members

- Alaska Energy Authority (AEA)
- California Energy Commission (CEC)
- Connecticut Green Bank (CGB)
- District Department of the Environment – Energy Administration (DDOE)
- Energy Trust of Oregon (ETO)
- Illinois Power Agency
- Massachusetts Clean Energy Center (MassCEC)
- New Hampshire Public Utilities Commission – Sustainable Energy Division (NH PUC)
- New Jersey BPU – Clean Energy Program
- New Mexico State Energy Office – Energy Conservation & Management Division (NM ECMD)
- New York State Energy Research & Development Authority (NYSERDA)
- Rhode Island Office of Energy Resources (RIOER)
- Sacramento Municipal Utility District (SMUD)
- Vermont Public Service Department - Clean Energy Development Fund (VT PSD)
- Washington Department of Commerce – State Energy Office
- Xcel Energy (MN) – Renewable Development Fund (XCEL)

Affiliate Members

- Alaska Center for Energy and Power (ACEP)
- Commerce RI
- Connecticut Department of Energy and Environmental Protection (CT DEEP)
- Massachusetts Department of Energy Resources (MASS DOER)
- Massachusetts Department of Environmental Protection
- Minnesota Department of Commerce
- Office of the People's Counsel for the District of Columbia
- Oregon Department of Energy (OR DOE)
- Prairie Island Indian Community

CESA Board of Directors

Clean Energy States Alliance is governed by an independent board of directors that is primarily composed of representatives from CESA-member organizations. These individuals generously provide their time and expertise to the organization, and we thank them for their service.



Lise Dondy (Treasurer)

Consultant, former President of the Connecticut Clean Energy Fund

Lise Dondy was President of the Connecticut Clean Energy Fund (CCEF) from 2004 through September, 2010, where she restructured the Fund to deploy over \$200 million in assets. Lise was responsible for launching many of CCEF's key initiatives, including solar and geothermal incentive programs for residents, the first public sector solar lease program, a commercial renewable distributed generation incentive program, and a renewable energy investment program to help companies and entrepreneurs develop innovative clean energy technologies. Previously, Lise was Managing Director, Investments, for Connecticut Innovations a quasi-public state authority that invests preferred equity in emerging technology companies in the state while leveraging private capital to create economic activity and an investment return for the taxpayers. Currently, Lise consults nationally independently and as an Expert Consultant for ICF International on renewable energy finance, policy and program design as well as assists early stage companies in business planning and financing. Lise holds a bachelor's degree with honors and Phi Beta Kappa from Lake Forest College and an MBA from the Yale School of Management.



Janet Joseph

New York State Energy Research & Development Authority

Janet Joseph is the Vice President for Technology and Strategic Planning at the New York State Energy Research & Development Authority (NYSERDA). Janet oversees a multi-faceted energy research program focused on developing and accelerating the market introduction of emerging energy efficient and clean energy technologies in New York. Janet also oversees NYSEDA's energy analysis and planning functions. Janet has held a variety of technical and policy positions at NYSEDA over the past 20 years including R&D Director, Environmental Research Program Manager, Buildings Research Program Manager, and Research Scientist and Manager of Planning. Prior to joining NYSEDA, Janet was a research scientist at Battelle Pacific Northwest Laboratories. Janet has also worked as an environmental consultant for Booz-Allen and Hamilton in Washington, D.C. Janet has a Master's degree in Environmental Chemistry from the University of Maryland.



Betsy Kauffman
Energy Trust of Oregon

Betsy Kauffman heads up Energy Trust of Oregon's renewable energy department, which provide cash incentives and technical assistance to solar, hydro, biopower, geothermal and wind projects in Oregon. The program has funded more than 8,000 commercial, residential, and large-scale solar projects and more than 20 hydro, bio, and geothermal projects. Along with a local neighborhood organization, Energy Trust operated the first Solarize effort in the nation. Prior to joining Energy Trust, Betsy worked at For the Sake of the Salmon where she managed the Salmon-Friendly Power program, one of Oregon's first programs to allow utility customers to choose a renewable power option. Betsy also has a long history in the news business, having spent ten years as an anchor and reporter at radio stations across the country. She has bachelor's degrees from the University of Wisconsin-Madison and Southern Illinois University-Edwardsville and moonlights as a stand-up comic.



Taresa Lawrence
District Department of the Environment

Taresa Lawrence is the Deputy Director of the District Department of the Environment's Energy Administration, which is charged with developing energy plans, policies, and programs in the District. Her experience includes the sustainable use of energy in the residential, commercial, and institutional sectors, and she specializes in strategic planning, energy management and analysis, program design and implementation, and evaluation methods. Dr. Lawrence currently oversees a variety of energy efficiency and renewable energy programs, including those administered by the District of Columbia Sustainable Energy Utility. She also works on electric and natural gas utility rate issues, where she assesses the impacts of various rate proposals on the District's ratepayers. Prior to joining the District in 2008, Dr. Lawrence was a Regulatory Economist at the Public Service Commission of Maryland, and Center Director of the Small Business Development Center at Howard University Center for Urban Progress. She holds a Ph.D. in Economics from Howard University and a Master's Degree in Development Economics from University of Manchester, England.



Jeremy McDiarmid
Massachusetts Clean Energy Center

Jeremy McDiarmid serves as Senior Director for Innovation and Industry Support at the Massachusetts Clean Energy Center (MassCEC). As a member of MassCEC's senior leadership team, he oversees the business and workforce development strategies MassCEC employs to strengthen the clean energy sector in Massachusetts including programs to train clean energy workers, convene innovators with potential customers and to develop industry research. Prior to joining MassCEC, Jeremy served as the Massachusetts Director for Environment Northeast (ENE), an environmental research and advocacy organization, where he oversaw all aspects of the organization's policy development and advocacy strategy. While at ENE, he served

on the Massachusetts Energy Efficiency Advisory Council and the state's Global Warming Solutions Act Implementation Committee. Jeremy also worked as an attorney with a civil litigation practice in Boston. He earned a jurist doctorate with honors from Boston College Law School and a bachelor's degree of arts with honors from Syracuse University.

**Lewis Milford**

Clean Energy Group

Lewis Milford is President of [Clean Energy Group](#) (CEG) and Founder of Clean Energy States Alliance, which is managed by CEG. Prior to founding CEG, Lew was Vice President of Conservation Law Foundation, New England's leading environmental organization, where he directed the Energy Project. Previously, he practiced environmental law at a private firm and as the New York Assistant Attorney General. He is co-author of *The Wages of War*, a social history chronicling America's treatment of its military veterans. He has a J.D. from Georgetown University Law Center and a graduate of Rutgers College.

**Bentham Paulos**

PaulosAnalysis

Bentham Paulos is the principal of PaulosAnalysis, consulting and writing on clean energy policy, technology, and trends, for clients in the non-profit, media, industry, and philanthropic sectors. He is currently directing the Power Markets Project, looking at the impact of renewable energy on electricity market designs in Germany and the U.S. He founded and managed America's Power Plan, a policy roadmap for moving to a high renewable energy future. He was a program director with the Energy Foundation from 2000 to 2013, making grants to promote renewable energy, utility efficiency, and advanced biofuels. He previously worked for the Energy Center of Wisconsin, the Union of Concerned Scientists, and Abt Associates, and has an MA in Energy Policy from the University of Wisconsin-Madison and a BA from Tufts University.

**Selya Price**

Connecticut Green Bank

Selya Price is a Senior Manager at the Connecticut Green Bank where she has worked for six years in various roles, first in providing support and financing to clean energy start-up companies (through the Green Bank's predecessor organization), second as manager of the Green Bank's participation in the U.S. DOE SunShot Initiative (Round 1) to reduce soft costs for solar photovoltaics, and currently in management of the Residential Solar Investment Program (RSIP). RSIP provides incentives for residential solar projects in Connecticut, with over 15,600 projects and almost 118 MW of solar approved as of February 2016. Prior to the Green Bank, Selya was a senior analyst at the National Renewable Energy Laboratory, and also worked in data management and research in the medical field. She holds a Master's degree in Mathematics from the City College of New York and a Bachelor of Science degree in Chemistry from MIT.

**Timothy Tutt** (President)

Sacramento Municipal Utility District

Tim has worked in the energy field for 30 years -- 2 years at the Jet Propulsion Laboratory, 8 years at Southern California Edison, 19 years at the California Energy Commission, and for the last two years at the Sacramento Municipal Utility District (SMUD). Tim is responsible for state regulatory affairs at SMUD. Tim graduated from the California Institute of Technology in 1979 with a B.S in Social Science.

**Ryan Wisler**

Lawrence Berkeley National Laboratory

Ryan Wisler is a Senior Scientist at Lawrence Berkeley National Laboratory. Ryan leads research on the planning, design, and evaluation of renewable energy policies; on the costs, benefits, and market potential of renewable electricity; on electric grid operations and infrastructure impacts; and on public acceptance and deployment barriers. He regularly advises state and federal agencies on issues related to renewable energy; is an advisor to the Energy Foundation's China Program; and is on the Corporate Advisory Board of Mineral Acquisition Partners. Ryan has been a lead author for the Intergovernmental Panel on Climate Change, and his work has received awards from the Utility Variable-Generation Integration Group, the American Real Estate Society, the Wind Powering America Program, Institutional Investor News, and the American Wind Energy Society. Ryan holds a B.S. in Civil Engineering from Stanford University and an M.S. and Ph.D. in Energy and Resources from the University of California, Berkeley.

CESA Staff

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CESA's Program Areas

In 2016-2017, CESA staff will carry out a range of projects and activities that serve and benefit the CESA members. We will also continue to work with our members to strengthen the CESA network, to identify additional desirable member services, and to assess how the organization can grow to meet new challenges and opportunities.

This annual work plan covers CESA's two program areas: CESA Projects and CESA Client Services.

Program Area 1: CESA Projects

Through its priority active projects, CESA advances solutions to key, cross-cutting problems that many CESA members face. The projects for the coming fiscal year are listed below and are described in depth in this section of the work plan.

Active CESA Projects

- Clean Energy for Low-Income Communities
- Combined Heat and Power (CHP) Multi-State Initiative
- Energy Storage
 - Energy Storage Technology Advancement Partnership Project (ESTAP)
- Interstate Turbine Advisory Council (ITAC)
- Offshore Wind
 - Regional Offshore Wind Road Map
- Renewable Heating and Cooling
- RPS Collaborative
- State Leadership in Clean Energy Awards
- Solar
 - New England Solar Cost-Reduction Partnership
 - Solar Training for Energy Professionals
 - Solar Technical Assistance Team

Clean Energy Group Leveraged Projects

- Massachusetts Community Clean Energy Resiliency Initiative Partnership
- Offshore Wind
 - Northeast Wind Resource Center
 - Offshore Wind Accelerator Project Communications
- Resilient Power Project

Project Accomplishments 2015-2016 and New Project Objectives for 2016-2017

The following section summarizes the past year's accomplishments for each of CESA's active projects and describes activities planned for the coming year.

Clean Energy for Low-Income Communities

<http://cesa.org/projects/Clean-Energy-for-Low-Income-Communities/>

PROJECT DIRECTORS

Warren Leon and Nate Hausman

SUMMARY OF THE PROJECT

As the cost of clean energy technologies has declined, many states have become concerned with ensuring that all segments of society, especially those with low and moderate incomes can benefit. This has become primarily—although not exclusively—an issue with photovoltaics, because even though solar electricity can save consumers money, many people are unable to install it. This project shares information among CESA members about their programs and plans to help low- and moderate-income (LMI) individuals and communities to benefit from clean energy. It will identify best practices and promising innovative ideas. It will make recommendations for possible new state programs and policies.

FUNDING LEVERAGE

The first dedicated funding CESA has received for work focused on LMI households and communities was for the Sustainable Solar Education Project described separately below. In addition, CESA submitted a larger proposal to U.S. DOE in conjunction with six CESA Members (Connecticut Green Bank, District Department of Energy and Environment, Energy Trust of Oregon, Minnesota Department of Commerce, New Mexico State Energy Office, and Rhode Island Office of Energy Resources). That proposal focused exclusively on LMI solar programs and policies. We will learn by September 2016 whether or not our proposal will receive funding. In addition, the CEG-leveraged Resilient Power Project described below has a significant low-income component. CESA has also been seeking funding from private foundations.

SUMMARY OF PROJECT ACCOMPLISHMENTS

We surveyed all CESA members and produced a paper in December 2015 summarizing their current programs and activities aimed at LMI individuals and communities. The paper, a [*Directory of State Clean Energy Programs and Policies for Low-Income Residents*](#), also includes information about non-CESA-Member states. Because the field is fast-moving, we committed to updating the paper every few months and have already done so twice.

The other primary activity of the year was the fundraising described above.

PROPOSED PROJECT ACTIVITIES FOR THE COMING YEAR

- We will feature this topic in CESA meetings and webinars.
- Through the Sustainable Solar Education Project, we will produce a program guide identifying especially promising LMI programs and making recommendations for how states can best proceed to meet the needs of low and moderate-income individuals and communities. We will also hold related webinars.

- Every few months, we will update the *Directory of State Clean Energy Programs and Policies for Low-Income Residents* and re-post it on the CESA website.
- The Resilient Power Project will continue activities focused on solar+storage for affordable housing.
- Should the fundraising mentioned above be successful, we will ramp up our activities accordingly.

Combined Heat and Power (CHP) Multi-State Initiative

<http://cesa.org/projects/renewable-heating-and-cooling/>

PROJECT DIRECTOR

Todd Olinsky-Paul

SUMMARY OF THE PROJECT

The idea behind this project is to transform the market for CHP systems by offering an e-catalog of vetted systems and system components, first regionally in the states contiguous to New York, and then expanding to include other states. This is based on the experience of NYSERDA, which has gone farther than any other state in offering a catalog of standardized, vetted, plug-and-play CHP systems.

Initially proposed by NYSERDA, this multi-state CHP initiative is now moving forward as a U.S. DOE-led effort. Once the project is underway, DOE will establish and maintain the project website, an e-catalogue of CHP systems and components, and other “back office” elements of the initiative. CESA’s role has been and will be to aid in identifying state champions to participate in the initial regional phase, and to engage with states and facilitate their participation.

NYSERDA began its support of CHP technologies just as many other states did—by offering rebates for systems that were individually designed to fit a specific application, with components installed by a number of unrelated installers. This approach tended to result in expensive one-off systems that sometimes needed additional corrective engineering to make components work well together. To address this problem, NYSERDA has developed a catalog of vetted, approved, off-the-shelf CHP systems and components. Customers choose the system that fits their needs, and all components are installed by a single installer, resulting in cheaper, faster installations, lower risk and better performance. Using this system, NYSERDA has gone from 10 installations/year to 22 installations/year, with zero attrition, and has been able to reduce its CHP incentive rates. NYSERDA believes that industry, consumers, markets, and state energy agencies supporting CHP would benefit from a similar approach across multiple states. CESA agrees that a multi-state approach would help to reduce costs, develop markets, and drive deployment of these high-efficiency electric and thermal systems.

KEY PARTNERS/PARTICIPANTS

In discussions with DOE and NYSERDA, we have decided to focus initially on states that have high technical potential for CHP, are interested as evidenced by having initiated CHP incentives or policy supports on their own, and are contiguous with New York. Additional states would be added as the projects gains momentum.

FUNDING LEVERAGE

Funding leverage will be provided by U.S. DOE and NYSERDA. NYSERDA may contract with CESA for some portion of the project.

SUMMARY OF PROJECT ACCOMPLISHMENTS/NEXT STEPS

Activities over the past year included several calls with NYSERDA and U.S. DOE, and the compiling of stakeholder information. One of the next step will be calls to champions within the identified states to ascertain their level of interest and staff resources to participate in the project. The proposed project might take an approach similar to CESA's ITAC project in terms of equipment certification:

- Review NYSERDA's existing list of CHP systems and components
- Make any needed additions or deletions to NYSERDA's list
- Develop regional or state variations for equipment
- Create a unified e-catalog and website
- Develop requirements for installers

This is a project in development. We recognize (and NYSERDA recognizes) that the consensus of participating states may not be to proceed along the same lines as NYSERDA's program, and we are prepared to take this project in a different direction, depending on the needs and interests of the participating states.

Energy Storage

Energy Storage Technology Advancement Partnership Project (ESTAP)

www.cesa.org/projects/energy-storage-technology-advancement-partnership/

PROJECT DIRECTOR

Todd Olinsky-Paul

SUMMARY OF THE PROJECT

The Energy Storage Technology Advancement Partnership (ESTAP) is a federal-state funding and information sharing project, managed by CESA, which aims to accelerate the deployment of electrical energy storage technologies through the creation of technical assistance and co-funding partnerships between states and the U.S. Department of Energy. ESTAP conducts three key activities: 1) Disseminate information to stakeholders, 2) Facilitate federal/state partnerships at the state level to support energy storage demonstration project deployment, and 3) Support state policy and program development around energy storage.

The value proposition for participating states is to work closely with the U.S. Department of Energy's Office of Electricity Delivery and Energy Reliability on near-term joint funding and technology deployment; to join a network of leading states supporting energy storage technology; and to achieve faster progress in electrical energy storage commercialization and economic development. Working with Sandia National Laboratories (SNL), Pacific Northwest National Laboratories (PNNL), and the U.S. DOE Office of Electricity (DOE-OE), we provide funding support for deployment of demonstration projects using eligible technologies with cost-share from state and municipal partners; technical assistance to states and municipalities in the areas of engineering, monitoring, and assessment; and program and policy development support to states and other stakeholders.

KEY PARTNERS

DOE-OE and SNL support the ESTAP project with funding and other resources, such as technical expertise and consulting. Pacific Northwest National Laboratory has become a project partner for specific demonstration projects. Through a new Grid Modernization contract, CESA will work with ORNL. The project also relies on partnerships with state and municipal energy agencies, utilities, energy storage developers, and other stakeholders. Participating CESA members include Alaska Energy Administration, Alaska Center for Energy and Power, Connecticut Department of Energy and Environmental Protection, District Department of Energy & Environment, Massachusetts Clean Energy Center, Massachusetts Department of Energy Resources, New Mexico State Energy Office, NYSERDA, Oregon Department of Energy, Vermont Department of Public Service, and Washington Department of Commerce,.

FUNDING LEVERAGE

ESTAP funding is provided by U.S. DOE-OE and Sandia National Laboratories. We have also been able to leverage foundation funding from Clean Energy Group's Resilient Power Project, which overlaps significantly with ESTAP.

SUMMARY OF PROJECT ACCOMPLISHMENTS

ESTAP has played an important role in helping states craft energy storage programs and solicitations, and in bringing states to the table to partner with DOE and SNL. We have supported energy storage efforts in many states including both individual project deployment and broader program development. With funding from U.S. DOE-OE/SNL, we have retained expert engineers, whose consulting services we provide at no cost to states. ESTAP webinars have been very well attended and our listserv continues to grow.

2015-2016 HIGHLIGHTS

The ESTAP project has accomplished a number of important goals over the past year. These include:

- Support for numerous energy storage and microgrids programs and projects in states including Massachusetts, New York, Connecticut, New Jersey, Maryland, Vermont, Washington DC, New Mexico, California, Oregon, Alaska, Hawaii, Washington.
- Negotiation of a new, 1-year contract for Grid Modernization work with Sandia National Laboratories, in the amount of \$50,000. This contract is for reporting support on four demonstration projects with SNL, PNNL and ORNL as well as DOE. We expect a second year of funding at the same level.
- Collaboration with U.S. DOE, SNL, and Oregon DOE on an energy storage demonstration project jointly funded with Oregon DOE. This project grant has been awarded and the project is in development.
- Continued collaboration with U.S. DOE, SNL, and VT DPS on a solar+storage microgrid in Rutland, VT;
- Collaboration with SNL and ACEP on development of an energy storage project in Cordova, AK. This project is under development.
- Collaboration with SNL and MA DOER to provide free technical support to 11 resiliency projects funded by DOER that include energy storage.
- Collaboration on energy storage projects in Hawaii.
- Collaboration with SNL, Burlington Electric Department, and Burlington Airport on a microgrid at the airport. This project is under development.
- Dissemination of information on energy storage technologies, policy, financing and related topics to state decision makers, via webinars, conference presentations, and the distribution of materials.
- Hosted about one webinar per month on energy storage topics that can be found here: <http://cesa.org/projects/energy-storage-technology-advancement-partnership/energy-storage-events/>

PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

We will continue with the same basic structure for the ESTAP program. DOE/Sandia have indicated they intend to continue to support the program. The ESTAP program has been successful not only in supporting state-federal partnerships in energy storage, but also in helping CESA to establish working relationships within and beyond our membership, raising our profile in the area of energy storage, and increasing the value we are able to offer to states. In the coming fiscal year, this project will engage in the following activities:

- Complete energy storage demonstration project in Oregon, and begin data collection
- Complete data collection/analysis on microgrid project in Vermont, and support project expansion
- Complete energy storage demonstration project in Sterling, MA
- Complete economic analysis to support energy storage RFP in Cordova, AK
- Support the evaluation of energy storage proposals in WA, CT, and other states as needed
- Continue to support energy storage deployment in Massachusetts through provision of technical support to DOER awardee municipal resiliency projects
- Continue support for existing programs in New Jersey, New York, Connecticut
- Move ahead on energy storage efforts in Washington DC, New Mexico, Hawaii
- Expand ESTAP listserv and provide informative webinars
- Continue to provide high-value technical and policy assistance to states and municipalities
- Bring new states to the table for collaborative energy storage program development and project deployment
- Support reporting on energy storage demonstration project analysis with SNL, PNNL and ORNL

Interstate Turbine Advisory Council (ITAC)

www.cesa.org/projects/ITAC/

PROJECT DIRECTOR

Val Stori

SUMMARY OF THE PROJECT

ITAC is an alliance of state clean energy programs and utility incentive providers working jointly to tackle the challenges and promote the potential of distributed wind. ITAC collaborates in information sharing, research and learning, industry communication, and equipment evaluation with the specific purpose of publishing a unified list of carefully vetted turbines for use by ITAC-member programs. The project was established in 2011 by a group of forward-thinking state clean energy programs which not only thought it would be more efficient to pool resources for developing a unified list, but also thought a single, common list would send a consistent message to the market. Prior to ITAC's Unified List, states maintained different lists of eligible wind turbines, which caused confusion in the marketplace. Additionally, in some cases, the state review processes failed to screen out unsuitable turbines. Combining the collective experience and data from programs across the country results in a stronger, more effective, more reliable list of qualified wind turbines.

ITAC began prior to the widespread adoption of the AWEA 9.1 Small Wind Standard and the independent certification bodies which test turbines for that standard. Moreover, certification does not account for business practices or axillary componentry of the wind turbine system (i.e., towers). ITAC's independent review adds

another layer of oversight to increase ratepayer and taxpayer confidence in small wind systems. In addition, ITAC reviews and maintains a list of medium wind turbines (rotor swept area greater than 200 meters) for which there is no acceptable international standard. ITAC's listing criteria serve as interim review guidelines until an international standard is established.

KEY PARTNER/PARTICIPANTS

- Energy Trust of Oregon
- Massachusetts Clean Energy Center
- Minnesota Department of Commerce - Division of Energy Resources
- Nevada Energy
- New York State Energy and Research Development Authority
- Vermont Public Service Department - Clean Energy Development Fund

In addition, ITAC collaborates and exchanges information regularly with the Small Wind Certification Council, Intertek, the Distributed Wind Energy Association (DWEA), the Pacific Northwest National Laboratory, the National Renewable Energy Lab, and the U.S. Department of Energy's Regional Resource Centers.

FUNDING LEVERAGE

ITAC members contribute to the cost of administering the project. Manufacturers pay an application fee to have their turbines reviewed.

SUMMARY OF PROJECT ACCOMPLISHMENTS

ITAC performed mostly administrative functions in 2015-16 due to a very small distributed wind market. Some manufacturers stopped making small wind turbines; others moved their sales and marketing efforts to Europe. Several ITAC members did not receive or fund any distributed wind applications over the last year, and one member ended its small wind incentive program. The group received several inquiries from manufacturers interested in getting on the Unified List; however, none of the turbines were eligible for listing. ITAC did relist turbines manufactured by Xzeres Corporation once the manufacturer showed that it had satisfactorily addressed all turbine issues in New York.

In our efforts to create awareness about distributed wind, ITAC participated in a three-minute broadcast through the DOE WindExchange program for the rural broadcasters of America.

CESA participated in two U.S. DOE distributed wind soft cost reduction meetings, both held in conjunction with DWEA events. We provided input based on CESA's experience with solar soft cost reduction efforts and SunShot on customer acquisition, financing and contacting, permitting and zoning, and installation. In addition, we provided feedback on how U.S. DOE can have the biggest impact on soft cost reductions, including market development, regional initiatives like SunShot or the New England Solar Soft Cost Reduction Partnership, technical support for permitting and zoning issues, and research on specific distributed wind issues.

PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

ITAC will maintain its Unified List for small and medium wind turbines. We expect to review several small wind turbine applications in the coming year, as well as a couple of medium wind turbines. However, at least two ITAC members will be ending their small or distributed wind incentive programs at the end of 2016.

We will continue to work with U.S. DOE on its distributed wind soft cost reduction efforts; however, the DOE initiative is minimally funded and the agency has indicated that it will only be benchmarking the distributed wind market and quantifying soft costs over the coming year.

Offshore Wind

A Regional Roadmap for Multi-State Cooperation on Offshore Wind Development

PROJECT DIRECTORS

Val Stori and Warren Leon

SUMMARY OF THE PROJECT

Maine, Massachusetts, New York, and Rhode Island are working together to develop a regional roadmap for coordinated offshore wind (OSW) action. This roadmap effort is funded through a U.S. DOE award to NYSERDA. CESA is playing a coordinating role. The project was an outgrowth of Clean Energy Group's 2015 paper, *Up in the Air*, which laid out several options for states to move forward collaboratively in support of OSW.

The roadmap project seeks to examine how to bring scale to the OSW opportunity in the Northeast and to examine the opportunities for regional collaboration in driving down OSW costs. Together, the states are exploring the potential for mutual action to achieve economies of scale and to drive a regional supply chain. Each state's individual objectives and the objectives of the region will be evaluated to scope out a near- and long-term pipeline of projects using various penetration scenarios. These scenarios will be used to examine the potential for cost reductions at various levels of OSW development. The final product of the collaboration will be a detailed regional roadmap for follow-up action.

KEY PARTNERS/PARTICIPANTS

The participating agencies in this collaborative project are:

- Massachusetts Clean Energy Center
- Massachusetts Department of Energy Resources
- Maine Governor's Energy Office
- New York State Energy Research and Development Authority
- Rhode Island Office of Energy Resources

FUNDING LEVERAGE

The project is funded by a U.S. Department of Energy award through December 31, 2016.

SUMMARY OF PROJECT ACCOMPLISHMENTS/ACTIVITIES

The project began on January 1, 2016. In the last several months, the multi-state group has launched an active steering committee and advisory committee. The Steering Committee consists of the state partners listed above; the committee meets every 3-4 weeks. The Advisory Committee is a group of 15 stakeholders that represent key stakeholder groups including environmental advocates, finance institutions, utilities, other Northeastern states, industry, researchers, U.S. DOE labs, academia, ratepayer

advocates, and developers. The advisory group comments and provides key insight in to the work products of the roadmap project.

The three main work products of the roadmap project will be:

- A Regional Market Characterization (RMC) Report
- A Pipeline Cost Analysis (PCA) Report
- A Regional Roadmap Report

The RMC and the PCA are both underway and are being produced by a team of consultants. Sustainable Energy Advantage leads the RMC work, and Daymark Energy Advisors leads the PCA report. The RMC summarizes the near- and long-term regional OSW market opportunities in the Northeast. The metrics in the RMC will lead to the base case and scenarios analyzed in the PCA. The PCA examines the cost reductions from achieving economies of scale from a larger market size, the impact on the cost of energy from establishing a regional supply chain, how states might best plan for a sustained pipeline of projects, and explores collaborative approaches to realizing a project pipeline.

The regional roadmap will build off the information and analyses presented in the above two reports. It will articulate how the states could work together to advance offshore wind development. It will be a tool for states to begin to move forward on joint actions and project development. The project Steering Committee will soon select the team that will write the Regional Roadmap Report.

PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

All three reports will be completed by the end of 2016. CESA's role will focus on coordinating meetings of the Steering Committee and Advisory Committee, and engaging in extensive stakeholder outreach, both to get input into the Regional Roadmap and to disseminate and gather feedback on the three reports.

Other offshore wind activities are included below under CEG-leveraged projects.

Renewable Heating and Cooling

<http://cesa.org/projects/renewable-heating-and-cooling/>

PROJECT DIRECTOR

Val Stori

SUMMARY OF THE PROJECT

CESA members are interested in sharing information and collaborating on tackling issues related to equipment standards, efficiency, performance, and consumer protection concerning renewable heating and cooling technologies. Two working groups have formed under the renewable heating and cooling project: 1) biomass thermal addresses efficiency, emissions, and performance of wood pellet hydronic heaters; 2) renewable thermal addresses several heating and cooling technologies, with a focus on the performance of cold-climate air source heat pumps.

KEY PARTNERS

Representatives from a majority of CESA member programs participate in the renewable heating and cooling project's activities.

FUNDING LEVERAGE

The project is supported by CESA membership fees. In the coming year, CESA may seek foundation funding to support specific activities.

SUMMARY OF PROJECT ACCOMPLISHMENTS

Over the last year, the biomass thermal working group has held several conference calls to discuss wood biomass harvesting sustainability, hydronics integration, thermal storage, and the European experience with advanced wood biomass boilers. The group agreed to hire Meister Consultants Group (MCG) to prepare a paper on thermal storage based on literature review and the European experience. An overview of the paper, and insight into emissions and air quality, was shared with the CESA membership by MCG and Lisa Rector of NESCAUM at the fall CESA members meeting in Boston. The paper on thermal storage has gone through several rounds of review and is still in draft form. We expect to release a members-only version this spring.

In addition, we have published a short summary guide to CESA members' biomass thermal programs in March of 2016. This guide was put together by CESA interns and staff and will be updated periodically. In addition, Val Stori presented at the recent Northeast Biomass Heating Expo on trends in and changes to state biomass thermal incentive programs and RPS thermal provisions, and what we expect to see changing in the future.

The renewable thermal working group has held several conference calls to discuss the performance of cold-climate air source heat pumps (ASHP). The California Energy Commission shared information on its contributions to the development of a new U.S. DOE ASHP standard. Efficiency Maine presented information from the installation of over 10,000 units in the last two years; the Northeast Energy Efficiency Partnership and the Northwest Energy Efficiency Alliance presented information on the development of a new test method and efforts to create voluntary cold-climate ASHP specs.

CESA staff and interns have been working on a renewable thermal introductory guide (similar to the biomass thermal guide) that provides overviews of each thermal technology, highlights opportunities and barriers, and outlines CESA member incentive program criteria for qualifying technologies. We expect this paper to be released this summer.

PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

The renewable heating and cooling project will continue to hold regular working group conference calls to discuss issues of common interest and pursue avenues for collaboration, including pellet sustainability, hydronic heater system design, and ASHP performance. In addition, we will: 1) release the biomass thermal storage paper to CESA members; 2) publish a renewable thermal technology and program overview guide; and 3) produce an efficiency and emissions overview document for wood biomass heating programs.

The following is a list of renewable heating issues that could be explored through a more formal renewable heating project or working group should additional funding become available:

- Installation performance data. Working collaboratively to collect field data from residential systems.
- Incentive program criteria/guidelines. Working collaboratively to develop regional criteria for state incentive programs that promote low emissions, high efficiency and consumer protection.

RPS Collaborative

<http://www.cesa.org/projects/state-federal-rps-collaborative/>

PROJECT DIRECTOR

Warren Leon

SUMMARY OF THE PROJECT

The RPS Collaborative advances dialogue and cooperation among state government officials, federal officials, NGOs, and other clean energy stakeholders. Its overriding goal is to support the effective design and implementation of state RPS programs. It provides a forum for the exchange of experiences and lessons learned regarding the implementation of RPS policies across the United States. Participants in the Collaborative have the opportunity to learn about and discuss factors that affect the realization of RPS targets. For state RPS state program managers, the RPS Collaborative serves as a support network and a source of accurate information and reliable advice.

KEY PARTNERS

U.S. Department of Energy, National Renewable Energy Laboratory, Energy Foundation

FUNDING LEVERAGE

The project is entirely funding by the U.S. Department of Energy and the Energy Foundation.

SUMMARY OF PROJECT ACCOMPLISHMENTS

The RPS Collaborative has become an increasingly essential forum for dialogue and collaboration about RPS policies and best practices. It has continued to grow, with new states and stakeholders attending our webinars and the Summit. It has been important at a time when the RPS landscape has become increasingly complicated and when opposition to renewable energy has increased in some states. We have helped states and stakeholders understand that, despite some high-profile media coverage of efforts to derail RPSs, there remains considerable momentum behind state RPSs. The Collaborative has also helped states to administer their programs in a fair, legally invulnerable, and cost-effective manner. CESA prepared a new report on *The EPA Clean Power Plan and State RPS Programs* (May 2016), and is updating previous reports on *Distributed Generation in State Renewable Portfolio Standards* and *Does Energy Storage Fit in an RPS?*

2015-2016 HIGHLIGHTS

- CESA continued to keep RPS program managers, other state officials, and interested stakeholders informed of relevant RPS developments, and we facilitated the interchange of ideas and information among them.
- The National Summit on RPS took place in Arlington, Virginia, DC in November 2015. More than 100 people attended. They participated in sessions on such topics as the benefits and impacts of RPSs; clean energy cost and technology trends; implications of the EPA Clean Power Plan for state RPSs; and RPS data collection and compliance reporting practices.
- CESA worked on four reports for the RPS Collaborative: [The EPA Clean Power Plan and RPS Programs](#), [Renewable Thermal in State Renewable Portfolio Standards](#), [Procedures for Incorporating Distributed Generation in RPSs](#), and [RPS Compliance Reporting Practices](#).

- Produced a monthly newsletter that provides RPS administrators and other stakeholders with a convenient compendium of key developments and resources related to RPSs. See www.cesa.org/projects/state-federal-rps-collaborative/rps-news/newsitem/states-advancing-rps-newsletter-current-issue-and-archives.
- CESA hosted nine webinars on RPS issues. See www.cesa.org/projects/state-federal-rps-collaborative/rps-events-and-webinars.
- Provided technical assistance and advice to many states.

PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

The basic format of the Collaborative has been working well and we will continue it in the coming year with the National Summit, webinars, short reports, newsletter, and technical assistance. In addition, we are also launching a new initiative as part of the Collaborative: a speakers bureau in which we will send speakers from CESA, Lawrence Berkeley National Lab, the National Renewable Energy Lab, and state RPS programs to speak on RPS issues to states requesting a speaker.

Funding for the year has been secured from the Energy Foundation and the U.S. DOE has told us informally that we will receive their support as well. As part of our grant requirements from U.S. DOE, we will again produce several reports, including one on the options for states as their RPSs reach their current maximum targets. We will hold the National Summit on RPS in the Washington, DC area in early December 2016.

Solar

www.cesa.org/projects/states-advancing-solar/

CESA carries out a diverse range of activities to help states advance solar energy technologies, especially photovoltaics (PV). Among other things, we identify and promote solar program best practices from around the country; develop collaborative initiatives among states; offer input to the DOE on federal initiatives; and provide information and analysis to CESA members on solar program design. Below are descriptions of the several major solar initiatives.

New England Solar Cost-Reduction Partnership

www.cesa.org/projects/new-england-solar-cost-reduction-partnership

PROJECT DIRECTORS: Nate Hausman and Warren Leon

SUMMARY OF THE PROJECT

The New England Solar Cost-Reduction Partnership is a consortium of five New England states—Connecticut, Massachusetts, New Hampshire, Rhode Island, and Vermont—and CESA. The Partnership is working to drive down solar soft costs in the New England region. The Partnership is tackling a wide range of barriers to PV deployment, including difficult and slow permitting and interconnection processes in some locations; the need for new financing tools and cost-efficient group purchasing arrangements; and unfavorable zoning rules for solar PV in some areas.

KEY PARTNER ORGANIZATIONS

- Connecticut Green Bank (CGB)
- Massachusetts Department of Energy Resources (MA DOER) and Massachusetts Clean Energy Center (MassCEC)
- New Hampshire Office of Energy and Planning (NH OEP)
- Rhode Island Office of Energy Resources (RI OER) and Commerce Rhode Island (Commerce RI)
- Vermont Public Service Department (VT PSD)

FUNDING LEVERAGE PROVIDED BY

U.S. Department of Energy SunShot Initiative Rooftop Solar Challenge II (RSC2). States have contributed in-kind matching support for this program.

SUMMARY OF PROJECT ACCOMPLISHMENTS

The Partnership has collected information to understand the regional solar landscape, has shared resources and other information with participating states, and has produced guidebooks and model policies to encourage municipalities in the region to take action. Advances related to solar have been made across the participating states in following areas: community shared solar, financing, fire safety, interconnection, permitting and e-permitting, structural review, and zoning. Collectively, over 100 municipalities across Connecticut, Massachusetts, and Rhode Island have participated in state-driven Solarize campaigns with Rooftop Solar Challenge support.

2015-2016 HIGHLIGHTS

- CESA and project partners arranged for the submission of a private letter ruling request to the IRS to obtain guidance on the circumstances in which community-shared solar panel owners are eligible for the residential income tax credit under Section 25D of the U.S. Tax Code. The IRS issued a favorable [private letter ruling](#) concluding that a particular owner of PV panels in an offsite, community-shared solar array is eligible for the Section 25D credit.
- The Partnership developed a [solar PV fire safety training module](#) and has conducted PV fire safety trainings in participating states.
- CGB produced a [documentary video](#) to demonstrate the steps involved in completing a residential solar installation in Connecticut.
- MA DOER produced a series of permitting and safety webinars:
 - Considerations for Aging Solar PV System Components—[webinar](#) and [slides](#).
 - Solar PV Inspection Techniques for Municipal Inspectors—[webinar](#) and [slides](#).
 - Labeling Requirements for Solar PV Systems—[webinar](#) and [slides](#).
- MA DOER developed a series of four case studies highlighting Massachusetts municipalities that have streamlined their solar permitting processes and introduced the case studies via [webinar](#).
- MA DOER and MassCEC launched a [Mass Solar Loan Program](#), which connects homeowners interested in installing solar PV systems with low-interest financing.
- MA DOER, in collaboration with CESA and the City of Cambridge, released a [Solar Guide for Condo Owners and Associations in Massachusetts](#).
- NH OEP, in conjunction with Lakes Region Community College, developed a [series of Solar 101 workshops](#) for residents and for New Hampshire municipal officials.
- VT PSD launched a [Vermont Community Solar Loan Program](#), which provides affordable financing to help low-income Vermonters buy an ownership interest in community solar projects through an interest rate buy-down.

- VT PSD, in conjunction with CESA, produced a [Vermont Solar Costs Study](#) report that examines performance and cost differences, including soft costs, between different types of solar PV installations in Vermont.

PROPOSED PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

We are in the process of wrapping up this project. It was scheduled to conclude at the end of March 2016, but was extended for an additional six months. CESA will continue to manage the project by directing ongoing communication among our state partners and other key stakeholders, reporting to the Department of Energy, and coordinating with other RSC II awardee teams through the end of the term of the project.

Our statement of project objectives sets forth particular end-of-project deliverables for us to meet at the end of September 2016. These include producing a report describing project lessons learned from the project. CESA will share relevant lessons learned from this project with CESA members beyond New England. In addition, we expect that the five participating New England states will continue to hold periodic conference calls to share information about their activities.

Solar Technical Assistance Team (STAT) Network

www.nrel.gov/tech_deployment/state_local_governments/stat.html

PROJECT DIRECTOR: Nate Hausman

SUMMARY OF THE PROJECT

The National Renewable Energy Laboratory's Solar Technical Assistance Team (STAT) Network works to reduce costs, lower barriers, and facilitate market growth for solar PV through the provision of technical assistance to key market participants. STAT provides unbiased information on solar policies and issues for state and local government decision makers, regulators, and utilities. NREL has partnered with CESA and the National Association of State Energy Officials (NASEO) on outreach and delivery of its solar technical assistance under this project.

KEY PARTNER ORGANIZATIONS

- National Renewable Energy Laboratory (NREL)
- National Association of State Energy Officials (NASEO)

FUNDING LEVERAGE PROVIDED BY

U.S. Department of Energy SunShot National Laboratory Multiyear Partnership (SuNLAMP)

MAIN ACCOMPLISHMENTS/ACTIVITIES

This project builds on NREL's previous STAT work from FY13-15. CESA's involvement in the STAT Network began in FY16. Thus far, CESA's engagement in the STAT Network project has included announcing the technical assistance opportunity to our members, attending an in-person Solar Technical Assistance Provider Workshop, reviewing responses to the STAT Network's *Call for State Letters of Interest*, and participating in technical assistance response scoping calls. CESA also hosted a webinar to inform states and local governments about the STAT Network opportunity.

PROPOSED PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

CESA will continue to support NREL on its STAT's efforts through outreach and promotion of the program's technical assistance opportunities, screening and review of technical assistance requests from CESA members, and collaboration on technical assistance delivery and program outputs. CESA will continue to broadcast the STAT technical assistance opportunity to our members through our monthly members' newsletter, in-person CESA meetings, social media, email distribution lists, and direct personal communications with members. We will help guide states and municipal entities seeking technical assistance in crafting and refining their STAT requests and will review and assist in technical assistance response. CESA will also contribute at least two pieces of solar energy policy-related content for the STAT Network's blog.

Sustainable Solar Education Project

<http://cesa.org/projects/sustainable-solar/>

PROJECT DIRECTORS: Nate Hausman and Warren Leon

SUMMARY OF THE PROJECT

This project will educate state and municipal officials to make sure that solar is equitable and consumer friendly. The project will help states and municipalities improve consumer information, implement consumer protection measures, and add or upgrade programs and policies that enable solar deployment that benefits low- and moderate-income households. We will produce program guides on these topics, offer webinars, and organize intensive in-person training for state and municipal officials. We will also publish a monthly project newsletter to give updates on project activities and report on news from around the country related to these issues.

The training CESA will provide under this project will cover a variety of topics, including:

- Consumer solar financing options—leases, loans, and power purchase agreements
- State initiatives to expand financing options—solar loan programs, on-bill financing, property assessed clean energy (PACE), legalizing third-party ownership
- Model state programs to expand solar installations for low- and moderate-income residents and low-income communities, including through the provision of solar+storage for power resiliency
- Community solar as a way to expand solar participation and affordability
- Consumer information states can provide to residents
- Ways states can protect consumers through standards, regulations, and licensing for installers and equipment
- Specific issues that states could face from solar equipment that doesn't perform as advertised or from consumers who feel misled—how to prepare for these issues and reduce the likelihood of them occurring.

KEY PARTNER ORGANIZATIONS

The National Renewable Energy Laboratory's Finance Team, the law firm of Keyes, Fox & Wiedman, and PaulosAnalysis are partnering with CESA on this project. The National Renewable Energy Laboratory will provide solar and financing expertise. Keyes, Fox & Wiedman LLP will provide legal expertise. PaulosAnalysis will offer knowledge about state solar programs and policies targeting low- to moderate-income households.

FUNDING LEVERAGE PROVIDED BY

U.S. Department of Energy SunShot Initiative Solar Training and Education for Professionals (STEP)

PROPOSED PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

CESA is in the process of launching this project. CESA is beginning outreach to stakeholders and associations of government officials. To help guide our project, we have assembled an advisory committee, which we will convene for an initial in-person meeting on June 3rd. With input from our advisory committee and project partners, we will develop a detailed schedule of activities and work products.

We have begun researching recent and pending market and policy developments. Over the next year, we will produce a series of guides to inform government officials on issues related to our project. We will conduct webinars on key topics, including a webinar on each program guide we produce, and will plan in-person trainings on these topics. We will encourage CESA members to attend the in-person trainings and DOE-funding will provide travel support for those who attend. We will also publish a monthly newsletter to give updates on project activities and report on news from around the country related to solar consumer protection and equitability. Throughout the course of our project, will track project participation and impact.

State Leadership in Clean Energy (SLICE) Awards

www.cesa.org/projects/state-leadership-in-clean-energy/

PROJECT MANAGER: Maria Blais Costello, with Samantha Donalds

SUMMARY OF THE PROJECT

In 2008, CESA established the biennial State Leadership in Clean Energy (SLICE) Awards to recognize outstanding member projects and programs. CESA encourages nominations from both its Core and Affiliate members, and we have implemented the award program every two years. The 2016 SLICE Awards will be announced in early June 2016, with an awards ceremony held at the National Membership Meeting in Minneapolis, MN. Award winning programs from 2008-2016 are featured on CESA's website.

The objectives of the CESA SLICE Awards program are to:

1. Advance understanding and recognition of effective clean energy programs, projects, and implementation strategies from across the country that could serve as models for other states, municipalities, and the federal government.
2. Recognize clean energy programs and projects that are most effectively accelerating the adoption of clean energy technologies and advancing clean energy markets.
3. The SLICE Awards provide CESA and its members a compelling narrative to showcase the effective work of member organizations and facilitate the sharing of best practices and lessons learned. In addition to preparing short briefing papers for each of the award-winners' projects or programs, CESA organizes and facilitate webinars to showcase the winning programs. A major focus is placed on developing press and other public education components to publicize the awards.

KEY PARTNERS

To review nominations and determine the award winners, CESA recruits an independent panel of clean energy experts from around the country. Over the past eight years, we have worked with volunteer judges from federal agencies and energy labs, clean energy trade associations, nonprofit organizations and philanthropies, including the ACORE, Center for the New Energy Economy, Interstate Renewable Energy Council, National Renewable Energy Laboratory, SmartPower, The Solar Foundation, and the U.S. Department of Energy

SUMMARY OF PROJECT ACCOMPLISHMENTS/ACTIVITIES

CESA announced the call for nominations for the 2016 awards in December 2015. Staff revised the nomination materials and amended the nomination process to require that all nominees provide drafts of their nomination materials for input by CESA staff to improve content and clarity. Five judges reviewed this year's nominees:

- Todd Foley, American Council on Renewable Energy
- Jenny Heeter, National Renewable Energy Laboratory
- Brian Keane, SmartPower
- Heather Rhoads-Weaver, eFormative Options LLC
- Gov. Bill Ritter, Center for the New Energy Economy

Judging of the nominated programs was concluded in April and CESA staff is working with communications staff from the winning organizations to develop a press and outreach strategy. CESA staff is also preparing a summary report containing case studies of the winning programs. The awards were announced in early June 2016, at the CESA National Membership Meeting in Minneapolis, MN. CESA staff will work to disseminate the best practices of the winning programs through the summary report, blogs, webinars, and on the CESA and CEG websites through 2016. Blog posts on each of the winning programs will also be featured on [Renewable Energy World Online](#).

CESA Publications: July 2015 to June 2016

[2016 State Leadership in Clean Energy Awards: New Solutions for Market Transformation](#), prepared by CESA; edited by Maria Blais Costello. This report presents case studies of the six recipients of the 2016 State Leadership in Clean Energy Awards. These awards recognize exemplary programs that have accelerated the adoption of clean energy technologies and expanded clean energy markets. Nominations were judged based on public benefits and results, cost effectiveness, leadership and innovation, and replicability. This year's award winning programs represent many of the new ideas that are driving adoption of clean energy. They involve combining commercial property assessed clean energy (C-PACE) with power purchase agreements so that nonprofits can participate in clean energy expansion; combining water conservation with clean energy generation; implementing comprehensive programs to advance the solar industry in the East and in the West; and tapping into the power of distributed generation and geo-targeting to ease grid constraints. *June 2016.*

[The EPA Clean Power Plan and State RPS Programs](#), by Edward A. Holt, Ed Holt & Associates, Inc. for the RPS Collaborative. This paper is intended to inform states as they think through how state Renewable Portfolio Standards (RPS) policies might interact with the EPA's Clean Power Plan (CPP), including consideration of state RPSs in state CPP plans. *May 2016.*

[A Summary Guide to Wood Biomass Heating Programs of CESA Members](#), by Val Stori, CESA Project Director. Advanced wood biomass heaters (also known as hydronic heaters or biomass boilers) are becoming more commonplace in the U.S. market. Several state clean energy programs provide incentives for advanced biomass heaters; most of the programs are in the Northeast and the northern tier of the west coast. This document surveys current and planned activities of CESA member states that focus on the deployment of modern, high-efficiency, wood heating systems. *March 2016.*

[Vermont Solar Cost Study: A Report on Photovoltaic System Cost and Performance Differences Based on Design and Siting Factors](#), prepared for CESA and the Vermont Department of Public Service Clean Energy Development Fund by Leigh Seddon, L.W. Seddon, LLC. This report analyzes installation cost and performance differences between different types of solar photovoltaic (PV) installations in Vermont. It examines solar facilities built on existing buildings, on new structures such as parking lot canopies, and projects built on open pasture land. Cost data is based on solar facilities built between September 2014 and September 2015. *February 2016.*

[Directory of State Clean Energy Programs and Policies for Low-Income Residents](#). This directory surveys current and planned state activities that seek to bring the benefits of clean energy to low-income residents and communities. It focuses primarily on clean energy generation, but also covers some energy-efficiency initiatives. It does not include low-income weatherization programs. We will update this document periodically to keep it current and useful as a directory of relevant state programs and policies. *December 2015; revised May 2016.*

[**A Solar Guide for Condominium Owners and Associations.**](#) This guide is designed for use by condominium owners in the Commonwealth of Massachusetts. It can help an interested member of a condominium association explore the options for installing solar PV. The guidebook discusses certain legal aspects of condominiums, explains how a solar project fits into an association's decision making process, and provides information about ownership models for solar projects at condominiums. Production of this guide was managed by CESA and the Massachusetts Department of Energy Resources through the New England Solar Cost-Reduction Partnership, a Rooftop Solar Challenge II project. *December 2015.*

[**PV Fire Safety Training Module.**](#) Rooftop PV systems present special considerations for firefighters. This slideshow provides information firefighters need to know to deal with fires on buildings equipped with PV systems. It is designed as a three-hour training module for fire instructors and firefighters. The training module was assembled for CESA by Fire Lieutenant and Fire Instructor Tony Granato and Master Electrician and PV Electrical Inspector Trainer Matt Piantedosi of the Cadmus Group. CESA commissioned this training module as part of our work for the New England Solar Cost-Reduction Partnership. *December 2015.*

[**Summary Table of New England Solar Policies and Programs.**](#) by Nate Hausman, CESA Program Associate. This Excel spreadsheet was produced by CESA for the New England Solar Cost-Reduction Partnership. The spreadsheet lists operative solar policies and programs for the five New England states participating in the New England Solar Cost-Reduction Partnership. *September 2015.*

[**Private Letter Ruling on Community Shared Solar: Cover Letter and FAQs.**](#) by CESA and Foley Hoag, LLP. In August 2015, the Internal Revenue Service issued a private letter ruling concluding that a particular owner of PV panels in an offsite, community-shared solar array is eligible to take advantage of one of the primary incentives offered to homeowners adopting solar—the 30 percent federal residential income tax credit available under Section 25D of the Internal Revenue Code, sometimes known in the industry as the “residential ITC.” CESA, in collaboration with stakeholders in Massachusetts and Vermont, and with attorneys in the Boston office of law firm Foley Hoag, LLP, arranged for the submission of the private letter ruling request. To better explain the impact of this ruling to the general public, CESA and Foley Hoag published a packet including: 1) a cover letter discussing the legal significance of the private letter ruling, 2) the private letter ruling, and 3) a Frequently Asked Questions leaflet on community-shared solar. *September 2015.*

Clean Energy Group Leveraged Projects

Clean Energy Group (CEG) Leveraged Projects are not funded by CESA, but provide benefits to CESA members and CESA projects.

Massachusetts Community Clean Energy Resiliency Initiative Partnership

PROJECT DIRECTOR: Todd Olinsky-Paul, with Sarah Galbraith

SUMMARY OF THE PROJECT

Through a no-cost contract with Massachusetts Department of Energy Resources (DOER), and with support from U.S. DOE, Sandia National Laboratories (SNL) and Pacific Northwest National Laboratory (PNNL), and foundation funders, CESA and CEG are providing free technical assistance to 11 Massachusetts municipalities to help them design, procure and install resilient energy storage systems. The municipalities receiving the assistance are DOER Community Clean Energy Resilience Initiative awardees, meaning they have received grants from the state to install clean, resilient power systems that will support critical infrastructure when the grid goes down. Resources from CESA's ESTAP program and CEG's Resilient Power Program are being leveraged in this project.

Massachusetts has emerged as a leader in energy storage and resiliency programs and policy. This technical assistance project is important because although the state has provided grants to help municipalities purchase batteries and other resilient power equipment, municipalities may need help in such areas as project design, procurement, vetting proposals, and project construction and testing. Technical and economic assistance, which is provided by the national labs and our expert consultants, is critical to ensure these projects not only function properly, but also optimize benefits to their host municipalities and communities.

Offshore Wind

Offshore Wind Accelerator Project

<http://www.cleangroup.org/ceg-projects/offshore-wind-accelerator-project/>

PROJECT DIRECTOR: Val Stori

SUMMARY OF THE PROJECT

The Offshore Wind Accelerator Project (OWAP) began as an effort of the Clean Energy States Alliance to ensure the availability of timely, fact-based information about the emerging U.S. offshore wind industry. In its first years, the project was focused on engaging a broad diversity of stakeholders and creating cohesive messaging across the multiple groups. OWAP is now managed by Clean Energy Group and is a CEG-leveraged project. The project focuses on communication and information sharing.

KEY PARTNERS/PARTICIPANTS

OWAP specializes in providing timely information to various offshore wind stakeholder groups, including state policy makers, environmental advocates, industry, NGO partners, and state agencies. Outreach activities, such as webinars, usually include representatives from multiple stakeholder groups.

FUNDING LEVERAGE

OWAP was initially funded by several private foundations and continues to receive some foundation funding.

SUMMARY OF PROJECT ACCOMPLISHMENTS/ACTIVITIES

- OWAP held several public webinars in partnership with the Northeast Wind Resource Center (see below) and the Maine Ocean and Wind Industry Initiative.
- Grew our social media sites to nearly 2000 Facebook and 200 Twitter followers. We provide postings with news and information about U.S. projects, European trends, finance trends, state policy, proposed legislation, conferences, webinars, and much more. (see <https://www.facebook.com/offshorewindworks> and @OSWindWorks).
- Publish a bi-monthly electronic newsletter to 700 subscribers. The newsletter contains state updates, international news, and industry developments.

PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

- Continue to communicate ideas and policy developments between states and other stakeholders through the OWAP newsletter.
- Continue to host webinars.
- Maintain outreach and social media channels.

Northeast Wind Resource Center

www.northeastwindcenter.org

PROJECT DIRECTORS: Val Stori and Warren Leon

SUMMARY

The U.S. Department of Energy and the National Renewable Energy Laboratory (NREL) funded six wind energy regional resource centers in 2014 to provide accurate and unbiased education and outreach to stakeholders and decision makers about wind energy deployment in their respective regions. The Northeast Wind Resource Center (NWRC), managed by CEG and Sustainable Energy Advantage, provides outreach and information to Northeast policy makers at the state, local, and regional levels for offshore and land-based wind. The NWRC engages in stakeholder outreach, interstate cooperation, knowledge transfer, and community dialogue. CEG manages the offshore wind-related work, which is divided into three components:

- Information sharing and collaboration among state policymakers.
- Information dissemination to other stakeholders through the NWRC website, webinars, and newsletters.
- Maintaining the Offshore Wind Hub—a comprehensive library of offshore-wind-related documents.

KEY PARTNERS/PARTICIPANTS

The following agencies and organizations are involved in the NWRC:

- New York State Energy Research & Development Authority
- Massachusetts Clean Energy Center
- New Hampshire Department of Environmental Services
- Rhode Island Office of Energy Resources
- Maine Ocean and Wind Industry Initiative

FUNDING LEVERAGE

NWRC is partially funded by the U.S. DOE through April 2017. The John Merck Fund provided financial support for FY 2016. We are currently seeking foundation funding to support future work.

SUMMARY OF PROJECT ACCOMPLISHMENTS

- Established and maintain active communication channels, including a regular e-newsletter, webinars, and various social media platforms (see <https://www.facebook.com/offshorewindworks> and [@OSWindWorks](#)).
- Helped submit a successful application to U.S. DOE for a multi-state roadmap for offshore wind
- Hosted several webinars in partnership with the Maine Ocean and Wind Industry Initiative
- Updated and maintained the Offshore Wind Hub

PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

CEG's work for the NWRC will continue to focus on offshore wind. Work on land-based wind in the region will be carried out by Sustainable Energy Advantage and the Maine Ocean and Wind Industry Initiative. .

- Continue to manage the U.S. DOE-funded Northeast Wind Resource Center program and website (www.northeastwindcenter.org). This virtual information-based resource center for the Northeastern states will support the needs of policymakers at the state, local, and regional levels.
- Continue to maintain the Offshore Wind Hub website (www.offshorewindhub.org). We will update and maintain this site so that it includes a comprehensive collection of state-by-state documents relevant to offshore wind development. We will add current information about states in the Southeast. If resources are available, we will add West Coast and Great Lakes states into the Offshore Wind Hub.
- Seek funding or sponsorship opportunities for the long-term maintenance of the Offshore Wind Hub.
- Work with individual states to assist in the development of strategic, long-term policies to advance OSW.
- Work on regional strategies with multiple states to increase opportunities for networking, information sharing, joint procurement, supply chain, and siting cooperation.
- Host webinars to share information related to offshore wind project development, European knowledge, and the supply chain.

Resilient Power Project

www.resilient-power.org

PROJECT DIRECTORS: Lew Milford, Rob Sanders, Todd Olinsky-Paul, and Seth Mullendore

SUMMARY

With the Resilient Power Project, Clean Energy Group and Meridian Institute are advancing solar+battery storage systems and other clean, distributed energy technologies to help solve multiple climate and community resiliency challenges facing communities across the country. The project is designed to accomplish the following goals:

- To deploy low-carbon, distributed, clean energy mitigation and adaptation solutions to reduce reliance on carbon-based fuel systems
- To advance solar+storage solutions to prevent or alleviate damaging impacts of electricity grid outages from severe weather and to provide energy resiliency
- To improve community resilience for vulnerable populations by stabilizing and reducing their electricity bills with solar+storage systems and other behind-the-meter, clean energy technologies.

The project began after Superstorm Sandy left over 8 million people without electricity. The impacts were severe, especially harming vulnerable populations like the poor, the elderly, the disabled, and those needing supportive services. With support from several national foundations, the Resilient Power Project has worked to advance state and municipal efforts to address the need for resilient power systems in the Northeast and beyond. Now entering into its third year, the Project has extended its work beyond the Northeast and is focusing specifically on new solar programs in California that are directed to result in on-bill reductions of electricity with the installation of solar systems at multifamily affordable housing. The Project is also working to develop regional efforts around resiliency planning for energy in large metropolitan areas, as well as to develop models for resilient power for low-income rural applications

KEY PARTNERS

This project partners with state agencies, low-income housing project developers, federal agencies, low-income advocacy groups, and municipalities. The Resilient Power Project overlaps with and has leveraged the resources of our ESTAP energy storage project, which is supported by the DOE Office of Electricity and Sandia National Laboratories.

FUNDING LEVERAGE

The Resilient Power Project is funded by foundation grants.

SUMMARY OF PROJECT ACCOMPLISHMENTS

The Resilient Power Project has succeeded in creating a new field of clean energy deployment focusing on resilient power (solar plus battery storage) to protect vulnerable populations, with a focus on affordable housing. There are several updates worth mentioning in regard to second year effort of this project regarding *projects, programs, and finance*.

- The Project continues to deploy its Technical Assistance Fund (with dedicated funding from foundations) to help support affordable housing and community-based solar+storage projects. To date, CEG has provided support to 14 housing projects around the country, and 14 communities in

need of support for solar+storage installations at community facilities. By the end of 2016, we expect at least three new solar+storage projects to be completed on multifamily affordable housing projects, a national first. Technical assistance has included information and education, meetings with engineers, reviewing scopes of work for feasibility and engineering studies, assistance with selecting vendors for these studies, and assistance with engineering, commissioning, and data collection.

- The Project continues to inform new state and municipal programs to support solar+storage in affordable housing, most recently on the passage of California law AB 693, which provides up to \$1 billion in new incentives for solar systems located on low-income housing properties to reduce tenant electric bills. In cooperation with the California Housing Partnership, we are working to provide needed information to most effectively design the law's implementation. We have completed the first economic analysis of how solar+storage technologies, when installed together, will save California tenants and housing developers significant—if not unprecedented—savings on their electric bills. The analysis should inform state decision makers on how to create the most effective and economically advantageous new policies to scale up these project, see <http://www.cleaneenergy.org/wp-content/uploads/Closing-the-California-Clean-Energy-Divide.pdf>.
- The Project has embarked on a new finance strategy to inform foundation grant making and investment by undertaking a “capital scan” to help foundations decide how to support of resilient power technologies, how to attract new capital into this space, and how to help technology providers and consultants focus on this clean energy sector. In addition, we will undertake an investment analysis that examines the impact of ownership structures, incentive programs, and tax incentives on an investor's decision on whether to invest in California solar+storage projects in affordable housing. This analysis is essential for understanding the returns and incentives needed for developers to invest in solar+storage projects under California Assembly Bill 693.
- The Project's website has become the national clearinghouse on resilient power information for multifamily affordable housing and critical community facilities. Over the last two years, we have reached over 10,000 stakeholders around the country through our reports, webinars and presentations. We have improved our website (www.resilient-power.org) and expanded e-distribution lists to more than 5,000 subscribers.

PROJECT PRIORITIES AND ACTIVITIES FOR THE COMING YEAR

- Continue to work with the participating states and municipalities as they roll out their resilient power programs. Expand work to include additional states, municipalities and other stakeholders.
- Provide technical assistance to selected municipalities that will be responsible for putting state funds to meaningful use in resilient power projects and in addressing the resilient power needs of low-income and vulnerable populations.
- Expand policy advocacy effort needed to overcome the market gaps that inhibit rapid adoption of new resilient power technologies in low-income communities.
- Help to advance smart and creative community finance tools, state policy incentives, and information that can ensure resilient power projects get built.

CEG Publications: July 2015 to May 2016

[Closing the California Clean Energy Divide: Reducing Electric Bills in Affordable Multifamily Rental Housing with Solar+Storage](#), by Clean Energy Group in collaboration with the California Housing Partnership and the Center for Sustainable Energy. This economic analysis indicates that pairing solar PV with battery storage systems can deliver significant electricity bill savings for California affordable housing residents and property owners. *May 2016.*

[Comments in Response to Internal Revenue Service Notice 2015-70 Request for Comments on Definitions of Section 48 Property](#), by Nate Hausman and Seth Mullendore. The IRS recently issued a notice, 2015-70, for comments on how the federal investment tax credit (ITC) should cover solar and storage systems. Clean Energy Group submitted comments that strongly support the eligibility of storage under the ITC. *February 2016.*

[Solar+Storage Project Checklist](#), by Lew Milford and Seth Mullendore. The Solar+Storage Project Checklist was designed to help cities or developers assess whether solar storage battery systems make sense for their buildings. *January 2016.*

[Resilience for Free: How Solar+Storage Could Protect Multifamily Affordable Housing from Power Outages at Little or No Net Cost](#), by Lew Milford, Robert Sanders, Seth Mullendore. This report concludes that with the right market structures and incentives, solar+storage systems can provide a positive economic return on par with energy efficiency or stand-alone solar. *October 2015.*

[Resilient Power Case Study Series: Fuel Cells for Resilient Power](#), by Sarah Galbraith. This case study series covers several examples of fuel cells used in resilient power systems. *October 2015.*

[Energy Storage and Electricity Markets: The value of storage to the power system and the importance of electricity markets in energy storage economics](#), by Seth Mullendore. Despite the fact that energy storage technologies have the capacity to benefit every segment of the power system, from generation to end-use, it can still be difficult to cost effectively deploy storage across much of the U.S. *August 2015.*

Program Area 2: CESA Client Services

CESA provides services that are designed to provide CESA members with essential information, support network development, and encourage the interchange of ideas and best practices among the members. In addition, we offer Core CESA members individualized consulting and analysis assistance. CESA's communication efforts focus both on promoting and disseminating our own publications and resources as well as promoting the work and achievements of our member organizations. CESA's communications network is large and steadily growing, and we use a variety of communication platforms.

CESA NATIONAL MEMBERSHIP MEETINGS

CESA membership meetings are one of the most appreciated services that CESA offers its members. The meetings allow for direct interaction between members and are essential to exchange of best practices. CESA members come together approximately every 10 months for several days to meet with their colleagues, discuss successes and challenges in their programs, develop new joint projects, and learn about the opportunities available to their programs through innovative finance, policy, and market initiatives. The small-group nature of these meetings allows CESA members to engage in frank discussions about how their programs are progressing and how effective programs can be emulated by others. The meetings also feature advice from and dialogue with leading representatives of clean energy finance, industry, federal agencies, and other stakeholders.

Core Members receive complementary registration to these meetings, including meals and receptions. Meeting materials are archived in the Members-Only section of the CESA website. CESA members serve as co-hosts for these meetings as the meeting venues move from state to state. This affords the host-member to have more of their staff participate in the meeting and its discussions. The meetings are also held periodically in Washington, DC to promote the value of member programs to federal agencies and Congressional staff members.

CLEARINGHOUSE FOR INFORMATION ON CLEAN ENERGY BEST PRACTICES

CESA serves as a clearinghouse for reports and analyses on clean energy and related economic development issues. Reports and links to articles of interest are featured in the CESA Monthly News-letter and disseminated via social media outlets. Other resources can be found in the CESA Resource Library on our website, where information can be sorted by project category or resource type. See www.cesa.org/resource-library. The CESA website (www.cesa.org) is the one-stop-shop for information about all CESA activities. CESA staff maintains web pages dedicated to each of the active CESA projects, which are regularly updated with news, reports, resources, and events.

The CESA website contains a "Members-only Section" that is accessed by password (please contact [Maria Blais Costello](#) if you need the log-in info). There, the staff posts organization-specific documents, archives CESA newsletters, provides information about CESA members-only events, and maintains a membership directory. We also work with CESA members to maintain the "MEET CESA'S MEMBERS" section of the website, which provides website visitors with profiles that highlight the work of CESA-member organizations. Please contact [Samantha Donalds](#) to make any updates to your organization's profile page. In the coming year, we will further highlight the work of the individual CESA members through the website and through social media.

CESA MEMBERS NEWSLETTER

Each month, CESA staff distributes a members-only e-newsletter with information useful to our members. In the newsletter, we promote upcoming webinars, provide updates on CESA projects, collect clean energy news stories of interest to the members, highlight CESA-member news, and provide links to new publications and reports on clean energy technology, finance, and policy. CESA newsletters are distributed via the members' e-List and archived in the members-only section of the CESA website. Send your news items or requests to be added to this distribution list to Samantha@cleanegroup.org.

CESA WEBINARS

CESA hosts frequent webinars so CESA members can receive information on CESA project initiatives and results, recent developments in the clean energy field, and timely updates and collaborations. These events usually feature guest speakers. Recordings of all of the webinars are available on the CESA website and can be accessed via project pages or on the Webinars page, www.cesa.org/webinars/, where webinars can be accessed by month and year.

THE CESA BRIEF

The CESA Brief is a public e-newsletter that provides monthly updates about the programs and accomplishments of the Clean Energy States Alliance (CESA) and its member organizations. It highlights new CESA reports, member press releases, and other news of significance to state clean energy programs. The "Brief" provides a spotlight on member news and CESA activities. Currently there are over 900 subscribers to this newsletter. Past issues are found at www.cesa.org/resource-library/the-cesa-brief-archives/.

CESA AND CEG PROJECT NEWSLETTERS

CESA publishes several monthly or bi-monthly project-related e-newsletters, including the CESA Brief, the Resilient Power Project Newsletter, the Offshore Wind Accelerator Project Newsletter, and the State-Federal RPS Collaborative Newsletter. Newsletters are archived on the websites via each project's page. The signup form for CESA's project newsletters and information e-lists is found at www.cesa.org/projects/project-information-e-lists/.

CESA MEMBER LISTSERV AND E-LIST

CESA maintains the CESA Members Listserv which is a private email distribution tool that allows instant two-way communication with the staffs of CESA-member organizations. This list is only available to CESA members and the email address is cesamembers@cleanegroup.org. By sending an email to this private list, CESA members can send questions, information, or other items that may be of interest to the entire CESA membership. Please contact maria@cleanegroup.org if you want to be added to the CESA-member listserv.

PROJECT E-LISTS

For many of the individual active CESA projects, we offer e-Lists that CESA members can join to receive updates about a specific CESA project via our iContact service. You can also sign up for the project e-List via each project's webpage on the CESA website or at www.cesa.org/resource-library/cesa-project-info-and-newsletter-sign-up/.

SOCIAL MEDIA

CESA staff maintain various social media platforms to share news about our members and about the CESA organization and several of its projects. CESA has a large and growing audience and network on both

Facebook (<https://www.facebook.com/cleanenergystates>) and Twitter (https://twitter.com/cesa_news). We encourage all CESA members to “Like” us on Facebook and to follow CESA on Twitter.

CESA IN WASHINGTON

CESA maintains a working relationship with the U.S. Department of Energy and other federal agencies in Washington, D.C. to ensure that the interests and perspectives of state-level, publicly funded clean energy programs are articulated clearly and considered by policy leaders, federal officials, and external stakeholders. CESA also periodically hosts Congressional Briefings and Networking Receptions in Washington to promote the work of our members and the organization.

CESA COLLABORATIONS FOR MULTI-STATE FUNDING OPPORTUNITIES

CESA works with many federal agencies and non-profit organizations to create and implement collaborative initiatives to advance clean energy deployment and the objectives of CESA members. CESA also seeks out opportunities to secure contracts for services that advance the interests and goals of CESA members. Because these partnerships and contracts provide additional funding and organizational resources, they leverage CESA members’ annual dues and allow CESA to accomplish much more than it could otherwise. Several key CESA projects, including the Energy Storage Technology Advancement Partnership Project and the State-Federal RPS Collaborative, are outgrowths of efforts to seek outside funding.

In some cases, CESA helps subgroups of its members organize into a consortium to apply collectively for a federal funding opportunity. And CESA lets members know when there is a good opportunity for them to apply individually for federal funding. In the coming year, CESA will look aggressively for ways in which CESA members can apply for federal funds. CESA staff will also explore new ways to partner with its members, or sub-groups of its members, in joint applications for federal funding, comments to regulatory agencies, and presentations at major energy conferences.

CESA INDIVIDUAL CLIENT SERVICES

CESA staff provides individualized direct assistance to CESA members in response to requests for us to help address state-specific issues. Individual client services assistance typically involve the following:

- **Technical Assistance** on issues related to program development and analysis.
- **Requests** for specific information such as information from other states or countries, or data acquisition requests.
- **Public Education and Outreach** expertise for individual state initiatives.
- **Fundraising Assistance** to help CESA members conceptualize and write responses to federal requests for proposals.
- **Joint Funding Opportunities** to apply with individual members or sub-set of CESA members on federal funding opportunities or foundation proposals in support of joint projects.
- **Support** to assist individual funds to support continuation of their programs by providing information and analysis for legislative or administrative processes.

Core members are encouraged to request assistance as needed. Affiliate members may request assistance to be provided on a fee-for-service basis to cover staff costs associated with addressing the request.

CESA's Membership Categories

CESA Core Members

CESA's strength lies in its network of members. CESA Core Members are primarily state clean energy programs, as well as municipal and regional clean energy programs, that have funding to support clean energy project deployment, technology development, and markets. Through innovative policy and finance mechanisms—such as grants, loans, equity investments, research and development efforts, and public education—these sub-national programs are providing billions of dollars of support for clean energy across the U.S.

Core Members are entitled to the full spectrum of CESA member services and privileges, including:

- Complimentary participation in all CESA national member meetings, listservs, newsletters, webinars, and special events to meet with colleagues, discuss successes and challenges in programs, develop new joint projects, and learn about the opportunities available to their programs through innovative finance, policy and market initiatives.
- Access to the CESA Members listserv and the collective expertise of an exclusive, national network of peers to explore clean energy problems and solutions candidly.
- Access to the CESA Members section of the CESA website for information and analysis that is developed value specifically for CESA's Members.
- One-to-one consulting time from CESA staff to meet individualized technical assistance requests.
- Participation with CESA staff at clean energy conference events to highlight the Member's innovative clean energy programs at a national platform.
- Program or project highlights publicized in [The CESA Brief](#), a periodic e-news blast sent to over 900 subscribers.
- Promotion of member news and press releases in CESA social media platforms: CESA's Twitter feed ([@CESA_News](#)) and Facebook, <https://www.facebook.com/cleanenergystates>.
- Participation in CESA governance activities.

CESA Affiliate Members

Affiliate Membership is available to state agencies working in association with CESA Core Members, but also to NGOs, universities, economic development associations, and technology transfer offices, as well as cities, counties, and state agencies that work to advance clean energy deployment but do not have a public clean energy fund. Affiliate Membership offers the following benefits:

- Participation in all CESA webinars
- Invitation to attend CESA national member meetings (registration fee required)
- Subscription to the CESA Members Newsletter
- Participation in CESA Project and member listservs and e-Lists, where Affiliate and Core members can share ideas and seek joint solutions to common challenges

Please contact [Maria Blais Costello](#) for more information about CESA membership or see www.cesa.org/membership/member-benefits-and-services/.



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The Clean Energy States Alliance (CESA) is a national, nonprofit coalition of public agencies and organizations working together to advance clean energy. CESA members—mostly state agencies—include many of the most innovative, successful, and influential public funders of clean energy initiatives in the country.

CESA works with state leaders, federal agencies, industry representatives, and other stakeholders to develop and promote clean energy technologies and markets. It supports effective state and local policies, programs, and innovation in the clean energy sector, with emphasis on renewable energy, power generation, financing strategies, and economic development. CESA facilitates information sharing, provides technical assistance, coordinates multi-state collaborative projects, and communicates the positions and achievements of its members.

www.cesa.org

