

# 2016 CSE Impact Statement

## From the Executive Director



During the past 20 years, Center for Sustainable Energy staff have taken pride in building a nonprofit that develops and administers programs for communities and states wanting to capitalize on the advantages of adopting clean energy. And while our passion is driven by environmental benefits of what we do, we are truly in the business of energy market transformation.

I realized looking back on CSE's 2016 accomplishments, that as we continue into 2017, the new political environment will require us to sharpen our focus on the economic and financial benefits of this transformation. Accelerating the deployment of clean and renewable energy is fueling economic growth and creating new employment opportunities. Here's some evidence:

- Total U.S. clean-tech investments topped \$14.5 billion in 2015, with two-thirds in California.
- Solar industry employment jumped by over 73,000 jobs or 25% last year.
- Wind industry employment added 25,000 new jobs in 2016, totaling 102,000 jobs nationally.
- Energy efficiency jobs increased by 133,000 for a total of 2.2 million in 2016. By some estimates, this figure represents almost 10 times more jobs than in oil and gas extraction, with another 769,000 workers in renewable energy.
- Of the 2.4 million employees in the motor vehicles industry, 259,000 jobs are identified as supporting alternative fuel vehicles, an increase of 69,000 jobs during 2016.

The triple bottom line – economy, society and environment – affects everything we do. Clean energy is not a red or a blue thing, as the economics of alternative sources are growing more attractive for states across the political divide. It's simply the right thing, for us and upcoming generations.

We're positioning ourselves for that future, building on past successes, enhancing data analysis and advancing policy capabilities, so we can truly accelerate the opportunities that exist in 2017 and well beyond.

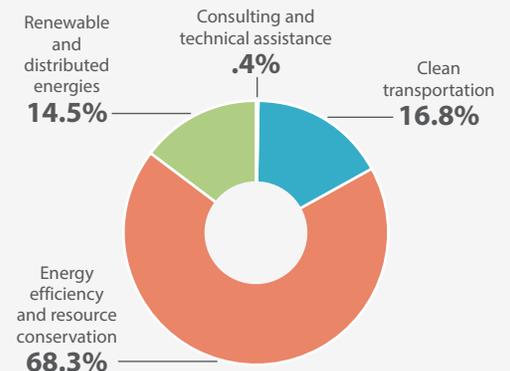


Len Hering, RADM, USN (ret.)

## 2016 CSE Financial Summary

Operating revenues in fiscal year 2016 totaled \$167.7 million, including \$129.6 million in funding distributed as rebate and incentive payments. The 2016 service revenues of \$38 million were earned in performance of contracts that include administration of rebate and incentive payments; marketing, education and outreach; research and analysis; and technical assistance. The 2016 operating revenues remained unchanged over the prior year.

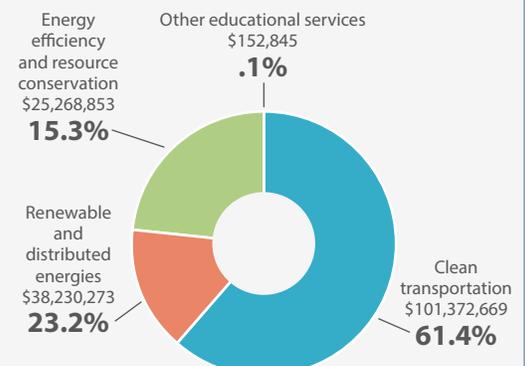
### Percentage of Revenues by Energy Sector



### Expenses, Excluding Rebates Delivered

General management: \$3,870,827  
Fundraising: \$626  
Program areas: \$165,024,641

### Breakdown of Program Area Expenses



# Benefits to the states, communities and people we serve . . .

## Supporting Sound Public Policy

- Throughout 2016, CSE's Policy team led the **California Benchmarking Collaborative**, a group of local governments, affordable housing advocates, national organizations and industry groups, in creating the nation's first statewide multifamily and commercial building benchmarking program.
- CSE helped shape the discussion around reform of California's **Self-Generation Incentive Program**, which ultimately led to a **doubling of funding to nearly \$567 million through 2019** and an increased focus on **advanced energy storage**.
- CSE advised on **new state energy efficiency business plans** through the California Energy Efficiency Coordinating Committee, provided technical support on **more than 20 state bills** and **eight local government policies** and produced **over 40 regulatory filings on energy and transportation**.



Executive Director Len Hering address inaugural Clean Energy Financing Advisory Council seminar.

## Making Clean Vehicles More Accessible

- In order to make clean vehicles more accessible to a greater number of California drivers, especially in communities that are highly impacted by air pollution, the **Clean Vehicle Rebate Project** implemented **increased incentive levels for low- and moderate-income consumers**.
- Through the California Air Resources Board's **Public Fleet Pilot Project**, CSE awarded **over \$2.8 million for more than 350 electric vehicles at 60 public agencies** in the state's most pollution-burdened communities.
- CSE entered its second year administering **Massachusetts' MOR-EV program**, which is responsible for helping the state achieve greenhouse gas reductions through incentivizing drivers to go electric.



Colin Santulli, senior transportation manager, talks to the media about electric vehicles.

## Expanding CSE Services

- CSE merged with the San Diego-based nonprofit Equinox Center to **create the Equinox Project** that will enhance and expand the project's work, which focuses on regional environmental, economic and civic affairs.
- CSE's **Clean Energy Financing Advisory Council** kicked off a two-year tour of California to increase awareness of financing programs and options that support home and commercial energy improvements.
- CSE launched the **Home Energy Improvement Potential Map**, a free online resource that gives contractors and local governments a tool to identify California communities where residents are most likely to engage in energy improvements.

## Studies & Education in Clean Energy

- The U.S. Department of Energy (DOE) SunShot Initiative awarded the Building Codes Assistance Project and CSE nearly \$800,000 over two years to develop **solar educational materials and training for architects and engineers** in 22 metropolitan areas nationwide.
- In collaboration with the California Housing Partnership and Clean Energy Group, CSE released a **study** showing **how battery energy storage combined with solar energy systems** would lead to significant electric bill savings for both property owners and residents of multifamily affordable rental housing in California.
- CSE's Equinox Project released the **2016 San Diego Regional Quality of Life Dashboard**, which **assessed the top economic and environmental indicators** to gauge the region's progress toward sustainability.

## Research Awards

- The California Energy Commission awarded a five-year, \$5 million grant to fund the **San Diego Regional Energy Innovation Cluster**, a nine-member partnership among regional business organizations and academic institutions that includes CSE.
- The DOE SunShot Initiative awarded CSE \$1.2 million to analyze how **solar permitting and related local ordinances and practices can be streamlined** to effectively combat barriers that slow the deployment of rooftop solar installations.

## Celebrating CSE's 20th Anniversary

- Hundreds of sustainability leaders, VIPs and other guests gathered for CSE's 20th Anniversary in October. During the presentations, speakers praised the center's many successes and officials offered **proclamations citing CSE's role in clean energy developments and policymaking**. The evening's highlight was speaker State Senator Fran Pavley, who was given CSE's inaugural Clean Energy Champion award "in honor of the passage of California's landmark Global Warming Solutions Act and your strong leadership in support of clean energy."



State Senator Fran Pavley accepts CSE's Clean Energy Champion award.

# In 2016, CSE facilitated . . .

137<sup>MW</sup>

of distributed generation capacity through incentives, technical reviews and/or direct technical assistance



99,435<sup>MWh</sup>

of energy savings through incentives, technical reviews and direct technical assistance



1.2<sup>+</sup> million

Therms saved through incentives and direct technical assistance



\$143<sup>+</sup> million

in rebates processed for clean vehicle and renewable energy incentives



581,568

metric tons of lifetime avoided greenhouse gas emissions resulting from incentivized alternative fuel vehicles and distributed generation



325

local governments received direct technical assistance



2,686

community, regional and state workshops



225,041

direct engagements with consumers



1.3<sup>+</sup> million

reached digitally through website and social media



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