



# Sustainable Energy Roadmap

## Advancing Resilient Valley Communities

01/28/16
Program Information























# Agenda

- Sustainable Energy Roadmap Overview
- Municipal Participant Benefits & Process
- SER Core Implementation Team
- Discussion of Relevance to Needs and Interests















# Sustainable Energy Roadmap (SER)

#### www.SustainableEnergyRoadmap.com

A process and set of tools to support public agencies to adopt and pursue clean energy

and sustainable development goals.

Baseline and benchmark policies, standards & programs

- o Identify local, relevant goals related to
  - Energy & water efficiency/ conservation
  - Solar/ renewable energy
  - Transportation and land use.
- o Design a <u>roadmap for action</u> that promotes long-term emissions reductions.
- o Provide a voice for communities in planning and program adoption.







www.sustainableenergyroadmap.com







Clean Energy Roadmap™

Approach Programs Activity Map

MS

Sustainable Energy Roadmap for the San Joaquin Valley



cal experts to support San Joaquin Valley communities as they pursue goals to smart growth transportation, land use, climate, and energy. The SER sich is a compelling shared services model that provides vetted, easy-to-access aution, actionable resources, and tailored assistance to benefit municipalities, esidents, and local buniesess. Through participating in SER, San Joaquit, level and counties will benchmark their energy and sustainable development policies orgams, identify best practices, and pursue goals that make economic sense for ommunities.





# Municipal Partner Opportunity

- Jump-start the process to plan, adopt and launch critically needed policies and supportive programs.
- Leverage a proven approach and team of experts to design an action plan that can be addressed over time.
- Facilitate critical community dialog and active engagement.





















## SER Key Elements

- Environmental & energy benchmarking
- Tailored roadmaps that serve as action plans
- Goal setting tied to local needs/interests
- Inventory of accessible best practices and customizable policy/program/project resources and tailored assistance
- EJ community engagement and services
- Partnerships with regional industry and workforce development organizations
- Online Roadmap platform and recognition
- Municipal partner \$5K program stipend (available to first 18 sign-ups)











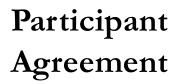






## **SER Process**







Benchmarking Survey



**Goal Setting** 

Technical Assistance & Support





# SER Process (Cont'd)

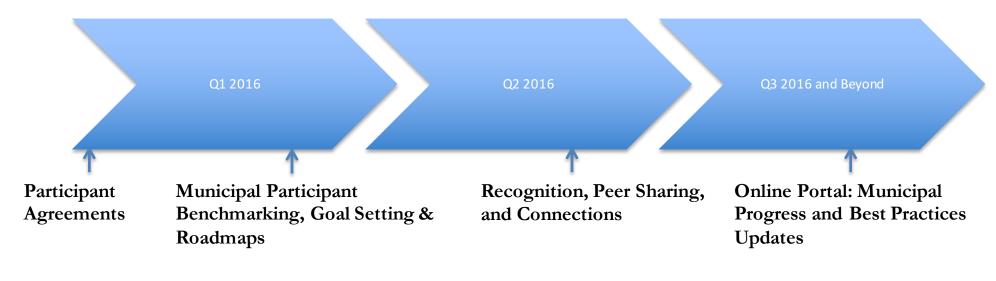
- 1. Baseline/ benchmark existing municipal planning, policies, codes, standards and market development.
- 2. Identify top 3 to 5 goals tied to best practices and informed by community input.
- 3. Finalize and publish jurisdiction's roadmap.
- 4. Track and publicize progress.



# Sustainable Energy Roadmap Timeline

#### Ongoing:

- Customized Technical Assistance
- EJ Community Engagement and Services
- Industry/Training Connections





## Roadmap Framework

**Roadmap Goals** 4 categories, 6 focus areas **Local Customization Tools, Templates, Case Studies** Select relevant goals to pursue Supported by 240 targeted resources **Customized** Roadmap **Technical Support** Webinars, on-site trainings, program dev. **Impact Assessment & Recognition** 



# Building on a Tested Model







**Energy Efficiency** 



Renewable Energy



Clean Transportation













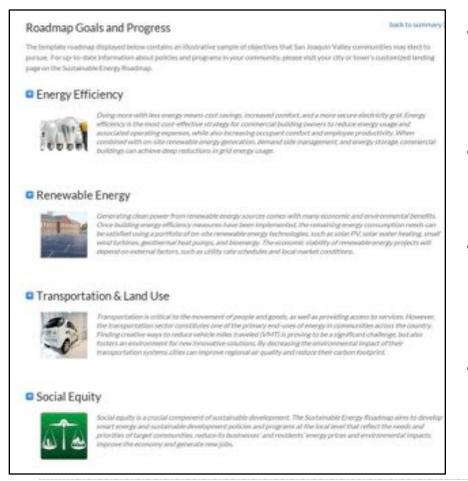








# Roadmap & Categories



## Energy and Water Efficiency

 Building envelope, lighting, HVAC, demand side management, Water Efficiency

## Renewable Energy

o Solar PV, solar water heating, wind, geothermal, bioenergy, energy storage

#### Transportation

 Public transit, active transportation, fleet mgmt., controls measures, smart growth strategies

## Social Equity

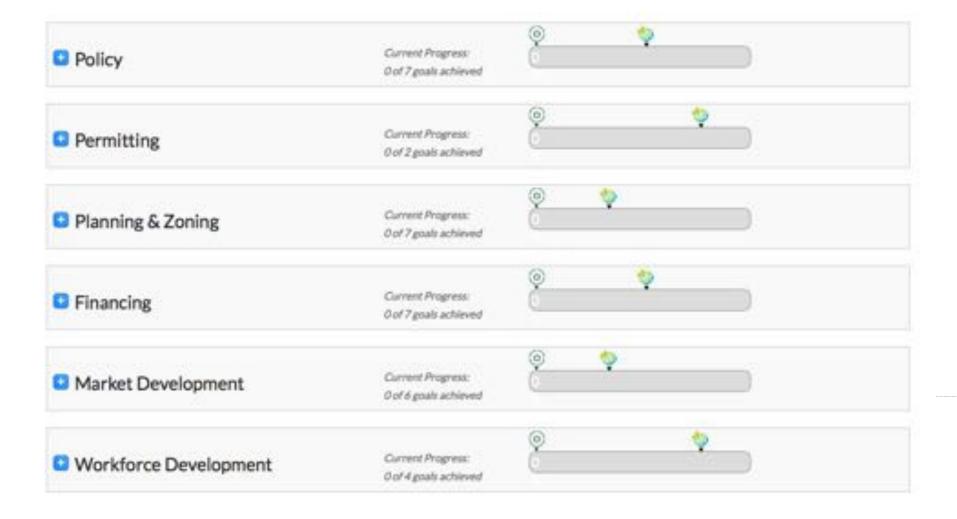
 Directly engage environmental justice and workforce development stakeholders

## Roadmap Categories

#### ■ ENERGY & WATER EFFICIENCY



Doing more with less energy means cost savings, increased comfort, and a more secure electricity grid. Energy efficiency is the most cost-effective strategy for commercial building owners to reduce energy usage and associated operating expenses, while also increasing occupant comfort and employee productivity. When combined with on-site renewable energy generation, demand side management, and energy storage, commercial buildings can achieve deep reductions in grid energy usage.





## Goal Setting, Guidance, & Resources





## Resource Library



#### Features & Contents

- Searchable by energy technology type and keyword
- Permitting and inspection checklists
- Renewable energy-friendly ordinances and zoning codes
- Solar-ready/green building guidelines
- Financing resources & incentives
- Consumer education & awareness
- Case studies and action toolkits



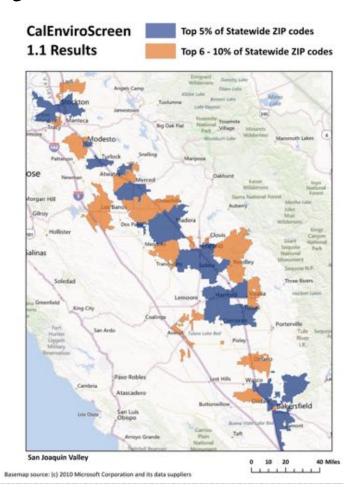






## SER Pilot Projects and EJ Connections

- Housing Upgrade Services to Disadvantaged Communities
- Solar Multi-Family Affordable Housing
- Municipal Solar Aggregation
- Solar on Ag Lands
- Exterior Water Efficiency Ordinance and Staff Training





# Next Steps

- Contact us for more information
  - Karly Zimmerman: (415) 507-1430; Karly@seiinc.org
- Sign up
- Get started on benchmarking and setting goals
- Start leveraging your \$5,000 SER stipend
- Receive expert technical assistance to help you achieve goals















# **Q&A DISCUSSION**















## **SER Contacts**

## www.SustainableEnergyRoadmap.com

Karly Zimmerman

Strategic Energy

Innovations

(415) 507-1430

Karly@seiinc.org

Michael Sigala

SJ Valley Regional Policy Council

(559) 266-6222

Michael@sigalainc.com



















## Extra

















# San Joaquin Valley Effort funded by Strategic Growth Council

- Proposition 84 state funding
- Supporting 20 local governments to select strategies to reduce greenhouse gas emissions
- Promote equity by bringing environmental justice communities into planning process

















## SER CORE TEAM















# Strategic Energy Innovations

SEI develops and delivers solutions customized to help communities accomplish their sustainability goals through green building, clean energy, resource efficiency and support of a local and qualified green workforce. We're a certified green business, community-based nonprofit organization committed to empowering under-served markets:



- Local governments;
- Small and rural communities;
- Affordable housing providers and residents;
- Small businesses;
- Schools, colleges, and universities



www.seiinc.org















# SJV Regional Policy Council

- The San Joaquin Valley Regional Policy Council builds regional consensus on issues of Valley importance. The Council is positioned to have a unique and potentially pivotal position to further Valley collaborative efforts and to improve the quality of life for all Valley residents.
- The Policy Council provides guidance on common interregional policy issues and also represents the San Joaquin Valley at public forums such as the California Transportation Commission, with the Governor and his administration, as well as the State and Federal legislative bodies that require a common voice from the San Joaquin Valley.

#### www.sjvcogs.org















## **MCTC**

• The Madera County Transportation Commission (MCTC) and each of its member agencies (Cities of Chowchilla and Madera and Madera County) are considering long-term County-wide housing, transportation, and land use alternatives; taking a big picture look at how Madera County can grow over time in a way that uses natural resources wisely, protects existing communities and the environment, conserves farmland and open space, and supports the Madera County economy.

## www.maderactc.org















# Optony, Inc.

Optony develops and deploys clean energy best practices across the entire project lifecycle for government agencies, schools, banks and commercial organizations. Optony has been involved in over 3GW of project activity globally from strategy to project commissioning.

Optony creates and manages national-scale projects for clean energy market transformation including a variety of projects for the Department of Energy under the SunShot Initiative.



Award Winning Pubic Sector Project



Award Winning Pubic Sector Project



Multiple Grant-Winner for Solar Market Transformation



Best of Silicon Valley Recognition for Energy Services

"Optony's consulting service is a must-have for any organization considering an investment in solar. Based on Optony's comprehensive analysis and recommendations, we now have a low-risk, high-return solar strategy."















## **NARC**

- The National Association of Regional Councils (NARC) serves as the national voice for regionalism by advocating for regional cooperation as the most effective way to address a variety of community planning and development opportunities and issues.
- NARC's member organizations are composed of multiple local governments that work together to serve American communities large and small, urban and rural. NARC's agenda includes, but is not limited to, transportation, economic and community development, environment, homeland security and regional preparedness, and a variety of community issues undertaken by its member organizations.

www.narc.org















## **CEG**

• The Colorado Energy Group, Inc. (CEG) facilitates solutions to complicated energy-related sustainability issues via best practice integration, exhaustive stakeholder analysis, human asset mapping and strategy development. CEG is known for community-focused clean energy technology market analyses, especially in the Western United States. CEG's President George Burmeister has provided clean energy policy advice to private and public sector leaders for more than two decades, concentrating his efforts on the optimum combinations of energy efficiency and renewable energy technologies, practices and policies. CEG is headquartered in Boulder, Colorado and also has offices in Dallas, Texas and San Francisco and Stockton, California and Washington, D.C. CEG was founded in 1997.

#### www.coloradoenergygroup.com















# The City of Visalia

• The City of Visalia is the oldest San Joaquin Valley town between Los Angeles and San Francisco. Visalia staff and elected officials have demonstrated significant leadership in the areas of energy and resource conservation. Serving as a key member of the Valley Energy Watch Partnership with SCE, Visalia staff continue to set an example for the region through municipal actions to support solar energy, resource efficiency and smart land use. The City has adopted a climate action plan that incorporates a host of measures and strategies designed to meet ambitious greenhouse gas emissions reduction targets.

www.ci.visalia.ca.us











