



2017



U.S. DEPARTMENT OF ENERGY

SOLAR DECATHLON

## Consumer and Homeowner Workshops

**All workshops are held in the Wells Fargo Education Tent in the Solar Decathlon village.**

### **Energy Efficiency and Solar Possibilities for Your Home**

**Date(s)/Time(s):**

- Saturday, 10/7/17, 11:00 – 11:45am
- Sunday, 10/8/17, 11:00 – 11:45am
- Saturday, 10/14/17, 11:00 – 11:45am
- Sunday, 10/15/17, 11:00 – 11:45am

**Presenting Organization:**

City and County of Denver, Environmental Health Department


**Workshop Description:**

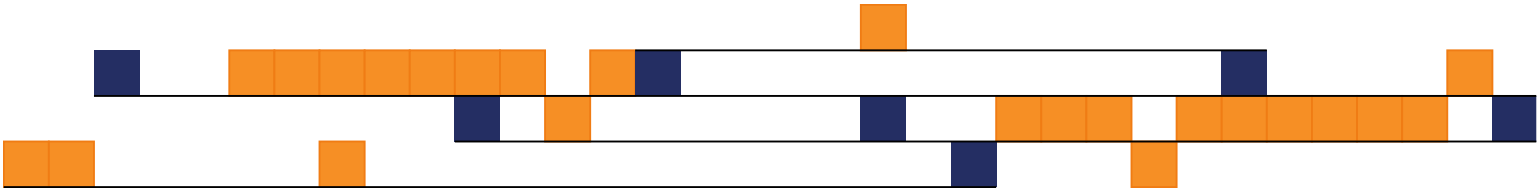
Subject matter experts from the City and County of Denver's Environmental Health Department present energy efficiency and renewable energy options for homeowners. Attendees take away an understanding of the range of energy efficiency improvements for the home, as well as options for solar, and how best to find resources in their community when starting a project.

**Presenter Bios:**

**Julie Saporito**, Program Administrator, Denver Department of Environmental Health. Julie began her environmental career with the City of Santa Rosa in 2009 and has been with Denver's Environmental Health Department since 2011. She focuses on residential energy and solar programming for the community.

**Taylor Moellers**, Program Coordinator, Denver Department of Environmental Health. Taylor runs the Sustainable Neighborhoods program at the City and County of Denver. In this role, Taylor supports neighborhood-led sustainability initiatives that address a variety of topics from resource conservation in the home to community resilience to City-wide sustainability goals.





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**Thomas Herrod** is the lead Climate and Greenhouse Gas (GHG) Policy Analyst for the City and County of Denver. He has managed the City's GHG inventory and climate mitigation planning efforts for the last 5 years and helps develop city-wide strategies to reduce GHG emissions. He also is responsible for monitoring state, regional, and federal policies related to climate change GHG mitigation.

**Susan Renaud**, Community Engagement Administrator, Denver Department of Environmental Health. Susan participated on the University of Virginia's 2002 Solar Decathlon team. She now works with the City and County of Denver's residential energy and business sustainability programs and coordinates the City's annual Earth Day celebration.

## Home Is Where the Comfort Is

### Date(s)/Time(s):


- Saturday, 10/7/17, 12:00 – 12:45pm
- Sunday, 10/8/17, 12:00 – 12:45pm
- Saturday, 10/14/17, 2:00 – 2:45pm
- Sunday, 10/15/17, 12:00 – 12:45pm

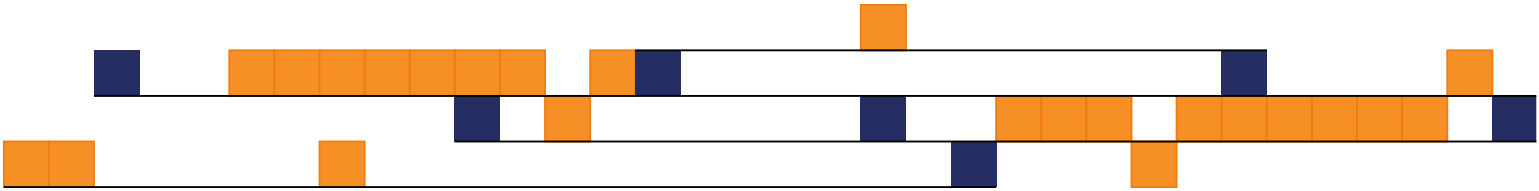
### Presenting Organization:

U.S. Department of Energy

### Workshop Description:

This workshop provides a comprehensive overview of how homes use energy and what people can do to reduce home energy use while also improving home comfort and health and reducing energy bills. Attendees will come away with actionable ways to improve their homes, from do-it-yourself projects to projects that may require a professional to be done fully and safely. The workshop will focus on “busting myths” about home energy use and show that any home has the potential to become a high-performing home, if the right investments are made.





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**Presenter Bio:**

**Madeline Salzman** is a Fellow in the U.S. Department of Energy (DOE) Building Technologies Office focused on the Home Energy Score and Home Energy Information Accelerator. She works to improve processes bringing standardized home energy efficiency and renewable energy data to homeowners and the real estate market. Prior to joining DOE, Madeline worked on home energy use with the Home Energy Affordability Loan (HEAL) program in Arkansas, the Sierra Club in Missouri, and with Barefoot College in Rajasthan, India. She received her Masters of Public Service from the Clinton School of Public Service, and her Bachelor of Arts from Washington University in St. Louis in environmental studies and architecture.

## **In the Renewable Energy Economy, Everyone Wins**

**Date(s)/Time(s):**

Saturday, 10/7/17, 1:00 – 1:45pm

**Presenting Organization:**


COSEIA - Solar CitiSuns

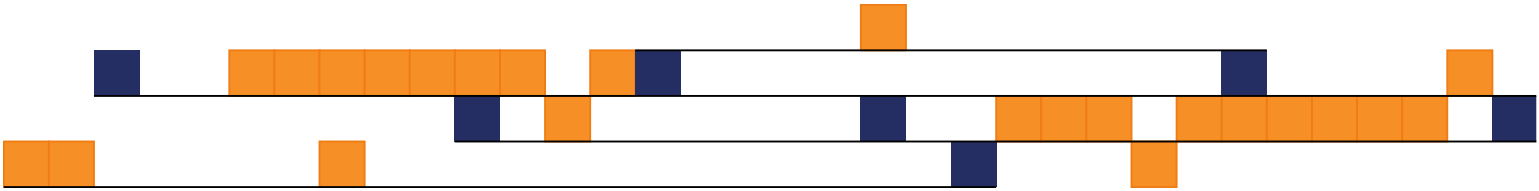
**Workshop Description:**

This workshop will discuss the role of renewable energy in strengthening the U.S. economy, creating good jobs, supporting energy independence, and creating real benefits for urban and rural communities.

**Presenter Bio:**

Kate Collardson, Solar Services Manager, CertainTeed Solar. Kate has worked in the solar industry since 2006 as an installer, designer, trainer, and program manager. She is a NABCEP PV Installation Professional, serves on the Colorado Solar Energy Industries Association (COSEIA) board, and has a B.A. in German from Colorado College, and an MBA, with a Certificate in Sustainable Technology, from Arizona State University.





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## Solar 101 Workshop

### Date(s)/Time(s):

- Saturday, 10/7/17, 3:00 – 3:45pm
- Sunday, 10/8/17, 1:00 – 1:45pm and 4:00 – 4:45pm
- Saturday, 10/14/17, 1:00 – 1:45pm and 4:00 – 4:45pm
- Sunday, 10/15/17, 1:00 – 1:45pm and 4:00 – 4:45pm

### Presenting Organization:

American Solar Energy Society, sponsored by Ovanova


### Workshop Description:

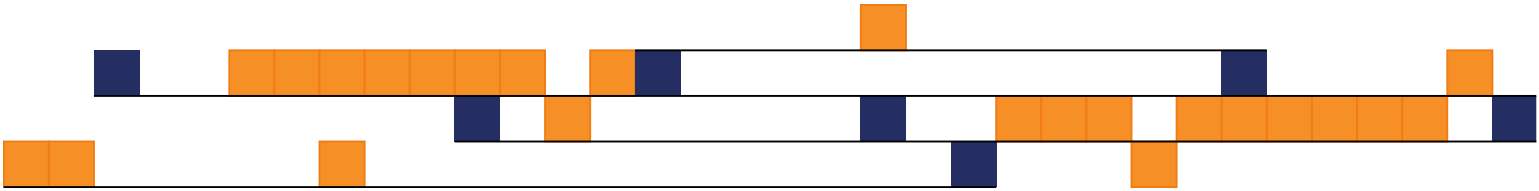
This is a fun, short workshop on solar electricity for the home presented by the American Solar Energy Society. The workshop provides information about how photovoltaics (solar electricity) work, including basic equipment and warranties; benefits of and common misconceptions about solar; consumer financing options; and ways for communities to spread the word about solar.

### Presenter Bios:

**Carly Rixham** is Executive Director of the American Solar Energy Society. She is a renewable energy professional with a diverse background in solar, biofuels, education, and wastewater management. She received her Master's degree in Ecology and Evolutionary Biology at the University of Colorado at Boulder where she researched microalgae for the production of bio-diesel and bio-ethanol.

**John Carey** and **Lester Crafton** have worked together developing people and businesses for twelve years. In 2014, their solar adventure began by selling solar electric systems with Vision Solar. They then helped found Renew, a company that simplifies the consumer solar experience, and has now become [renewsolarmarket.com](http://renewsolarmarket.com). More recently, they and their partner Channing Porter created [Ovanova](http://Ovanova) to address the high customer acquisition cost in solar by engaging communities in a unique way – by redirecting acquisition funds in solar marketing to community organizations for solar education. John studied Electronic Engineering and Psychology at North Carolina State and Lester studied Business at the University of North Carolina at Chapel Hill.





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## **Solar Opportunities for Businesses and Non-Profits**

### **Date(s)/Time(s):**

Sunday, 10/8/17, 3:00 – 3:45pm

### **Presenting Organization:**

COSEIA - New Energy Colorado

### **Workshop Description:**

Solar provides an excellent opportunity for businesses to reduce energy costs and environmental impact. This workshop will explore solar opportunities, and steps for successful business solar installations across the U.S.

### **Presenter Bio:**

**Nick Perugini**, President, New Energy Colorado. Nick specializes in non-residential solar project sourcing, analysis, development, and structured finance. Nick is the President of New Energy Colorado (NECO), an educational non-profit that manages both the Metro Denver Green Homes Tour and Solar CitiSuns. He also serves on the Board of Directors of COSEIA.

## **The Making of a Smart City**

### **Date(s)/Time(s):**


Monday, 10/9/17, 2:00-3:00 PM

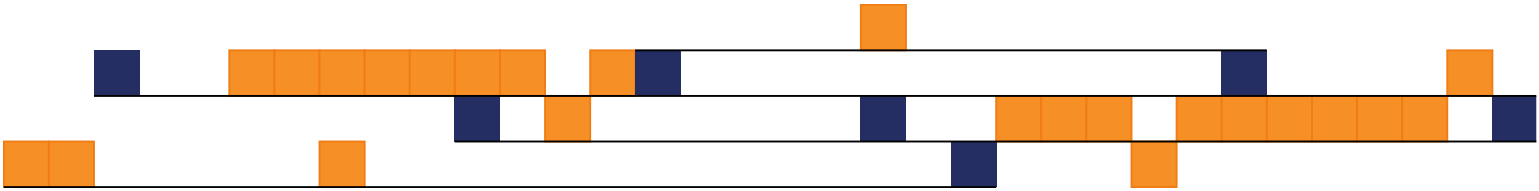
### **Presenting Organization:**

U.S. Department of Energy - National Renewable Energy Laboratory

### **Workshop Description:**

Peña Station NEXT is a 382-acre mixed-use transit-oriented development near Denver International Airport, and the event site for Solar Decathlon 2017. This workshop provides an overview of a carbon-neutral master planned development that maximizes renewable energy and energy efficiency measures. The workshop will focus on how early integration of land use planning, participation from power utilities, and new modeling techniques may indicate a new business model for highly sustainable urban development.





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**Presenter Bio(s):**

**Matt Futch** is Global Business Development Director at the National Renewable Energy Laboratory.

**Alice Jackson** is Vice President for Strategic Revenue Initiatives with Xcel Energy.

**Matthew Crosby** is the Utility Solutions Program Manager at Panasonic Enterprise Solutions.

**Scott Morrissey** is the Senior Director of Sustainability at Denver International Airport.

**EPA WaterSense and ENERGY STAR - Saving Energy and Water at Home**

**Date(s)/Time(s):**

- Saturday, 10/14/17, 12:00 – 12:45pm
- Sunday, 10/15/17, 2:00 – 2:45pm

**Workshop Description:**


EPA WaterSense and Energy Star program coordinators will present information about water efficiency resources and water-saving technology options available to consumers and homeowners. With the water efficiency steps and tools provided, participants will take away information to help them save both water and energy in their everyday lives.

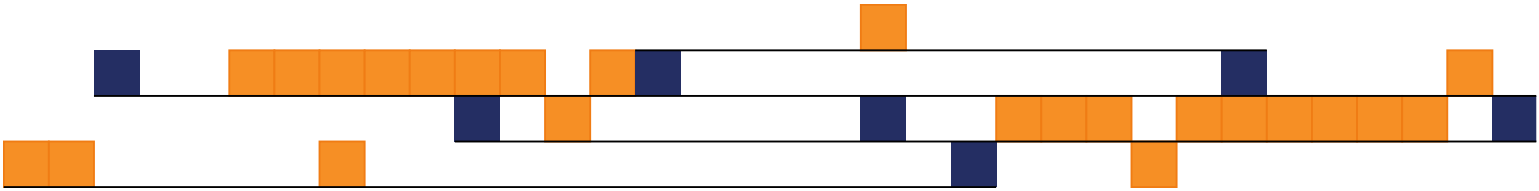
**Presenting Organization:**

U.S. Environmental Protection Agency (EPA) Region 8

**Presenter Bios:**

**Melissa Payan** is the Water Sense Coordinator for the U.S. EPA Region 8 Partnerships and Environmental Stewardship Program, which is housed in the EPA's Denver Office and covers Colorado, Utah, Wyoming, North Dakota, South Dakota, and Montana. She obtained her bachelor's degree in Environmental Science at Metropolitan State College of Denver. Melissa started at the EPA in 1998 and was the Oil Spill Prevention and Oil Spill Response Program Coordinator conducting inspections and exercises for the Emergency Response and Preparedness Program. She has been in her current position with Water Sense since May of 2016.





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**Alysia Tien** is the Energy Star Coordinator for the U.S. EPA Region 8 Partnerships and Environmental Stewardship Program in Denver. She obtained her undergraduate degree in Biology from the University of Colorado at Denver and a master's degree in Biology from the University of Nebraska at Kearney. Alysia started at the EPA in 2001 performing microbiology drinking water analysis and has since worked on drinking water regulations, water security coordination, National Pollutant Discharge Elimination System enforcement inspections, and as an EPA budget analyst. She has been in her current position with Energy Star since October of 2016.

## Colorado's Solar Energy Landscape – How You Can Go Solar

### **Date(s)/Time(s):**

Saturday, 10/14/17, 3:00 – 3:45pm

### **Presenting Organization:**


Colorado Solar Energy Industries Association (COSEIA)

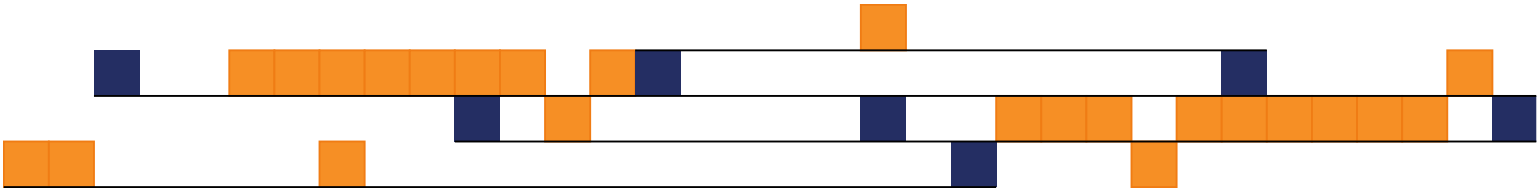
### **Workshop Description:**

When it comes to going solar in Colorado, homeowners and other consumers have a variety of opportunities. This workshop will highlight those options and review the key policies shaping solar energy in the state of Colorado. The workshop will include a review of the rules that govern the marketplace and consumer solar choices, including community solar gardens, rooftop solar, and other programs.

### **Presenter Bio:**

**Rebecca Cantwell**, Executive Director, COSEIA. Rebecca brings years of project management, communications, and policy leadership experience to her work on solar energy. As Executive Director of COSEIA, Rebecca oversees all aspects of the award-winning non-profit that leads Colorado's solar industry with roughly 200 members. COSEIA works on advancing solar policy, including outreach and communications, through a variety of programs.





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## **The Passive House – No Energy Needed!**

### **Date(s)/Time(s):**

Sunday, 10/15/17, 3:00 – 3:45pm

### **Presenting Organization:**

COSEIA - New Energy Colorado and Passive House

### **Workshop Description:**

Passive House is a standard for buildings, first pioneered in the United States and Canada in the 1970s and 80s, which later spreading to Germany. Passive House is a building science-based approach that incorporates design principles to create homes that need minimal heating or cooling, if any at all. This workshop will outline these design principles and help attendees understand how they can achieve Passive House Standards.

### **Presenter Bios:**

**Todd Collins** is Passive-House Trained and the Founder of AE Building Systems: Products for High Performance Homes and Buildings. Todd is also on the City of Golden, Colorado, Planning Commission, a Colorado Green Building Guild Board Member, and a volunteer for Colorado Renewable Energy Society and many other sustainability focused organizations.

**John Avenson** became interested in passive-solar-heated homes in 1962 after he toured the Colorado Indian Cliff dwellings. After much professional study, he built one of the best passive heated solar homes in 1981. The house was recently upgraded to Passive House standards and uses no furnace or fossil fuels. He has received numerous prestigious awards, regularly conducts public tours, and is a passionate educator.

**Katrin Klingenberg**, Co-Founder and Executive Director of the Passive House Institute U.S. (PHIUS), designed and completed the first home to meet passive house standards in the United States in 2003. She has designed and consulted on successful passive house and building projects across North America's varied climate zones. In addition to her executive role at PHIUS, she is the lead instructor for PHIUS Certified Passive House Consultant (CPHC®) training and directs curriculum development. She also directs the technical and research programs of PHIUS and is a licensed architect in Germany.

