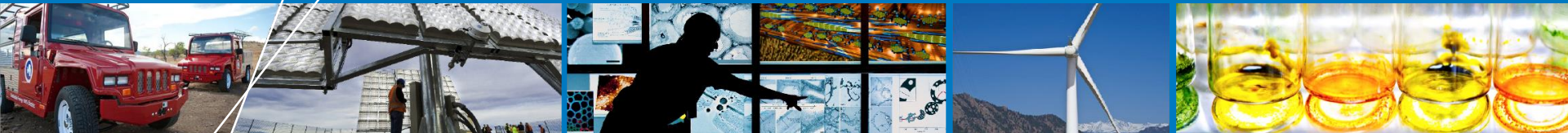


Community Shared Solar: Markets and Future Trends



**Renewable Energy Markets
Conference**

Jenny Heeter

December 4, 2014

Participant Motivations



Welcome back Jenny Sumner Heeter
Logout

Summary | Graph | My Info | Mailing Lists | My Documents | Production

My Production


Purchase Date ▼	Facility	Type	Size (W)	Production to Date (kWh)
06/17/2014	Jefferson County 1	Solar	2,585	1,170



CEC Total Live Power Production



385,771 3,341 6,133,701
Current [W] Today [kWh] Lifetime [kWh]


My Live Power Production

Jefferson County 1

424
Current [W]  CO₂

10,863
Today [Wh]  

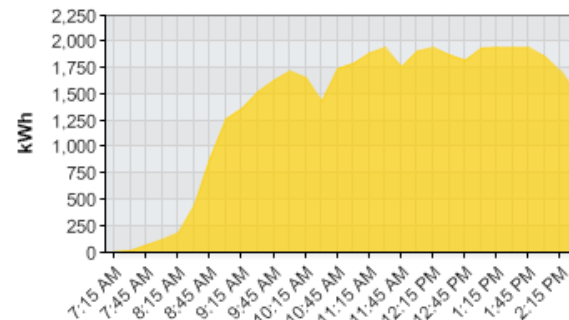
1,752
Lifetime [kWh]  

 36°F

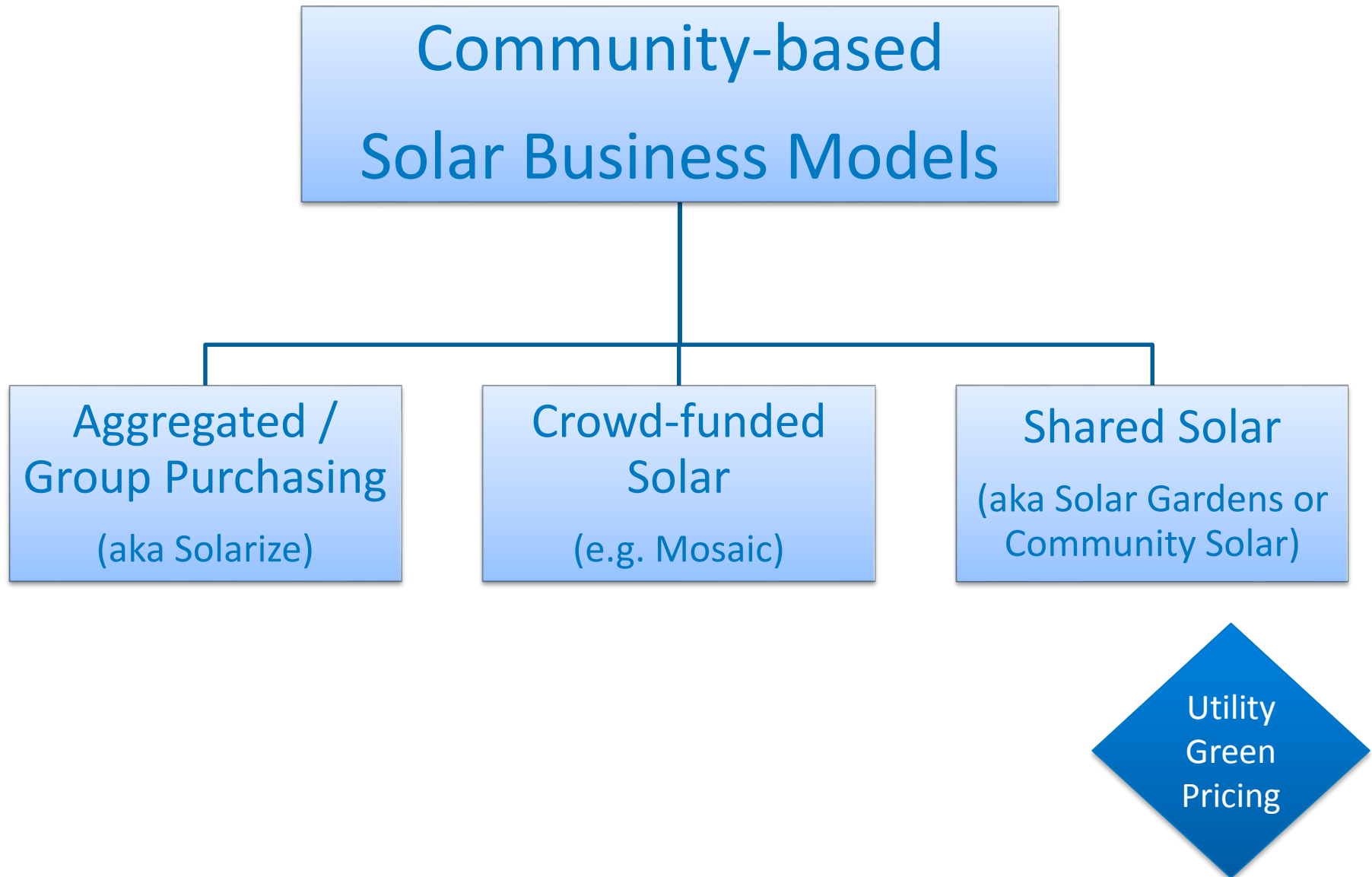
My Credits

Credit Date ▼	Utility Bill Amount	Facility Production (kWh)	Credit
07/16/2014	\$0.00	129	\$9.60
08/19/2014	\$0.00	346	\$25.77
09/22/2014	\$0.00	360	\$26.81
10/23/2014	\$0.00	334	\$24.88

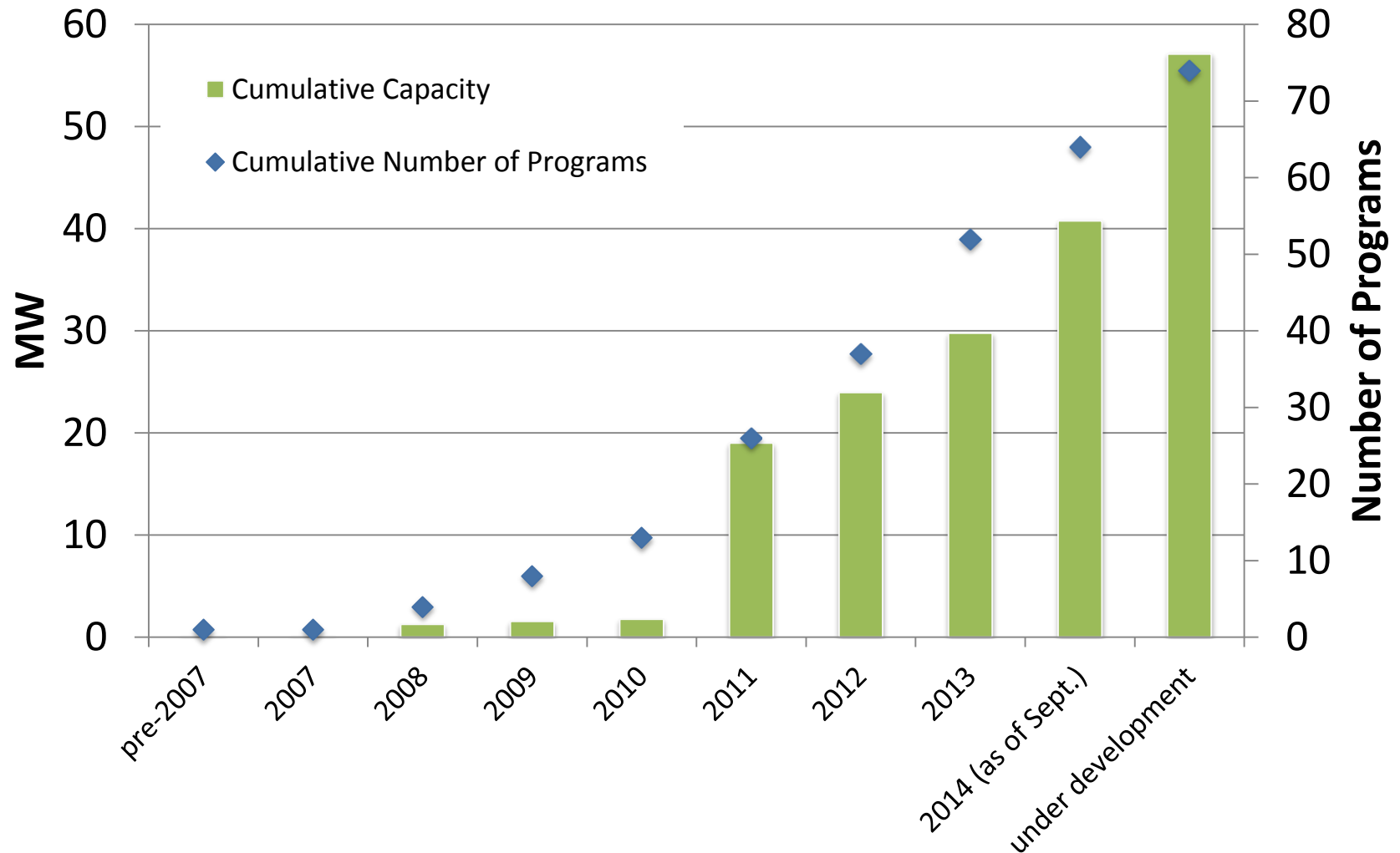
Today's Production



Many Models for Community-based Solar

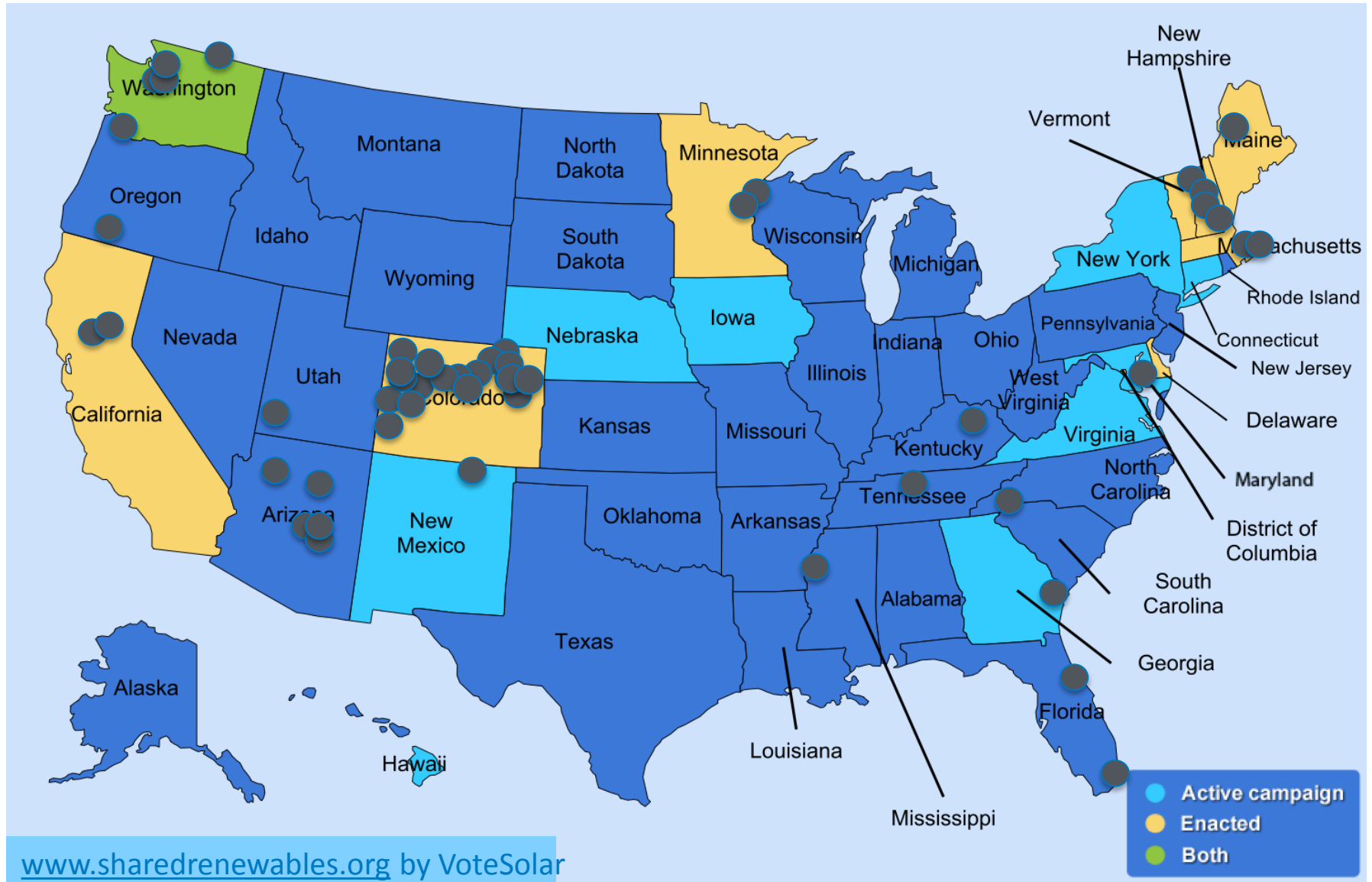


Growth in Shared Solar Programs

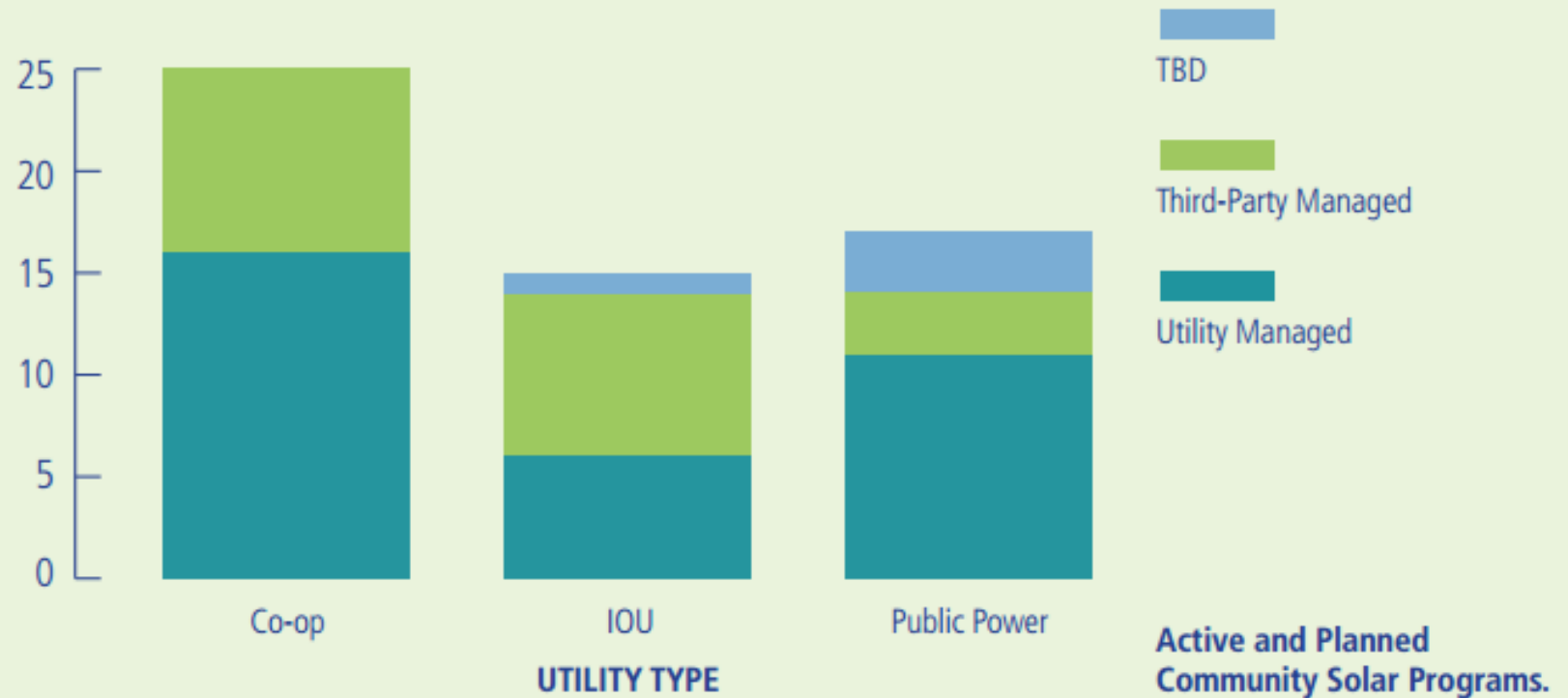


Reference: Heeter 2014

Programs Active Around the Country



Utility Role in Shared Solar Varies



Source: Campbell et al. (2014). Expanding Solar Access Through Utility-led Community Solar: Participation and Design Trends from Leading U.S. Programs

Capacity vs. Energy-based Programs

- **Most programs are capacity-based, not energy/rate-based**
- **Rate-based programs draw larger numbers of participants; smaller portions may be a driver**
- **Participants buy larger shares in capacity-based programs; financing may be a driver**

Utility Community Solar Trends

- **96% of community solar capacity is part of a utility-led program**
- **Co-ops tend to have smaller programs and fewer numbers of participants**
- **IOUs and Munis have higher program sizes and participation rates**
- **Around 60 programs in 22 states**
- **More than half in states that have community solar legislation**
- **74% offer capacity, not energy 50% of capacity programs offer financing, this raises participation rates Almost all participants are in residential sector**

Source: Campbell et al. (2014). Expanding Solar Access Through Utility-led Community Solar: Participation and Design Trends from Leading U.S. Programs

Future Shared Solar Issues

- **California's AB 43: Awaiting a decision**
- **Impact of ITC reversion in 2017**
- **Move towards utility-sponsored projects?**
 - New green pricing programs offering shared solar-like options
- **Additional financing options**
- **Widen the audience to include commercial and industrial participants**
- **Transition away from using RECs to meet RPS compliance?**

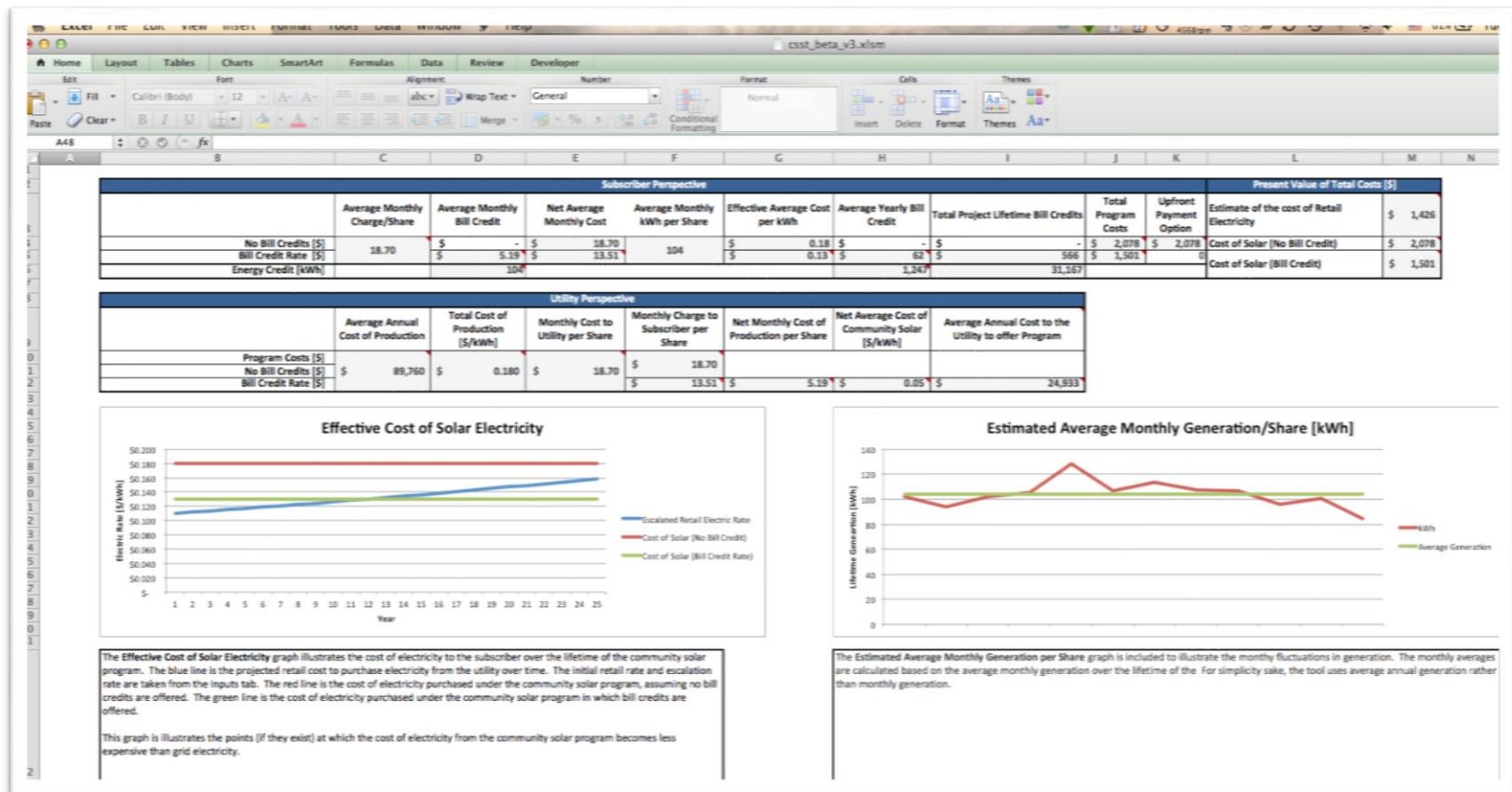
NREL Community Solar Assistance

- **NREL's Solar Technical Assistance Team (STAT) has provided assistance to states and utilities considering community solar options.**
 - Assistance is available in three forms:
 - Quick response (any time)
 - In-depth assistance (1-2 application periods per year)
 - Online education (any time)

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

NREL Community Solar Scenario Tool

Spreadsheet tool to determine project economics from the participant and host perspectives.



http://www.nrel.gov/tech_deployment/tools_community_solar.html



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