

## USDOE Energy Innovator Fellows Informational Webinar

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Resources and Assistance for State Energy Offices and Regulators

May 7, 2025

Lisa Schwartz and Pete Cappers

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# Agenda

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- Welcome, upcoming webinars, Berkeley Lab technical assistance team
  - ▣ *Lisa Schwartz, Berkeley Lab*
- Resources and Assistance for State Energy Offices and Regulators Program
  - ▣ *Pete Cappers, Berkeley Lab*
- Q&A



## Register for Future Fellows Informational Webinars

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- May 12 – **Distributed energy resources interconnection**  
<https://lbnl.zoom.us/meeting/register/Kj53KG7VQHSw9qPnQmyhjw#/registration>
- May 20 - **Stakeholder engagement and EIF Summit** (if confirmed)  
<https://lbnl.zoom.us/meeting/register/w2jOCLrFRuy2gie3VvKT15g#/registration>
- June 5 - **Data visualization**  
<https://lbnl.zoom.us/meeting/register/kpb2LDT6ScCq6QgGB4dZYA>
- June 17 - **Electric system reliability**  
<https://lbnl.zoom.us/meeting/register/Z04YVtwYRlevggNJM142yg#/registration>
- July 24 - **Program planning and evaluation**  
[https://lbnl.zoom.us/meeting/register/LkIR9\\_jMQI2Llg\\_C-hrR-w#/registration](https://lbnl.zoom.us/meeting/register/LkIR9_jMQI2Llg_C-hrR-w#/registration)
- Date TBD - **Data centers**

*All webinars start at 2 p.m. Eastern.*



# Berkeley Lab Technical Assistance Team

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[State Technical Assistance Program](#) – Pete Cappers, Jason Ball (and many others across four labs)

## Staff support for example topic areas

- *Distribution system planning* – Lisa Schwartz, Grace Relf, Natalie Mims Frick, Guillermo Pereira
- *Grid reliability and resilience* – Pete Larsen, Myles Collins, JP Carvallo, Josh Schellenberg, Lisa Schwartz
- *Regional transmission planning* – Lisa Schwartz, Fritz Kahrl, Josh Schellenberg, JP Carvallo
- *Efficiency, load flexibility and virtual power plants* – Natalie Mims Frick, Jeff Deason, Greg Leventis, Sean Murphy, Guillermo Pereira, Kathryn Chelminski, Pete Cappers, Steve Schiller
- *Distributed energy resources interconnection* – Grace Relf, Kathryn Chelminski, Lisa Schwartz
- *Community solar* – Greg Leventis
- *Rate design* – Andy Satchwell, Pete Cappers

Learn more about our staff [here](#). See our publications, tools, webinars and projects by topic [here](#).



# Resources and Assistance for State Energy Offices and Regulators Program

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May 7, 2025



# Support PUCs and SEOs



**NARUC**  
National Association of  
Regulatory Utility Commissioners

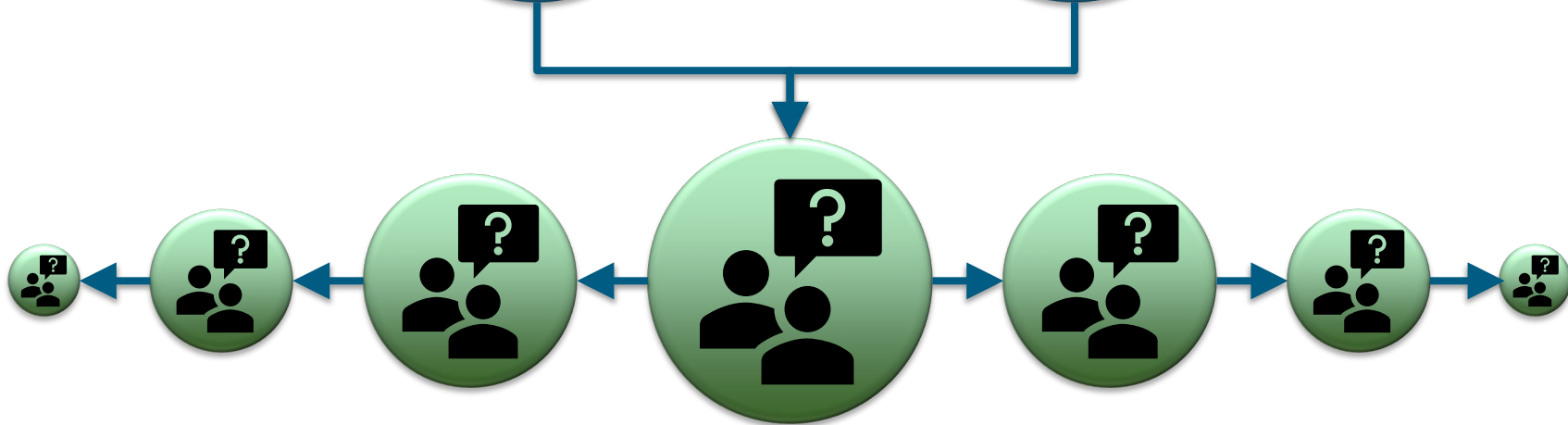
**PUC**



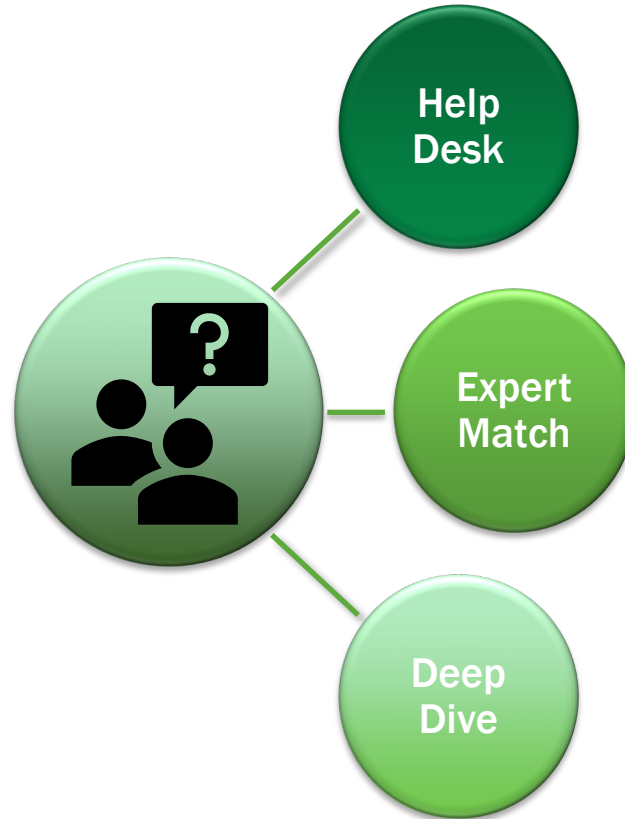
**SEO**



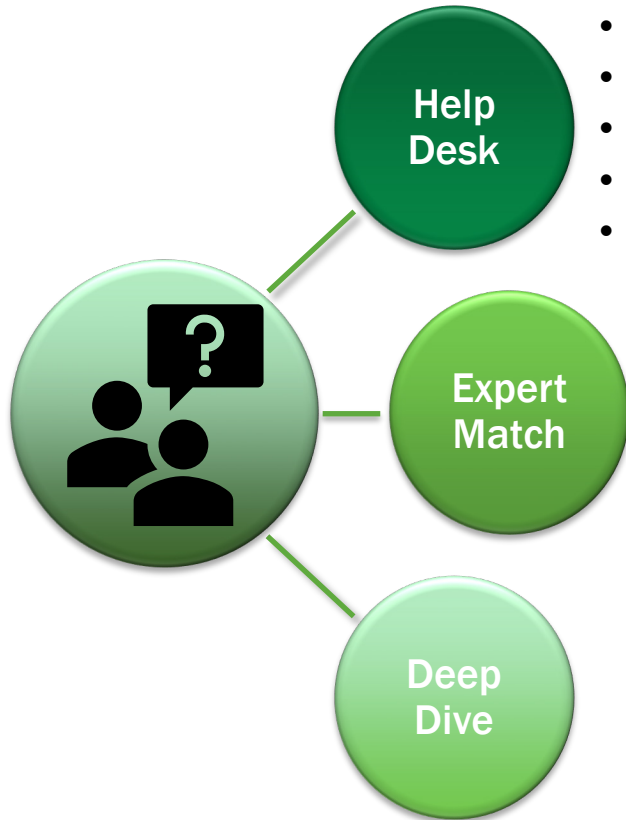
**NASEO**  
National Association of  
State Energy Officials



# Multi-Modal TA Opportunities



# Multi-Modal TA Opportunities



- Online intake form w/ rolling screening
- Program rep will connect w/in 2 days to clarify request
- SME will connect w/in 5 days to begin addressing request
- SME provides up to 4 person-hours of support
- Intake form and support available now

# Help Desk Example #1

- **TA Request**: Due to FERC Order 2222, PUC wants to vet the list of issues they believe should be addressed to allow aggregators to operate in their retail electricity market and better understand what other states have done to inform how the PUC might want to prioritize these issues
- **TA Delivered**: Written list of states with recent proceedings to allow aggregators to participate in the retail electric market and discussion around what issues have been tackled and prioritized



# Help Desk Example #2

- **TA Request**: SEO wants to better understand the size and scope of property value impacts associated with renewable energy development projects for a community education program.
- **TA Delivered**: Virtual presentation on recent empirical literature on property value impacts from renewable energy development and a facilitated discussion about how the results of that literature could inform the design of a future SEO educational program for communities on this issue

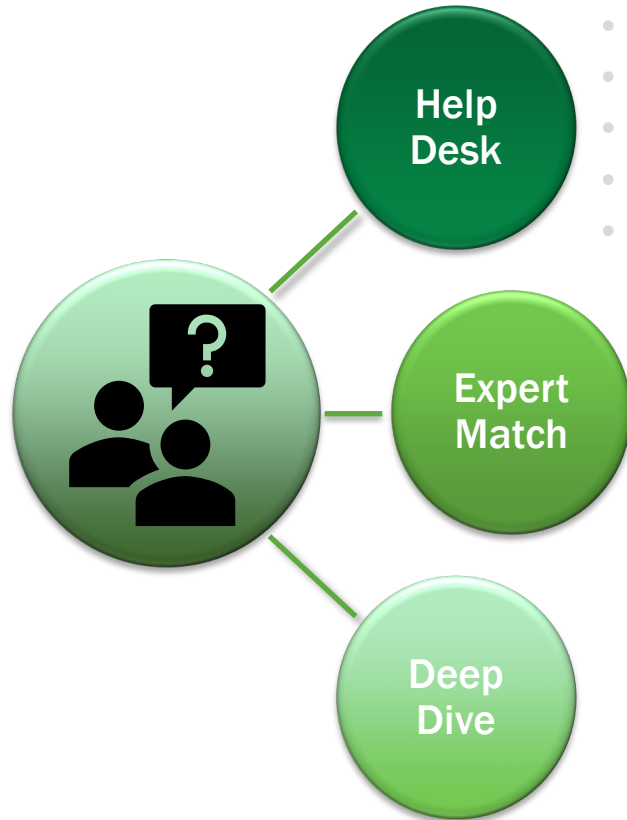


# Help Desk Example #3

- **TA Request:** PUC and SEO are jointly holding a virtual workshop on transportation electrification and are looking for a technical expert to participate in a panel on electric vehicle rate design
- **TA Delivered:** Virtual presentation at the workshop on recent research categorizing and summarizing utility-offered rate designs for electric vehicles



# Multi-Modal TA Opportunities



- Online intake form w/ rolling screening
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  - SME provides up to 4 person-hours of support
  - Intake form and support available now
- 
- **Online intake form w/ rolling review**
  - **Program rep will connect w/in 2 day to clarify request**
  - **SME will connect w/in 5 days to begin addressing request**
  - **SME provides up to 100 person-hours of support**
  - **Intake form and support available now**

# Expert Match Example #1

- **TA Request**: PUC manager wants to understand how smart inverters could be more directly integrated into distribution system planning and hosting capacity analyses for state's utilities
- **TA Delivered**: Presentation on IEEE 1547-2018 standard on smart inverters, what settings have been typically required in other states, and how these settings could be integrated into distribution system planning and hosting capacity analyses



# Expert Match Example #2

- **TA Request**: A staff member at an SEO wants to understand different ways to calculate energy affordability, assess which states are using which methodology, and determine how these different methods might affect their program design and evaluation efforts
- **TA Delivered**: Technical memo documenting all the different ways to calculate energy burden and a state-by-state assessment of who uses which method, followed by a series of conversations

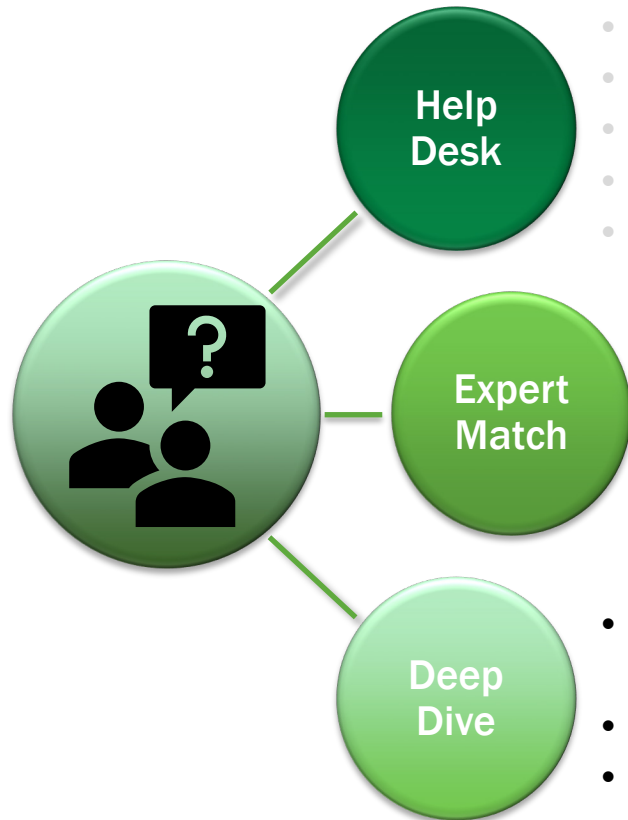


# Expert Match Example #3

- **TA Request**: PUC and SEO are jointly developing a policy on EV charging infrastructure, including the role of the state's investor-owned utilities (IOUs) vis-à-vis private charging companies
- **TA Delivered**: Technical memo highlighting the opportunities and challenges associated with allowing IOUs to own and operate charging stations, followed by a series of conversations with leaders from the PUC and SEO



# Multi-Modal TA Opportunities



- Online intake form w/ rolling screening
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  - SME provides up to 4 person-hours of support
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- Online intake form w/ rolling review
  - Program rep will connect w/in 2 day to clarify request
  - SME will connect w/in 5 days to begin addressing request
  - SME provides up to 100 person-hours of support
  - Intake form and support available now
- **Detailed application form w/ planned 9-month work cycle by Labs & DOE, with limited opportunity for mid-cycle review**
  - **Team of SMEs provide 100+ person-hours of support**
  - **Detailed application hopefully issued Summer/Fall 2025**

# Deep Dive Example #1

- **TA Request**: PUC manager wants to evaluate the consideration of electric vehicles (EVs) and the value of vehicle-to-grid applications in distribution system planning (DSP)
- **TA Delivered**: Report on key topics affecting EVs in DSPs; two training sessions covering the valuation of EVs in DSPs and any relevant experiences in other states; and facilitated conversations based on the PUC's review of an DSP supplement submitted by one of the utilities



# Deep Dive Example #2

- **TA Request**: A division director at a SEO wants to support the state's long-term energy planning efforts, focusing on future generation and transmission system, grid reliability, and regional electricity impacts
- **TA Delivered**: Develop a customized version of Lab-developed production cost model; identify key planning scenarios to be analyzed; create two case studies from those planning scenarios; and train the staff at the SEO on how to use the models



# Deep Dive Example #3

- **TA Request**: PUC and SEO are jointly seeking to build capacity for their newer staff and leaders on the topic of forecasting as it relates to the electricity sector
- **TA Delivered**: A series of in-person workshops on forecasting, including basics and best practices associated with different applications (i.e., load, electric vehicles, building electrification) and a deeper dive into benchmarking, risk, and uncertainty issues associated with these forecasts



# Key Topical Areas



Requests on any topic in line with federal policy will be considered

# Key Support Organizations



**BERKELEY LAB**

Bringing Science Solutions to the World



**Pacific Northwest**  
NATIONAL LABORATORY

# Access TA Request Forms & Resource Library

<https://StateTAProgram.lbl.gov>



PUC



SEO



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Bringing Science Solutions to the World



**Pacific Northwest**  
NATIONAL LABORATORY



**Argonne**  
NATIONAL LABORATORY



# Questions

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