

# Resources and Assistance for State Energy Offices and Regulators (RASOR)

February 7, 2024



# RASOR

## Goal:

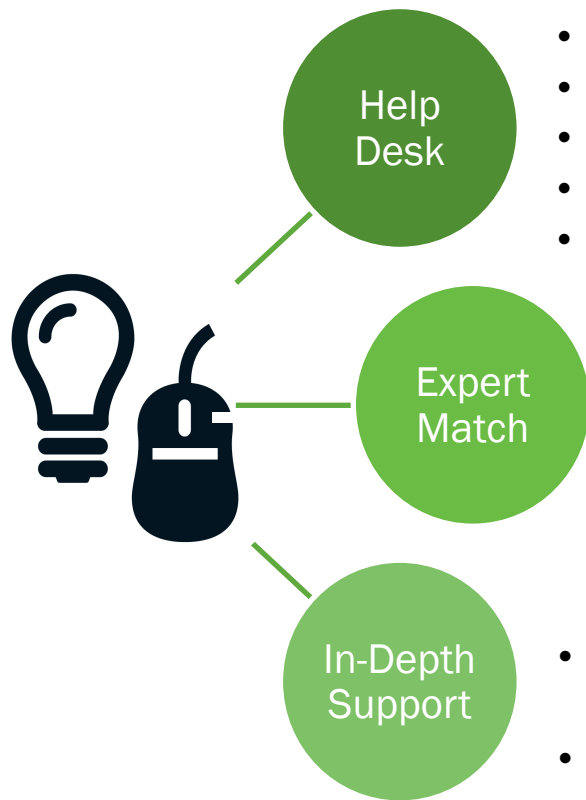
- Provide technical assistance and resources at scales and intervals that are most responsive to SEO and PUC needs through multi-modal support options that
  - Are responsive to a rapidly changing regulatory and policy landscape
  - Match timing and depth of questions
  - Provide access to experts on key topic areas



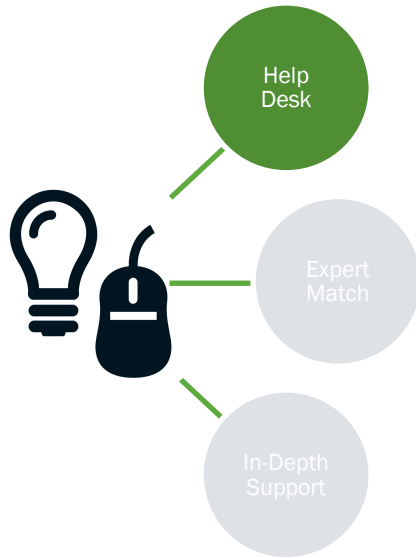
# Key Topical Areas for Technical Assistance

- **Integrated Grid Planning & End-Use Technology Integration**
  - Planning for End-Use Adoption (DERs – EVs, buildings & industry, PV, energy storage) & Load Forecasting
  - Electric Infrastructure Expansion (Behind-the-meter, Distribution, Bulk Power System)
  - Regional Coordination with Bulk Power System Operators
- **End-Use, Distribution, and Bulk-Power Operation**
  - System Visibility, Control, and Communications
  - Institutional Roles and Responsibilities (Aggregator vs. Distribution Utility vs. DSO)
  - End-use Device Integration & Flexibility (Including Codes, Standards, and Best Practices)
- **Electricity Markets & Compensation**
  - Enabling Flexible End-use Technology Participation in Electricity Markets (EV Managed Charging, Building Demand Response, Behind-the-Meter Storage, etc.)
  - Evolving Retail and Wholesale Services, Participation Models, and Compensation
- **Resource Adequacy, Reliability, and Resilience**
  - Resource Adequacy in the Energy Transition
  - Reliability in a Predominately Inverter-Based Resource Environment
  - Extreme Weather Given Increased Electrification

# Multi-Modal TA Opportunities



- Online intake form w/ rolling screening
  - Connect to PM\* within 2 business day to clarify request
  - Connect to an SME\*\* within 5 business days
  - SME provides up to 4 person-hours of support
  - Intake form and support available starting **March 2024**
- Online intake form w/ rolling review
  - Connect to PM within 2 business day to clarify request
  - Connect to an SME within 5 business days
  - SME provides up to 80 person-hours of support
  - Intake form available **March 2024** with TA starting in **April**
- Detailed application form w/ planned 9-month work cycle by Labs & DOE, with limited opportunity for mid-cycle review
  - Team of SMEs provide 80+ person-hours of support
  - Detailed application due **June 2024** with TA starting in **August**



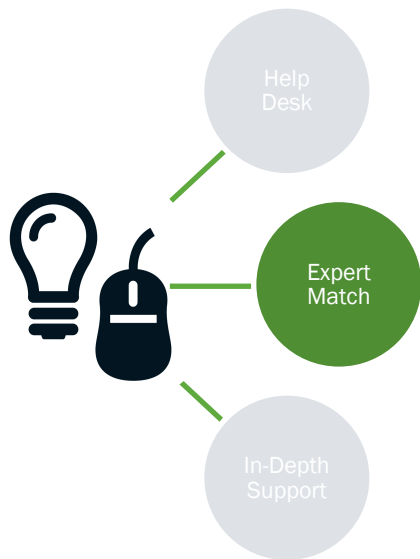
## Example requests:

- *“What are the high-level implications of FERC Order 2222 for my Commission and what actions do we need to think about taking?”*
- *“What are the most important parts of the IIJA and IRA for state energy officials to be fluent in?”*
- *“My state has adopted an energy storage target of X MW by 20XX. What barriers to deployment should we prioritize addressing first?”*
- *“We need help understanding the best practices for EV forecasting.”*

## TA response:

- Up to 4 hours of support
- 30-minute initial call to clarify scope of request
- Connect directly with subject matter expert(s) who will, for example:\*
  - Provide a structured verbal walk-through (1-2 hours) of important issues or answers to key questions;
  - Summarize recommendations or takeaways into bullet points via email;
  - Provide list of links to further reading and/or other suggested sources.

*\*Note: exact SME tasks will be determined on a request-by-request basis.*



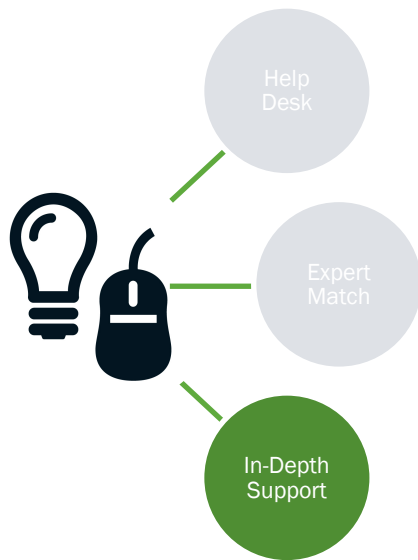
## Example requests:

- *“Can you provide a presentation on how we should consider the role of smart inverters in reliability and distribution system planning and how smart inverters impact the hosting capacity of circuits.”*
- *“How will the various provisions of the IRA affect resource deployment in my state? How is that likely to affect utility resource planning, and what modifications to planning processes should my state consider given the likely IRA-driven changes to resource mix?”*

## TA response:

- Up to 80 hours of support
- 30-minute initial call to clarify scope of request
- Detailed scope discussions with Lab leads to ensure alignment
- Subject matter expert(s) will, for example:•
  - Review existing state rules, regulations, studies, and/or data;
  - Analyze state-specific context of the issue(s);
  - Participate in calls with state officials to discuss, analyze and hone deliverables;
  - Provide a written summary of findings and/or recommendations;
  - Provide 1 or more virtual presentations on key topics;
  - Provide full citations to further reading and/or other suggested sources.

*\*Note: exact SME tasks will be determined on a request-by-request basis.*



## Example requests:

- *“Advise on how to update my state’s interconnection standards and processes to align with FERC Order 2222, encouraging DER aggregation and integration into wholesale markets, and using IEEE Standard 1547-2018 in support of DER aggregation. Help us plan for and execute a process to update our interconnection standards.”*
- *“How should states conduct risk-based resilience planning? What are best practices? How should my state change planning processes and requirements to prioritize resilience?”*

## TA response:

- Detailed scope discussions with Lab leads and SMEs to ensure alignment
- Subject matter expert(s) will, for example:\*
  - Review existing state rules, regulations, studies, and/or data;
  - Analyze state-specific context of the issue(s);
  - Research relevant policies, regulations, and/or market data;
  - Participate in recurring calls with state officials to discuss, analyze and hone deliverables;
  - Advise state on scope and approach of relevant dockets or investigations;
  - Produce a white paper or similar written product with, e.g. a summary of findings;
  - Provide 1 or more virtual presentations on key topics;
  - Provide full citations to further reading and/or other suggested sources;
  - Convene cohorts of states interested in similar questions for peer learning.

*\*Note: exact SME tasks will be determined on a request-by-request basis.*

## Existing and New Resources\*

Technical reports

Design briefs

Case studies

Presentations

Videos & webinars

Analytical tools

\*Convert Private TA Deliverables into Public Resources



# Questions:

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