

EPIC

Questions to Consider for All Research Topics

1. What are the major barriers to developing and commercializing clean energy technologies?
2. Where should funding be placed to maximize the deployment of clean energy technologies? (i.e. where is technology innovation needed versus where is support for commercial scale-up the critical need?)
3. What specific initiatives are recommended to advance innovative energy technologies that benefit ratepayers?
4. Define the ratepayer need for which EPIC investment should be targeted.
5. Prioritize initiatives and identify the benefits that should be anticipated and measured, such as:
 - Energy and cost savings, grid reliability, job creation, economic benefits, environmental benefits, likelihood of return on investment, other.
6. What areas are already well covered by DOE and private funding?

Clean Energy Generation Systems

Potential Investment Topics:

- **Energy Smart Communities**
- **Distributed Generation**
- **Utility Scale Generation**
- **Environment and Public Health**
- **Market Facilitation**
- **Others?**

Grid Operations, Transmission & Distribution Systems and Electric Vehicles

Potential Investment Topics

- **Smart Grid/Microgrids**
- **Electric Vehicle charging and grid integration**
- **Electric Vehicle efficiency and battery reuse**
- **Storage (including ancillary services)**
- **Renewable integration into the grid (Forecasting Tools)**
- **Grid system monitoring, Controls and Analysis**
- **HANs and technologies that directly benefit ratepayers**
- **Others?**

Energy Efficiency and Demand Side Management

Potential Investment Topics

- **Building End-use Energy Efficiency**
- **Zero Net Energy Buildings**
- **Industrial, Agriculture, and Water End-use Energy Efficiency**
- **Demand Response**
- **Demand-side Storage**
- **Energy Efficiency-related Environmental/Public Health Impacts**
- **Others?**