

### Description

The Portfolio-level electrification working group's goal is to share pathways for electrification of facilities and techniques to scale from the building level to portfolios. The group will share strategies used, lessons learned and cost-benefit trade-offs; the group will also strategize effective planning techniques to implement electrification strategies. DOE technical experts will support the working group participants with technical assistance on key issues, then summarize the discussion outcomes. This working group will be divided into cohorts as needed, including a cohort focused on industrial electrification and a cohort on HVAC systems. The cohorts will meet every 6 weeks for approximately eight months in a series of 60 minute facilitated calls. The effort will start in June 2022.

### Format

- ▶ Short introduction to the topic by the DOE technical lead and facilitator
- ▶ Identification of key issues and concerns
- ▶ Roundtable discussion and sharing of solution pathways
- ▶ Assemble key resources, case studies, and examples
- ▶ Creating deliverables to fill gaps in existing knowledge developed by DOE and National Lab staff with review by the working group
- ▶ As necessary, the working group will divide into smaller cohorts to focus on specific sectors or building types, such as industrial facilities

### Subtopics

To structure the discussions, cohorts within working groups will explore various subtopics over the duration of the working group. Members are welcome to suggest subtopics of interest, but some possible subtopics include:

- ▶ Collecting viable pathways to switching from fossil fuels to electrical alternatives in new and retrofit applications for building HVAC and service/domestic hot water
- ▶ High process temperature applications for manufacturing
- ▶ Creating strategies for using energy efficiency to enable electrification (i.e. reducing loads to provide flexibility)
- ▶ Incorporating long term planning (maintenance and capital) into strategies for electrification

### Outcomes

- ▶ Working group members will contribute best practices for electrification, which DOE will summarize and document. Participants may be recognized for their contributions
- ▶ Develop information pieces (written, webinars, etc.) for sharing working group outcomes
- ▶ Identify technical training, resource development, and research needs

### Expectations

- ▶ Attendance at working group meetings
- ▶ Contribute insights, experiences, barriers, case studies, and lessons learned in electrification efforts
- ▶ Many working group members will already be in process with electrification planning and implementation; however, partners that are just starting their planning process are welcome to participate in the working group as well