

Potential program structure, post-workshop

Goal: net-zero carbon electricity system @ low system LCOE

Phase I (~15 months):
Design new innovative processes, build evaluation tools

Category 1:
NGCC retrofits

Category 2: New builds—NG fuel in, low-carbon electrons out

Separate, parallel effort: enhance capacity expansion models with CCS, DAC capabilities to understand grid impact

End of Phase I evaluation: engineering design review, economic evaluation, review of cost sensitivities, technical uncertainties

Phase II (~3 yr):
Bench-scale hardware development

Build new components, unit ops, and processes; refine optimization and system modeling

Next steps

- ▶ Please continue to send us feedback
- ▶ We will be updating the workshop web page with content
- ▶ We will be using your input to form a pitch to ARPA-E
- ▶ Keep an eye on ARPA-E eXCHANGE: <https://arpa-e-foa.energy.gov/>
- ▶ Often, ARPA-E will release a Teaming Partner List in anticipation of a FOA
- ▶ IF a FOA is released, the only communications you have are with the Contracting Officer