

USA Project update

EGNRET -58
Honolulu, Hawaii
April 4-5, 2023

USA 2021 Session 1 Project: Lessons learned on resiliency and uptake of variable energy resources from islanded grids that support APEC clean energy goals (EWG 04 2021A)

APEC forum: EWG/ERTF & EGNRET

Co-sponsoring economies: Australia, Canada, Hong Kong China,

Thailand, Philippines, Chinese Taipei,

Start date: January 3, 2022

End date: May 31, 2023 (a project extension has been received)

Expected project cost(USD): 120,000

APEC (USD): 100,000 ASF/EELCER

Project Overseer:

Cary Bloyd

Senior Advisor

Pacific Northwest National Laboratory

Richland, Washington

Status: Project workshop was held December 6 & 7, 2022. Draft final report has been delivered.

Project Outputs

- The project report will provide a summary of the costs and operational experiences of providing reliable electricity while utilizing maximum variable energy resources from islanded grids in the APEC region
- A secondary output will be a one-day virtual meeting held midway through the project which will enable the feedback from the participants to be incorporated into the research and then the final report

Lessons learned on resiliency and uptake of variable energy resources from islanded grids that support APEC clean energy goals: Selected Case Studies



Figure 14 – The ten case studies analysed

USA 2021 Session 2 Project: APEC Workshop Furthering University Collaboration to Support Data Gathering and Analysis in Energy Efficiency, Renewable Energy, and Energy Resiliency (EWG 12 2021A)

APEC forum: EWG/EGEEC & EGNRET

Co-sponsoring economies: Thailand, Philippines, Chinese Taipei, Australia

APEC forum: EWG/EGEEC & EGNRET

Start date: March 2022

End date: June 2023

Expected project cost(USD): 140,000

APEC (USD): 100,000 ASF/EELCER

Project Overseer:

Kathleen Purvis-Roberts
Professor of Chemistry &
Environmental Science
Claremont McKenna College
Claremont, California

Status: Hybrid project workshop was held in Bangkok January 11-13, 2023
Final report in preparation

Project Objectives

1. Build the capacity of workshop participants by continuing to develop collaborations between the EWG, APERC, and University faculty in APEC economies.
2. Continue discussion of data gaps and needs in Energy Efficiency, Renewable Energy, and Energy Resiliency and develop policy recommendations for the EWG in these areas
3. Share examples of collaborative projects that began at the June 2021 online workshop by policymakers and Universities in APEC economies that address APEC energy efficiency, renewable energy, and energy resiliency goals.
4. Identify other methods of analysis to be included in projects, such as economic analysis
5. Discuss potential ideas for new collaborative projects