

# Microgrid commissioning report



## Overview

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This report describes detailed lessons learned, from up-front planning guidance to actionable interconnection recommendations. Based on the experiences with these seven projects, the California Energy Commission funding added value in several key areas related to advancing. This report was prepared as the result of work sponsored by the California Energy Commission (CEC). It does not necessarily represent the views of the CEC, its employees, or the State of California. The CEC, the State of California, its employees, contractors, and subcontractors make no warranty. Our comprehensive commissioning process is carefully designed to ensure our on-site microgrids will operate for optimal performance. As the final step of a project's construction phase, equipment start-up is the most active stage in the commissioning process. Turning on engines, energizing. Microgrids serve as an effective platform for integrating distributed energy resources (DERs) and achieving optimal performance in reduced costs and emissions while bolstering the resilience of the nation's electricity system. Booth, Samuel, James Reilly, Robert Butt, Mick Wasco, and Randy Monohan. This deployment of the microgrid and its associated assets was initiated in the beginning of 2022 at the Pacific Northwest National Laboratory (PNNL)-Sequim.

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### Lessons Learned from Energy Commission Microgrid Projects

Seven EPIC-funded microgrid projects funded in 2015 recently concluded their three-year implementation timelines. These seven projects demonstrated low-carbon-based microgrids for ...

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### Microgrid System Project Development Checklist

This is a building block for development of microgrid control system algorithms and will help to develop commissioning testing scenarios. The protection philosophy details the behavior of the different ...



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### Microgrid Commissioning Service

A good microgrid commissioning service should offer a comprehensive service, including pre-commissioning checks, functional testing, and performance testing. They should also provide a ...

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### Lessons Learned from Design,

## Building, Commissioning and ...

During the literature review that consisted of reading more than 500 published papers, masters thesis, PhD thesis, conference presentations, books on microgrids and system protection and control, three ...



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## Microgrids for Energy Resilience: A Guide to Conceptual Design ...

This report captures and shares experiences and lessons from the Miramar assessment, conceptual design, solicitation, engineering design, and construction process as well as from other ...

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## IRES Microgrid Energy Integration Report Version 1.0

This report summarizes the attributes of the various assets that will be used in Pacific Northwest National Laboratory's (PNNL's) Integrated Renewable Energy System (IRES) microgrid project.



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## Clean Energy Microgrids

This report was authored by NASEO Senior Managing Director Kirsten Verclas, and NASEO Senior Program Manager Kelsey Jones, with support from

Kiera Zitelman and William McCurry (NARUC), ...



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## Microgrid Commissioning

Our comprehensive debriefing process emphasizes lessons learned during commissioning, which informs how we manage and maintain the microgrid equipment going forward.

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## Validated, Transparent, and Accessible Microgrid Valuation and

Customers, developers, utilities, and regulators across the industry can apply this tool to inform project-level decisions based on a sound technical understanding and unbiased cost-performance data.

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## Microgrid and Integrated Systems Program

While DOE has made significant progress in supporting microgrid deployments, there remain research gaps for both

remote microgrid, and microgrids for critical infrastructure, which are being addressed ...

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