

CINELDI result: Transition to and from island mode (WP Pilot)

Challenge and objective:

- Transition to and from island mode without effecting connected end-customers can be a challenge, as the voltage quality regulations might be violated during the transition.
- The pilot project at Skagerak EnergiLab aim at testing transition to and from island mode (planned and unplanned) and evaluate if voltage quality regulations are violated during the transition phase.



Work performed:

- Testing transition to and from island mode and grid connection, both planned and unplanned using the battery energy storage system (BESS) at Skagerak EnergiLab.

Significant results:

- No violation of voltage quality regulations during the testing.

Impact for distribution system innovation:

- BESS can replace diesel aggregates as back-up solution in case of power outage.
- New work processes made and implemented for transition to island mode.

Reference in CINELDI:

- Pilot "Transition to and from island mode" report, 2020 (in Norwegian)