

BESS Application in a Microgrid - Cordova Electric Cooperative

Emerging Priorities in Energy Research
Lakefront Hotel, Anchorage Alaska
October 31, 2018

Cordova, AK (aerial view)

Storage: A Bridge Across the Valley of Death; Hydro vs. Diesel Generation



Power Creek Run of River Hydro Intake

Battery Energy Storage

SAFT-ABB SANDIA-ACEP-CEC PACKAGE



CEC BESS Cost & Benefit

▶ SAFT-ABB Package 1MW, 919	\$1,400,000
▶ EPS Design & Integration	\$ 200,000
▶ CEC Force Labor/Staff Deliverables	\$ 150,000
▶ Additional Equipment & Site Develop	\$ 100,000
▶ Annual Operating Cost (finance/O&M)	\$ 171,644*
▶ Fuel & Lube Oil Savings	\$ 106,626
▶ Rebuild & Capacity Savings	\$ 16,590
▶ Defer Diesel Maintenance and Replace	\$ 30,000
▶ Annual Operating Savings	\$ 153,216

An aerial photograph of a rugged, rocky landscape. A small, calm lake is visible on the left side, with a stream flowing from it towards the center. The terrain is covered with patches of green moss and small evergreen trees, interspersed with large, light-colored rock formations. The sky is a clear, pale blue.

Mid Term Crater Lake Energy Storage

CEC - CITY OF CORDOVA – MCMILLEN JACOBS

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QUESTIONS?



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