Working with remote communities, ABB powers microgrid advancement

The city of Deering, Alaska, must often depend on diesel fuel for power generation. Beyond its economic costs, diesel has environmental costs: greenhouse gas emissions and noise pollution. For more than 20 years, ABB has worked with remote and off-grid communities like Deering to implement renewable hybrid microgrid solutions, reducing diesel consumption and providing better reliability.

100 kW
Wind generation

50 kW
Solar

30% of the year
Off-diesel mode

305 metric tons
Reduction in carbon emissions per year

"Creative Commons Houses along the Chukchi Sea in Deering" by Bering Land Bridge National Preserve - Deering_Community used under CC BY / Desaturated from original
ABB Grid Edge Solutions

As a pioneer in energy management and optimization, ABB is a trusted partner in the evolving global energy ecosystem.

ABB’s Grid Edge Solutions are leading energy innovation and transition, from islands and remote communities seeking energy autonomy, to commercial and industrial sites aiming to unlock new economic opportunities, as well as utilities and service providers striving to effectively manage their increased portfolio of renewables and distributed energy resources.

Our e-mesh™ portfolio includes energy storage and digital automation solutions for energy optimization and management, advanced control, and monitoring. ABB helps customers increase profitability and unlock new revenue streams by reducing energy cost, maximizing renewable integration and lowering CO₂, while improving overall reliability.

GES global footprint

500 MW Global installed base including microgrids and BESS

200 references worldwide

100+ countries supported for service & sales network