

Ross Island (Antarctica) Wind Project

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McMurdo Station – Antarctica

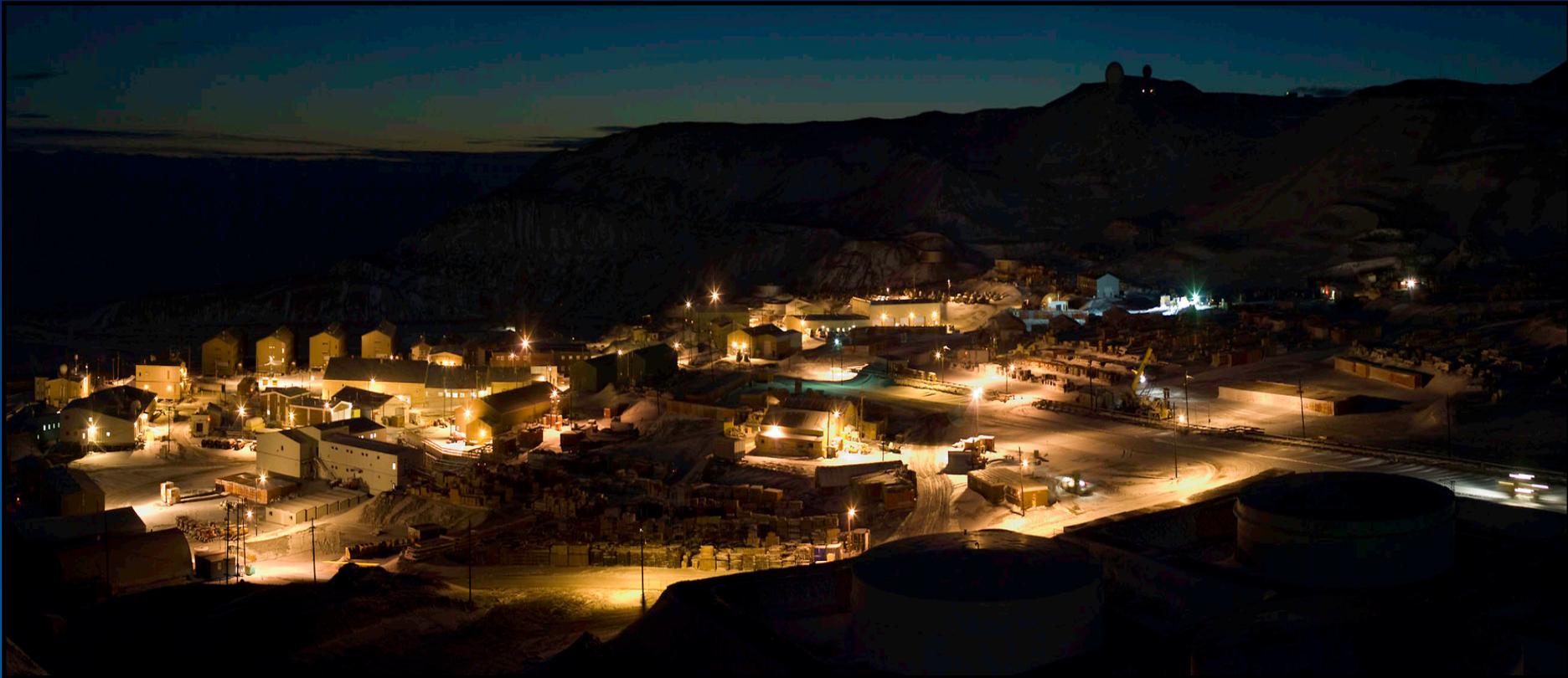


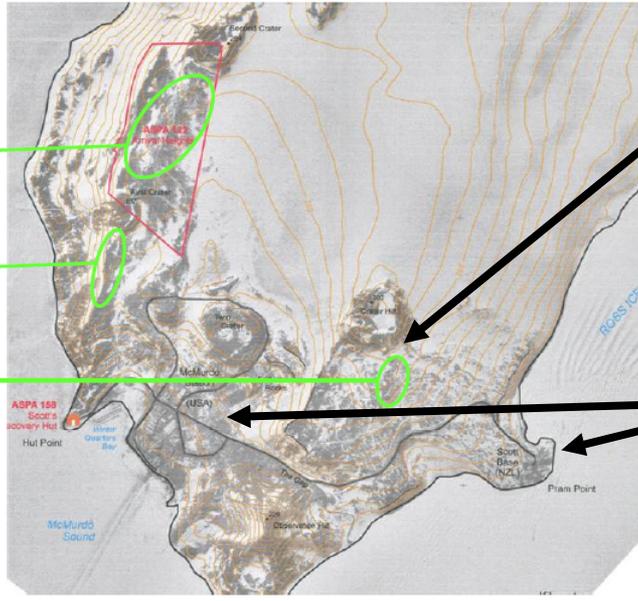
Photo by Bill Henriksen

Huge energy apatite - 13,182,536 kWh electricity generated in 2007, 1,160,940 gal fuel to make electricity, heat & desalinate water and 520,889 gallons fuel for building heat

McMurdo Wind Project

Ross Island

- Arrival Heights
- Hut Trail
- Crater Hill



Installation of Three Enercon E-33's (330 kW) wind turbines

Interconnect the two stations of McMurdo (US) and Scott (NZ)

Engineering currently underway – installation planned for 2009/2010 Antarctic Season



Implemented by Meridian Energy (NZ) with the assistance of PowerCorp (AU), Raytheon Polar Service (US) and a number of other organizations with funding from the New Zealand Antarctic Program and National Science Foundation

Future Concepts



- Expand use of wind and other renewables to other Antarctic locations (Black Island, South Pole etc.)
- Expand the wind farm to cover more of the load
- Expanded use of Energy Efficiency and advanced building technologies
- Migrate over majority of vehicle fleet to electric and hydrogen
 - Trucks, snow machines, ATV's
- Long term storage with Hydrogen or other technologies

