

6.2 kw Grid-Tie *Demmitt, Alberta*



Description: South-facing roof provides excellent solar exposure with essentially no shading. The high, steep steel roof angle is good for shedding snow and increasing winter solar gain, but required installation by bucket truck (inset) which was slower and more

expensive than the usual hand-installation for a normally sloped roof. Power Optimizers were chosen to provide maximum efficiency and module-level monitoring. This array should produce about 80% of the electricity used by this very energy efficient building.

The Demmitt Hall was designed to last generations while keeping its environmental footprint as small as possible. It was built with pine beetle killed timber from a nearby forest, insulated with straw bales from the community, and utilizes composting toilets.

The slope of the south facing roof is at the ideal angle for solar panels so naturally installing a PV system was the next step to further reduce the footprint of the Demmitt Hall. Members of the community and friends of the hall worked

a casino to raise the funds required to install a grid-tied PV system. The system offsets over 80% of the power used at the hall and is designed so it can easily be expanded in the future.

Using the power of the sun to offset the energy consumed adds to the legacy of the Demmitt Hall and the principles on which it was constructed.

Donovan Kit, president of Demmitt Cultural Society

- **System design and supply by Peace Energy Co-op**
- **(24) 260 watt poly solar modules**
- **(24) SolarEdge Power Optimizers**
- **6 kw SolarEdge Hybrid grid-tie inverter**
- **SolarEdge Monitoring Portal**
- **Pro low-profile mounting system with “critter guard”**
- **Installation by Northgate Electric Ltd., Beaverlodge, AB**



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