Ramona Band of Cahuilla Indians
Eco-Tourism Facility

Kevin Short
Short Electric
Project overview

- Stand alone micro grid energy system
- Energy efficiency requirements
- Capacity for facility use
- Expansion capability
- Visitor interactive systems
Energy production and storage

- Prime mover- 200Kw Caterpillar diesel generator, fired with B100 biodiesel, produced locally.
- Photovoltaic array
- Wind turbines
- Deep cycle battery bank
- Outback Power Systems Inverters
- System monitoring and data acquisition
Efficiency strategies

- Passive solar, such as natural lighting, convective heating, rock bed heat storage
- SolarWall space heating, Radiant hot water space heating
- Energy efficient lighting
- Evaporative cooling
- High R-factor insulation
Restaurant area

- Ultra-efficient kitchen
- Recycling all container waste possible - cardboard, metal, paper, plastic
- Grease to the Biodiesel manufacturer
- Composting of green waste
- Promote local produce
- Grey water system
- Composting toilets
Energy 101

- Public education
- Energy awareness
- Sandia Labs class
- Local energy expo
This program was produced with solar power!