Case Study and System Examples

The Pre-Wired Panel

In the valley near Moab, Utah

- **Battery** – Iron Edison
  - Voltage - 24 Volt
  - Capacity - 700 Amp Hours
- **Inverter** – Apollo Solar TSW
  - 3200 Watts
  - 240 Volts AC output
  - Pure Sine Wave
- **Charge Controllers** – Apollo Solar T80
  - Dual parallel charge controllers
  - 160 Amps max rated output
- **Solar PV** – 2.7 kW ground mount
  - 12 x 225 Watt solar modules
  - 2 parallel strings
A new life for the classic Trace

On the farm near Danbury, Connecticut

- **Battery** – Iron Edison
  - Voltage - **48 Volt**
  - Capacity - **400 Amp Hours**

- **Inverter** – Trace Engineering
  - 4000 Watts
  - 120 Volts AC output
  - Pure Sine Wave

- **Charge Controllers** – Trace C40
  - Nickel Iron charge settings
  - 40 Amps max rated output

- **Solar PV** – 1.2 kW pole mount
Off the Grid Pre-Wired Panel

In the desert near Las Cruces, New Mexico

- **Battery** – Iron Edison
  - Voltage - **24 Volt**
  - Capacity - **400 Amp Hours**

- **Inverter** – Apollo Solar PWP
  - 3200 Watts
  - 240 Volts AC output
  - Integrated Switchgear Module (ISM)

- **Charge Controller** – Apollo Solar T80
  - Ground Fault Protection
  - 80 Amps max rated output

- **Solar PV** – 1.2 kW pole mount
A Residence with a Backup Plan

In any neighborhood, USA

- **Battery** – Iron Edison
  - Voltage - 24 Volt
  - Capacity - 500 Amp Hours
- **Inverter** – Magnum MMP
  - 3200 Watts
  - 120 Volts AC output
  - Auto Generator Start
  - Backed up loads subpanel
- **Charge Controller** – Xantrex XW
  - Relay controlled vent fan
  - 60 Amps max rated output
- **Solar PV** – 1.2 kW roof mount