The Sundog SmartHouse: A Solution to Non Urban Low Income Housing Needs

Presented by:
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Sundog Solar, Inc. Chatham NY
Sundog - Who We Are

• Installers of
  – Solar Photovoltaic
Sundog - Who We Are

• Installers of
  – Solar Thermal (Hot Water)
Sundog - Who We Are

• Installers of
  – Closed Cell Spray Foam Insulation
Sundog - Who We Are

• Manufactures of
  – Smart Houses
Sundog - Who We Are

- Manufactures of
  - Solar Power Stations
Sundog - Who We Are

• Manufactures of
  – Renewable Energy Trainers
Sundog – What We’ve Accomplished

- 20,000 square foot Carbon Neutral Building
Sundog – What We’ve Accomplished

• Upstate New York’s ONLY Solar Thermal Air Conditioner
Sundog – What We’ve Accomplished

• 127 kW of Solar Photovoltaics Installed
Sundog – What We’ve Accomplished

• Installation of Vegetable Oil Boiler
Sundog – What We’ve Accomplished

• Installation of Closed Cell Foam on Outside of Building
Sundog – What We’ve Accomplished

• Building Battery Back Up
Sundog – What We’ve Accomplished

• Converted Solar Installation Vehicle to run on Veggie Oil.
Sundog – What We’ve Accomplished

- NYSERDA Sponsored Solar Thermal Test Station
How to Build a House for Non-Urban Low Income Families

- Superior Insulation – Closed Cell Foam
- Photovoltaic Roof/Awning and Battery Storage.
- Solar hot water heater with electric back up.
- LED Lighting
- Energy Efficient Widows And Appliances
- Space Saving Design
- Position Appropriately
Summary – We Can Transform the Double Wide

- Insulation
- Windows
- Heating
- Renewable Energy Systems
  - Solar Photovoltaic
  - Solar Hot Water