DIY Grid Tied Solar Richard & Rosemary Mudgett

Research

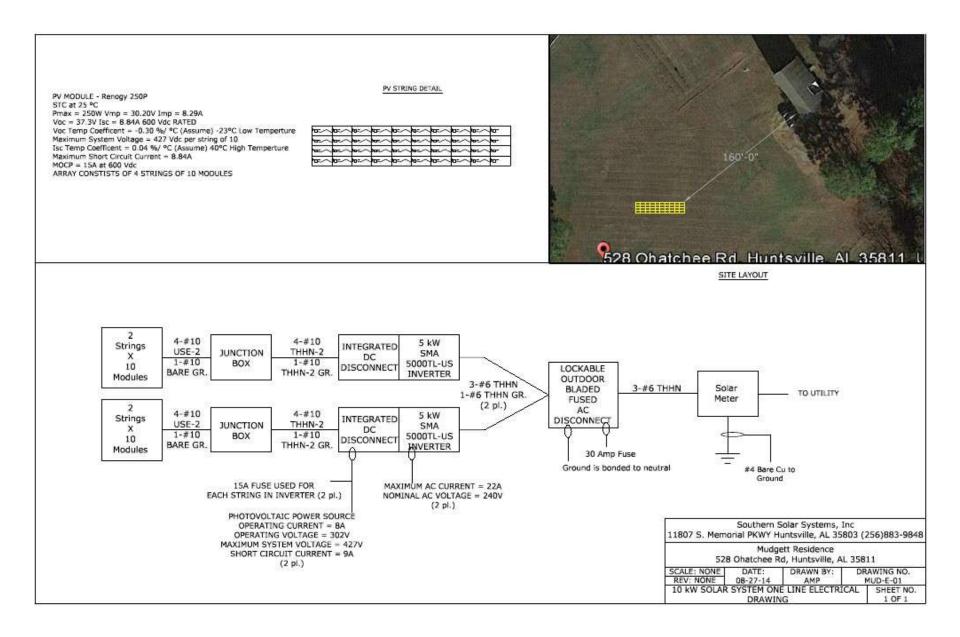
- Tracking vs fixed
- Active tracking, passive tracking, or fixed frame
- Panels
- – Monocrystaline or Polycrystaline
- Inverters
- – SMA Sunny Boy with backup circuit
- Find a company that will work with you

Return On Investment

- Incentives
 - 30% tax credit, TVA \$1000, kWH premium rate
- Cost
 - Equipment, rental, services
- Estimate production
 - PV estimator website
- Calculate payback time

Bureaucracy

- TVA Green Power Providers (GPP) contracts
 - GPP Capacity Reservation Request
 - GPP Participation Agreement
 - GPP Interconnection Agreement
- Huntsville Utilities
 - System line drawing
- Local inspections
 - NEC compliance



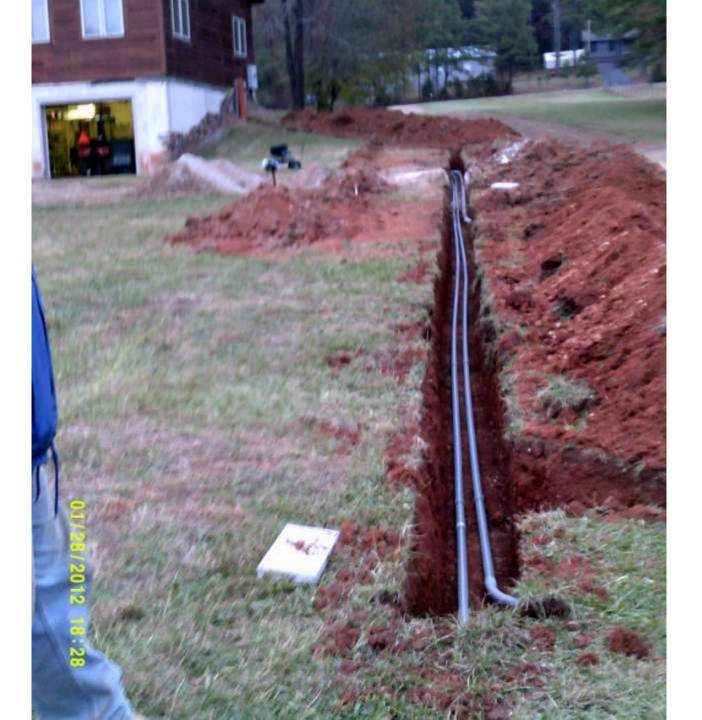
Installation



















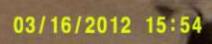












Results

Month	Total (kWh)	kWh/Day	Est KWH/Day
Dec (partial)	247	17.6	26.7
Jan	916	29.5	28.8
Feb	877	31.3	35.9
Mar	1010	32.5	39.1
Apr	1204	40.1	44.3
May	1452	46.8	43.3
Jun	1355	45.2	44.4

We expect to pay \$200 for electricity this year.

We expect \$525 from TVA this year for the \$0.04 premium.