

Thinking of a career in solar energy or installing a PV system?

Installing a Stand Alone PV System (a video).

Great Brook Enterprises is pleased to share some of over twenty years installation experience in this new 55 minute instructional VHS video demonstrating the installation of Stand Alone solar Photovoltaic (PV) Systems. This detailed video explains the components and how a stand alone solar PV system works in a manner easily understood by electricians, installers and technically minded homeowners. Using live footage, animation and illustration, this video introduces design and installation of residential Stand Alone PV systems. Overall system concepts with practical design and construction solutions and practical tips are presented.

This helpful video offers a detailed introductory overview of the following topics:

- Typical system components including sizing and placement for optimum efficiency;
- Site Selection;
- Basic concepts of DC electricity;
- Battery storage systems;
- PV module and battery bank wiring;
- elements of grounding,
- wire size and color coding;
- load assessment;
- energy conservation ideas;
- maintenance;
- safety and code compliance;
- information on hybrid wind/ hydro/ solar systems;
- Other important factors which need consideration.

The discussion of a wire color coding transition from automotive to National Electric Code standard will be of interest to electricians responsible for maintaining or expanding older systems. Homeowners interested in system maintenance and more detail about how it all works would also find it useful.

As clean viable Renewable Energy (R.E.) technology becomes a popular alternative to conventional energy, increased demand requires new skilled R.E. technicians, electricians and sales people. This video serves as an introduction to further study for those interested in pursuing this exciting emerging technology.

Designed both for the layman who is just thinking of going solar and for experienced electricians, this easily understood video is a must have. Be sure to order your copy today!

This video was produced in connection with contract work performed by Great Brook Enterprises for New York State Energy Research and Development Authority (NYSERDA) www.nyserda.org. Dr. Gay Canough of ETM Solar Works served as a technical consultant.

Installing a Stand Alone Photovoltaic System

As clean viable Renewable Energy (R.E.) technology becomes a popular alternative to conventional energy, increased demand requires new skilled R.E. technicians, electricians and sales people. This 55 minute video using live footage, animation and illustration introduces design and installation of residential stand alone photovoltaic (P.V.) systems. Overall system concepts with practical design and construction solutions and practical tips are presented. Attention is given to: Basic D.C. power; P.V. module and battery wiring; overview of typical system components including sizing and placement for optimum efficiency; elements of grounding, wire size and color coding; energy conservation ideas; load assessment; maintenance; safety and code compliance. Discussion of a wire color coding transition from automotive to National Electric Code standard will be of interest to electricians responsible for maintaining or expanding older systems. Home owners interested in system maintenance and more detail about how it all works would also find it useful.

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David Austin (Dave) founder and manager of Great Brook Enterprises (GBE) graduated from Clarkson University with a B.S. in 1978. Inspired by the oil embargo of 1974 Dave decided to devote his life to bringing renewable energy technologies to the general public. GBE has been his vehicle to reach that goal. With this goal in mind Dave has taken several R.E. training courses and done much personal independent study. Dave started with solar water heaters and large active and passive space heating through the early eighties. Ground Source heat pumps saw GBE through the dry times for solar after the 1985 end of federal tax credits. The demand for solar, wind and microhydro electric systems has steadily increased since 1990 keeping Dave busy. Having designed and installed over 150 systems of all types in rural and urban New York State, Dave is uniquely qualified to share some of his experience through this video.

Copies available from Great Brook Enterprises, 819 County Rd 28, South New Berlin, NY 13843 . www.nyinstallsolar.com 607-847-6366.

Produced for Great Brook Enterprises by Phillip Harris



Installing a Stand-Alone Photovoltaic System Great Brook Enterprises VHS

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