



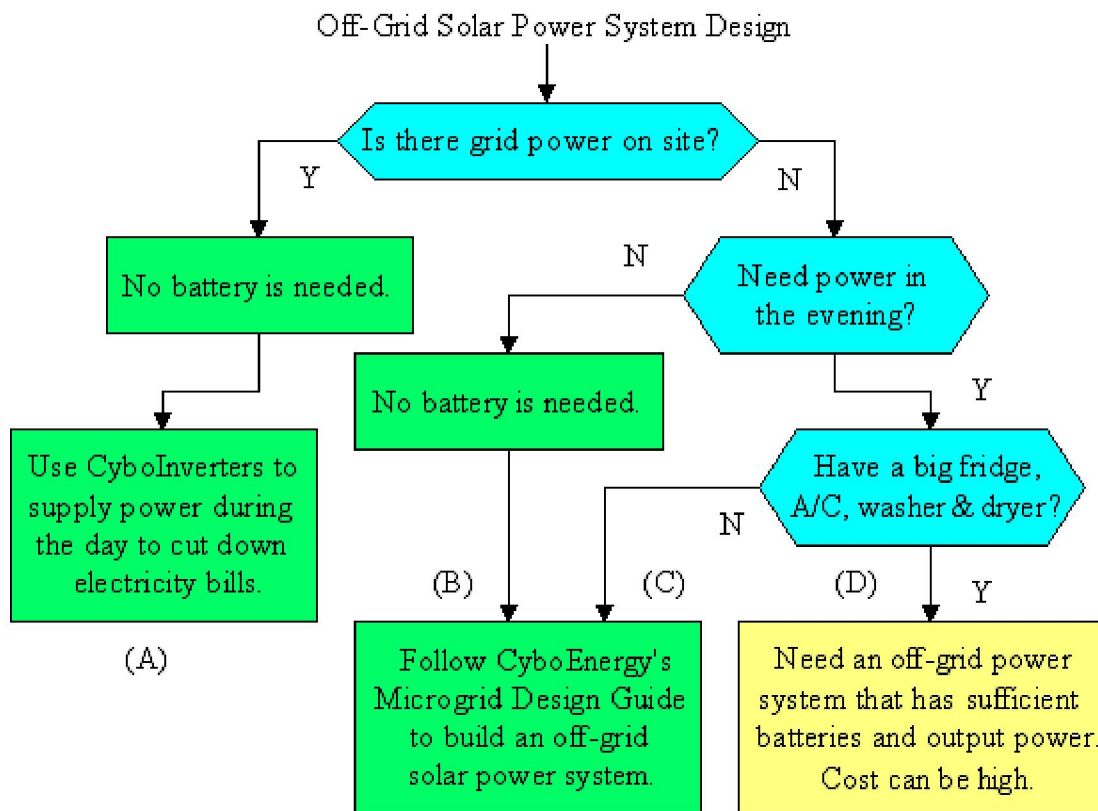
News Release

CyboEnergy Releases Solar Power Microgrid Design Guide

March 5, 2014 – CyboEnergy, Inc. (Rancho Cordova, CA), announced today that it has released a Solar Power Microgrid Design Guide to enable customers and partners to better design off-grid solar power systems or microgrids for their specific applications.

CyboEnergy CEO, Dr. George Cheng said, “While the energy storage based microgrids are gaining a lot of attraction, we found a niche for the **Battery-less Microgrid** market, where the off-grid CyboInverter is probably the only solar inverter suitable. There are so many off-grid solar applications where batteries are really not needed. We want to show how to build cost-effective microgrids for various off-grid solar applications.”

The Design Guide starts with a flowchart as shown below to direct the application into one of the 4 categories A, B, C, or D. Based on the selected category, the reader can see their design options and suggested approaches.



For instance, Category A, the Design Guide points out that since there is grid power, no battery is needed. Because the installation is easy and the investment is small, a quick ROI is expected. The action items include:



- Use a CyboInverter H model for dual-element electric water heaters;
- Use a CyboInverter H model for water heaters, electric cookware, and electric hot plates. Use a double-pole-double-throw switch (On-Off-On type) to switch between the grid power and CyboInverter output; and
- Use off-grid CyboInverter(s) to build microgrids to power lights, LED lights, fans, TVs, computers, air heaters, battery chargers, and small appliances.

“We have talked with many people who want to go off-grid because they dislike the utility grids, but are unaware of the cost involved. The batteries alone needed to power typical household appliances including refrigerators, air-conditioners, washers and dryers can cost tens of thousands of dollars. Very few people would have the funds and desire to go totally off-grid. Most just want to save electricity bills, which is much easier to achieve with what we offer,” said Dr. Cheng. “Since the microgrid applications can be so diversified and complicated, this Design Guide can help people understand and fulfill their needs.”

Microgrids can leap over traditional power grids and provide power to rural parts of the world where billions of people are living without electricity. The Design Guide also includes microgrid design rules for this market. In Category C, based on the power usage during the day and night, a microgrid can be designed using 1 to 4 solar panels with one set of 36V batteries. For instance, if the site has light activities during the day, and more activities at night, a 2 solar panel and 1 battery configuration can provide 1000W AC during the day, and 500W AC at night. Since the off-grid CyboInverter has 4 input channels that can be connected to either solar panels or batteries, it offers unique design flexibility.

The CyboEnergy Solar Power Microgrid Design Guide is in Powerpoint format with easy to understand graphics, drawings, comparison tables, and highlighted text. It can be useful for three groups of readers:

- (1) DIY (do-it-yourself) home owners,
- (2) Solar installers serving the off-grid solar power market, and
- (3) Companies and entrepreneurs that want to build a cost-effective system for a specific application such as solar heating or cooking to benefit a large group of people.

The CyboEnergy Solar Power Microgrid Design Guide can be downloaded from CyboEnergy’s website. To purchase CyboInverters or request an Installation Guide, please contact CyboEnergy at www.cyboenergy.com.



CyboEnergy **CyboInverter - For a Green World**
Solar Power Microgrid Design Guide

CyboInverter **The World's First Solar Power Mini-Inverter**

Smart & Scalable **On-Grid or Off-Grid**
Multiple DC Inputs **Long Life**
MPPT for Each Panel **Easy Installation**

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CyboEnergy is a subsidiary of CyboSoft, General Cybernation Group Inc., focusing on the development, manufacturing, marketing, and services of product lines in the clean energy field. CyboEnergy received the Frost & Sullivan's 2013 Global Product Differentiation Excellence Award in Solar Inverters. Founded in 1994, CyboSoft is the leader in control technology serving the worldwide process control, building control, and equipment control markets.

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