# Solar Powered WiFi Networks

## Background
GreenWiFi is a social enterprise with an innovative design for affordable Solar Powered WiFi and energy management and monitor.

## Mission
Green Wi-Fi's mission is to deliver energy efficient ICT solutions, such as solar powered Wi-Fi for Internet access.

## Value Proposition
Affordable solar powered WiFi requiring little set-up and technical support and no dependence on conventional power.

## Market Opportunity
Telco's, Schools, ISPs, and NGOs in areas with unreliable or limited electric grid power.

## Showcase Projects
Showcase installations are planned in Haiti and Senegal.

## Green Wi-Fi's Core Team
Bruce Baikie, Founder and Pargag Mody, CTO & VP Engineering. They met while working at Sun Microsystems and bring significant hardware and software expertise, as well as international ICT4D experience. Bruce and Parag both graduated from the Michigan University system.

## Location
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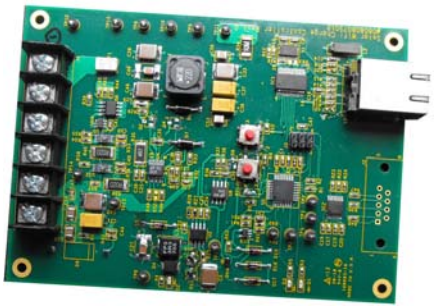
## Innovative Approach for Solar powered WiFi

Green WiFi (GW) has developed low cost, solar powered, WiFi system charge controller. The goal is to provide Internet access and communications in areas and situations where power is nonexistent, unreliable or an alternative to the electric grid, at an affordable cost.

What makes GW approach unique is the intelligent charge control management (ICCM), which manages power consumption between the solar panel, the battery and the WiFi device. The ICCM monitors the available charge of the battery and can place the wifi device on a "power diet" when the battery charge falls below a certain level. This allows it to operate with small affordable batteries and 10 watt solar panels.

## GW ICCM Features 2011

1. Automatic tracking of maximum power point (MPPT algorithm)
2. Battery and solar panel voltage and current detection
3. Automatic low voltage disconnect of load to prevent battery over-discharge
4. Remote web monitoring of solar panel, battery status, and power usage
5. Temperature compensation of float voltage point
6. Input transient protection
7. Overcharge and under-voltage protection
8. POE compliant and adjustable outputs
9. Built-in power negotiation protocol for communication with intelligent loads
10. Remotely upgradeable firmware via web interface
11. Maximum load and battery current - 8 amps
12. 12 and 24 volt support



*www.green-wifi.org*