

The off-grid opportunity

Of all the renewable sources of energy, sunlight provides by far the most raw power. The challenge is to convert that potentially useful energy into everyday electricity at a reasonable cost.

Today some 1.6 billion people have no access to electricity and this number is currently projected to barely change in the foreseeable future, with some 1.3 billion people globally still forecast to be without access to electricity in 2030. The problem is particularly acute in rapidly developing areas of Asia and Africa, where a combination of population growth and industrial development is placing huge demands on the existing electrical infrastructure.

Traditional solar generation efforts have focused on replacing fossil fuel-based power generation for mainstream electrical applications (so called 'on-grid' power). However, in countries where the distribution grid infrastructure itself is lacking, another market is rapidly growing for domestic and consumer applications that are not connected to mains electricity. Such devices are powered by batteries, kerosene or



diesel generators – all of which have a disproportionately high environmental impact as well as a high cost compared to standard on-grid electricity.

Eight19's revolutionary technology converts solar power from an upfront purchase to an ongoing service. This approach allows users to switch spend on kerosene directly to a spend on solar power, replacing dim and harmful kerosene lanterns with high quality, clean solar lighting and the additional benefit of free mobile phone charging.

**For more information,
call +44 (0)1223 437 437
or visit www.eight19.com**



Smarter Solar Power

IndiGo technical specification

**Product:**

2.5W solar cell

3000 mAh rechargeable battery

Outputs:

Dedicated light output for
2 LED light units with light intensity
of 55 lumens per lamp

USB power out for phone charging
and 3rd party USB peripherals

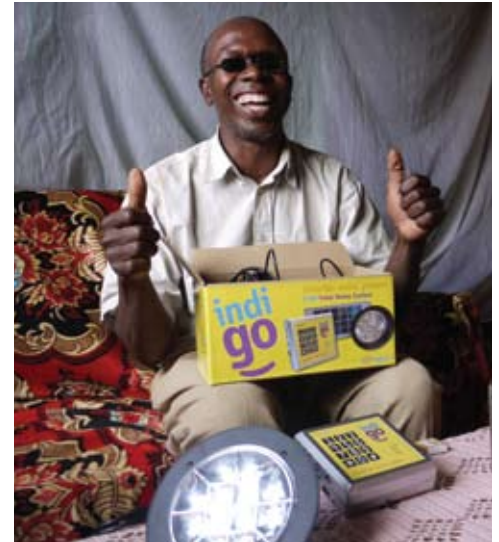
Typical output per charge:

Internal battery charging time –
7 hours

1x 12-LED light, 12 hours

2x 12-LED light, 7 hours

Included adapters for 15 leading
mobile phone brands



IndiGo is an affordable solar lighting and battery charging system that brings low cost energy to off-grid communities. With IndiGo, users put credit on their solar cell, just as they would on a mobile phone.

Power from the cell then charges the battery in the IndiGo box, making electricity available for lighting or charging other devices, such as mobile phones.

The top-up codes are sent securely to owners' mobile phones as text messages. Without the codes, the system does not generate electricity.

The IndiGo 2.5W solar home lighting and charging system includes:

A solar panel and IndiGo box with a charge controller and battery; an LED lamp; an adapter lead for most popular mobile phones; connecting cables; and two, one-day top-up cards.

