



# *Glenergy*

## *Sensible Energy Alternatives*




Inside:

- Solar Lamps
  - 12 V DC Bulbs:
    - LED*
    - Compact Fluorescent*
    - Cold Cathode Fluorescent*
  - Flashlights
  - Solar Panels
  - Portable Solar Power
  - Rechargeable Batteries
- ...and much more!**


 *Glenergy*

July 2010

## Our Mission



*Glenergy's mission is to provide solar lights and power to people throughout the world, especially those who do not have access to grid electricity or who have only limited access to unreliable grids. We believe that small amounts of solar electric power (distributed with applications such as long-lived, energy-efficient LED lights) can both improve quality of life and reduce greenhouse gas emissions.*



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## Lighting Solutions

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*\*All prices listed in Canadian dollars. U.S. pricing available upon request.*

# EDULIGHT Series

At heart, the Edulight is a battery-powered LED reading lamp. The basic model has evolved to include table lamps and wall lamps. All can be configured with 1 W or 3 W LED bulbs or with one of several types of fluorescent bulbs. An easy off-grid lighting system can be assembled using Edulight lamps without batteries and the plug and



play Glenergy Distribution Box connected to a 12 Volt solar system. Battery-powered units can be charged from 1W to 3W solar panels.

\* Please specify color when ordering EDULIGHT products: Red, White, Black, Royal Blue or Light Blue.

## Wall Lamp



	Part #	Price (\$)
Wall Lamp with CFL	WL	25
Desk Lamp with NiMH Battery pack	DL-HP25	32 20 (Without Battery pack)
Table Lamp	TL-DC	28 15 (Without Battery Pack)



## Desk Lamp



## Table Lamp

Accessories	Part #	Price (\$)
1 W Solar Panel	SP 1A	10
3 W Solar Panel	SP 3A	20
AC Adaptor	AC 128	10
Replacement Battery Pack	BPH 25	15
3 Watt LED Bulb	LED CW3	16

## KN Series

	Part #	Price (\$)
Hanging Lantern	KN 3024	30
Oblong Lantern	KN 3324	25
Flat Lantern	KN 3060	35
Solar Fan	KN-2387L	40

The KN series of battery powered LED lamps and LED lanterns are ideal for remote solar lighting projects. They can be centrally charged from 220V AC or a 12V DC solar system. Or, they can be charged from a small 2- or 4-Watt solar panel. The KN3060 and KN3324 models have three brightness settings and can be hung on the wall or ceiling or can be placed on a shelf or table. The KN3324 has 24 LEDs and a 2 Amp hour sealed lead acid battery while the KN3060 has 60 LEDs for more light as well as a larger 4.5 Amp hour battery. The KN3024 is a very versatile 24-LED lantern, suitable for hanging or placing on a surface. Like the other models, it can be charged at a central station or with a dedicated solar panel.

Hanging Lantern



Oblong Lantern



Flat Lantern



Solar Fan



Accessories	Part #	Price (\$)
1 W Solar Panel	SP 1A	10
2 W Solar Panel	SP 2A	15
4 W Solar Panel	SP 4A	25

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## Charging Options

### 12 V Distribution Box

This box is ideally suited for remote lighting systems. It comes ready to connect to the load control port of a charge controller and provides fused plug and play access to 12 Volt lighting and lamps (up to six 2-Amp circuits) and to a 5 Amp automotive jack. Easy-wire plugs are available to connect wired lamps that do not already have plugs.

GDB 6-1 \$100.00



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### Charging Box

This box is used to charge up to 8 of our KN series lamps and up to 4 cell phones at the same time. It can be connected to either a 12 Volt or a 24 Volt solar system. It comes with lamp charging cords and cell phone adapters.

GCB 8-4 \$100.00



## Telescopic Lamp

The elegantly-styled, rechargeable Telescopic Lamp is a compact marvel that offers a bright, cool, and flexible way to light. With 28 LEDs, the Telescopic Lamp offers three light settings. Measuring just 18 by 5 cm when fully closed, this 28 LED lamp will reach the darkest of corners with its smooth action, 3-piece telescopic arm. The arm extends from 17 cm to a maximum of 34 cm. A rotating head adds further practicality as it turns a full 315°!

When fully charged, the Telescopic Lamp (with 4 or 6 Ni-MH batteries) will run for up to 35 hours on its lowest setting and over 5 hours on its highest. With no power cable to worry about, the Telescopic Lamp can be used anywhere that you need light.



Telescopic Lamp Options	Part #	Price (\$)
Telescopic Lamp (6 Ni-MH Batteries)	SL	70
Telescopic Lamp (4 Ni-MH Batteries)	SL 4	55
1 W Solar Panel	SP1 1	10
2 W Solar Panel	SP2A 1	15
3 W Solar Panel	SP3 1	20

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## 12 V DC Bulbs

# LED Bulbs

LED bulbs are perfect for situations where directed, low power consumption lighting is required. In places where bulb-changing is awkward, dangerous, or impossible, LEDs provide an excellent long-term solution.

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Part#: LB18-B	Colour: White	Base: Edison E27
Voltage: 12 V DC	Type: 18 LEDs	Price: \$16.00
Power: 1 Watt		



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Part#: LB18-P	Colour: White	Base: 2 Pin MR-16
Voltage: 12 V DC	Type: 18 LEDs	Price: \$16.00
Power: 1 Watt		



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Part#: LBR18-B	Colour: Red	Base: Edison E27
Voltage: 12 V DC	Type: 18 LEDs	Price: \$16.00
Power: 1 Watt		



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Part#: LED-3CW	Colour: Cool White	Base: Edison E27
Voltage: 12 V DC		Price: \$28.00
Power: 3 Watt	Type: 3 LEDs	



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Part#: LED-3WW	Colour: Warm White	Base: Edison E27
Voltage: 12 V DC		Price: \$28.00
Power: 3 Watt	Type: 3 LEDs	



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Part#: LED-Q60-CW	Colour: Cool White	Base: Edison E27
Voltage: 12 V DC		Price: \$15.00
Power: 0.7 Watt	Type: 12 LEDs	



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Part#: LED-Q50-WW	Colour: Warm White	Base: Edison E27
Voltage: 12 V DC		Price: \$15.00
Power: 0.8 Watt	Type: 12 LEDs	

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## Compact Fluorescent Bulbs

The compact fluorescent lamp (CFL) is a practical, energy-saving solution. CFLs have proven themselves to be up to four times more efficient than incandescent bulbs and are ideal for lighting small to medium spaces. With medium, screw-in (Edison) bases, CFLs are easy to insert into most fixtures. The following bulbs are available in a variety of voltages, wattages, shapes and colours in order to meet the individual needs of each customer.



Spiral  
Type



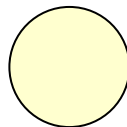
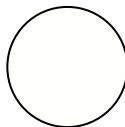
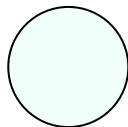
Bulb Type



U  
Type

### Colour Temperatures

6400K Daylight    4200K Cool White    2700K Soft White



## Compact Fluorescent Bulbs\*

### *Compact Fluorescents: U Type*

Part #	Colour	Power	Price (\$)
CFD3U2	2700K	3W	10.00
CFD3U4	4200K	3W	10.00
CFD3U6	6400K	3W	10.00
CFD5U4	4200K	5W	10.00
CFD5U6	6400K	5W	10.00
CFD7U2	2700K	7W	11.00
CFD7U4	4200K	7W	11.00
CFD7U6	6400K	7W	11.00
CFD9U2	2700K	9W	11.00
CFD9U4	4200K	9W	11.00
CFD9U6	6400K	9W	11.00
CFD11U2	2700K	11W	11.00
CFD11U4	4200K	11W	11.00
CFD11U6	6400K	11W	11.00
CFD15U2	2700K	15W	12.00
CFD15U4	4200K	15W	12.00
CFD15U6	6400K	15W	12.00
CFD20U2	2700K	20W	15.00

\*all bulbs listed on this page have Edison E27 base

## Compact Fluorescent Bulbs\*

### *Compact Fluorescents: Spiral Type*

Part #	Colour	Power	Price (\$)
CFD15S4	4200K	15W	12.00
CFD15S6	6400K	15W	12.00
CFD20S2	2700K	20W	15.00
CFD20S4	4200K	20W	15.00
CFD20S6	6400K	20W	15.00
CFD25S2	2700K	25W	15.00
CFD25S4	4200K	25W	15.00
CFD25S6	6400K	25W	15.00

### *Compact Fluorescents: Bulb Type*

Part #	Colour	Power	Price (\$)
CFD3B2	2700K	3W	12.00
CFD3B4	4200K	3W	12.00
CFD3B6	6400K	3W	12.00
CFD5B2	2700K	5W	12.00
CFD5B6	6400K	5W	12.00
CFD9B2	2700K	9W	13.00
CFD9B4	4200K	9W	13.00
CFD9B6	6400K	9W	13.00

\*all bulbs listed on this page have Edison E27 base

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## 12 V DC Bulbs

### Compact Fluorescent Bulbs

#### *Compact Fluorescents (with Sensor)*

Part #	Colour	Power	Base	Price (\$)
CFD7SS2	2700K	7W	Edison	13.00
CFD7SS4	4200K	7W	Edison	13.00
CFD7SS6	6400K	7W	Edison	13.00
CFD20SS2	2700K	20W	Edison	20.00
CFD20SS4	4200K	20W	Edison	20.00
CFD20SS6	6400K	20W	Edison	20.00

#### *Bayonet Base Compact Fluorescents*

Part #	Colour	Power	Base	Price (\$)
CFDB5U6	6500K	5W	Bayonet	10.00

#### *B-22 Base Compact Fluorescents*

Part #	Colour	Power	Base	Price (\$)
CFDB2-11U2	2700K	11W	B-22	11.00
CFDB2-11U6	6400K	11W	B-22	11.00
CFDB2-15U6	6400K	15W	B-22	12.00

## Linear Fluorescent Fixtures and Tubes

Fluorescent light is produced when the phosphor coatings in a tube convert ultraviolet light into visible light after a gas discharge is created in the tube. Fluorescents provide diffused light which, together with their high energy efficiency, makes them ideal for lighting large, open areas. Small fluorescent lights like those shown below are an efficient way to provide lighting for almost any application.

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Part#: TF-08



*Fixture with one 8W linear tube*

Color: Warm or Cool White

Power: 8W

Price: \$20.00

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Part #: TF-24



*Fixture with three 8W linear tubes*

Color: Warm or Cool White

Power: 24W

Price: \$40.00

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Part#: T8-W/T8-C



*Replacement bulb*

Color: Warm or Cool White

Power: 8W

Price: \$12.00

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Part#: TF 191



*8W tube and fixture with on/off switch*

Color: Cool White

Power: 8W

Price: \$30.00

## Flexible LED Strips

The ultimate in lighting flexibility. This pliable, bendable LED strip comes equipped with high-power LEDs to provide impressive light coverage in those hard to reach places. An adhesive backing makes mounting a breeze. Curves, corners, round objects, as well as archways or canopies, and almost any place you can imagine can now be lit quite effectively. Can be cut into strips as small as 10 cm (3 LEDs). Consumes only 7.2W (0.6A) per meter length. Available in Cool white color. A variety of other colors are available by special order.

### LED-STR-CW

#### Options

STR-mount: 1m rigid aluminum channel for fixed mounting with clear, or frosted lens cover.

STR-dimmer: Variable dimmer with remote control. Single unit will control up to 12 m of lighting strip

#### Price

LED-STR-CW: \$20 per meter

STR-mount: \$10 ea

STR-dimmer: \$40



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## LED Fluorescent Tube

### LED-T8-1200

Tired of high electricity bills and frequent replacements of fluorescent tubes in your home or office? With an average life of 50 000 hrs, and a power consumption of only 18W, the *LED-T8 1200* mm replacement tube is the simple answer. Available in cool white or warm white. MET approved for use in most of North America. Powered by regular household AC, the LED-T8-1200 does not require a ballast for operation, and is simple to install.

Price: \$80.00 ea



## 12 V DC Light Fixtures

### Water Proof LED Strip Lighting

Part #	Description*	Available Colours	Lumens (lm)	Power	Price (\$)
SF-W SF-WW SF-R SF-G SF-B SF-Y	30 LED Silicon Flex Strip	White Warm White Red Green Blue Yellow	78 73 51 78 34 51	2.7 W 2.7 W 2.7 W 2.7 W 2.7 W 2.7 W	20.00 20.00 20.00 20.00 20.00 20.00
RB-W RB-WW RB-B	120 LED Rigid Bar	White Warm White Blue	255 240 150	9.6 W 9.6 W 9.6 W	42.00 42.00 42.00
PM4-W PM4-B	4 LED Piranha Module	White Blue	4.5	0.6 W	6.00
PB18-W PB18-WW PB18-R PB18-G PB18-B PB18-Y	18 LED Piranha Bar	White Warm White Red Green Blue Yellow	22	1.8 W	15.00
PB36-W PB36-WW PB36-R PB36-G PB36-B PB36-Y	36 LED Piranha Bar	White Warm White Red Green Blue Yellow	100 94 68 98 42 68	3.6 W	30.00 30.00 25.00 25.00 25.00 25.00
Extra Connector	Connector on one end and wires on the other	n/a	n/a	n/a	3.00
Orion W Orion C	Orion 30 LED Strip	Warm White Cool White	n/a	n/a	40.00
Astro	0.5m mounting bracket for Orion LED strip	n/a	n/a	n/a	10.00

## Sign Lighting

### CUSTOM SIGN LIGHTING

*The Glenergy team offers custom sign lighting using combinations of LED strips, flood lights, compact fluorescents and halogens. Contact a Glenergy sales representative to discuss your sign lighting needs today!*



## Flood Lights

Our exterior 12 V DC LED Flood Lights are the perfect partner for solar or wind powered outdoor lighting systems. **Glenergy's 200 LED Flood Lights use 5mm LEDs** to provide outstanding light output. They are ideal for lighting signs, paths or for security lighting. In addition, **the new FH line offers larger high flux LED's** in a smaller number while providing superior lighting in any application.

Narrow Beam  
LED-FLC200



Wide Beam  
LED-FL200



Small Flood  
FH - 18



Large Flood  
FH - 36



Part #	Power (W)	Lumens	Dimensions (cm)	Price (\$)
FL99	8	150	12.5 x 9 x 8.5	60
FLC200	16	300	17 x 12.5 x 11	100
FH-18	22	1180	19.5 x 18.5 x 27	180
FH-36	47	2000	33 x 18.5 x 29.5	250

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## 24 V DC Bulbs

### 24 V DC Compact Fluorescent: U Type



CF2D11U4

Part #	Colour	Power	Base	Price (\$)
CF2D11U4	4200 K	11W	Edison	11.00
CF2D11U6	6500 K	11W	Edison	11.00
CF2D20U2	2700 K	20W	Edison	15.00
CF2D20U6	6400 K	20W	Edison	15.00

### Compact Fluorescent: U Type (240 V AC)

Part #	Colour	Power	Base	Price (\$)
CF2A9U6	6400K	9W	Edison	7.50
CF2A15U6	6400K	15W	Edison	7.50
CF2A20U6	6400K	20W	Edison	7.50

### Compact Fluorescent: Spiral Type (120 V AC)



CF1A-7S2

Part #	Colour	Power	Base	Price (\$)
CF1A 7S2	2700K	7W	Edison	4.00
CF1A13S2	2700K	13W	Edison	4.00



CF1A-13S2

*Additional bulb types, wattages, and voltages are available by special order.*

## EnLux LED R30 Floodlight

The enLux LED R30 Floodlight is a drop-in replacement for 45W and 65W incandescent floodlights. You simply open the box and screw in the bulb! The R30 is available in three white tones: warm (2700K), neutral (3300K) and cool (4200K). It is also available with a variety of fin colors to work with any décor (silver, white and black). The R30 is designed to be efficient, durable and stylish. It has a life of 50,000 hours.

CFL Color Temperature: 4200K, 3300K, 2700K

Price: ~~\$120.00~~  
\$90.00



## Flashlights and Lanterns

### *Human-Powered Flashlights*

#### Dynamo LED Flashlight

These flashlights will never need batteries! One minute of hand-cranking provides about 40 minutes of light or 2-5 minutes of power for your mobile phone. Mobile phone connectors are included.



Part#: LED-Flash-127

Price: \$10.00

#### Dynamo LED Flashlight with Radio



Offering the same illumination and mobile phone charging capacity as the Dynamo LED Flashlight shown above, this flashlight also includes an AM/FM radio.

Part#: LED-Flash-128

Price: \$15.00

### *Solar Bicycle Lights*

Available in red (rear) or white (handlebar), these bicycle lights charge with exposure to the sun. 3 hours of sunlight provides about 7 hours of LED light. The unit is compact and lightweight and includes attachment fixtures. Can be set to steady light or flashing mode.



Part #: SBL-R (*Red*)  
SBL-W (*White*)

Price: \$35.00

# Glenergy Solar Panels

Part #	Specification					Price (\$)
	Voc	Isc	Vmp	Imp	Pmax	
SP-1	21V	65 mA	18 V	60mA	1 W	10.00
SP-1A	9.5V	0.12 A	9 V	0.11A	1 W	10.00
SP-2A	9.8V	0.23 A	9 V	0.22A	2 W	15.00
SP-3	19.2V	0.2 A	16.5 V	0.185A	3 W	20.00
SP-4A	9.8V	0.46 A	9 V	0.44A	4W	25.00
SP-10	20.9V	0.7 A	17.4 V	0.6A	10 W	60.00
SP-20	21.1V	1.2 A	17.3 V	1.2A	20 W	110.00



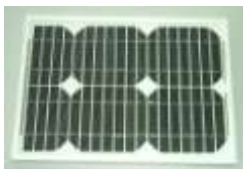
1W Panel



2W Panel



3W Panel



10W Panel



20W Panel

## Glenergy Solar PowerPacks

Ever find yourself wishing you had charged your cell phone while you still had access to power? Is your GPS unit in need of recharging when in the ‘middle of nowhere’? Such dilemmas can be easily avoided with a Glenergy Solar PowerPack.

Part #	Energy (W·h)	Solar Panel	Battery	Price (\$)
PP25	25	1 W	10 AA NiMH	30.00
PP50	50	3 W	20 AA NiMH	60.00

The Glenergy team has developed 12 V DC Solar PowerPacks to provide energy in situations where other power sources are not available. These self-contained units can be used to operate small wattage lights, cell phones, radios, and other devices in the most remote of locations.

### Charging & Adapters



- Devices using 2.1 mm or automotive cigarette plugs can be charged using a Solar PowerPack
- Each Solar PowerPack comes accompanied by a convenient automotive cigarette plug socket adapter
- Other adapters (2.1 mm, 1.3 mm) are also available upon request

## Solar Chargers

This solar charger can charge or run almost any cell phone, MP3 player or other small electronic device using the accompanying connectors. The charger includes a 7 watt-hour battery (1900 mAh Li-polymer at 3.7 volts), a 0.4 watt solar panel and several output voltages. The extra features: LED flashlight, blacklight, and FM radio. If sunshine is not available or is too low (several days of full sun are needed to fully charge the battery) it can be charged from a computer using a USB cable, or using the wall plug adapter (both included).

Part #: Solar Charger

Colours: Black, white, and silver

Price: \$40.00



## Rechargeable Batteries



Part #	Cell Size (C-top)	Type	Capacity (mAh)	Price (\$)
BC-AA800	AA	NiCd	800	1.30
BH-AA1200	AA	NiMH	1200	1.15
BH-AA2000	AA	NiMH	2000	2.15
BH-AAA900	AAA	NiMH	900	1.45
BH-C4500	C	NiMH	4500	6.00
BH-D8500	D	NiMH	8500	9.00

## Replacement Battery Packs

Part #	Cell Size	Type	Capacity (mAh)	Energy (W·h)	Price (\$)
BPC-10	10 X AA	NiCd	900	10	12.00
BPH-25	10 X AA	NiMH	2000	25	15.00
BPH-10	10 X AAA	NiMH	800	10	10.00
BPHS-10	10 X AAA	NiMH	800	10	10.00
BPH-3	3 X AAA	NiMH	800	3	4.00

## AC Adapters



Part #	Voltage	Amp.	Connector	Polarity	Price (\$)
AC128 +1	12 VDC	800mA	1.3mm	C+	10.00
AC128 +2	12 VDC	800mA	2.1mm	C+	10.00
AC1210 +1	12 VDC	1.0 A	1.3mm	C+	12.00
AC106 -1	10 VDC	600mA	1.3mm	C-	8.00

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## Rechargeable Batteries and Accessories

# Battery Chargers

Quick Charger                      Part#: QC620  
For NiMH and NiCD, AAA—      Price: \$15.00  
AA batteries with 4  
independent circuits. AC  
120V only!



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12V DC Battery Charger      Part#: BC1-A  
12 V DC charger tailored for      Price: \$25.00  
AA/AAA/C/D NiMH and NiCD      Optional:  
batteries. Includes AC              AC128+2 page 25  
adapter.                                  PP50 page 23



# Battery Testers

Tests from A-D, 9V, 1.5V and      Part#: MW222  
6V batteries under actual load      Price: \$10.00  
conditions



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Tests AAA, AA, C, D and 9V      Part#: MW333  
batteries. Also tests CR123A,      Price: \$15.00  
CR2, CR-V3, 2CR5, CR-P2  
lithium photo batteries, lith-  
ium coin cells and most com-  
mon primary button cells.



## Solar Fan Hat

Let the sun keep you cool on those hot summer days! This comfortable, stylish hat not only protects you from the harmful rays of the sun - it puts the sun to work for you. While in direct sunlight, the mini solar panel on the top of the hat powers a mini fan which directs a constant breeze toward your forehead to keep you cool. No batteries are required. Great for camping, gardening, boating, golfing, hiking, or any time when you simply need to cool down.



Hat Style	Part #	Price (\$)
Bamboo	FHB	10.00
Plain White*	FHW	20.00
White with Canadian Flag*	FHWF	20.00
Red with Canadian Flag*	FHRF	20.00
White with Glenergy Logo*	FHWG	20.00

*\* fan can also be run from a single AA battery*



## Solar Windmill

Show your support for alternative energy by displaying this miniature windmill in your home or office. When placed in the sun, a 0.2W solar panel provides energy to spin the turbine. A great little reminder of the power of nature!



Part #: Solar Windmill  
Price: \$25.00

*Makes a great  
gift!*

## Glenergy in the Developing World

### What We Do

In addition to promoting the use of alternative energy at home in North America, Glenergy is committed to improving the lives of people in the developing world through the application of sensible lighting solutions. We have designed a range of products adapted specifically to meet the basic lighting needs of people without access to the electrical grid who otherwise rely on candles and kerosene lamps. For these people, solar lighting provides a safe, clean, and practical alternative.



### The Benefits of Solar Lighting



- Improved air quality without the emission of harmful fumes from fuel-based lighting systems
- Reduced risk of fire from the burning of candles and kerosene lamps
- Improved light quality for reading and reduced eye strain
- Reduced cost Eliminating the need for the purchase of costly kerosene
- An opportunity for children to read at home after dark
- Portability and function as a safety light for travel in the dark
- Better food, education and health care with an increase in disposable income

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## *Solar Lighting for World Development*

### Who We Work With

Glenergy works with governments, NGOs, businesses and individuals to obtain accurate needs-assessments, determine appropriate lighting solutions and distribute solar lights to those who most need them.

### Where We Work

Glenergy products are currently in use in 46 countries around the world. We have established partnerships and ongoing projects in Central America and in many parts of Africa. Currently, our main areas of focus are in the Kumasi region of Ghana and the greater Dar es Salaam area of Tanzania.



### What You Can Do

You can make a difference today by purchasing a solar lamp to be donated to a family in Ghana or Tanzania. The health and safety risks posed by fuel-based lighting can be eliminated while at the same time **freeing up a significant portion of a family's income. This is assistance** that will benefit a household not only in the short term but for many years to come.

Stop by our shop, visit [www.glenergy.ca](http://www.glenergy.ca), or call + 1 613 687 2310 to make your donation and receive a certificate of appreciation today.



### Further Information

To learn more about current efforts to promote alternative lighting systems in the developing world, visit:

[www.glenergy.ca](http://www.glenergy.ca)  
[www.lightingafrica.org](http://www.lightingafrica.org)  
[www.lutw.org](http://www.lutw.org)

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# *Our Team*



Glen MacGillivray  
*President*



Nicole Logan  
*Volunteer*



Pierre Chaput  
*Customer Service*



Jason Vallis  
*Volunteer*



Kim Zelonka  
*Research and Testing*



Kailea MacGillivray  
*Volunteer*



Ken Burger  
*Product Assembly*



Wade Neigel  
*Computers*



John MacGillivray  
*Product Assembly*



Alexandra Driscoll  
*Marketing Intern*



 **Glenergy**  
*Sensible Energy Alternatives*



*Sensible Energy Alternatives*

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### Store Hours

Monday-Friday    8:30 am    to    4:30 pm  
Saturday-Sunday    Closed



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