



Autonomous renewable energy modules



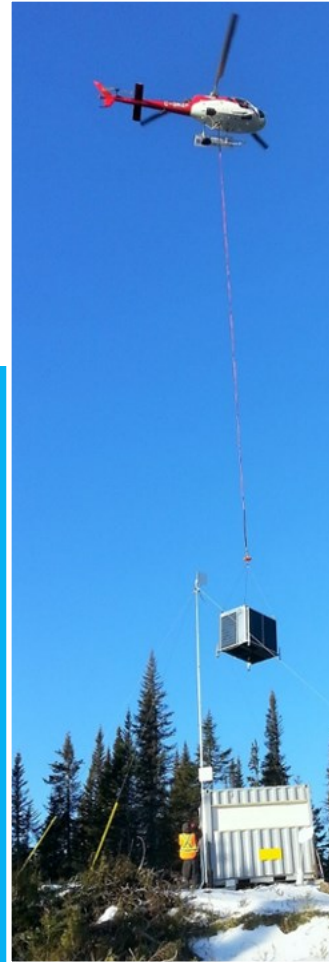


ABOUT US

From the scientific research laboratories of the University of Québec in Rimouski (UQAR), a team of engineers gathered around a bold project: to offer to the developing wind energy industry in Quebec a unique expertise in engineering and innovation.

Since its creation in 1997, Audace Technologies Inc. has helped companies and other institutions to better address energy issues in Canada and around the world through the integration of renewable energy and energy efficiency techniques.

Our multidisciplinary team, mostly composed of engineers, accompanies you from the qualification of your needs to the delivery of your project with professionalism and trustworthiness.



OUR VISION

We want to take part, with our technologies and services, in building a more sustainable world where access to clean and affordable energy is no more an issue for any human being.

OUR VALUES

INNOVATION

Our day-to-day work is to provide our customers with the most innovative energy solutions. Our technologies are designed for easy adaptability to any situation.

TAKING CARE OUR THE ENVIRONMENT

We are committed to the protection of the environment and to the race against climate change. We share this value with our customers and help them to implement it.

TRUST

In addition to our spirit of innovation, we cultivate rigor and love of accomplished work, which makes us a partner of choice for all our customers.

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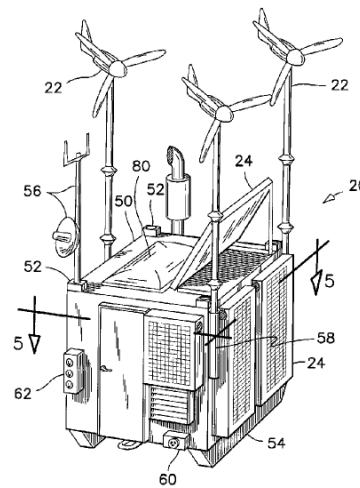


Module autonome mobile d'énergie renouvelable

GreenCube is a green generator equipped with solar panels, wind turbines and batteries. Just like a conventional generator, you only need to press a button to get reliable energy, plus the following advantages:

- No more fuel refills
- Absolute silence
- No exhaust or GHG emissions
- Safety for users and other workers on-site
- Great portability

Clean
Agile
Modular
Durable
Silent



The GreenCube technology is the result of 15 years of development. Evolving continuously, it incorporates some of the most remarkable innovations in different aspects.

- Durable aluminum structure
- Innovative dynamic energy management
- Remote monitoring
- Advanced connectivity with the latest available technologies



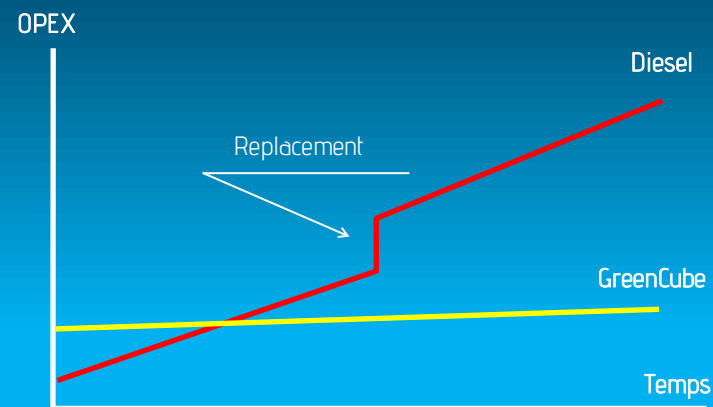
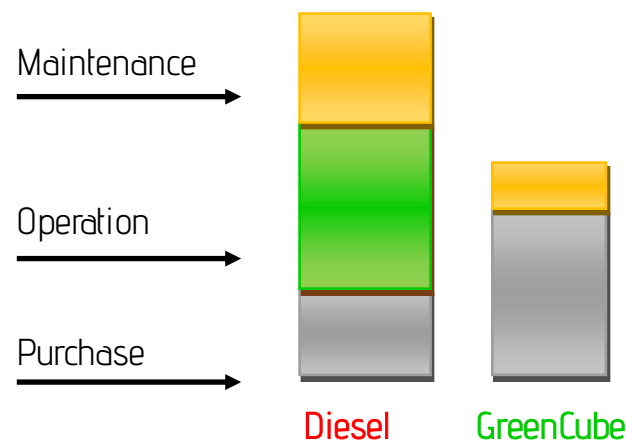
Canadian Patent: CA 2887923



: A great alternative to diesel generators

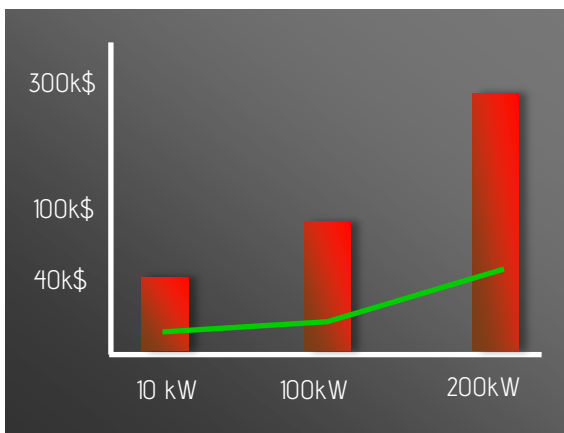
Most of remote sites and off-grid activities are powered by diesel generators. These generators cause health and environmental problems including fuel leaking, air pollution and noise, not to mention the danger associated with their operation.

In addition, diesel generators are expensive to operate. Fuel costs and maintenance costs are high, especially in remote locations.



Cost evolution, GreenCube vs. Diesel

Costs associated with a diesel generator



The durability of the GreenCube modules is beyond reproach. Equipped with latest-generation li-ion batteries, they can operate continuously without any major maintenance for up to 12 years. GreenCube modules are designed for a 20-year life span.

The very low maintenance costs ensure a quick return on investment compared to an equivalent diesel generator. Not to mention safety and quiet operation.

Plus, the GreenCube technology can be added to an existing generator, giving you the best of both worlds!

You plan to keep your generators running? Upgrade them with **GreenCube**:

Up-to 75% OPEX economy and a multiplied lifespan

Return on investment as fast as two years!!*

*Case study for a project in northern Canada



GreenCube Our model range



	GC-MAX	GC-6	GC-MOBILE	GC-VOLT
Structure	20-feet marine container	Aluminum-built module	Aluminum-built module on steel trailer	Aluminum-built module
Number of solar panels	12, 72-cell modules	8, 60-cell modules	3, 72-cell modules	Up-to 4 (external)
Total solar power	5 kWp	24 kWp	12 kWp	Up-to 12 kWp
Number of wind turbines	Up-to 3	2	1	N.A
Total wind power	9 kWp	2 or 6 kWp	1 kWp	N.A
Mast height	22 feet	Up-to 18 feet	12 or 20 feet	N.A
Battery pack	Up-to 300 kWh, Li-ion	Up-to 100 kWh, Li-ion	12 kWh, Li-ion ou AGM	5 kWh LiFePo4
Max annual produced energy (Up-to)	38000 kWh	10000 kWh	3100 kWh	2000 kWh
Max output power	12 kW	6 kW	2 kW	2 kW
Types of Output	AC 1ph or 3ph DC 12-48V DC -48V for telecom applications	AC 1ph or 3ph DC 12-48V DC -48V for telecom applications	AC 1ph 110/220V DC 5V (USB) DC 12-48V	AC 1ph 110/220V DC 5V (USB) DC 12-24V
Diesel generator (option)	YES— 7 or 11 kW with 500L tank		YES— 2kW with a 50L tank	NO
Ground surface (m2)	18 m2	7 m2	8 m2	0.25 m2
Control functions	Dynamic load and energy management (Proprietary, patented) Battery current and heat management (-40 à 45 degrees C.) Maintenance planner			Energy and battery management Battery temperature monitoring Visual instrumentation
Connectivity/communication	Local network (MODBUS, SNMP, LAN) and distant (TCP, GSM) Local access to datalogger (USB, datalogging on SD card)			Datalogging on SD card



GreenCube Some achievements



G6-D bimodule system for a wind measure tower, Nunavut, Canada
3 kW solar+ 12 kW (4 x 3kW) wind power, with a 16 kWh Li-ion battery



Permanent power source for a surveillance tower, North-West Territories, Canada
Model: GC-Mobile



Solar energy system for a scientific research station in Quebec, Canada
Two GC6— solar modules, with 3 kW solar power each



Mobile power sources for the Canadian Armed Forces
Models: GC6 and GC6-D



Multiples GC6 units deployed in a mining site in Quebec, Canada



GC-MOBILE
Version of 2017



GC-VOLT modules used to power a music festival in Cap-Chat, QC, Canada



Renewable energy system for a farm in Rimouski, QC, Canada

They trust us



Our partners



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