

# FITTEST Renewable Energy

In unpredictable, remote and hostile environments, going green will help you, help others

Renewable energy is the future of electrical power. The continued use of fossil fuels to power your operations is not only unsustainable, it's increasingly impractical. With years of experience deploying effective technology solutions for the humanitarian community, FITTEST can help you go green.

## Environmental and Practical Advantages

Besides being better for the environment, renewable energy has a number of practical advantages that allow humanitarian organizations to focus on their core activities:

- **Longer lifespans** - increased efficiency and a lack of reliance on fuel means renewable energy systems last much longer than conventional ones
- **Less maintenance** - as opposed to traditional diesel generators, renewable energy systems do not require continuous, labour-intensive maintenance
- **Increased staff security** - lack of reliance on fuel means potentially hazardous supply journeys are avoided
- **Remote management** - systems can be monitored, controlled and programmed over the internet
- **Versatility** - renewable energy systems can work effectively in all environments
- **Financial savings** - no fuel, longer lifespans, less maintenance...less money



## Extensive Practical Experience

FITTEST has successfully designed and installed renewable energy systems in a number of countries around the world. Combining renewable energy expertise with a deep practical knowledge of the humanitarian context, FITTEST tailors solutions to your specific requirements.

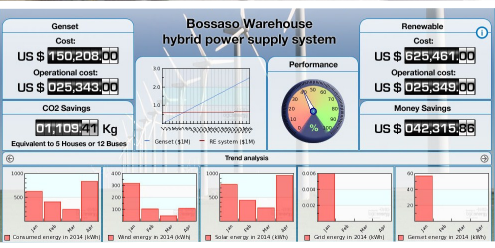


The Fast IT & Telecommunications Emergency & Support Team (FITTEST) is a group of technical specialists from the World Food Programme (WFP) that assist the humanitarian community in establishing and maintaining IT infrastructure systems and services in some of the world's most hostile and challenging environments.



World Food Programme

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## Somalia turns to renewable energy

In January 2014, FITTEST completed the installation of hybrid power supply systems at the new WFP warehouse compound in Bossaso, Somalia. The power grid in Bossaso is limited, but the abundance of sun and wind blowing in from the Arabian Sea makes it a perfect location for renewable energy systems. The hybrid power supply system combines solar panels, wind turbines and a battery bank.

During the day everything is powered by the wind and sun while batteries are charged for use at night. If extra power is needed, it is automatically taken from the grid or, if unstable, a backup generator. An online dashboard allows power supply and usage to be monitored remotely and displays CO2 and financial savings. In addition, FITTEST provided on-the-job technical training to local staff to ensure the continuity of skills and knowledge on the ground.

Energy efficiency training will also be delivered so staff can limit energy wastage. Renewable energy systems can last up to 25 years. They save money, require less maintenance and are better for the environment.

### Comprehensive Services

- Customised design of renewable energy systems
- Pre-configuration of hybrid power supply systems for easy shipment and out-the-box functionality
- Budgeting and calculation of long-term return on investment
- Support and implementation of energy efficiency measures
- Installation of renewable energy equipment
- Development of customised user manuals
- Live, online monitoring of power supply and consumption, and fuel and financial savings
- Virtual simulation of lighting design
- On-the-job technical training and energy efficiency training for local staff
- Support with WFP Energy Efficiency Programme (EEP) applications

Going green: it's more than just common sense, it's a responsibility

### Products

- Solar lights, lamps and phone chargers
- Customised, out-the-box hybrid power supply systems including solar, wind and diesel generators, and batteries
- Hybrid air conditioners
- Energy efficient office and warehouse lighting
- High quality electrical support equipment
- Customised, turnkey power supply solutions
- Online remote monitoring dashboards

*All equipment is industry standard and subject to stringent testing*

### For more information about FITTEST Renewable Energy, contact:

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