



EnviroTech
Energy Management

Energy security delivered by the Envirotech Energy Station and the Crane Cube.



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At Envirotech we identify and implement renewable energy technologies to reduce cost and create long-term change.

Issues like pollution (air and noise) from diesel generators, reducing waste, and cost are difficult to overcome, but technological advances are now making this happen.

Envirotech Energy Management's energy station and crane cube allow sites to run without generators and all the non-eco elements associated with them while significantly reducing energy costs.

Energy security has been defined by the United Nations as “the continuous availability of energy in varied forms, in sufficient quantities and at affordable prices”. In terms of energy security, a key issue is resource availability, which is the actual physical amount of the resource available around the world (i.e., long-term security) Envirotech ensures that you, the client, has this security by providing a sustainable solution which means your power is never interrupted.

System Features and Benefits

Using the Envirotech Management energy station daytime energy costs are reduced significantly by drawing on power which is stored overnight.

- Reduced charging tariffs during non-peak times have the potential to make up to a 75% cost reduction.
- The base-load energy station provides flexibility as you only use what you need month on month throughout a build. When you need more power, it is provided, when you don't, you don't pay for it. Energy stations are progressively connectable to provide more energy, as required.
- 24/7 monitoring system to ensure 100% uptime.
- During recharge (normally off-peak) power consumption will be consistent.



Environmental & CSR

Generators will no longer be required on-site thus reducing emissions, carbon footprint and noise related problems for the neighbourhood.

- Showcase your ongoing commitment to CO2 reduction and the environment to prospective Clients through additional measures such as solar charging and a green supply tariff.
- When unstacked Envirotech energy stations can be supplied with small wind turbines and roof-mounted solar panels to reduce parasitic loads such as lighting, alarms, monitoring systems, and BMS, etc.
- The technology mitigates the requirement for a secondary power source.

Technical Features

The Envirotech energy station has an input power factor correction and the benefits are as follows:

- a) Reduced power demands.
 - b) Reduced power system losses.
 - c) Reduced carbon footprint (Logic: Unity power factor '1' is the goal of utility companies. If the power factor is less than '1', the utility will need to supply more current to the user for a given amount of power use. The process of doing this creates more line losses, therefore the kwh cost increases.)
- The Envirotech energy station provides an emergency back up in N+1 configuration, which reduces emissions considerably.
 - Securing G99 would be straightforward and cost effective which provides an interesting opportunity for construction companies.
 - Utilising the Envirotech energy station unit increases load security and stability.
 - The site load does not impact local supplies or cause frequency or voltage instability.