



**“Engineering Solutions for Good Life”**

**POWER SOLUTIONS**



**TBS INDUSTRIAL SERVICES INC.**

## **Better Power Generation for the Earth's Future**

Power is a symbol of progress. Progressive countries usually have enough source of power. But producing such power is not easy job to do. There are advantages and disadvantages when producing power. Having power makes our life easier but sometimes in producing power, our nature suffers. Mining of Fossil Fuels such as oil and coal destructed the natural habitat of the animals. Power plants emit harmful and toxic gases in the air that causes air pollution.

Better technologies gave us better way of producing power as well as not harming our environment.

Products and Services:

1. Engineering and Design
2. Project Implementation
3. Preventive Maintenance
4. 24/7 Services to the Following:
  - Generators
  - Solar Power System
  - Wind Power System
  - Fuel Cell System
  - Power Storage System
  - E-Vehicles

## The New Generator

Not a conventional generator that operates only when there is fuel and emits harmful gases in the air when producing power, the **Fuel Cell** produces power by converting the chemical energy from a fuel is usually hydrogen into electricity through a chemical reaction with oxygen or another oxidizing agent.



## The New Battery

Batteries have lot of applications so it comes from variety of type and sizes. We offer vanadium redox battery that can offer almost unlimited capacity simply by using larger and larger storage tanks, it can be left completely discharged for long periods with no ill effects, it can be recharged simply by replacing the electrolyte if no power source is available to charge it, and if the electrolytes are accidentally mixed the battery suffers no permanent damage.



## The New UPS (Uninterruptible Power Supply)

UPS operates as reliable back up power supply. It has battery or set of batteries that handle the loads whenever there is power interruption. The **Renewable Energy Products such as Solar and Wind Power** can be use as Alternative Power Source.

It gets power from sun and wind without harming the environment. Having this Renewable as your Alternative Power Supply, you are no longer worried whenever there is power interruption from your local utility power provider.



## Automatic Transfer Switch (ATS)

Automatic Transfer Switch (ATS) is often installed where a backup generator is located , so that the generator may provide temporary electrical power if the utility source fails.

## The Solar Power System

Solar energy is a renewable free source of energy which is sustainable and totally inexhaustible, unlike fossil fuels which are finite. It is also a non-polluting source of energy and it does not emit any greenhouse gases when producing electricity.



## The Wind Power System

It is an energy conversion in which turbines convert the kinetic energy of wind into mechanical or electrical energy that can be used for power. Wind power is considered a renewable energy source. Modern commercial wind turbines produce electricity by using rotational energy to drive a generator.



## The Fuel Cell System

A fuel cell is a device that converts the chemical energy from a fuel into electricity through a chemical reaction with oxygen or another oxidizing agent.



## E-Vehicles

Electric vehicle generally cost less in total to own, operate and maintain than combustion-powered vehicles, even in cases where the initial purchase price is somewhat higher. They do not emit any carbon emissions than their conventional counterparts. Compared with any other vehicles, electric vehicles have low maintenance cost.



# CLIENTS





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