



**3E ENERTECH
ENERGY
EQUATIONS**

is a company within the
SAIT GROUP
who are experts in electrochemistry
for over two decades.



MISSION :

Strive to grow and create a place in the Sustainable Energy Solutions industry by bringing together the best of technologies in battery manufacturing, battery charging etc.

VISION :

To be a pioneer in the Sustainable Energy Solutions, Battery manufacturing, battery charging etc., in the next 5 years.

3E is a company which believes in SUSTAINABILITY.

We always strive to solve your energy equations, with Sustainable solutions, be it in solar power installations, Power back-up systems, Electric Vehicles, you can count on 3E.

3E'S PRODUCTS AND SERVICES INCLUDE :

BATTERIES

- Highly reliable, industrial grade, deep cycle, maintenance free OPzV batteries.
These batteries are the most environment friendly, made from about 80% recycled components, including nearly 100% recycled Lead. OPzV batteries find application in Solar Power Systems, Telecom Towers etc.
- Apart from OPzVs, we deal with batteries of other chemistries such as Nickel-Cadmium, Lithium-Ion etc. and also, Sodium-Ion batteries in future.
- Associated activities like, Battery rejuvenating and Battery recycling will also be on our focus in due course of time.

BATTERY CHARGERS

- Fast DC chargers and AC chargers with multiple types of connectors to suit any Electric Vehicle (EV) on road.

ENERTECH ENERGY EQUATIONS FZ-LLC

A S A I T GROUP COMPANY

OPzV Batteries

3E believe that lead-acid batteries are vital to a sustainable future for our planet. Lead-acid batteries are the only 100% recyclable energy storage solution that meets the sustainability challenge.

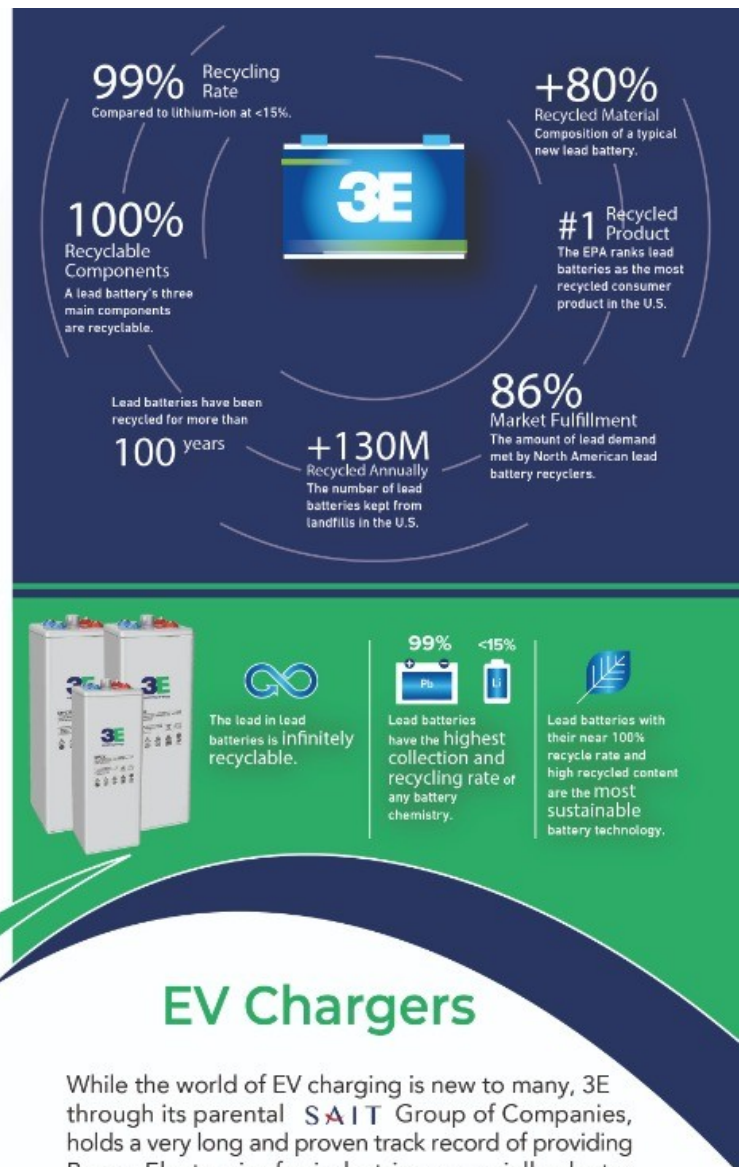
Lead-acid OPzV batteries, are high-end products, specially developed for applications that require frequent deep cycling.

They generally have a cell voltage of 2 volts and are connected in series to produce higher voltages. These types of batteries have valve regulated vents and are used in stationary applications like; solar, wind and backup energy storage. They contain a Gel electrolyte which is generally composed of diluted sulfuric acid, gellified with fumed silica dust.

OPzV batteries also feature High Capacity, Long lifetime, Low Self-Discharging, Maintenance free, Appropriate dimensions and weight etc.

3E designs **GreenStack** series OPzVs with an optimized tubular plate, which by far exceeds the DIN standards in vogue.

The advantages of the optimized plate are, they offer excellent cycling capabilities and long service life under float conditions. This is an energy-saving solution for energy storage. Even in remote installations that require long-term discharge and excellent charging performance, it can provide significant advantages in terms of single-cycle cost, the highest level of reliability and performance.



EV Chargers

While the world of EV charging is new to many, 3E through its parental **SAIT** Group of Companies, holds a very long and proven track record of providing Power Electronics for industries, especially electro-chemical industry.

Batteries, are basically electrochemical devices. They can only be charged with direct current (DC) electric power. However, electricity is mostly delivered from the power grid as alternating current (AC). For this reason, most EVs are equipped with an onboard charger which has a compact sized AC-to-DC converter (a rectifier).

There are two main types of EV chargers : AC chargers and DC fast chargers.

In an AC charger, power is supplied to the onboard charger.

DC fast chargers facilitate higher power charging, which requires much larger AC-to-DC rectifiers, so the converter is built as part of the charging station and DC power is supplied directly to the vehicle, bypassing the onboard converter. Most of the EVs can accept AC and DC power.

Both AC & DC Chargers of 3E, comes with connectors that conform to a variety of international standards and can charge any popular EV on road.



ENERTECH ENERGY EQUATIONS FZ-LLC

A SAIT GROUP COMPANY