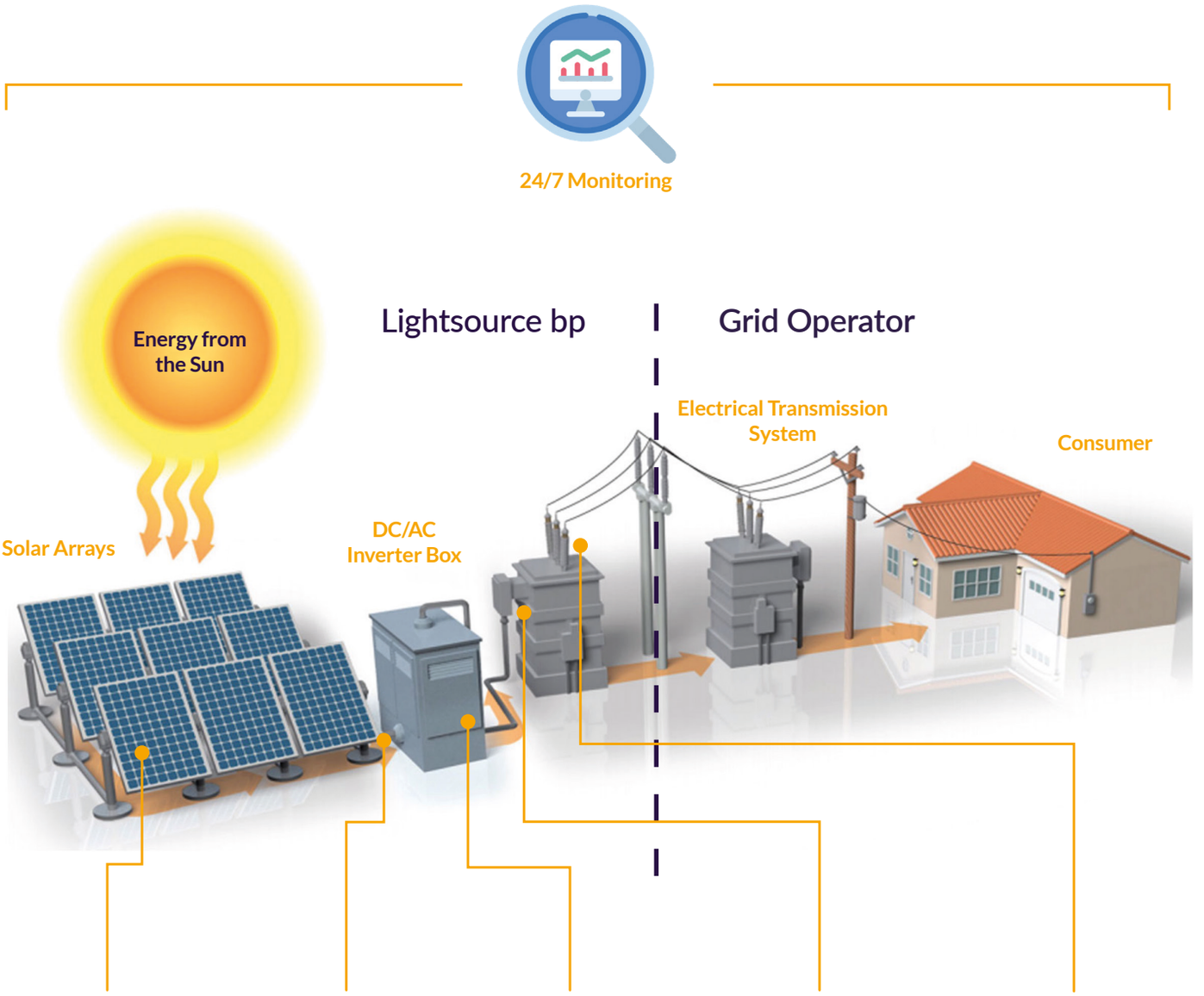
Components of a solar farm

A simple “how it works” overview



Solar panels generate **DC power** by converting photons from sunlight to electrons flowing through semiconductor material, creating an electrical current.

The solar panels are put in series in the form of **strings** for efficient electrical flow – and then combined into **DC feeders** through a wire harness or combiner box.

The DC feeders are connected to **inverters** that take the DC power and convert it to **AC power**.

In combination with the inverter is a medium-voltage transformer which allows for the AC power output to be combined into **AC medium voltage feeders** going to a substation.

The **substation** is the main point of **connection to the grid**, where power is measured and raised to grid voltage.