Electricity powers our daily essentials such as lights and everyday appliances. As the nation’s Power System Operator, the Energy Market Authority (EMA) works with fuel importers, power generation companies and the grid operator to generate and deliver electricity to you.

1. **Fuel Imports**
   Today, about 95% of Singapore’s electricity is generated using natural gas — the cleanest fossil fuel available. The gas is piped in from Malaysia and Indonesia, and imported from around the world via the Liquefied Natural Gas (LNG) terminal at Jurong island.

2. **Electricity Generation**
   Electricity is generated using various sources, such as natural gas, solar, and waste-to-energy. Gas-fired power plants use the Combined Cycle Gas Turbine technology. Fuel and air combust in a gas turbine, causing its blades to rotate and generate electricity. Steam created as a by-product turns a second turbine to generate more electricity.

3. **Electricity Transmission & Distribution**
   Electricity from power plants and solar installations is transmitted through the national power grid for distribution to homes, buildings and industrial facilities island-wide.

4. **Power System Control Centre (PSCC)**
   This is the nerve centre where EMA oversees the overall power system. From gas supply to power generation and transmission, our engineers work round-the-clock to ensure that a reliable supply of electricity is delivered to all consumers.

**DID YOU KNOW?**
- The LNG terminal can be operated by just six persons at any given time.
- Solar is our most viable renewable energy option. We are aiming for at least 2 gigawatt-peak of solar by 2030. This can power about 352,000 households a year.
- We have over 27,000 km of electricity cables underground. This is more than the distance from Singapore to San Francisco and back.

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