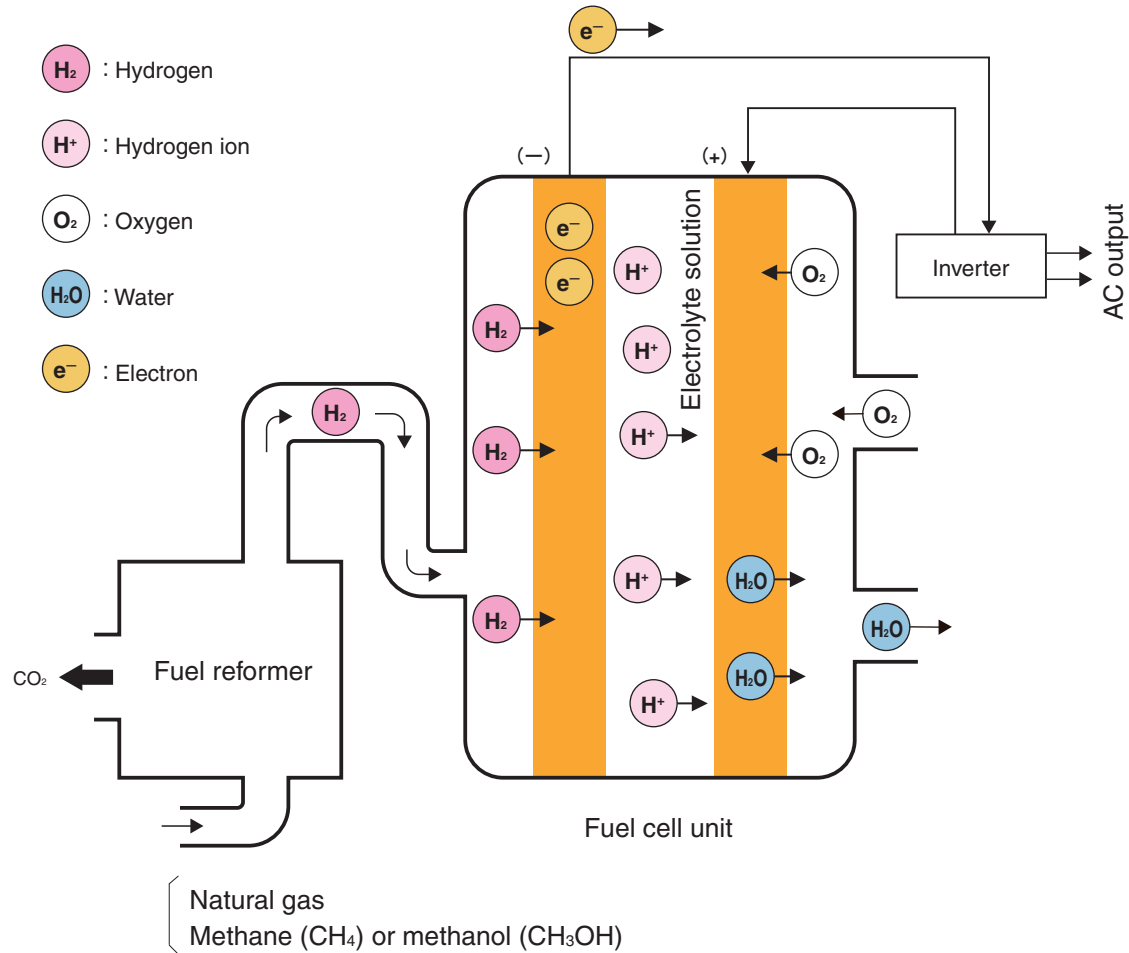


How Fuel Cells Work

Mechanism: Electricity produced by a chemical reaction between hydrogen and oxygen

Conceptual diagram of phosphoric acid fuel cell power generation



<Merits>

- Total thermal efficiency is higher when combined with utilization of waste heat
- Absolutely no sulfur oxides (SO_x) and almost no nitrogen oxides (NO_x) generated
- Little noise
- Can readily be installed where demand exists

<Demerits>

- Hydrogen supply system is not yet properly established
- CO₂ generated when hydrogen produced using fossil fuels
- Low battery durability and low reliability as a system
- High equipment costs