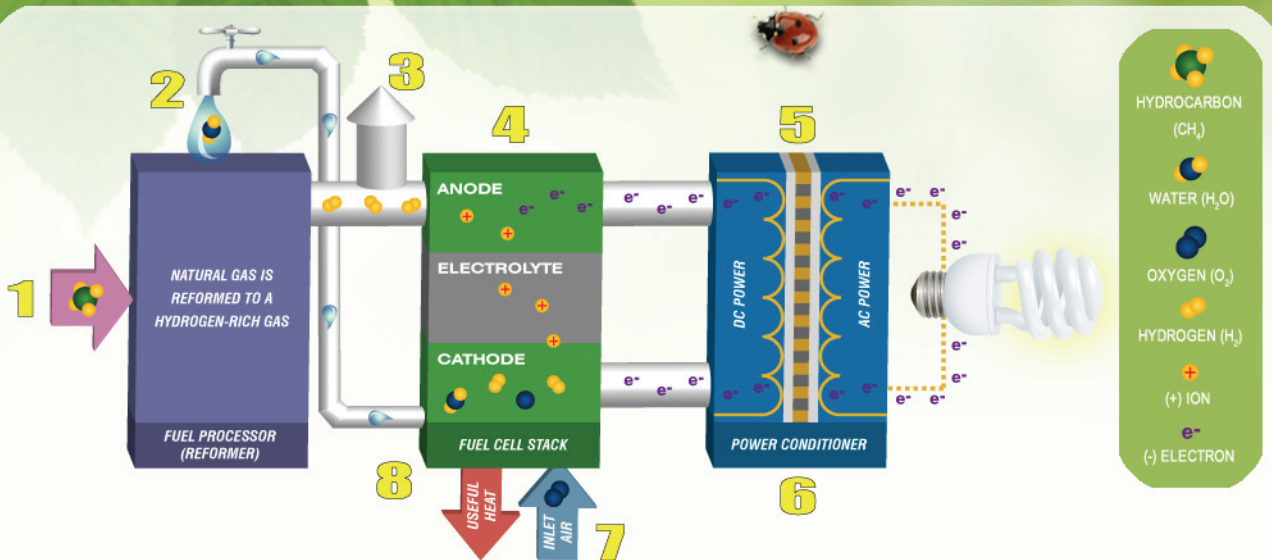


# How a fuel cell works.



- HYDROCARBON (CH<sub>4</sub>)
- WATER (H<sub>2</sub>O)
- OXYGEN (O<sub>2</sub>)
- HYDROGEN (H<sub>2</sub>)
- (+) ION
- (-) ELECTRON

- 1** Natural Gas (largely CH<sub>4</sub>) is supplied to the Fuel Cell.
- 2** Steam (H<sub>2</sub>O), as a by-product of the system, is used to reform the Natural Gas into Hydrogen-rich Gas (H<sub>2</sub> Reformate).
- 3** Clean exhaust is vented. The PureCell® system avoids 273 metric tons of CO<sub>2</sub> emissions each year as compared to conventional power generation.
- 4** A catalytic reaction converts the Hydrogen (H<sub>2</sub>) into Protons and Electrons. The Protons pass through the Fuel Cell Electrolyte.
- 5** The negatively charged Electrons flow through an external circuit to produce Electricity.
- 6** DC Power is conditioned to provide high-quality Alternating Current (AC) output power.
- 7** The Electrons and Protons recombine with Oxygen (O<sub>2</sub>) from the air.
- 8** The remaining by-product is useful Heat.