

Fuel Cell Power Systems

JHIA commenced certification of polymer electrolyte fuel cell power systems on September 10, 2005.

Feature of the certification enterprise of JHIA

- ① The inspection standards has the Japan industrial standards (JIS) draft and IEC standards draft.
- ② Factory investigation has adopted the European CENELEC system.
- ③ Use our knowledge and experiences about oil burning appliance technology which the past half century .

We sincerely believe that we can offer you the high quality tests and certification by these.

Certification label (JHIA and JET commonness)



Notes 1



Notes 2



Notes 3

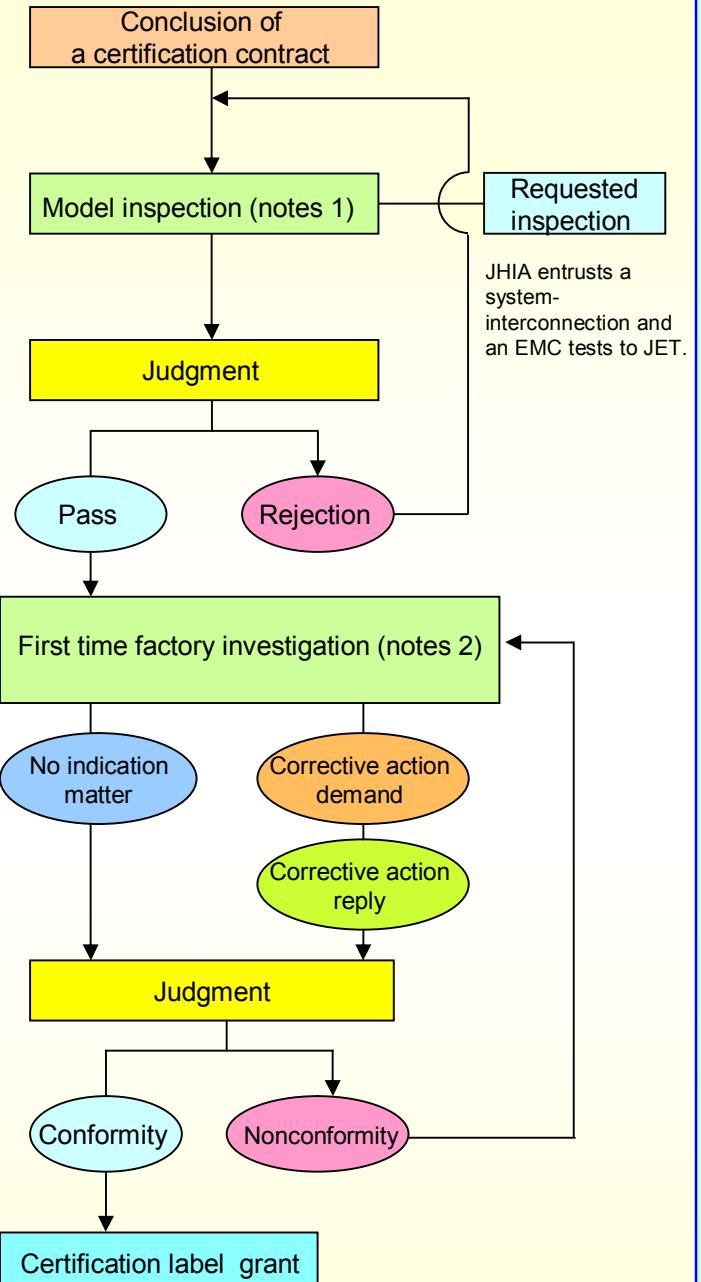
[JHIA] in a figure mean about certification body , and it mean [JET] when JET certificated.
[2005/09] in a figure mean certification years.

Notes 1 : When the power source of warm water tank takes from the distribution board , and the voltage of auxiliary and sensor of warm water tank is less than DC30.

Notes 2 : When the power source of warm water tank takes from the Fuel Cell , and the voltage auxiliary and sensor of warm water tank is less than DC30.

Notes 3 : When the power source of warm water tank takes from the distribution board , and the power source of auxiliary and sensor of warm water tank is less than DC30.

Flow to certification acquisition

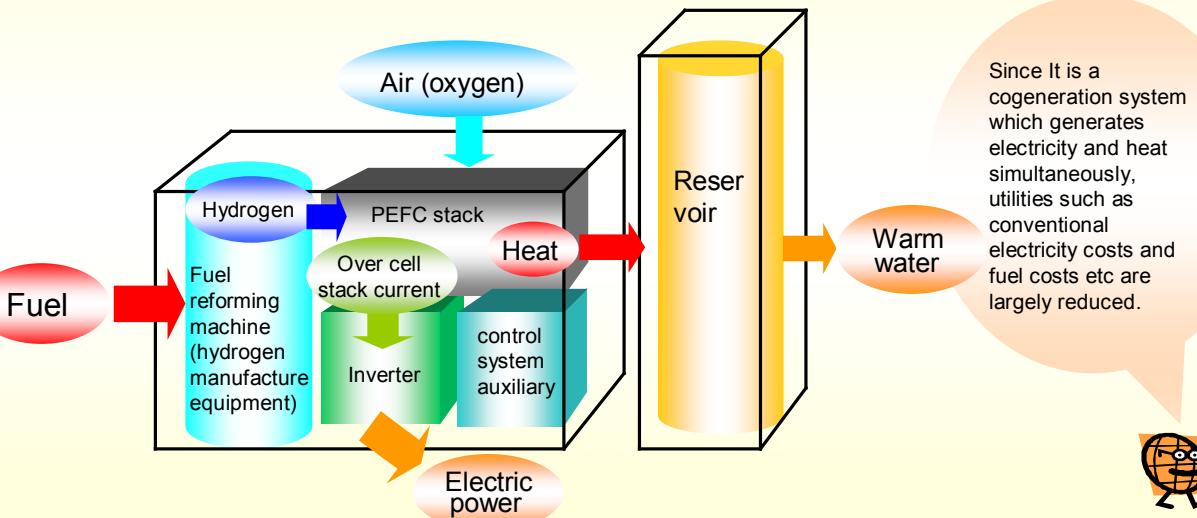


Notes 1 : We check whether the performance of a product is acceptable an inspection standard.

Notes 2: We Investigate the quality management systems of factory and check the stability of quality and inspection system.

Structure of a Fuel Cell

It is a system which makes hydrogen from raw materials such as kerosene, with a "fuel reforming machine", and supplies electricity and heat.



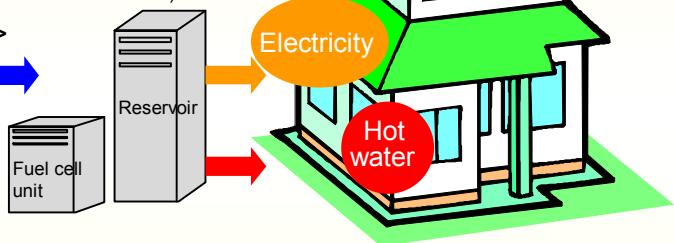
Convenience

A fuel Cell supplies electricity and hot water to a home simultaneously. the generated electric power can use for lighting at a home, or the power source of home electronics, and hot water can use for cooking, hot-water supply, floor heating, etc.

<Comparison of fuel required for one week at a home>

Hydrogen (150 atmospheres): About 10 (70m3) / week
Kerosene (20L can): About 1can (23L) / week
LP gas (50kg type container): about 1/3 (LPG17kg) / week

Fuel Cell System
(the amount of required hydrogen: about 70m3/week)



Trial-calculation conditions:
Consider power generation efficiency of a fuel cell is 35%, and operating hour is 7:00 to 24:00.

