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[\[Energy Conservation\] Bureau of Energy Invents Inverter-controlled Electric Water Heater](#)

[Energy Conservation] Bureau of Energy Invents Inverter-controlled Electric Water Heater ([Chinese Version](#))

Bureau of Energy – News (2011/08/24) Bureau of Energy has finished the development of several models of heat pump water heaters, including a 6kW inverter-controlled pump water heater, whose coefficient of performance (COP) under ideal condition can reach 4.57, higher than many other present similar products in the world, and a 10kW fixed frequency circulative heat pump water heater, whose ideal COP can reach 3.8, competing with the other present products in the world. The bureau believes the newly developed technology can product with the local industries strong competitiveness.

High-COP heat pump water heating systems have been widely used in hospitals, hotels, school dorms, swimming pools, spas or even households, because of energy concerns – heat pump heaters can not only reduce the electricity or gas expenses but also help with carbon reduction. Similar as the air conditioning systems, heat pump water heater uses electricity to move heat from one place to another. It usually uses coolant to absorb the heat from the air or the controlled environment and passes it over to another place, such as heat insulation water container, via heat exchanger.

In order to elevate the local heat pump water heater industry, the Bureau of Energy spent efforts on the relevant sci-tech research and set up relevant efficiency standards and examination standards. Besides, the relative law system has been established as well and announced on May4, 2011. On the other side, ITRI also sets up the first TAF heat pump heater laboratory, which can provide the industry with research and examination supports. It is expected that with these measures Taiwan's industry and market of heat pump hot water heater can be upgraded.

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Reference:

[Bureau of Energy - News 2011/08/24](#) (Chinese)

[National Science Council International Cooperation Sci-Tech Newsbrief](#)

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