

# HOT WATER SUPPLY SYSTEM USING PLC

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## ABSTRACT

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Nowadays, systems which can function automatically are more likely to be used by people compare to systems which require manual switch. Not only the convenience they could bring, also they make our life simpler, by combining many complicated tasks into one and time saving.

Automatic systems have a lot of advantages and are now move forward to meet the market's demand, as people are quite reliable with them, especially the industrials. It is very stable as very less errors will happen since the system is going automatically, no careless mistake will be made except the design of the system.

As people are turning on the water heater and radiator system during winter, it would be better if both of them could be combined into one. Hence, I have invested in "Hot Water Supply System" and am now introducing it to the world.

The system will run automatically to keep the water warm (above 27°C) inside hot water tank and radiator system. Yet, it operates once every 7 minutes to keep electricity saved, no extra energy will be wasted by using it. Moreover, it combines all the heaters in a house becoming only one, in the hot water supply tank. It saves a lot of spaces by taking off extra heaters in the house. As the system runs automatically, it could ensure the taps water which flow from the hot water tank will remain warm whenever the system is running.

This system could bring a lot of convenience and keep the users warm at every moment they turned it on.