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Text of the abstract

A retrofit water boiler monitoring and forecast system, method and computer program product, for a water boiler system which includes a water boiler, a cold-water pipe, a hot-water pipe, including: an intake temperature sensor, configured to measure a water temperature in the cold-water intake pipe; a flow meter, configured to measure a flow rate of water running through the water boiler system; an outlet temperature sensor, configured to measure a water temperature in the hot-water outlet pipe; a processing unit, adapted to receive sensor data from the intake temperature sensor, flow meter, and outlet temperature sensor, and configured to calculate an amount of available hot water in the water boiler based on the sensor data; and a display panel coupled to the processing unit configured to display at least one estimated Real-Time Usage Value, calculated by the processing unit based on the amount of available hot water.