smartUSR

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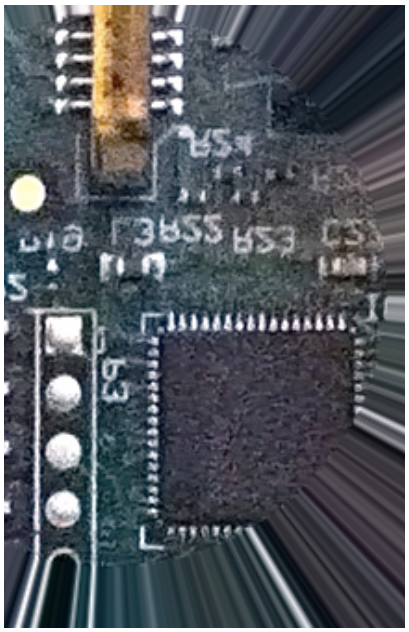
Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit
aufgrund eines Beschlusses des Deutschen Bundestages

smartUSR is a control module to manage decentral power consumption as well as decentral power production.

The software on each local control module is based on open loop controls. It considers external parameters like the prediction of consumption, power load, power exchange prices and many more as well as local conditions like the demand of eletrcial power or heat.



The system of the module works as a kind of meta regulation to the managed power consumption or production unit while the origin circuits and operation systems of the managed unit remain untouched.

The modules could operate stand-alone for individual optimisation purposes. But the big answer to intelligent loadbalancing is to cluster a great many of them into a large virtual smart grid.

On the other hand a centralized server application is controlling the cluster of **smartUSR** modules. The server application is clustered itself and using big data techniques.

The r&d project is co-financed by the German Federal Ministry of the Environment. The team is scientifically supported by Prof. Engel of the Technical University of Braunschweig.

At present several utility companies have prototypes in use to control heatpumps and CHPs. The feed back is positive without exceptions.

The potential of **smartUSR** is to reduce grid investments globally by the optimisation of load balancing.

Now we are looking for international partners and investors.

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