

POC Direct load control by DSO

The [USEF](#) flexible energy framework describes an integrated market model for trading and commoditisation of energy flexibility. In the normal (“green”) operating mode, energy flexibility is traded using market mechanisms and should help DSO’s to maintain balance between demand and supply and to avoid grid congestion.

In this operating mode, distributed generation and energy consumption will be switched by aggregators based on incentives of the flexibility market. In case market mechanisms fail, DSO’s would like to be able to directly control load as part of the “orange” regime. In this case, third party assets will be controlled from the DSO’s “OT (operational technology) zone”. OSGP was used to develop a proof of concept which meets the high standards of an OT-zone based application, while enabling the solution to scale up to large numbers when required.