

CIM based integration for demand response pilot project

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In the scope of the Nedo project Solvera Lynx has developed an information system for on-demand control of electrical consumption in households. The Demand Response Control System (DRCS) provides the Distribution System Operator (DSO) or Transmission System Operator (TSO) a tool for decreasing the demand for electricity in the times of high network loads or low supply of electrical energy. DRCS provides metering data aggregation, load forecasts and Demand Response (DR) potential forecasts. It also provides the execution of DR actions (shutting of certain electrical loads) by notifying customers and utilizing load control devices installed at households.

The presentation will provide how the DRCS system has been integrated with the Advanced Distribution Management System (DMS) and Metering Data Management System (MDMS) using CIM ESB as an integration platform. DMS receives periodical load and DR potential forecast and executes DR actions. DRCS periodically retrieves metering data from DMS to allow for analysis and forecasts of household loads and. DRCS also uses the CIM network model from CIM repository.