|  |
| --- |
| **Name of project** |
| Active Demand (ERDF experiments) |
| **Location** |
| Brittany, France |
| **Time frame** |
| November 2012 / March 2013 |
| **Lead organisation** |
| RTE (French TSO) |
| **Sponsor/source of funding** |
| RTE |
| **Distribution, retail or both** |
| Distribution and retail |
| **Mandatory or opt-in** |
| Opt-in |
| **Trial or roll-out** |
| Trial |
| **Brief overview of project** |
| The trial aims to experiment of a first local capacity market in Brittany to alleviate network congestions in the electric peninsula during the winter (100 MW capacity reserved).  Challenge for the DSO: Legitimize the role of DSO as a player in the interaction with other market stakeholders (TSO, generators, aggregators…):   * Certification: analysis of the Active Demand (AD) potential, management of grid constraints, technical prescription to aggregators and suppliers. * Call of Active Demand: adaptation of Active Demand and generation curtailment depending on the grid capacity. * Control: aggregation of distributed energy resources, measurement and evaluation, coherency control. |
| **Customer type** |
| Industrial and Commercial, partly with generation devices. |
| **Technology used (high-level functionality)** |
| Main functions to develop and experiment (from DSO perspective):  Interface with third parties : to exchange data and transmit orders (call) at different timeframes (middle term / short term) :   * Identification and certification of flexibilities. * Evaluation of curtailments after the event. * Management of contractual data.   Validation of the curtailments proposed by the suppliers and the aggregators (operational planning tools).  Technical comparison of the different available solutions (including call of active demand) to solve a DSO grid constraint. |
| **Means of interaction with customer** |
| Developed by commercial aggregators. |
| **Appliances targeted** |
| Impact on industrial processes (e.g. water plant) and power generators. |
| **Period and duration of interruptions (for direct load control)** |
| Total capacity :100 MW (demand curtailment or local production)  Availability: November 2012 / march 2013  Two time slots: morning (4h) and evening (2h)  Use: 20 days maximum  Follow a set of rules defined by RTE + ERDF, validated by CRE (French regulator) |
| **Level of load reduction (overall and peak)** |
| First elements of Brittany experiment:  Five contractors : suppliers / aggregators  70 MW  Only one call during the winter. ERDF provides weekly consumption data and installs monitoring devices at customer sites and the network to prepare the experience feedback (control of the real contributions).  It won’t be as good as expected due to the low number of calls.  The experimentation is expected to be renewed next winter. |
| **Consumer Experience** |
| To be developed. |