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| **Name of project** |
| Smart Lyon |
| **Location** |
| Lyon, France |
| **Time frame** |
| 5 year programme.  Commenced 2011; trial starting mid / late 2012; evaluation & closure 2015 |
| **Lead organisation** |
| EDF and Grand Lyon |
| **Sponsor/source of funding** |
| Total Budget: €70 million. Funding - EDF & ERDF ~€40 million, Partners ~€20 million.  Expecting €10 million from ADEME (Government) |
| **Distribution, retail or both** |
| Distribution and retail |
| **Mandatory or opt-in** |
| Opt-in |
| **Trial or roll-out** |
| Trial |
| **Brief overview of project** |
| The project aims to:   * Understand the changes in patterns of consumption. * Understand the appetite of the general public about the prospects (EV, storage, high energy prices) remains highly uncertain. * Experiment with solutions that enable customers to be better informed about their energy consumption, to understand the reasons and act on their consumption profile. |
| **Customer type** |
| * 3,000 Residential customers with tariff control. * 10,000 Residential customers with relationship program. * 100/200 Commercial customers / sites. |
| **Technology used (high-level functionality)** |
| The technology issues to be addressed are  What communication standard equipment with the meter and the house   * Smart meter equipment ready. * Electric heating – heat pumps, ECS. * Energy Manager, Box. * Internet of Things: white goods, heating equipment. * Standard / exchange standards inside the house.   What IT and communications are required inside the house / system / web?   * Features for changing IT? Suppliers / customers (portal, etc). * Interaction between media and internet: Linky (smart meter) / electrical system. * Internet of Things: white goods, heating equipment. |
| **Means of interaction with customer** |
| Analyze the ergonomics of devices at the customer level (ecosystem)   * Understand the usefulness and usability of the customer ecosystem. * Understand the changing practices of use of the ecosystem either at individual or collective commercial level. * Understand the changes in practices influenced by the characteristics of the ecosystem.   Analyze services to downstream:   * Customer Services: invoice control and monitoring consumption. * Analysis of economic behaviour in relation to technology, prices and information. |
| **Appliances targeted** |
| Heat Pump, Hot water generation and customer appliances connected on the HAN |
| **Period and duration of interruptions (for direct load control)** |
| Not yet available |
| **Level of load reduction (overall and peak)** |
| Not yet available but the project aims to:   * Evaluate the potential of load control devices and tariffs on a building stock that exceeds the one of the trial area. * Analyse the impact on local demand (network issues). * Analyse the impact on global demand. * Measure the impact of load control devices and prices on electricity demand. * Measure the average duration peak shaving periods obtained through controlling tariffs and displays. * Measure the reduction in consumption (kWh) throughout the year, overall or for use as experimental. * Calculate the financial impact (electricity bill) of peak shaving and consumption reduction amongst customers. |
| **Consumer Experience** |
| * Develop a range of "smart grid compatible" products and services integrating information services and tariffs, using the metering infrastructure, making them interoperable and validate their operation. * Educate consumers and stakeholders within Greater Lyon to the challenges of controlling consumption and relevant lessons with a broad consumer participation in experiment. |