

Smart Metering Project for Luxembourg, Luxembourg



Description of the programme/measure

- Project Scope: introduce gas & electricity smart metering for all citizens of the country of Luxembourg
- Mass rollout and meter replacement will start on July 1st 2016 and will end December 2019 for electricity and end of 2020 for gas. 95% of all e-meters will be replaced and 90% of all g-meters.
- The project is lead by Luxmetering G.I.E and involves all luxemburgish DSO's: Towns of Ettelbruck, Diekirch & Dudelange, and DSO's Electris, Creos Luxembourg, Sudgaz and Sudstrom.
- The project is financed by all electricity & gas DSO's
- The implementation project has started on 1st January 2015 and will end in December 2016
- Long term benefits will be customer awareness regarding energy consumption, sensor network for smart grid, better investment planning for DSO's, new competitive tariffs and better forecasting for suppliers

Critical success factors

- Main program risks are a lack of technical standardization, financial impacts due to technical problems & customer rejection of new technology
- The risks are mitigated by close cooperation with standardization bodies, use of available standards, cooperation with partners who master the technology, and public authorities, and a transparent communication plan for the public

Innovation

- Luxmetering project will use 4 fluids (electricity, gas, water & district heat) which is a new integrated approach. We will start operations with the highest available DLMS-COSEM security suite 1
- All Luxemburgish DSO's will have one e-meter and 2 g-meter types
- E-meter will be used as home gateway to collect data

Key achievements

- All Luxemburgish DSO's cooperate and contribute positively to the project
- All governing laws have been voted and allow for a positive business plan for smart metering in Luxembourg
- Design phase has been accomplished and uses all available standards in communications and security
- E-meters, DC's and g-meters are in development

Lesson learned

- Availability of clear governing laws and a positive regulator involvement is a key element for a successful introduction of smart metering
- Positive contribution of all involved DSO's is important in order to drive the project
- Use of European standards is a must in order to allow for broader choice of suppliers in a second step
- Simplify the project configuration and devices functions: replace hardware functions by software wherever possible in order to be able to modify functionality and security in the future
- Collaborate with all institutions: ministry, regulator, data protection authority,..
- Communicate transparently to the customer in order to avoid rejection of new technology
- Leave room for future market developments e.g. HAN integration

Further information



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Final comments

Our project shows that collaboration of all involved authorities and stake holders is a key element to a successful introduction of new technology at a country level.

Our approach to use available standards and contribute to enhance these standards via our project work together with competent partners allows to protect our investments in this new technology

Further information

- www.Luxmetering.lu
- <http://www.prnewswire.com/news-releases/sagemcom-delivers-1st-multi-energy-solution-for-luxembourgs-smart-metering-roll-out-518178871.html>

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