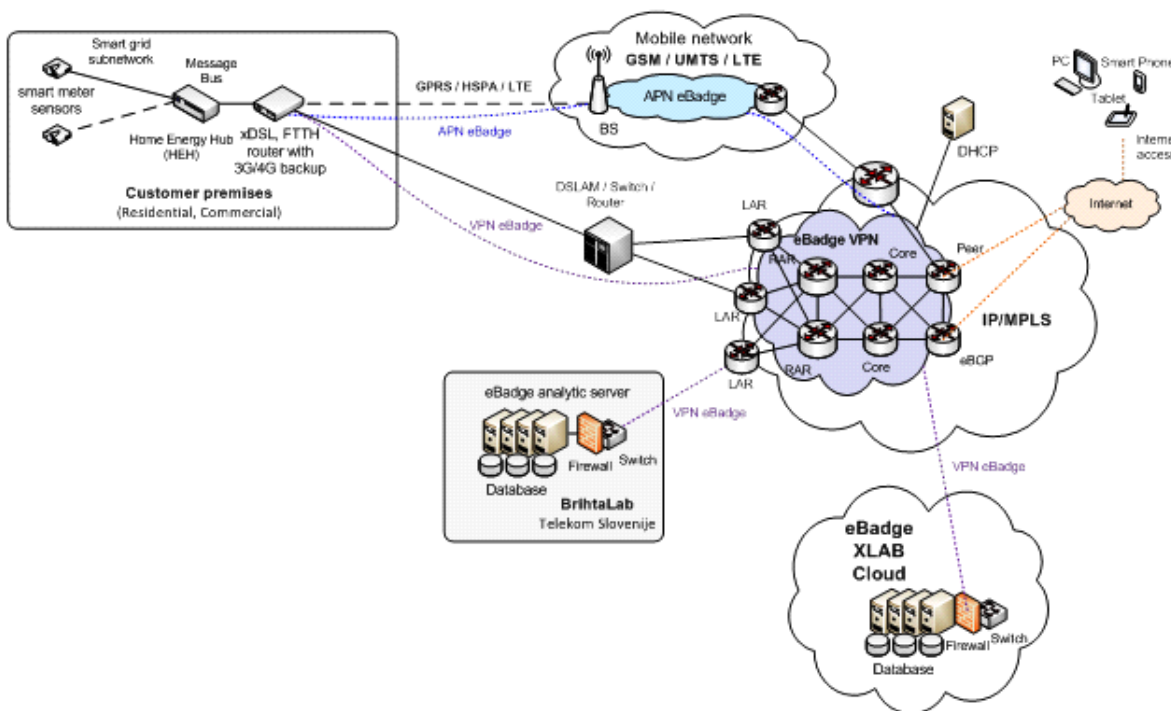


Telecom:

eBADGE is the first major smart grid EU research project that we, Telecom of Slovenia, have undertaken as a lead partner, not only as a coordinator, but also as technology solutions provider to other sectors, i.e. utilities. Communications, exchange of information play a major role in smart grids. In a changing environment we should see many new stakeholders and prosumers being active participants in smart grids, with seamless information exchange. We are providing secure communication paths between those in eBADGE. In the mobile domain this is accomplished with secure APN dedicated to smart grid and all stakeholders that participate in the VPP. In collaboration with other partners on the project, we were able to design and implement a pilot, also a home energy hub concept that can be seen as a communication device for power load management in prosumer premises. With suitable user application, it enables real time user engagement and behaviour change in order to achieve certain goals (e.g. peak power load time shift, or willingness to participate in VPP). For information oriented smart grids to succeed, massively, it is necessary to democratize data gathering, secure storage and selective delivery to selected stakeholders, particularly those within the VPP domain. A telecom operator in general can be seen as a viable player, due to its known handling of secure data, authentication procedures. Telecom operators should embrace smart grids that opens new major business vertical that enables application of existing knowledge and experiences that telecom operators already have: Secure communication networks, data storage, authentication credentials handling, IoT operator and management of end devices.

The figure shows communication infrastructure for Smart grid purposes in eBADGE project.



The figure below shows general structure of the electric energy market as result of eBADGE project.

