

Luxembourg city energy storage research and development

The Active Power Grid research group is based on an evolutionary conception of power infrastructures enabling it to create efficient and reliable automatized energy systems. These involve communications, control, power conversion and automation capabilities in energy grids, heterogeneous energy sources, decentralized generation based on power electronics, active consumers, energy storage capabilities, large-scale energy interconnections, flexibility and services markets, and cross-jurisdictional energy regulation structures.

The research of the group requires collaboration and integration between a wide array of specializations, including power system planning and analysis, the operation of transmission and distribution networks, communications technology, networked control systems, computer science, power processing, digital markets and regulation services. The research and development activities of the APG group address not only technical challenges but also new business models, policies and societal benefits

European Union (EU) directives are a key driver of Luxembourg's energy sector targets and policy. The government is also committed to international climate targets of the Kyoto Protocol and the Paris Climate Agreement. Luxembourg is pushing for a more aggressive approach on energy transition at the EU level and in some cases has adopted national targets that exceed the requirements of EU directives.

Prime House is Luxembourg's main scheme to support energy efficiency renovations and building integrated renewable energy. In January 2017, the government reformed the scheme to provide more generous investment subsidies and also established the Climate Bank programme, which provides low-rate climate loans to encourage residents and companies to undertake energy efficiency renovations.

The government should examine relevant planning processes and regulations to synchronise grid infrastructure construction with renewables deployment and electricity demand growth. Building early-stage consensus between the different ministries, involved parties, local authorities and the public would enable fast and co-ordinated deployment of renewables and supporting infrastructure. Infrastructure plans and processes should also facilitate the deployment of smart grid technologies such as demand-side response, batteries and other energy storage options.



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