



+CITYXCHANGE

"Co-creating Positive Energy Districts, with Integrated Planning and Design, a Common Energy Market & CommunityxChange"

Press release
For immediate release

+CityxChange is a smart city project granted funding by the European Union's Horizon 2020 research and innovation programme. Norwegian University of Science and Technology (NTNU) is the host and leads the consortium together with the Lighthouse Cities Trondheim and Limerick.

It brings the two aspiring Lighthouse Cities Trondheim (NO) and Limerick (IE) together with their distinguished Follower Cities Alba Iulia (RO), Pisek (CZ), Võru (EST), Smolyan (BG) and Sestao (ES), to underline their ambition to achieve sustainable urban ecosystems that have zero emissions and establish a 100% renewable energy city-region by 2050. The +CityxChange vision is to enable the co-creation of the future we want to live in. This includes the development of a framework and supporting tools to enable a common energy market supported by a connected community. This leads to recommendations for new policy intervention, market (de)regulation and business models that deliver positive energy communities integrating e-Mobility as a Service (eMaaS).

This framework will incorporate 11 Demonstration Projects which will be carried out in the Lighthouse Cities and replicated in the Follower Cities. These projects encompass the environmental, spatial, social, technical, economic, regulatory and legal aspects, required to deliver Positive Energy Blocks/Districts **(PEB/D)**. They will lead to recommendations for new policy intervention, community engagements, market regulation and business models that will enable scale-up and replication of PEB/Ds across cities and across the EU.

+CityxChange Solutions:

- Collecting data and providing integrated decision support to the cities (DP01, Model);
- Co-creating a Bold City Vision to plan, implement, replicate and scale-up to positive Energy Districts and Cities (DP02, Vision);
- Co-creating Distributed Positive Energy Blocks through citizen participation (DP03, Engage);
- Enabling innovation through regulation mechanisms (DP04, Regulatory Zone);
- Accelerating change and disruptive solutions through innovation playgrounds (DP05, Playground)
- Creating DPEBs through improved energy performance and integration with the energy system (DP06, DPEB);
- Creating the +CityxChange approach to community grids (DP07, Microgrids);

- Integrating seamless eMobility within the DPEB (DP08, eMaaS);
- Enabling local energy trading within the DPEB (DP09, Local Trading);
- Enabling a fair deal to all consumers through a local flexibility market (DP10, Flexibility Market);
- Enabling public and private stakeholders to invest in their buildings (DP11, Sustainable Investments).

About HORIZON 2020 Program:

'Horizon 2020 is the financial instrument implementing the Innovation Union, a Europe 2020 flagship initiative aimed at securing Europe's global competitiveness.

Seen as a means to drive economic growth and create jobs, Horizon 2020 has the political backing of Europe's leaders and the Members of the European Parliament. They agreed that research is an investment in our future and so put it at the heart of the EU's blueprint for smart, sustainable and inclusive growth and jobs.'

Find more information here:

<https://ec.europa.eu/programmes/horizon2020/en/what-horizon-2020>

About +CityxChange

Grant agreement no.:

824260

Duration:

60 months (November 2018 - December 2023)

Coordinator:

Norwegian University of Science and Technology

Consortium:

32 partners, from 10 countries (Norway, Rep. of Ireland, Estonia, Spain, Czech Republic, Romania, Bulgaria, Netherlands, Italy and Germany)

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