

Press release

New EU project will support the delivery of Energy Efficiency targets

Thursday 10 May 2018: A new three-year project, funded by the European Commission's Horizon 2020 Programme, will seek to build a framework that can better respond to peak load demands for electricity across Europe. The DELTA project was launched in Thessaloniki, Greece, on 7 May 2018. A team of ten partner organisations from across Europe will work together to develop a next generation Demand Response (DR) Framework for every consumer of electricity, regardless of size. DELTA will empower European citizens and small to medium sized businesses to actively engage in everyday energy transactions.

In Europe there is a huge variability in peak load electricity demand, due to changes in weather conditions. This unpredictability of demand is one of the main barriers for accelerating a more sustainable future for Europe. Electricity System Operators are forced to have a capacity much higher than what is actually required so they can respond effectively when peak load spikes occur. The new DELTA Framework will deliver a breakthrough concept in innovative DR solutions that can unleash the demand response potential of small and medium 'prosumers' (professional consumers) of electricity in Europe as well as supporting household consumers. DELTA will address the gaps in current demand-response schemes through several cutting-edge technologies.

Once implemented the DELTA Framework will ensure greater flexibility in response to peak demands for electricity and in addition it will increase the use of renewable power sources. As well as delivering environmental benefits DELTA will ensure that electricity supply is more secure, reliable, competitive and of higher quality.

Speaking at the launch of IN-PREP in DELTA in Thessaloniki Dr. Dimitrios Tzovaras, a Research Director of CERTH, and coordinator of the project said:

“DELTA's vision is to implement next generation Demand Response for every consumer of electricity regardless of size, empowering them to actively engage in everyday energy transactions. DELTA will enable end-users to escape the hassle of responding to complex price or incentive-based signals. It will also facilitate active, aware and engaged prosumers using novel award schemes, a social collaboration platform and personalized user interfaces. Exciting pilots of the new DELTA solution are being planned in locations such as Cyprus and the UK and during the project we will have many activities to engage relevant stakeholders so they can validate our approach. We are warmly inviting you to follow us for the 36-month journey of the project.”

For more information on DELTA, and to follow the progress of the project, please visit www.delta-project.eu (website will launch on June 11th, 2018) and @delta_eu on Twitter.

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Notes to Editors:

About DELTA (Future tamper-proof Demand Response Framework)

DELTA has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 773960. The DELTA consortium is made up of 10 partners from 8 countries in the EU. It is led by CERTH/ITI a leading European Research Organisation who have significant expertise in the ICT and Energy domains. The consortium also includes four dynamic SMEs from across Europe as well as key players in the electricity market and other academic and research partners. Guided by market analysis, the DELTA consortium will introduce an extra layer to the existing energy network structure that will utilise ICT and human ingenuity to bring a rapid revolution in the development and application of intelligent, self-sustainable, bi-directional, stable and secure DR programs in Europe.

It will do so by developing innovative tools for customers engagement and empowerment, advanced forecasting engines for better scheduling and management of available resources, and energy portfolio segmentation. All this will be done to deliver a more DR-enabled energy portfolio that will have full access to available flexibility leading to higher integration capacity of intermittent renewable power and significant progress in the decarbonisation of EU energy markets. Furthermore, the DELTA framework will be open, realistic and interoperable delivering enhanced grid security, reliable power, high quality of supply and automated stability control. The implementation of the DELTA solution will also facilitate the introduction of new market players to highly competitive energy markets.