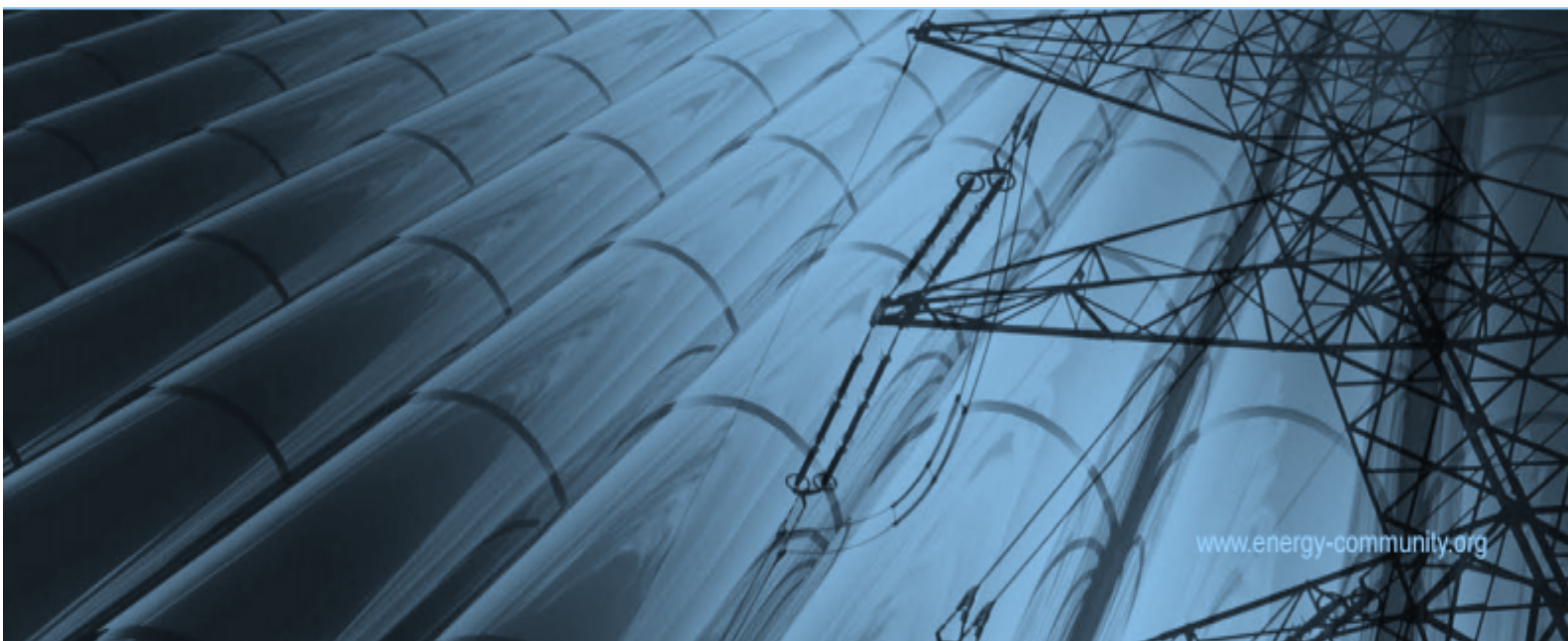


SmartEnC

Smart way forward for the Energy Community

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Energy Community Smart Grid concept (New TF SmartEnC)

Energy Community Secretariat established internal drafting team that is about to launch preparation of the Energy Community Smart Grid concept - SmartEnC, covering:

- Smart grid potentials, measures and applicability in the region,
- Digitalisation as a new paradigm in an energy systems, and
- Cyber security.

Overall concept will be focusing on improved DSO2TSO communication, forecasts, planning and system operations, proposing the measures which will increase efficiency of the overall energy system and bring possibility for small prosumers to take proactive part in the overall market activities in a future. Active involvement of the regional TSOs and DSOs is crucial, because of which ECS proposal is as follows:

- to establish the Task Force, consisting of TSO and DSO experts from the Energy Community Region, TF „SmartEnC“.
- ECS to draft the ToR for the above mentioned Task Force till March 2018.
- Kick off meeting of the „SmartEnC“ TF would be organised during the Athens forum.
- Potential consultancy could be contracted, TBD

Background

As defined by the International Energy Agency, “a Smart Grid is an energy network that uses digital and other advanced technologies to monitor and manage the transport of electricity from all generation sources to meet the varying electricity demands of end-users”. The aim of Smart Grids is to maximise system reliability, resilience and stability and minimise costs and environmental impacts by coordinating the needs and resources of end-users and generation, grid and market operators. Since smart grids are mainly based on information sharing, the new information and communication technologies are their vital enabler. The first levels of smartness are ensured by smart meters and standardised communication protocols. This is a well known and already recognised as a number one measure, but also there are other possible „smart“ moves forward which are focused on the combination of the software solutions and new mechanisms to be developed. SmartEnC joins together distributed generation, system flexibility, the use of renewable energy sources, transmission/distribution system optimisation, demand side management and Cyber security into improved TSO/DSO system operation and overall outlook of the future electricity market, putting focus on the Prosumer, DSO, TSO and Market interactions.