

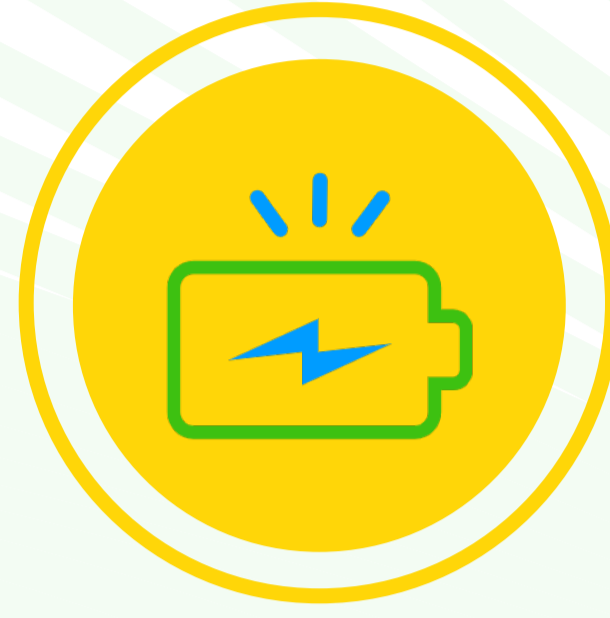


Virtual Power Plant for Interoperable and Smart isLANDS

Novel technologies to ensure the stability of smartgrids and the decarbonisation of islands



Virtual Power Plant (VPP)



Virtual Energy Storage System (VESS)

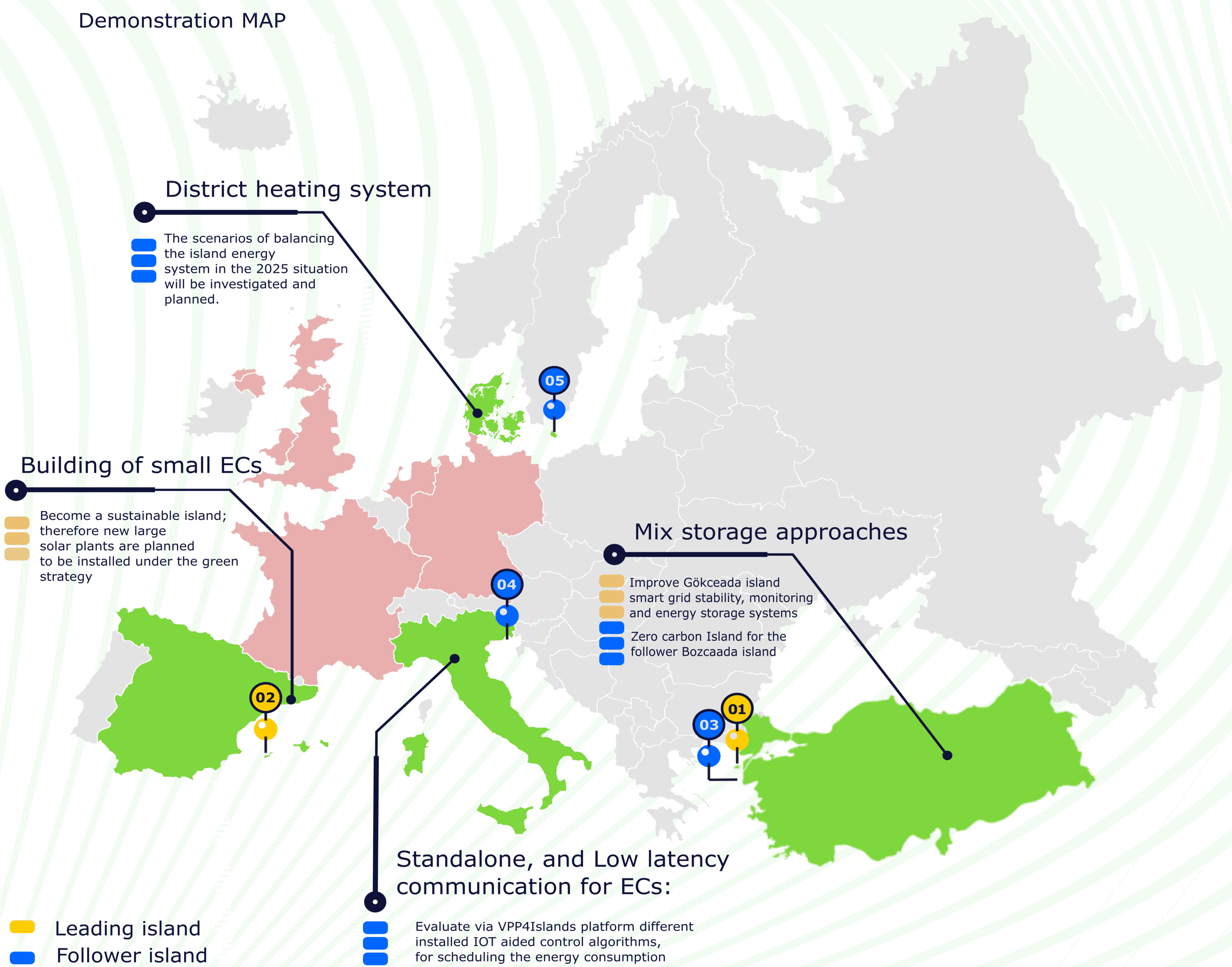


Digital Twin (DT)



Distributed Ledger Technology (DLT)

Demonstration MAP



Exploiting the full potential of intermittent renewable energy sources like the sun and wind has received a helping hand from so-called virtual power plants (VPPs).

VPPs remotely aggregate distributed energy resources from different physical locations into a network that reliably distributes energy around the clock. Islands face many challenges in terms of energy supply, demand side management and energy security.

The EU H2020 funded VPP4ISLANDS project is revolutionising conventional VPP by integrating virtual energy storage technology, digital twin and distributed ledger technology to enable enhanced VPPs and the creation of smart energy communities on islands.

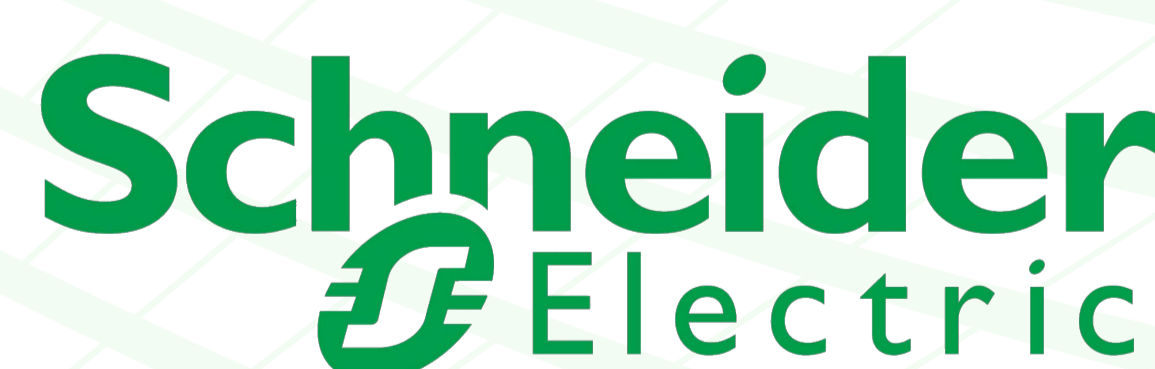
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