



Sustainable energy system for achieving novel carbon neutral energy communities

21 Partners from 3 EU countries and India, led by Aalborg University in Denmark cooperate jointly under SUSTENANCE to develop concepts enabling a green transition of local energy communities to sustainable “energy islands”.



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PROJECT GOALS:

The decarbonisation of local energy systems via optimal integration of locally available renewables (via smart control, energy balancing, storage solutions & application of active load control),

Integration of energy systems for local communities (considering electricity, heat, water, waste & transport infrastructure),

Technical benchmarking & solutions matched with **business models** tailored to the different challenges & actors identified in each country,

Evaluation of solutions from the demonstration sites for **replicability across Europe, India & worldwide**,

Emphasis on user involvement, including the identification of the conditions & socio-economic characteristics behind the willingness to participate,

Enhancement of the environmental, social and economic conditions of local communities.

DEMO IN DENMARK



VOERLADEGÅRD will show the way from heating with natural gas to a CO₂-neutral village

DEMO IN THE NETHERLANDS



UNIVERSITY OF TWENTE & OLST communities aim to smart charge and drive using only local solar energy

DEMO IN POLAND



HOUSING ASSOCIATION IN SOPOT takes its first steps towards a sustainable energy system and aims to set-up a local energy community

DEMOS IN INDIA



BARUBEDA VILLAGE aims at becoming carbon neutral “islanded” energy community



BORAKHAI VILLAGE aims at delivering smart clusters based on local energy system powered by renewables



IIT BOMBAY CAMPUS IN MUMBAI acts to achieve intelligent, green, sustainable transportation and smart building system



www.h2O2OSustenance.eu

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www.enlit.world/projects/sustenance

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Project Partners



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