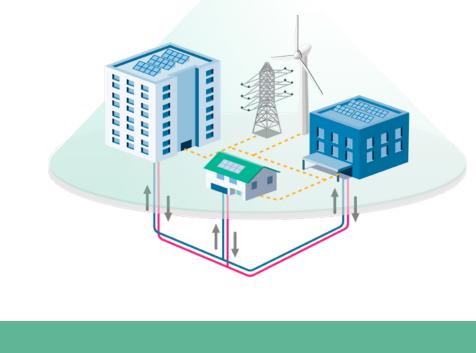
Hybrid Coupled Networks

HYPERGRYD, the Horizon 2020 project is moving forward!!

With the participation of 19 partners from 7 European countries, HYPERGRYD is developing a set of cost-effective, replicable, and scalable technical solutions that will enable the integration of renewable energies with different dispatchability and intrinsic variability within thermal grids and their connection to electricity grids. In its two-and-a-half years of life, the project is progressing in developing innovative and

integrated technological innovations, ICT tools, and services covering all levels of the process, from the building to the Local Energy Community (LEC). HYPERGRYD aims to accelerate the

sustainable transformation, planning, and modernisation of district heating and cooling (DHC) for the 4th and 5th generations. It also works on the realtime management of electrical and thermal energy flows in complex coupled energy networks and the synergies between them.



Time flies. We're halfway through 2023! During this period, modelling and simulation of the enabling

Hypergryd continues to make progress!

technologies have been carried out to define the specifications

of the prototypes for manufacturing. The devices combined with the HYPERGRYD enabling technologies already present in KEZO LiL have been simulated. Tests are being carried out on the components of the cogeneration unit. Tests with the electric model have already been carried out at ENVI LiL. And the current demonstration situation in the Live-in Labs has been analysed holistically to define the HYPERGRYD implementation strategy in each case. The use cases, demonstration strategy, and validation criteria for LiLs have been described. About exploitation, the Exploitable Results (ER) have been updated, and relevant technological and market trends related to the topics

Let's contribute to the transition towards future 4th and 5th generations of District Heating & Cooling networks!

addressed by the HYPERGRYD project continue to be studied.







EUROTHERM CONFERENCE, INNOVATIVE SOLUTIONS FOR THERMAL ENERGY STORAGE DEPLOYMENT

NEWS

has become an essential solution for the cost-effective exploitation of energy resources in local energy communities and



delighted to have been part of Eurotherm Conference, dedicated to advancing the field of thermal energy storage and held recently at the University of Lleida from 24-26 May 2023, Spain. **LEARN MORE** LIVE IN LABS USE CASES DESCRIPTION

This article explains what is meant by a

use case in a Live in Lab, the peculiarities

of each Live in Labs within HYPERGRYD,

In recent times, thermal energy storage

for decarbonizing building heating and

cooling systems. We at HYPERGRYD are

energy systems in DHC, all the tasks related to the technologies for smart

HYPERGRYD 4th GENERAL ASEMBLYIN STOCKHOLM



THE IDEA OF STORAGE

hybrid grids are ongoing and active. **LEARN MORE**

The HYPERGRYD 4th General Assembly

was held at Stockholm, Sweden. KTH

hosted us. Now that we finalized the

strategic framework for integrating

When thinking about thermal storage, the

and the applications and expected results of each use case.



GLOSSARY

GLOSSARY

Meet our partners

eek we are presenting: RINA

RI A

RINA

ARCbcn

This week we are presenting: ARG BARCELONA

HYPERGRYD

LEARN MORE

Battery Energy Management System Using Edge-Driven Fuzzy Logic

Improved Adaptive Neuro-Fuzzy Inference Model for Photovoltaic Power Forecast

alternatives worth considering?

HOW THERMOCHEMICAL STORAGE CAN CHANGE



LEARN MORE

first thought of everyone is about water

storage, which is cheap, widely available,

and used for several years, making it reliable. But is it so, or are there other

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LEARN MORE

rule-based EMS for different weather conditions.

consensus on the concepts used in the project.

MEET OUR PARTNERS!

HYPERGRYD

PUBLICATIONS & RESULTS

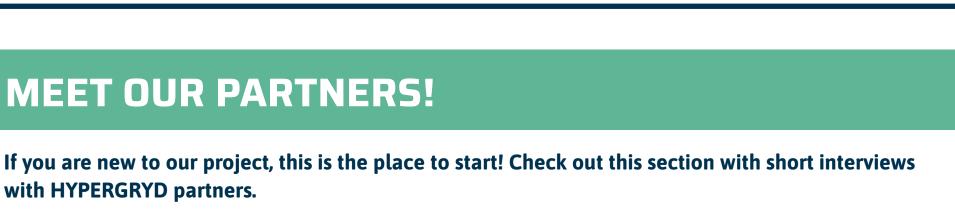
This article explains the importance of photovoltaic power forecasting for improved performance and management of photovoltaic/ battery hybrid systems. Data-driven models have become very efficient for building regression models for PV power forecasting.

This article addresses and validates a fuzzy logic-based EMS for the optimal management of photovoltaic (PV) systems with lead-acid ESSs using an edge computing technology. The proposed method is tested on a real smart grid prototype in comparison with a classical

Have you seen our wiki-style glossary? A terms and definitions glossary has

It is a reference tool for anyone interested to know more about Hypergryd.

been created to facilitate partners and stakeholders to understand and have a



HYPERGRYD

Meet our partners

EIM

EIM

with HYPERGRYD partners. Have a look at the new interviews:

Meet our partners

This week we are presenting: KTH

we are presenting: COMET

COMET

HYPERGRYD HYPERGRYD Meet our partners Meet our partners

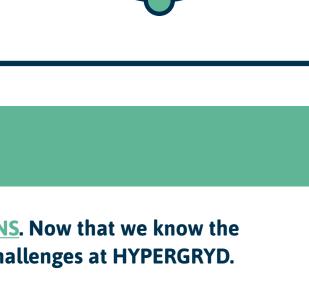


Sorption Technologies

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HYPERGRYD



RANOTOR RANOTOR Rasmus Grip **▶ WATCH THE VIDEO**

Be the first to learn about project

events and activities!

SUBSCRIBE TO OUR NEWSLETTER

Gabriele Penello

WATCH THE VIDEO



Very enlightening!

More interviews coming soon!





























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