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**System operation
and flexibility solutions
for integrating 50%
renewables by 2030**



The EU-SysFlex project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 773505.

Finding the right blend of flexibility and system services to support secure, resilient transmission system operation

TODAY...

30% RES SCALE

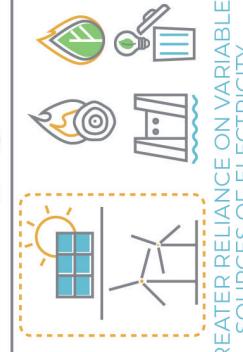


PREDOMINANTLY CENTRALISED SYSTEM STRUCTURE

...2050 >>

ELECTRICITY USE IS ESTIMATED TO INCREASE FROM 20% OF ENERGY USE TODAY TO 40% OF ENERGY NEEDS.

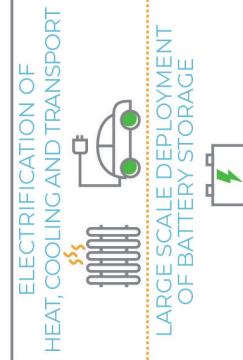
50% RES SCALE



GREATER RELIANCE ON VARIABLE SOURCES OF ELECTRICITY

BECOMING MORE DECENTRALISED

SMARTER LIVING



ELECTRIFICATION OF HEAT, COOLING AND TRANSPORT

LARGE SCALE DEPLOYMENT OF BATTERY STORAGE

Meeting the European challenge of 50% renewables by 2030

EU-SysFlex is a project made up of a pan-European consortium, crossing the industry spectrum from TSOs, DSOs, technology providers, research and academic institutions, as well as consultants.

Today in Europe, renewables meet approximately 30% of electricity needs – the ambition is 50% and more. The aim of EU-SysFlex is to address future system operation challenges associated with this high RES environment.

Our objectives are to:

Develop operational solutions for system operators in the future flexible environment

Identify market and regulatory enhancements to incentivise flexible solutions

Identify technical solutions to deliver on the necessary flexibility

Design a roadmap for Europe to ensure scalability

The project will run from 2017 to 2021.

EU-SysFlex Project Overview

