

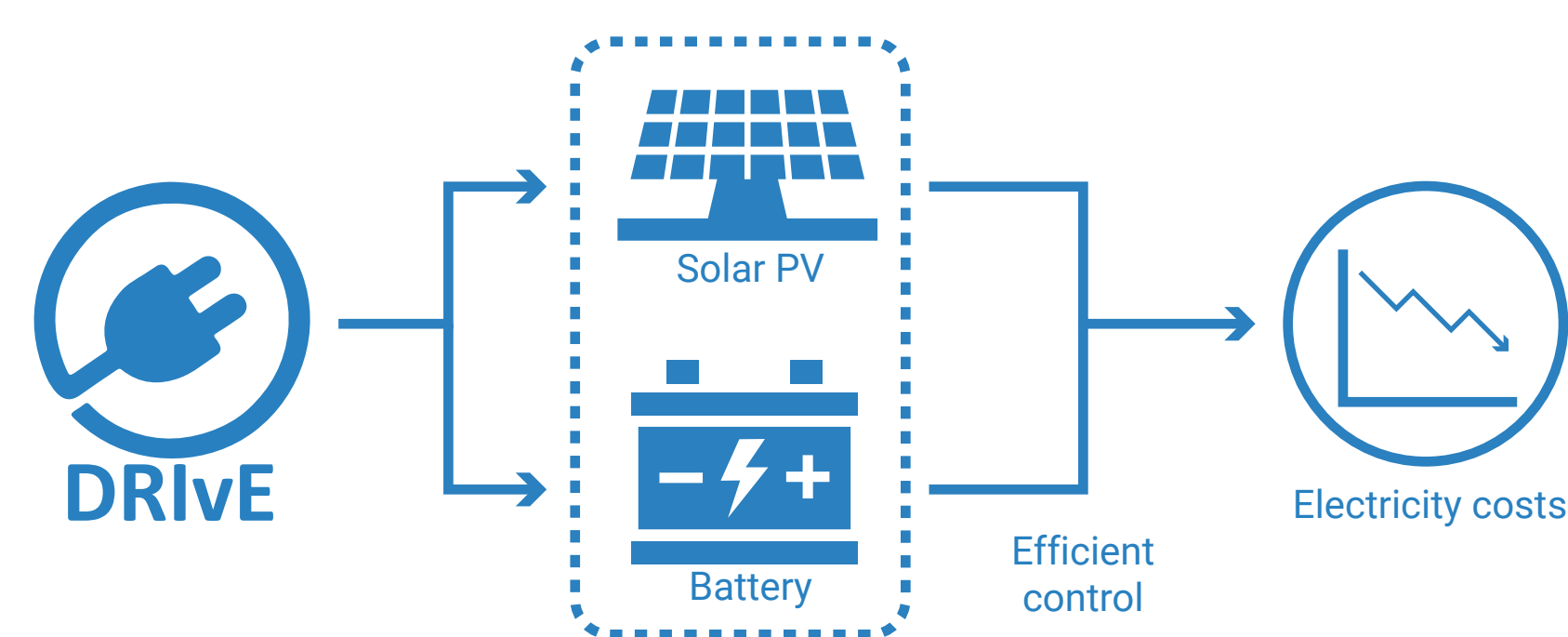


# DRIVE

www.h2020-drive.eu

## DEMO SITES

Blaenau Gwent District "The Works Site", in the United Kingdom



DRIVE Objectives	Annual improvement
Increase flexibility (15 to 20%)	20.1%
Increase penetration of renewable energy (yp to 25%)	98.7%
Energy bill saving (up to 30%)	34.9%

**Promoter:** Local authority area in South East Wales

**Focus of the demo:** The Coldmills school. This building is divided in 6 different areas and uses heat from the district heating network and electricity from the grid. Metering, including occupancy monitoring, is installed throughout the building and connected to the Building Management System.

**Direct replication potential:** tertiary buildings such as sports centre, general offices, a car park and a learning center. The site now comprises a number of multiple use buildings (constructed and commissioned 2012-13).

**Objectives:** maximise revenue and to avoid surpassing the maximum power limit (very costly).

**Assets:** A 100 kWp solar PV system and A Lithium-ion battery (flexible load) with 200 kWh capacity, and 100 kW discharge/charge power

**Method:** Offline simulations

**Results:** Thanks to the flexible assets (PV+battery) economic savings due reach over €250.000 per year

