

## DRUE www.h2020-drive.eu DEMOSITES WOERDEN

District, in the Netherlands







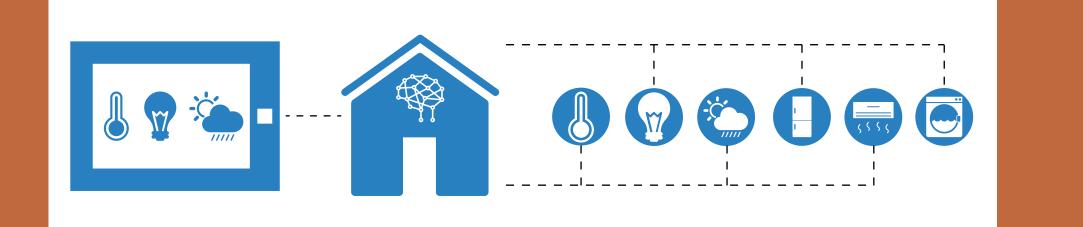




**Promoter:** Local energy Community

Focus was on: Optimization of

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1998	Performance		
	From: 2019-10-29 to: 2019-10-30		
	Period: Day Week Month Year Cearlier	later > Today	
	Your energy cost	Your green energy earnings	Ecological
	E In LES: 0.796 Regular: 0.796	Feed-in tariff: 0.546	CO2 saved: 0.15kg
	You saved: 0 (0%)	You earned: 0 (0%)	
	Community energy	Your energy relative to	
	Energy imported: 107kWh	Community average You consumed: 38%	
	Green energy exported. 795Wb	less You injected: 44%	
	Local energy used: 11kWh	more	



individual house assets. The Woerden district is a local energy community, where 39 houses have been renovated to be net-zero-energy buildings, reducing the energy consumption of 40%, with installation of high-performance heating and ventilation systems and where PV on rooftops provide green electricity production

**Objectives:** A reference case has been focused on the optimization of individual houses. Comparing the combined results obtained from optimizing each house separately against the results obtained from optimizing the community as a whole, it is shown that the community management optimization is beneficial when compared to individual building management.

Assets: Solar panels (7 kWp); Heat pump (2 kW); Hot

water buffer (200 liter); District battery (220 kW/220 kWh); Home battery (7.8 kW/7.8 kWh)

Method: Hybrid, cyber-physical emulation

**Results:** Economic benefits for the community from DRIvE are in the amount of 493€/year/resident, and thanks to the scalability of the process which will become cheaper when more communities will be included



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