

## Projet H2020 – GOFLEX

Nom du projet	Generalized Operational FLEXibility for Integrating Renewables in the Distribution Grid
Call	H2020-LCE-2016-SGS (LCE-02-2016)
Référence UE	731232
Type de projet	Innovation action (IA)
Rôle de la HES-SO	Participant
Chercheur impliqué	Pierre Roduit (HEI-VS)
Participants	IBM Ireland Limited (IE) – Coordinator, Inea Informatizacija Energetika Avtomatizacija Doo (SI), Aalborg Universitet (DK), Technische Universitaet Dresden (DE), Etrrel Svetovanje In Druge Storitve Doo (SI), Robotina D.O.O., Podjetje Za Inz Eniring, Marketing, Trgovino In Proizvodnjo (SI), B.A.U.M. Consult GmbH (DE), University Of Cyprus Cy, Archi Ilektrismou Kyprou Cy, Haute école spécialisée de Suisse occidentale (CH), L'Energie de Sion-Région SA (CH), Sww Wunsiedel GmbH (DE)
Budget global	11'234'125 € / financement UE : 8'845'956 €
Durée	36 mois, début le 01.11.2016
Résumé	<p>The GOFLEX project will innovate, integrate, further develop and demonstrate a group of electricity smart-grid technologies, enabling the cost-effective use of demand response in distribution grids, increasing the grids' available adaptation capacity and safely supporting an increasing share of renewable electricity generation. The GOFLEX smart grid solution will deliver flexibility that is both general (across different loads and devices) and operational (solving specific local grid problems). GOFLEX enables active use of distributed sources of load flexibility to provide services for grid operators, balance electricity demand and supply, and optimize energy consumption and production at the local level of electricity trading and distribution systems. Building on top of existing, validated technologies for capturing and exploiting distributed energy consumption and production flexibility, GOFLEX enables flexibility in automatic trading of general, localized, device-specific energy as well as flexibility in trading aggregated prosumer energy. Generalized demand-response services are based on transparent aggregation of distributed, heterogeneous resources to offer virtual-power-plant and virtual-storage capabilities. The sources of load flexibility include thermal (heating/cooling) and electric storage (electric vehicles charging/discharging). A backbone data-services platform offers localised estimation and short-term predictions of market and energy demand/generation, and flexibility in order to support effective data-driven decisions for the various stakeholders. Smart-grid technologies, such as increased observability and congestion management, contribute to the platform. Over 36 months, GOFLEX will demonstrate the benefits</p>

of the integrated GOFLEX solution in three use-cases, covering a diverse range of structural and operational distribution grid conditions in three European countries.

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