



Overview

Aim: The Redispatch 3.0 aims to enhance the existing Redispatch 2.0 process by expanding its activities and outreach. A goal is to foster increased cooperation and information exchange between Distribution System Operators (DSOs) and Transmission System Operators (TSOs).

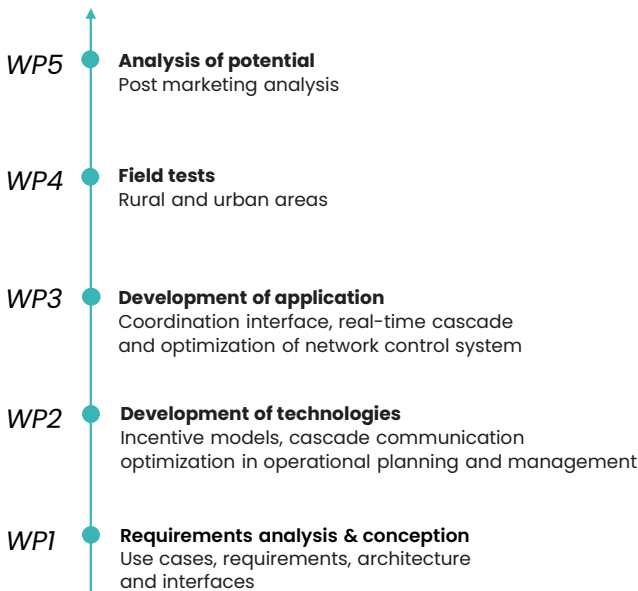
Duration: January 2022 – December 2024

Approaches for Redispatch 3.0

Overall architecture that covers:

- AI-based forecast of controllable resources < 100 kW
- Preventive and curative congestion management
- Aggregation of controllable resources < 100 kW
- Smart meter gateways and grid automation
- Incentives and digital grid connection points
- Coordination of DSOs, TSOs, controllable resources and aggregators
- Integration of existing Redispatch 2.0 processes

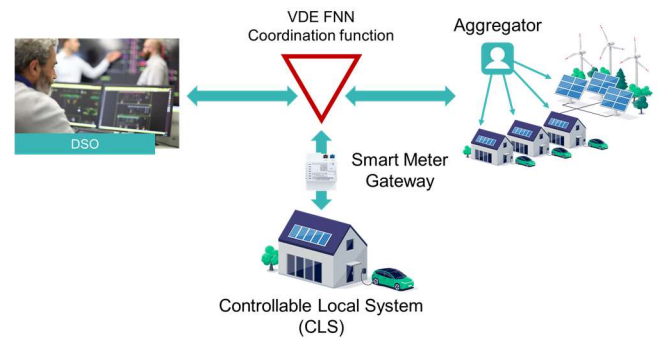
Project Milestones



Key Challenges for a Redispatch 3.0

- Grid operators are expected to face an increased number of controllable resources < 100 kW, such as photovoltaic, electric vehicles, storage systems and heat pumps.
- Controllable resources < 100 kW are not part of Redispatch yet
- Operators of these resources do not forward schedules and their behaviours are not easy to predict
- Interaction between load & feed-in in the distribution grid

Redispatch		1.0	2.0	3.0
	Transmission System Operator	✓	✓	✓
	Distribution System Operator		✓	✓
	Power plants > 10 MW	✓	✓	✓
	Power plants 100 kW - 10 MW		✓	✓
	All renewable energies > 100 kW		✓	✓
	All renewable energies < 100 kW			✓
	Prosumer, batteries, heat pumps, electric vehicle, variable loads etc.			✓



Supported by:



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