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On-going project related to protection

1. PMU supported frequency based corrective control of future power systems

(700k Euro).

PhDs – Matija Naglic and Ilya Tyuryukanov, postdoc – to commence soon.

The project is related to blackout prevention by means of controlled islanding and load shedding. RTDS is used for real time simulations with complete WAMPAC infrastructure for closed-loop coordinated corrective control performance evaluation.

On-going project related to protection

2. Horizon 2020 – LC6: Massive Integration of Power Electronic Devices

(Acronym: Migrate) WP4: **Protection Schemes in transmission networks with high penetration of PE devices.** (500 kEuro).

PhD - Behzad Zargar, Postdoc – Jose Chaves

The consortium consisting of REE, RTE and three universities developed a benchmark model with DFIG, Full converter, HVDC line point-to-point to study different protection schemes with distance and differential protection based on the grid code compliance of different TSOs

On-going project related to protection

3. Horizon 2020 – LC5: PROgress on Meshed HVDC Offshore Transmission Networks

Acronym: Promotion. (750 kEuro)

Postdoc: Siyuan Liu: to be started soon.

The project is related to protection of HVDC networks. Our part is related to DC circuit breaker - Mitsubishi Technology. Circuit breaker modelling and testing will be performed in this work.

On-going project related to protection

4. Protection of HVDC networks; CRC China sponsorship

PhD – Lian Liu.

Working on modelling multi-terminal HVDC networks and developing schemes for protection against faults occurring on DC lines.

5. EURAMET – PMU performance in Distribution networks. (75 keuro)

MSc student involved. This project is related to modelling of 50 kV distribution network with 6 DGs in which PMUs were installed. The PMU performance in the network is being investigated.

6. Testing of motor protection

Msc thesis given by DOW company.