

## Location

Starling Hotel at EPFL  
Rte Cantonale 31, 1025 Saint-Sulpice  
Switzerland



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**HYPERRIDE**  
THE FUTURE OF POWER DISTRIBUTION

**EPFL**

Physical 2-day EPFL Demo Workshop  
General Assembly and Steering Committee  
Meeting



15-16th September 2022

HYPERRIDE: HYbrid Provision of  
Energy based on Reliability and  
Resiliency via Integration of DC  
Equipment



This project has received funding from the  
European Union's Horizon 2020 research and  
innovation programme under grant agreement  
No. 957788

## DEMO

### Pilot Switzerland

**Objectives:** testing optimal control strategies for hybrid AC-DC grids as well as adaptive reconfiguration approaches.

#### Interconnection of:

- Distributed Electrical System Laboratory (DESL): CIGRE 15 node LVAC benchmark
- Power Electronics Laboratory (PEL): LVDC (750 V)

#### Activities for hybrid AC-DC grids:

- Optimal control, including real-scale renewables (PV, EV and heat pumps)
- LVAC applications: PV, BESS, EV-charging, fuel cell, supercapacitor, electrolyzer, hydro oxygen storage, heat pump
- Protection coordination and DC circuit breakers performance
- Local vs. Global grid stability

## AGENDA

Thursday, 15th September  
2022 / Day 1

**12:00-13:00: Welcome reception @ STARLING Hotel meeting rooms-standing reception, small food, coffee**

**13:00-13:10: Session “Opening” (HYPERRIDE consortium, General Assembly)**

Opening, welcome and Agenda (AIT, Gerhard JAMBRICH)

**13:10-17:00: Session “WP Status Update” (HYPERRIDE consortium)**

**13:10-13:30:** WP02-Requirements, use cases and specification (AIT, Gerhard JAMBRICH)

**13:30-13:50:** WP03- Hybrid grid enabling solutions (SCiBreak AB, Staffan NORRGA)

**13:50-14:10:** WP04- Grid planning and Operation Strategies (EATON, Stefan COSTEA)

**14:10-14:30:** WP05- Open and secure ICT (ENG, Diego ARNONE/Alessandro ROSSI)

**14:30-14:50:** Coffee Break

**14:50-15:10:** WP06- Swiss Pilot (EPFL, Drazen DUJIC)

**15:10-15:30:** WP07- German Pilot (RWTH AACHEN, Katharina HETZENECKER/Benedict MORTIMER)

**15:30-15:50:** WP08- Italian Pilot (ASM TERNI SPA, Massimo CRESTA)

**15:50-16:10:** WP09- Business models, regulatory and consumer engagement (AIT, Natalia WEBER)

**16:10-16:20:** Coffee Break

**16:20-16:40:** WP10- Dissemination, Exploitation and Impact Creation (FEN, Diana VON DER GRACHT)

**16:40-17:00:** WP01/MGT- Project Coordination and Management (AIT, Gerhard JAMBRICH)

**17:00-18:00: Lab Tour – EPFL DESL and PEL – Introduction to DEMO site (all)**

**19:00-22:00: Working Dinner @ STARLING HOTEL Buffet dinner–self serving**

## AGENDA

Friday, 16th September  
2022 / Day 2

**09:00-10:30: LIVE DEMO @EPFL – with invited External Stakeholders (all)**

- Transfer to EPFL Demo Site Introduction
- Experimental demonstration relevant for Demo site
- AC grid equipment
- DC grid equipment
- OPF
- AFE operation
- DCT operation
- TBD

**10:45-11:00: TIGON Project overview – H2020 sister project**

**11:00-12:00: Session „External Stakeholders“ (all)**

- Panel Discussion

**12:00-13:00: Lunch @ STARLING Hotel**

**13:00-14:00: Session „Steering Committee (SC) (HYPERRIDE consortium)**

**13:00-13:55:** Steering Committee (SC) Meeting, reflecting feedback from External Stakeholders and Advisory Board (AB) (AIT, all)

**13:55-14:00:** Summary (AIT, Gerhard JAMBRICH)

**14:00-14:15:** Coffee Break

**14:15-16:00: Session „LVDC grid and protection coordination concepts“ (HYPERRIDE consortium)**  
moderated by AIT, Gerhard JAMBRICH

**16:00: End of Meeting**

### EPFL Demo: LV Hybrid AC-DC microgrid

