Close and Return





HVDC underground links

HVDC underground links for interconnections

□ France – Spain

- INELFE (RTE / REE)
- 2x1000 MW, 320 kV, XLPE, 2 500 mm² Copper
- 2 bipoles
- 65 km including 8,5 km in dedicated tunnel
- VSC
- Commissioning date : 2014

Savoie – Piemont

- RTE / TERNA
- 1200 MW
- 320 kV, XLPE
- 2 bipoles
- 190km
- VSC
- Commissioning date : 2017

Today industrial offer for extruded HVDC cables and VSC 320 kV ; 1000 MW per bipole

Further development : needs for higher power extruded HVDC cables higher voltage DC cable (cf. session A.2)



How to operate an hybrid DC / AC grid ?

- Equipment needs are (and will be) fulfilled to build new HVDC UG lines
- □ The operation of an hybrid DC / AC grid requires specific eletrical transient studies
- □ RTE has decided to build a Real Time Simulation Platform :
 - \succ to assess operation conditions and to maintain the AC/DC converter stations
 - \succ to have the capability to simulate the behaviour of new DC links interacting with the AC grid (and other DC links).

