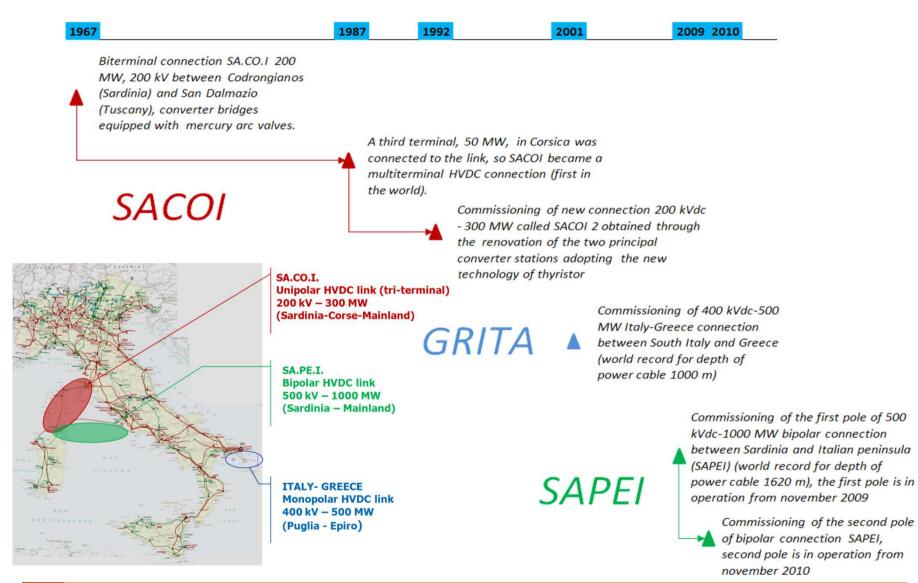


Existing HVDC links in Italy

TERNA's experience on HVDC systems





Future HVDC links in Italy

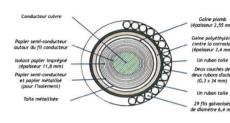
Incoming HVDC projects (planned, under feasibility, permitting phase, authorized)





Cables types of the Italian HVDC links

Used models of cables



	SA.C	SA.CO.I.		
nm)		MARINE	TERR.	
ène ion nm)	Nominal Voltage [kV]	200	200	
e de der	Nominal Current [A]	750	750	
	Maximum depth [m]	450		
és mm	Insulation Type	MIND	MIND	
	Cable Section [mm ²]	Cu 420	Cu 1080	

1000 mm² Copper conductor

Semiconducting paper tapes

Semiconducting paper tapes

Metallic tape reinforcement

Polypropylene yarn serving

Syntetic tape or yarn bedding

Double layer of flat steel wire armou

compound

Diameter

Weight

Low Depth

E

Lead alloy sheath

Polyethylene jacket

Insulation of paper tapes impregnated with viscous

118 mm

44 kg/m



Nominal Voltage [kV]

Nominal Current [A]

Maximum depth [m]

Cable Section [mm²]

Insulation Type

	GR.ITA			
		MARINE	TERR.	
	Nominal Voltage [kV]	400	400	
	Nominal Current [A]	1250	1250	
	Maximum depth [m]	1000		
8	Insulation Type	MIND	SCFF	
	Cable Section [mm ²]	Cu 1250	Cu 1200	

HIGH DEPTH

500

1000

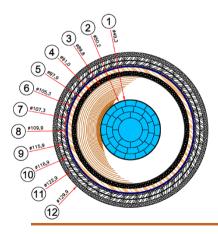
1640

MIND

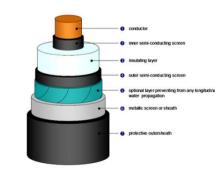
Al 1150



High Depth



MON.ITA				
	MARINE	TERR.		
Nominal Voltage [kV]	500	500		
Nominal Current [A]	1200	1200		
Maximum depth [m]	1200			
Insulation Type	MIND	MIND		
Cable Section [mm ²]	Al 1900	Cu 1900		



SA.PE.I.

LOW DEPTH

500

1000

400

MIND

Cu 1000

	Piemonte - Savoie		
	Nominal Voltage [kV]	320	
	Nominal Current [A]	950	
	Length [km]	200	
	Insulation Type	XLPE	
	Cable Section [mm ²]	Al 2500	

TERRESTRIAL

500

1000

MIND

Cu 1400