

**Jicable'11**

*Session A 11, Round Table*

**Long length (>10 km) high voltage  
links by DC insulated  
power cables in Korea**

*by Ja Yoon Koo, Hanyang University, Korea*

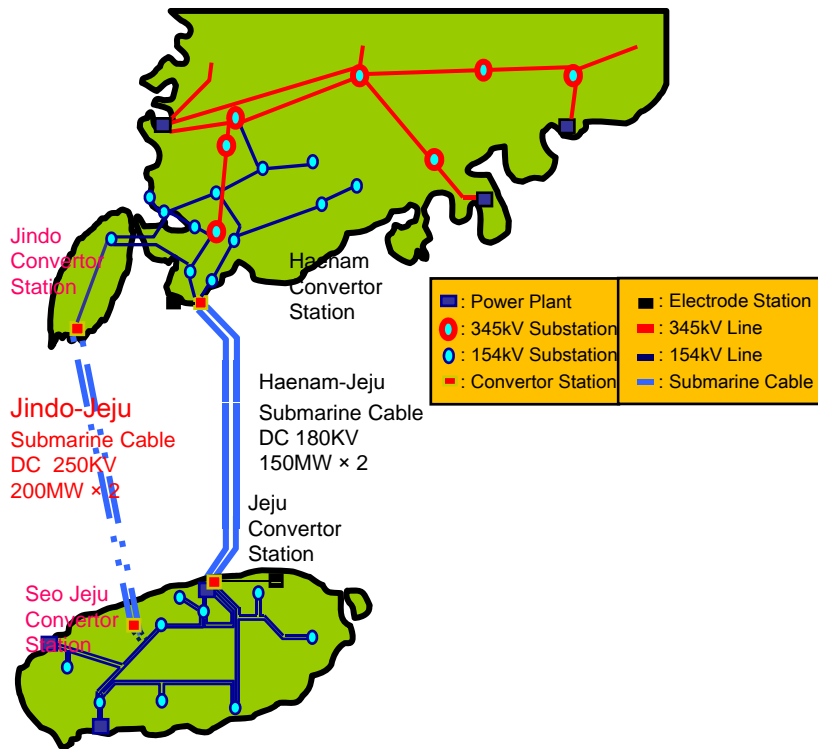
# Long length (>10 km) high voltage links by DC insulated power cables in Korea

*by Ja Yoon Koo, Hanyang University, Korea*

Country of the link	System	Power Voltage Length	Cable characteristics	Link length
KOREA	KEPCO Haenam – Jeju (2circuit)	2 X 150 MW + 180, - 180 kV 1 bipole	Mass Impregnated Cable	96 km submarine 5km underground Max depth: 135m Protected all
KOREA	KEPCO Jindo – Jeju (2circuit)	2 X 200 MW + 250, - 250 kV 1 bipole	Mass Impregnated Cable	101 km submarine 12km underground Max depth: 160m Protected all

# Long length (>10 km) high voltage links by DC insulated power cables

1. Haenam – Jeju (2circuit), Jindo-Jeju (Future, 2Circuit)



[Diagram]

Power Cable				
Item	Haenam-Jeju (2 Circuit)		Jindo-Jeju (2 Circuit)	
	Submarine	Land	Submarine	Land
Voltage(kV)	180		250	
Route Length(km)	96	5	101	12
Cable Type	MI	MI	MI	MI
Conductor(mm <sup>2</sup> )	800	800	900	1000
Diameter(mm)	90	75	102	91
Capacity(A)	150 × 2		200 × 2	
Construction(Year)	1998		Future (Dec, 2011)	
Manufacturer	Alcatel, Pirell	Alcatel, Pirell	LS Cable	LS Cable
Weight(kg/m)	26	17	32	25