

Contact:



With the support of CIGRE Committee B1 : Insulated Cables

WETS'15 QUESTIONNAIRE

World Energy Transmission System

Form N° ...

Achievement and experience in service of long length (> 10 km), HV, EHV and UHV electrical links by AC and DC insulated power cables

The results of the surveys for WETS'05 / WETS'07 / WETS'11 are available on the site jicable.org page Workshops. See also CD Roms WETS'07 and WETS'11

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Insulated power cables AC

IINKS

1.1	. Geographical situati	on of the link:	
	Country:		_
	Area :	MARITIME	
1.2	. Characteristics of th	e link:	
	Network :		_
	Link name :	_	
	Nominal power (MW):		_
	Nominal voltage (kV):		
	Link length (km):		
	Number of circuits :		_
1.3	. Characteristics of th	e cables:	
	(embedding depth, cab	nd (in tunnels, in ducts, in concrete, directly buriedõ) le protectionsõ)	
	Forced cooling:		
	Yes:, type:_		_
	No:		
	Insulating material : polymer, paper, õ		
	Metallic screens bonding:		-

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Testing of the link (before commissioning, and during operation):	
1.4 . Is a compensation of the rea	active power achieved?
Yes:	No:
Why?:	
Position of the compensation : At the end, intermediary, Why?	
1.5 . Characteristics of the comp	ensation:
Nominal power (Mvar) :	
Technology:	
Occupied space (m ²):	
Cost (" or US\$) :	
1.6 – How are considered the pro	blems of cable integration into the system?
- Stability of voltage and freque	ency:
- Propagation of slow transients	s, resonances:
- Distribution of currents related	d to the different impedances

Link length (km):

os una Expanded i editarec		
1.7 . Operating results of	the compensated link:	
Technical and econom	ical performances :	
		_
		-
1.8 . Publications or avail	able documents concerning this link:	
		-
		-
		-
		-
		-
2 IN/ FIN/ am	d IIIIV inculated newer cables	
z – HV, EHV an links	d UHV insulated power cables	DC
2.1 . Geographical situati	on of the link:	
Country:	CANADAMARITIME	
Area :	Newfounland-Nova Scotia	
2.2 . Characteristics of th	e link:	
Network :		_
Link name :	MARITIME LINK	
Nominal power (MW):	_400	
Nominal voltage (kV):	200	

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	Cable type :	
	Manufacterer(s)	\ cubmarina
	Installation : underground (in tunnels, in ducts, in concrete, directly buriedo (embedding depth, cable protectionso)SUBMARINE	
		_
	Forced cooling:	
	Yes:, type:	_
	No:	
	Insulating PAPERmaterial: Polymer, paper, õ	
	Characteristics of the accessories: Testing of the link	
	(before commissioning, and during operation):	
2.4	. What are the reasons for choosing this technology? RELIABILITY	
		-
		_
2 5	- What are the difficulties of integration of the conversion station i	n tha
	work and the solutions (problem of protection of the link and o	

	and Expanded Features
	
2.6	Operating results of the link:
	DC link and Converters:
	UNDER CONSTRUCTION
2.7	Publications or available documents concerning this link:
3 -	- General issues concerning terrestrial or
	bmarine insulated power cables AC or DC links
	 What is the logistics of major projects and planning issues in particular in case of tunnel (e.g., the problem of routing of large drums)?
acc drui	- What are the results of studies on the failure rate of these links taking into ount the number of joints (elementary sections related to the capacity of ms). What is the estimated reliability of these links? What repairing itions to reduce the duration of unavailability in case of failure?

	nt phases: design, supply, repair (Question for power utilities)?	_
	are there any diagnostic methods for assessing the health staturine link of 100 km?	- s o -
s.5 – W	hat are the acceptance tests for significant long length links?	_
.6 – W	hat are the technical solutions to realize links with three ends?	_
3.7 – W listribi	hat is estimated cost of the investment and operation of these link ition of these costs to the supply, installation work and asser	_ _ nbl

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