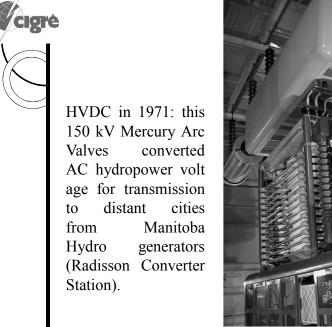
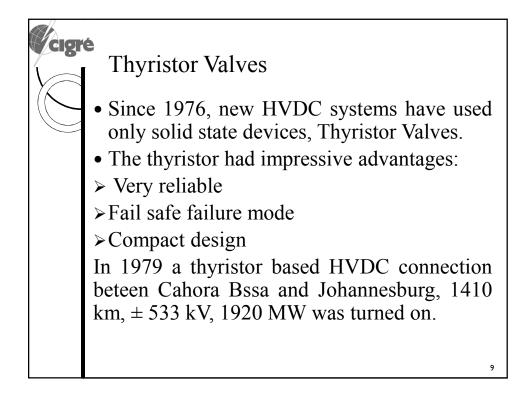
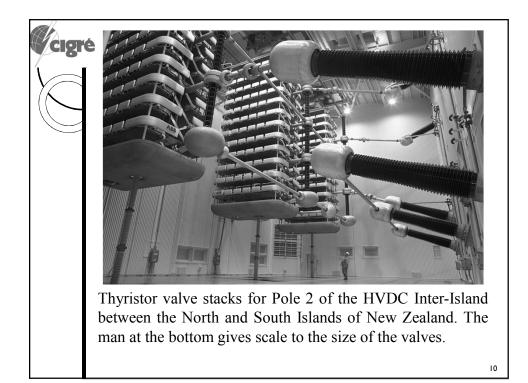


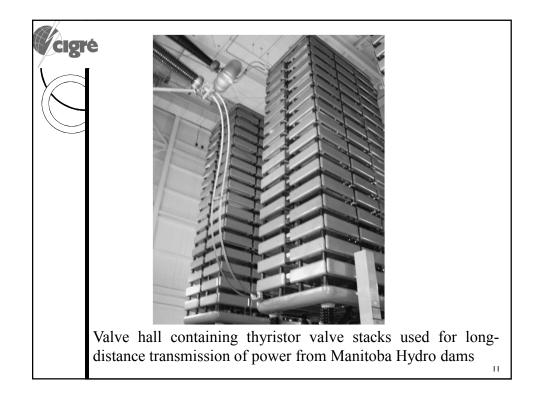
out this help came too late for the Thury system.

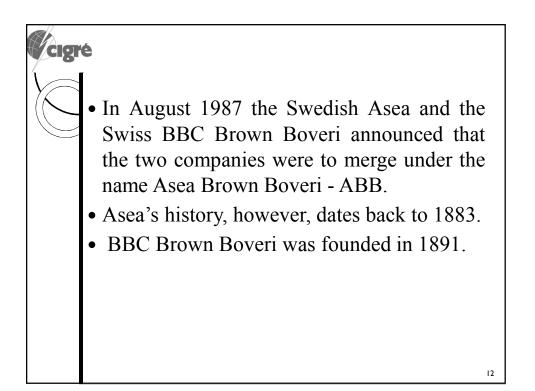


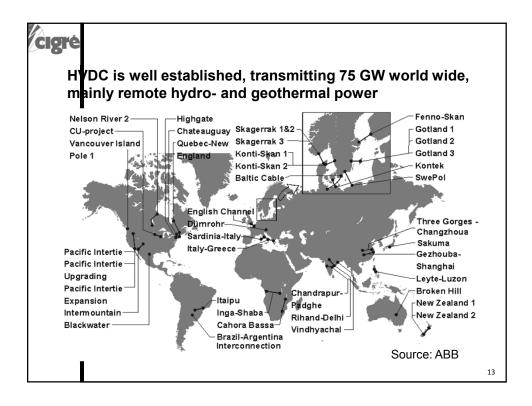


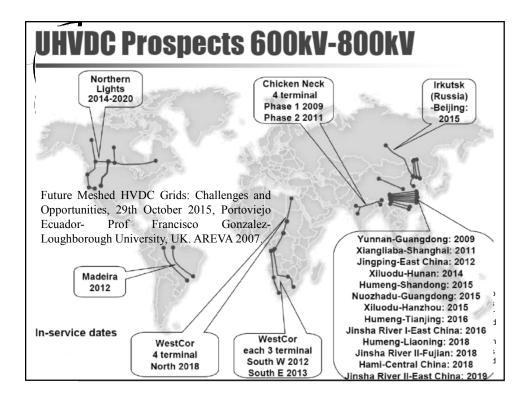


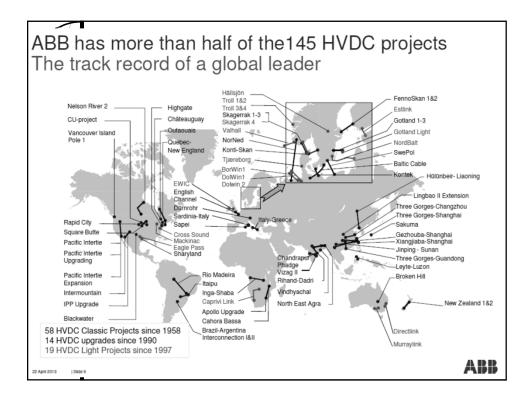


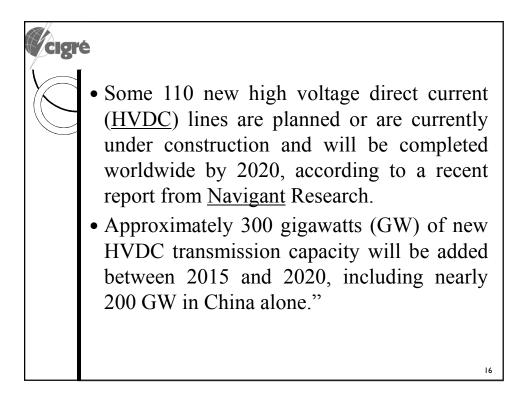


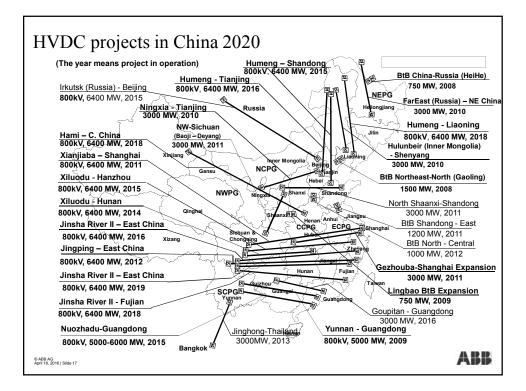










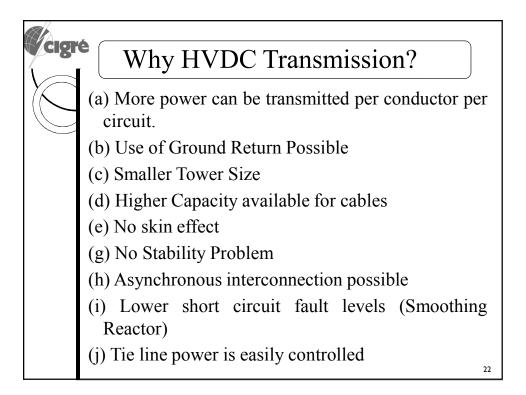


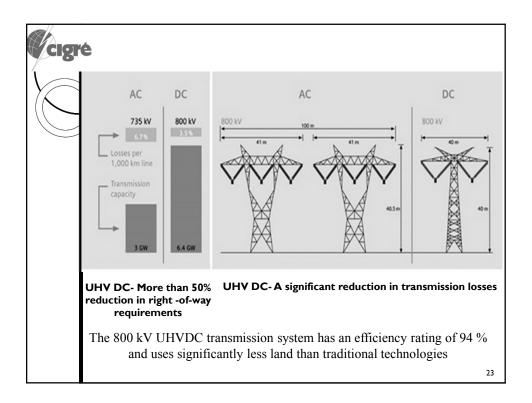
Cigr	é	UHVD	C Proje	ects in C	)peratio	n
		Projects	DC voltage (kV)	Rated power (MW)	DC current (A)	Line length (km)
		Xiangjiaba- Shanghai	±800	6400	4000	1907
		Jinpin-Sunan	±800	7200	4500	2051
		Haminan- Zhengzhou	±800	8000	5000	2192
		Xiluodu- Zhejiang	±800	8000	5000	1653
						18

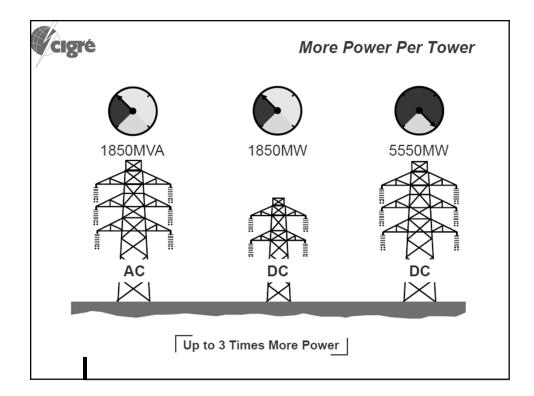
Cigr	• UHVDC Projects under Construction					
	Projects	DC voltage (kV)	Rated power (MW)	DC current (A)	Line length (km)	
	Lingzhou- Shaoxing	±800	8000	5000	2000	
	Jiuquan-Hunan	±800	8000	5000	2300	
	Jinbei-Nanjing	±800	8000	5000	1100	
					19	

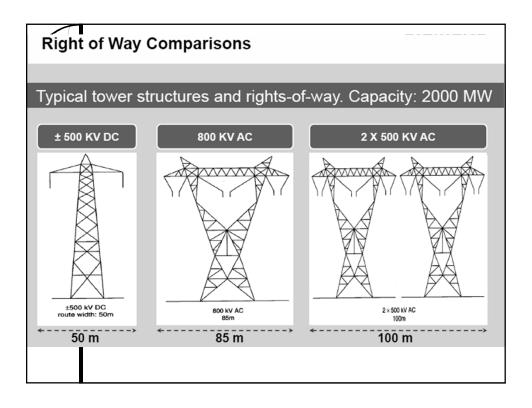
Projects	DC voltage (kV)	Rated power (MW)	Rated DC current (A)	Line length (km)	Operation
		(141 44)	current (A)	(KIII)	
Ximeng- Taizhou	±800	10000	6250	1620	2017
Shanghaimiao- Shandong	±800	10000	6250	1235	2017
Zhundong- Wannan	±1100	12000	5500	3340	2018

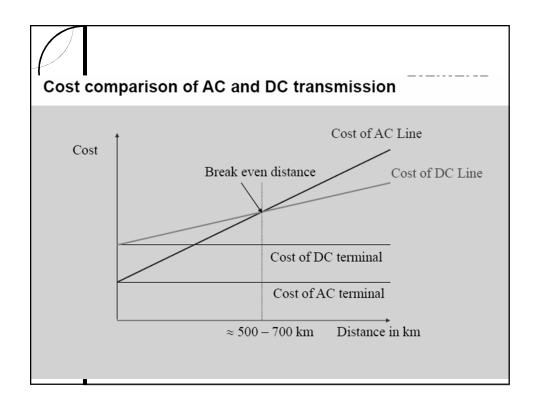
Cig	UHVDC Projects under plan						
	Project	Rated DC voltage (kV)	Rated power (MW)	Rated DC current (A)	Line length (km)	Operation	
	Zhalute- Qingzhou	±800	10000	6250	1450	2018	
	Yazhong- Nanchang	±800	10000	6250	1400	2018	
	Zhundong- Chengdu	±1100	12000	5500	2600	2018	
						21	

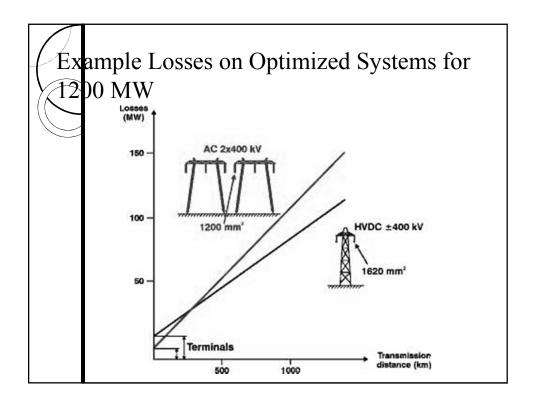


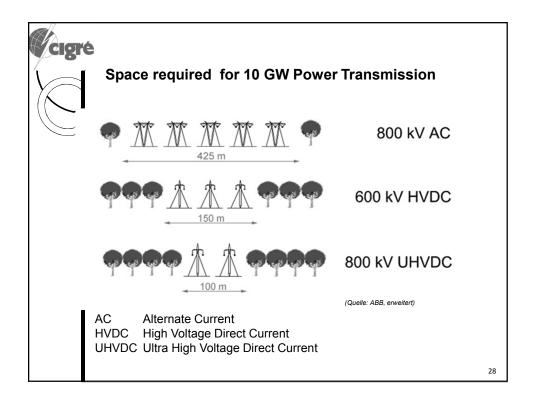


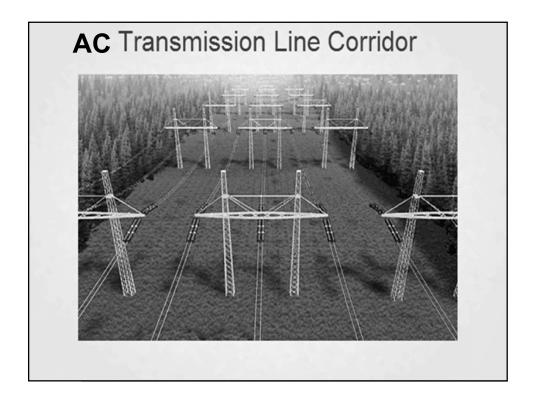


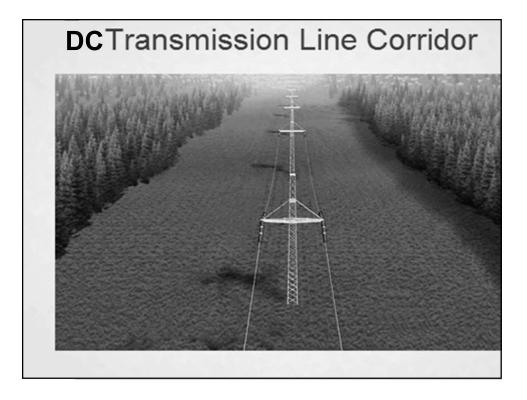


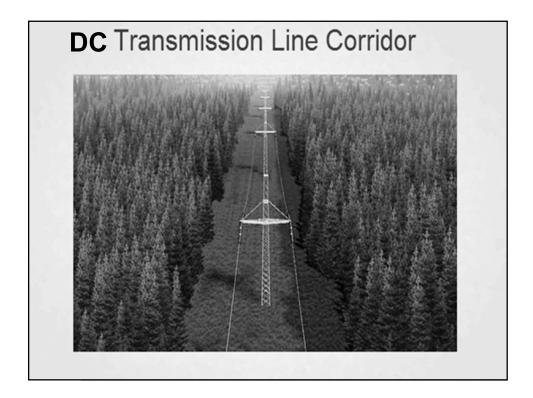


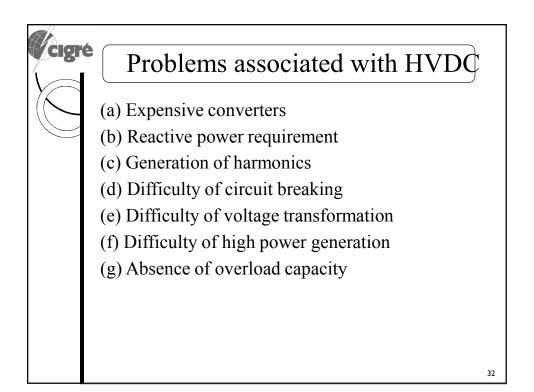


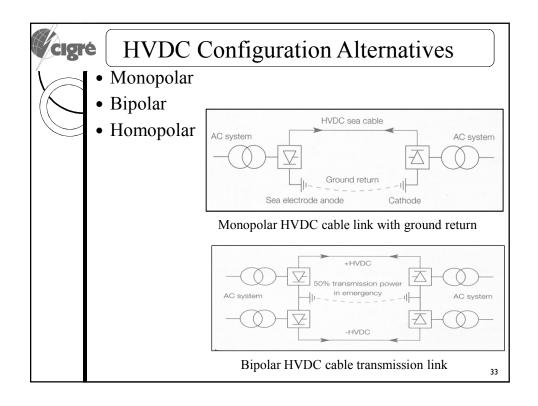


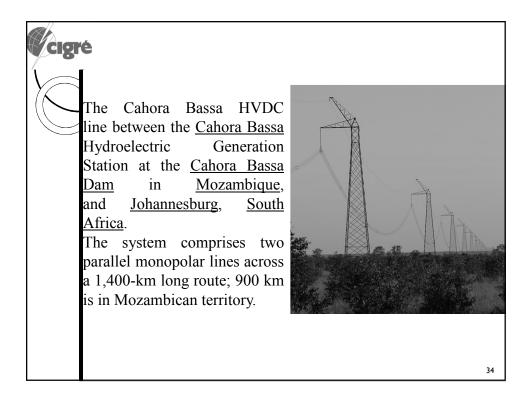


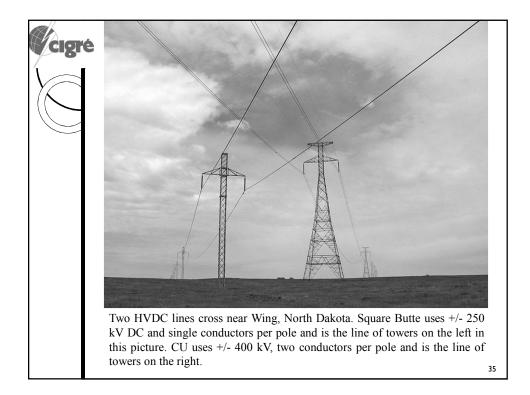


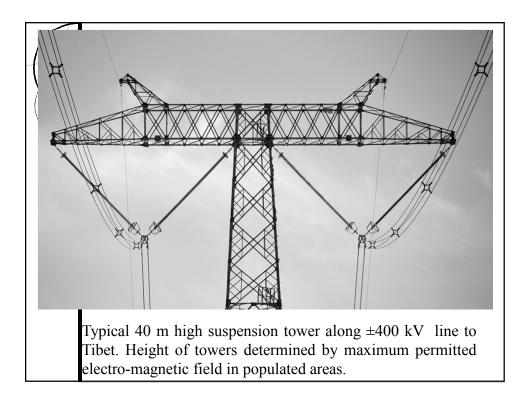


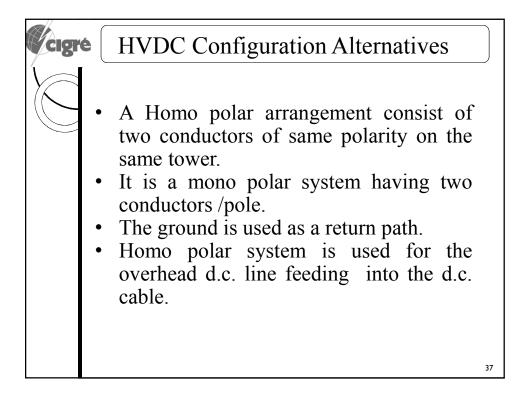


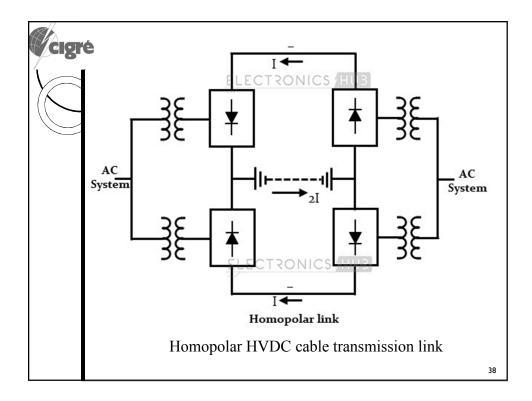


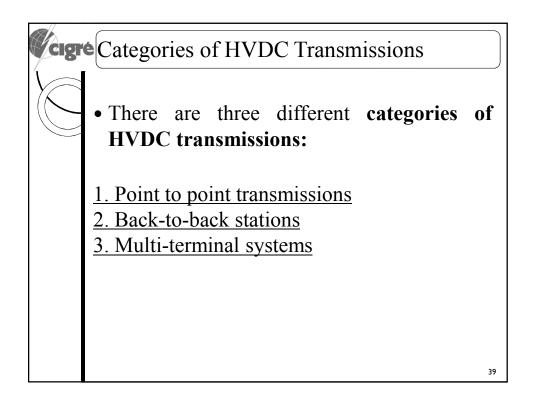


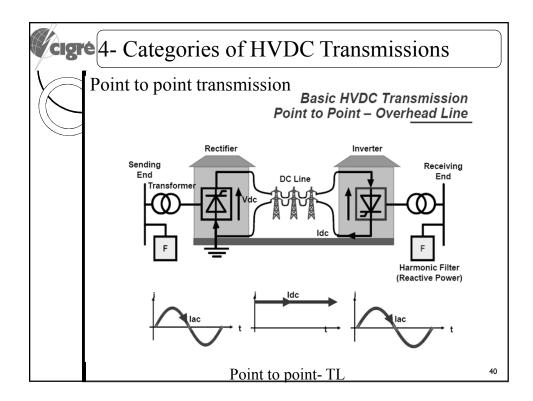


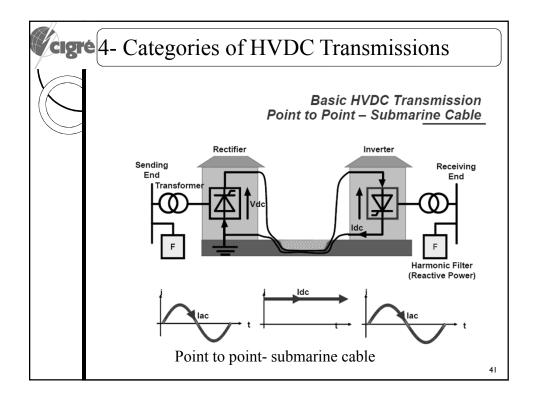


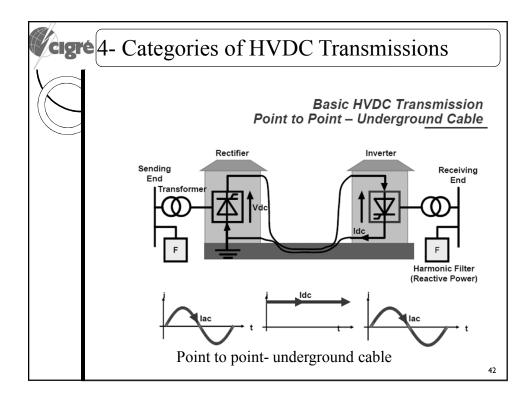


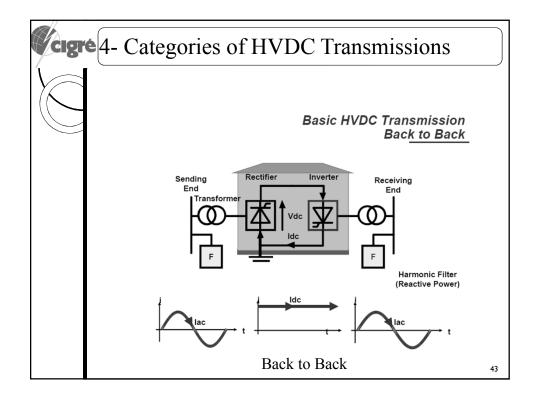


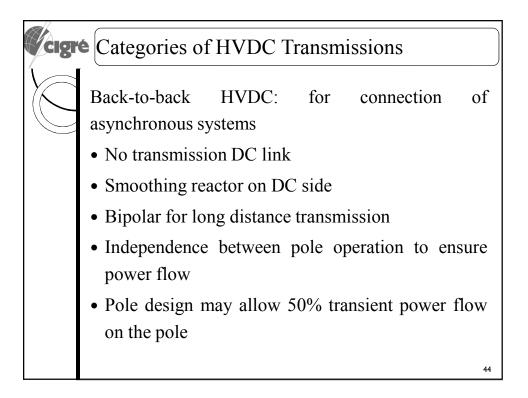


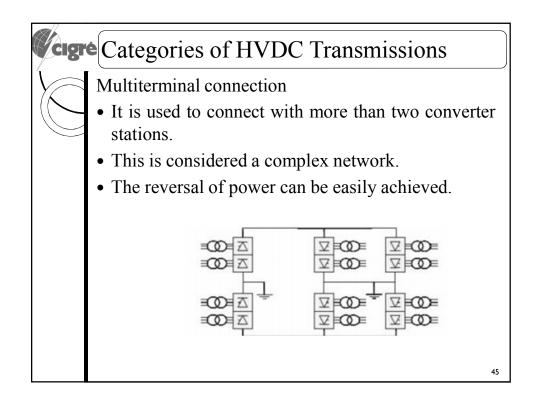


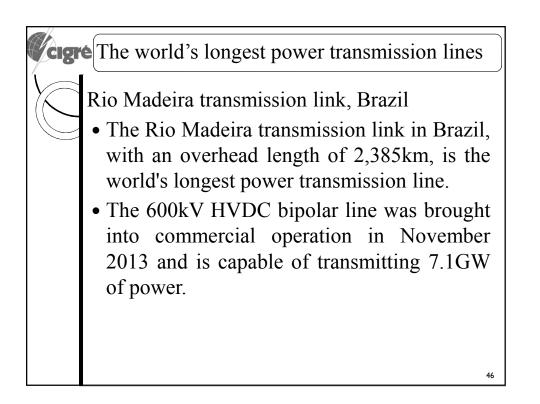


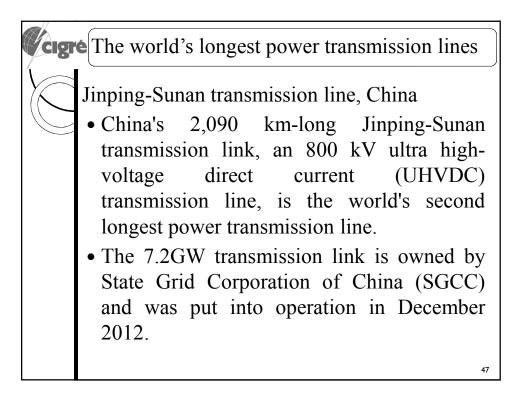


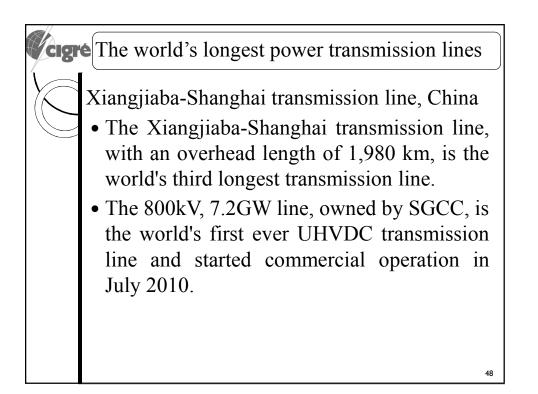


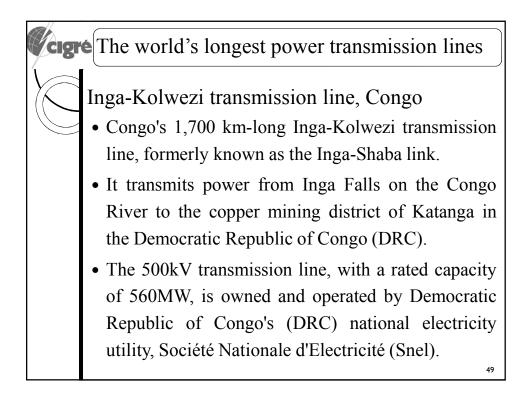


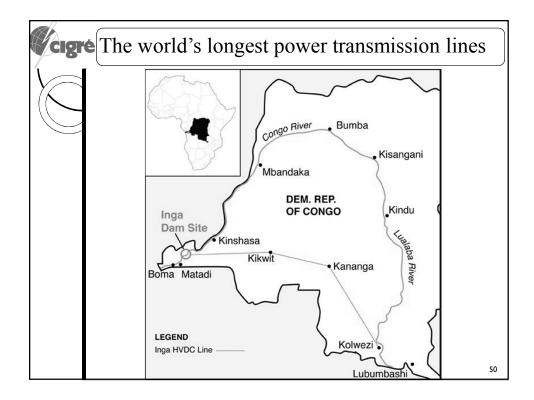


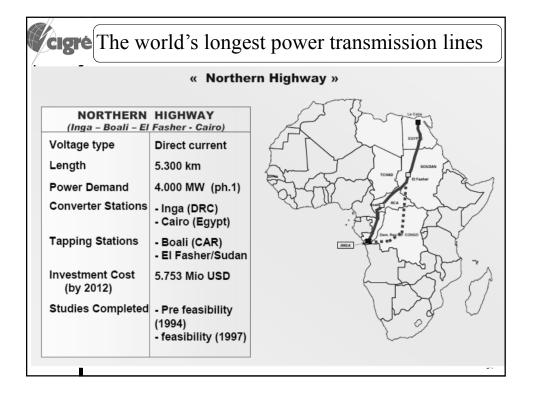


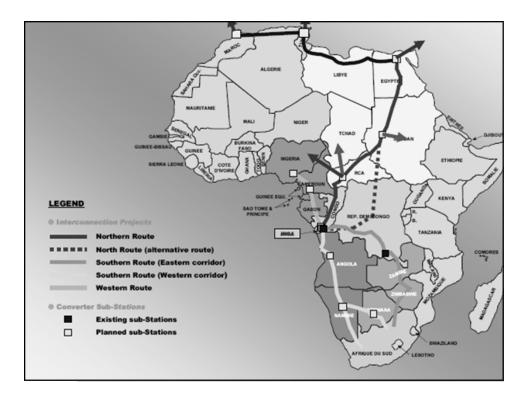


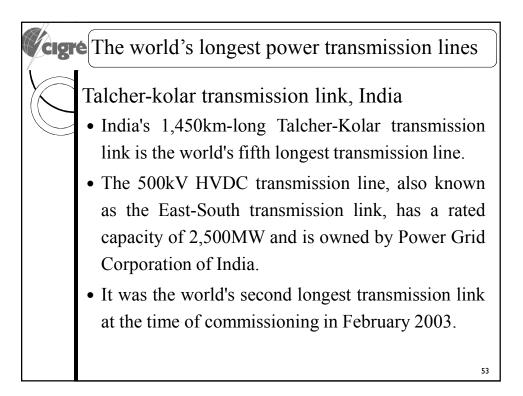


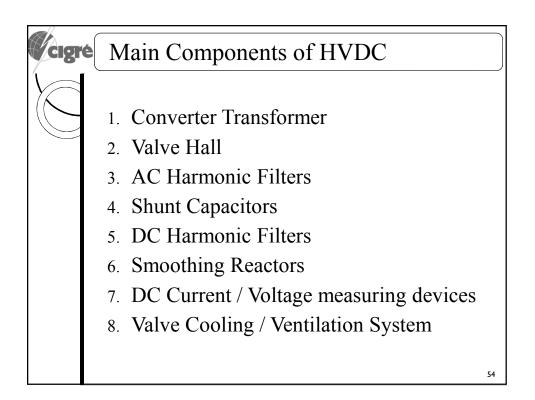


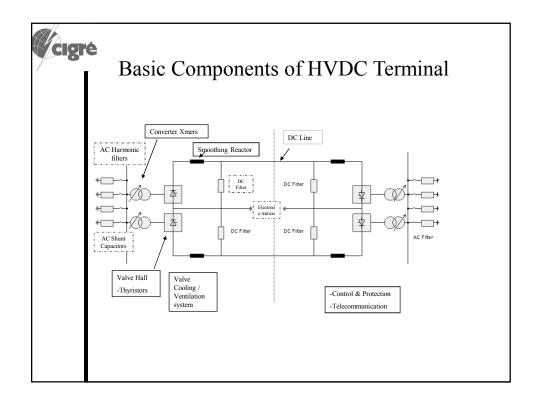


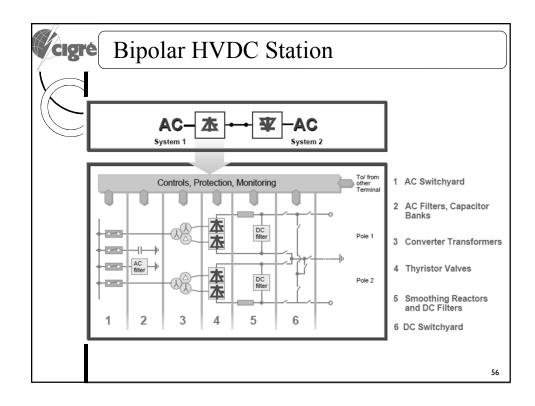


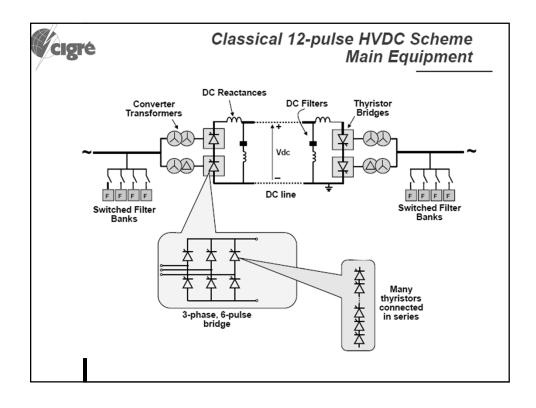


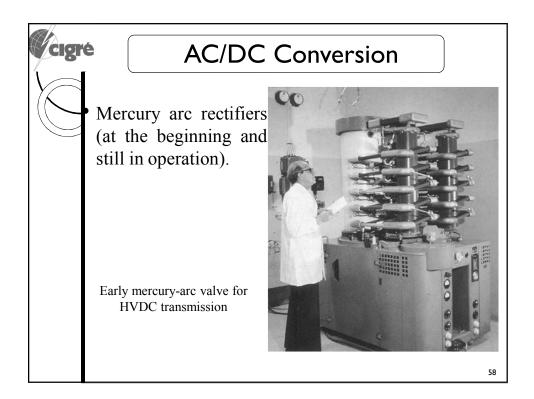


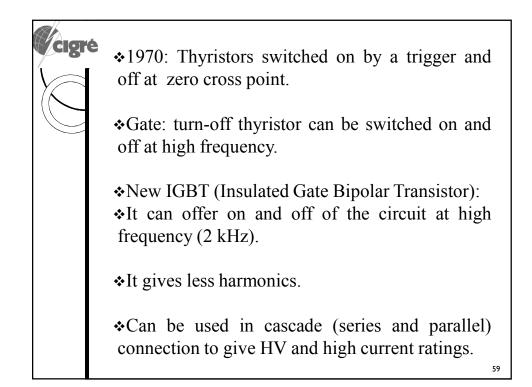


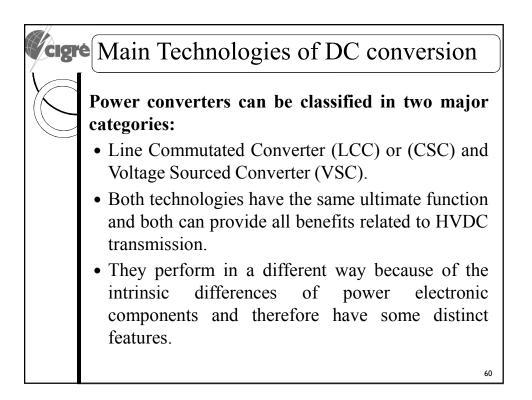


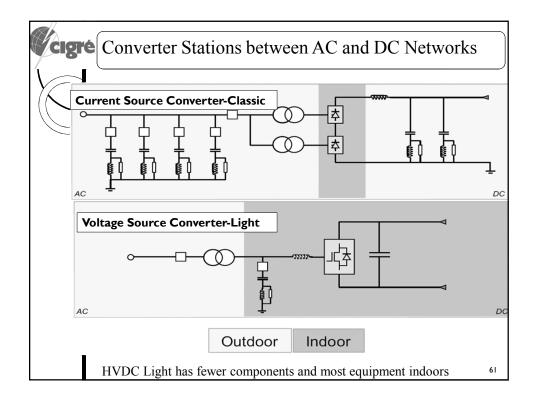


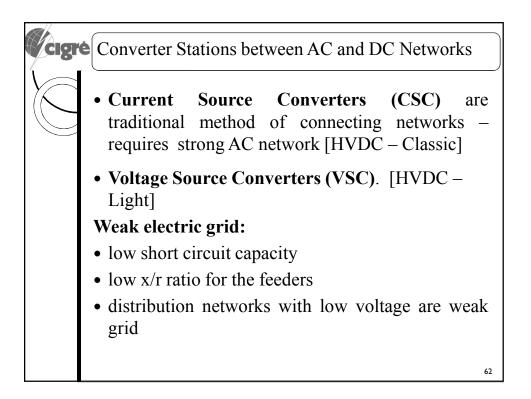


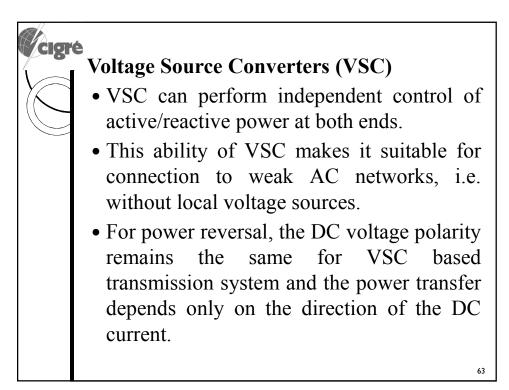


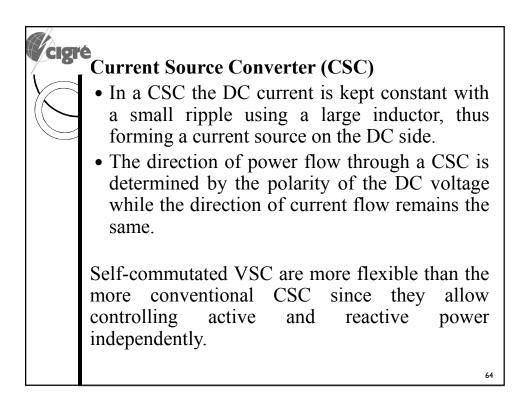


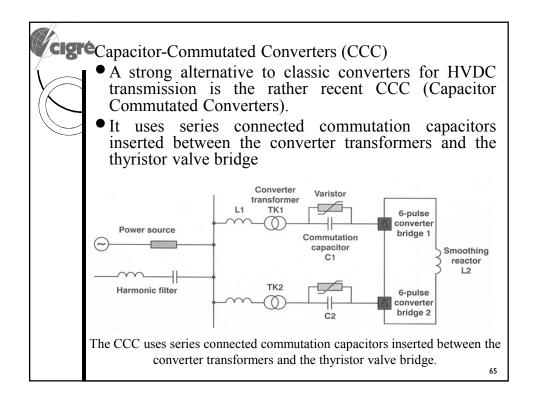


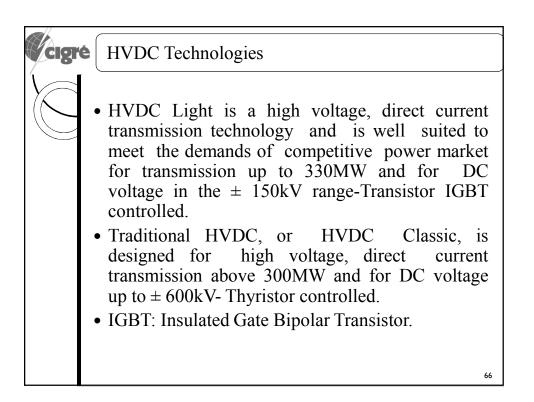


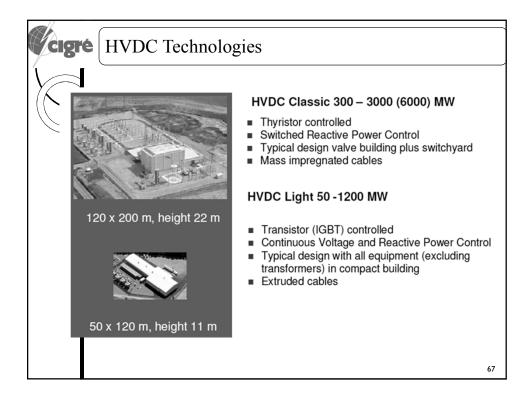


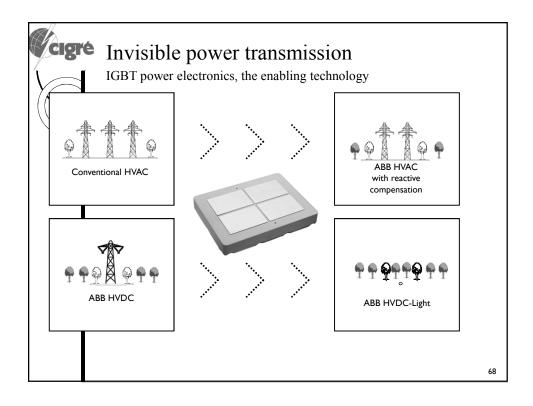




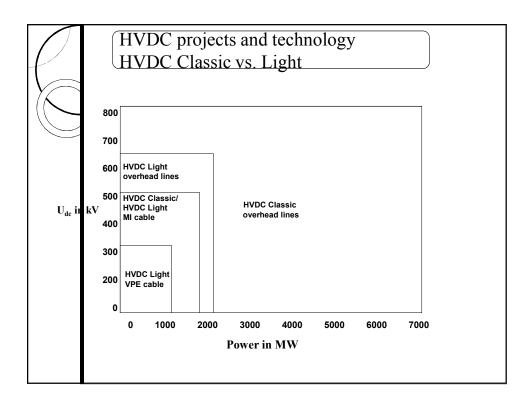


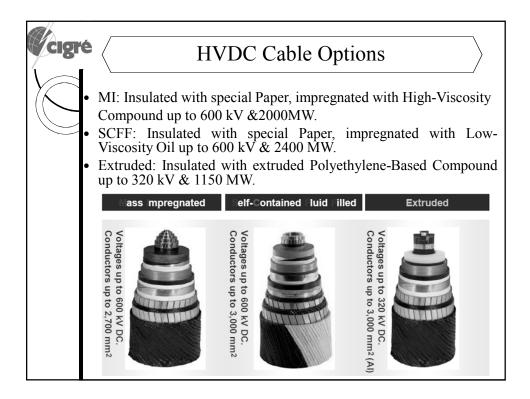


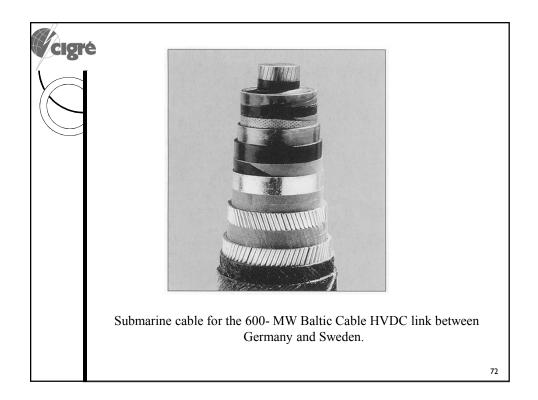


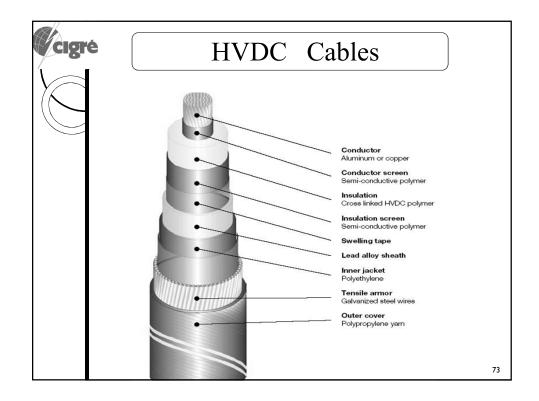


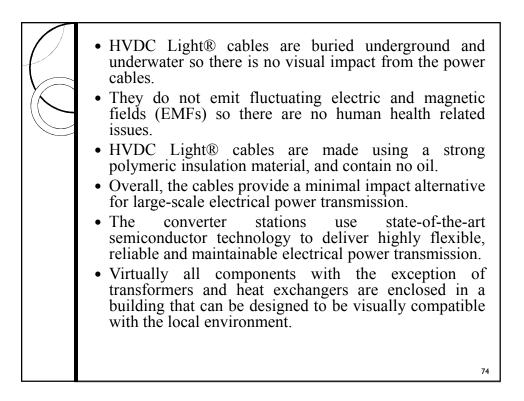
Comparison between HVDC Classic and HVDC Lig					
HVDC Classic	HVDC Light				
• Requires strong AC networks at connection points to control reactive power issues.	Does not require strong AC connection				
• Difficult to connect to weak Island /offshore generation grids.	• Relatively easy to connect to weak Island /offshore generation grids.				
• Most suited to single node links	Ideal for Multi-mode connection				
• Much experience of operation	Less operational experience				
• Higher power transmission compared to HVDC (Light) experimentation with higher voltages ~ 800 kV.	<ul> <li>Power transmission restricted to around 1000 MW per cable pair @ 300 kV.</li> </ul>				

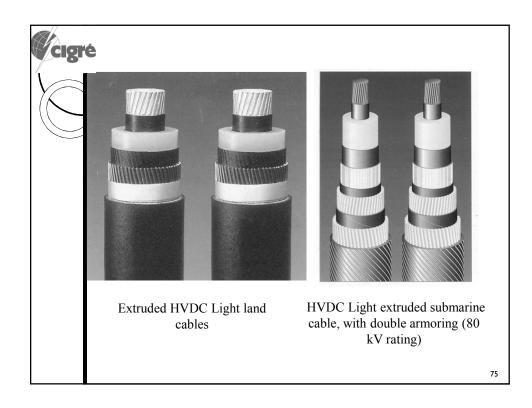


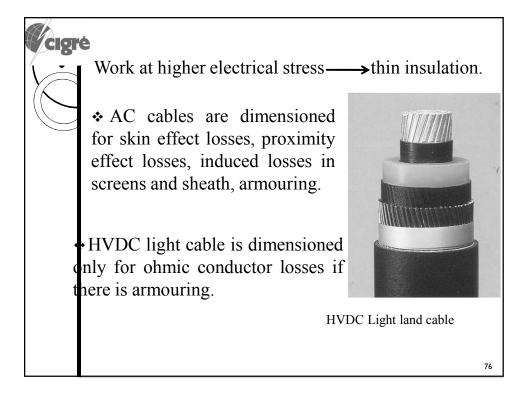


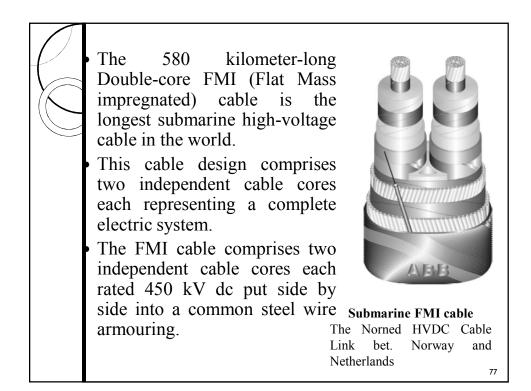


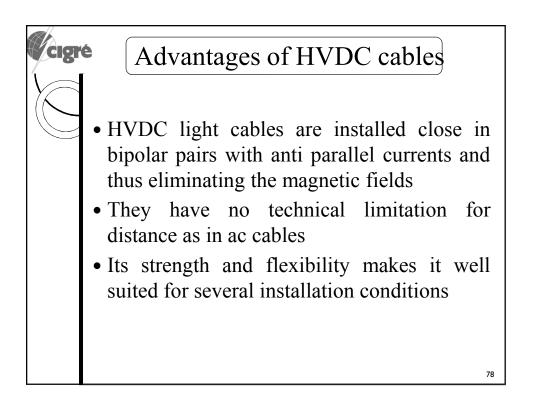


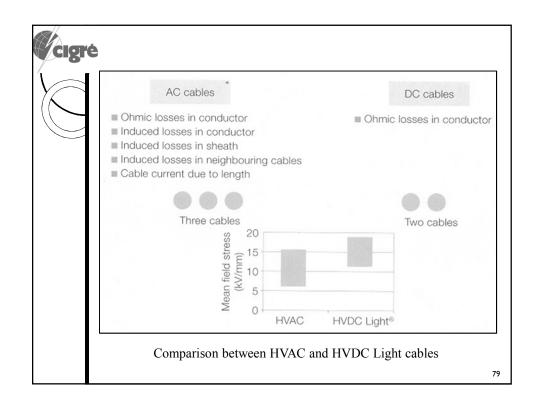


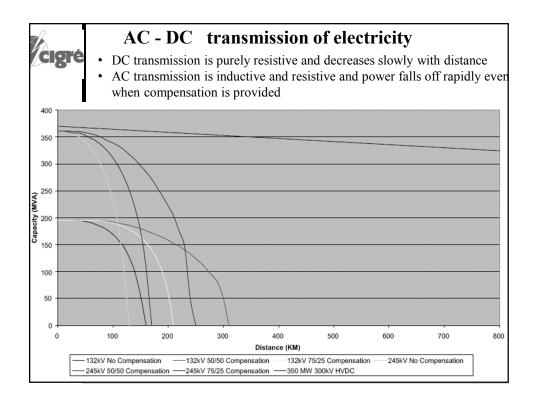


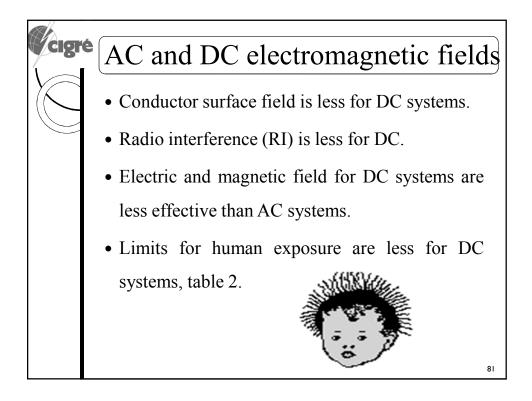












	w-frequency el	ectric and ma	gnetic fields
Frequency	HZ	50	$16\frac{2}{3}$
Electric field	kV/m	5	10
Magnetic field	μT	100	300
Limits fo	r DC electromag	gnetic fields (rms	values)
Electric field	kV/m	20	
Magnetic field	μT	21200	
<ul> <li>Effect of he</li> <li>Magnetic fivessels com</li> </ul>	elds genera		

