





Introducing Europacable

The voice of Europe's leading wire and cable manufacturers

- C World's largest cable makers providing global technology leadership
- C Highly specialized SMEs from across Europe
- **c** 80.000 people globally of which some 50% in Europe
- © Over € 27 billion turnover in Europe, € 70 billion globally
- > Product scope covers full range of energy & communication cables









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Our Members: Europe's Leading Wire & Cable Producers















































look at our cables





Associated Industry Partner





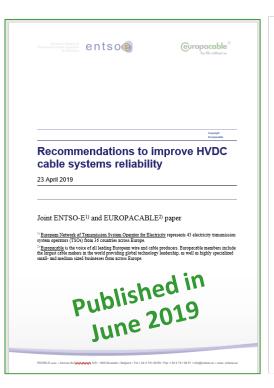
HVDC Cable technology: Why It is Relevant for Europe

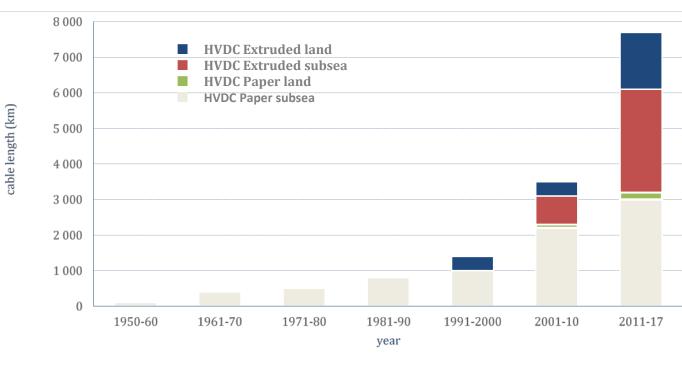
3 Core Messages:

- 1. HVDC EHV land and submarine cables are a <u>mature and reliable</u> transmission technology (in commercial operation since 1954)
- 2. Europe's leading cable manufacturers have <u>sufficient capacity</u> available to supply the projects currently in the pipeline >40,000 km but we need close dialogue with TSOs to ensure managing any shifts in roll out stemming from permitting or authorization delays
- 3. Europacable is <u>concerned</u> about potential Authorization of Lead as this would in a worst case <u>prevent the production, installation and repairs</u> of lead sheathed submarine cables in Europe as of 2024



HVDC Cable technology: 1. Mature & Reliable

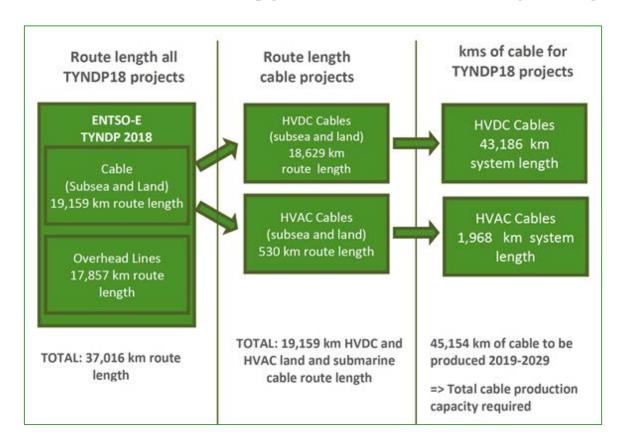




- > DC Cables installed and in operation > 14,500 km up to and incl 2017
- > Several large HVDC projects with long DC cable ongoing today



HVDC Cable technology: 2. Sufficient Capacity



- > Sufficient capacity available to supply the projects currently in the pipeline
- > BUT we need close dialogue with EC, ENTSO E, and TSOs to ensure managing any shifts in roll out stemming from permitting or authorization delays



HVDC Cable technology: 3. Potential Lead Authorisation

- **c** 06/18: Lead in REACH Candidate List of SVHC due to reprotoxic properties
- Spring 2020: ECHA expected to prioritize Lead for inclusion in Annex XIV
- c <u>If inclusion, European cable manufacturers no more able to produce lead sheathed submarine cables as of 2024 unless an exemption is granted or an authorisation is obtained</u>
- **c** Lead currently used as a sheathing to protect submarine cables from water penetration & corrosion in harsh offshore environment thus ensuring maximum reliability
- > Europacable believes that subjecting Lead to Authorisation for these applications is not warranted and that environ., economic & societal costs would outweigh benefits
- Europacable is **concerned** that <u>If</u> the inclusion of lead into Annex IX is confirmed, it means in practice that production, installation and repair of HVDC submarine cables in Europe is banned.





HVDC Cable technology: key to decarbonise Europe

HVDC Submarine cables

- Are, and will continue to be, a fundamental pillar for the ambitious program to strengthen the interconnected system
- Will facilitate the plans for a huge increase of renewable energy sources, e.g. offshore wind, towards the goal of 450 GW in 2050
- > They are a crucial technology to ensure Europe will be meeting its offshore renewable targets as well as interconnection ambitions





European Cable Industry: We're ready to deliver!

