

HVDC Transmission

Operation experience *and* technological development *for* wider applications *in* Italy *and* abroad

Workshop



May 29th, 2014 | Auditorium CESI, Via Rubattino 54 Milan | Italy

OVERVIEW

Five years after an AEIT workshop held in Rome in 2008, High Voltage Direct Current (HVDC) transmission draws an ever increasing interest of Transmission System Operators in Italy, Europe and abroad all over the world.

Major developments in technology make HVDC more reliable, easy to apply and operate and economically affordable.

Wider applications are now possible and a lot of projects are under development in the world, making HVDC even a more interesting business than before also for manufacturers and engineering companies.

The following topics are within the scope of Workshop:

- HVDC link operation experience.
- Outlook of HVDC projects: planned and at design and construction stage

- Last, ongoing, and next coming developments in HVDC technology (converter stations, cables, overhead lines).
- Market prospective.

Qualified representatives of TSO (Terna), manufacturers (ALSTOM, Prysmian Siemens, Toshiba), engineering consulting firm (CESI) and research centre (RSE) will present their experience and developments and their mind about future applications.

Most presentations will be in English.

Participation is expected of representatives of electrical and electro-mechanical industries, consultants, engineering companies, research centres etc. Discussions and request of clarifications will be welcome.

A course on HVDC technology, application and impact into the transmission network will be held next fall.



In cooperation with



Secretariat: AEIT | Ufficio Centrale

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PROGRAMME

9.30 - 10.00 Registration of participants

10.00 - 10.20 Welcome to participants and introduction of the Workshop

SESSION I

Chairman: Antonio Ardito

10.20 CESI • Increasing role of HVDC: some mid, long term scenarios" - *Bruno Cova*

10.40 CESI • HVDC technology and interaction with the AC network" - *Stefano Malgarotti*

11.00 TERNA • HVDC in Power System: operational experiences and perspectives - *Giorgio Maria Giannuzzi*

11.20 Coffee Break

11.40 TERNA • Synchronous condensers in multi in-feed HVDC systems - *Francesco Palone, Massimo Rebolini*

12.00 TERNA • MON.ITA Project - Main Features of the Montenegrin Design - *Pietro Antonelli, Claudio Marchiori*

12.20 RSE • Outcomes of Twenties Project
Francesco Careri, Diego Cirio

12.40 Discussion

13.20 Lunch break

SESSION II

14.00 TOSHIBA •
(intervento in corso di definizione)

14.20 PRYSMIAN • HVDC Cables: Underground and Submarine projects - *Luigi Colla*

14.40 SIEMENS • Latest Developments in Smart and Bulk Power Transmission Technology for DC Overlay Grids
Dietmar Retzmann

15.00 ALSTOM • ALSTOM Grid HVDC Projects & Future developments for DC Grids - *Rafael Bonchang*

15.20 RSE • Research and testing activities on dielectric behavior of HVDC OverHead Lines
Giovanni Pirovano, Andrea Villa

15.40 CESI • Upgrading of AC Overhead Transmission Lines to DC ones - *Alessandro Clerici*

16.00 Discussion

16.30 Conclusion

PARTICIPATION

For AEIT and CIGRE members, the fee for the participation in the workshop is € 50,00 (€ 20,00 for Young Members). For Non Members the registration fee is € 125,00.

Payment with wire transfer: **Allianz Bank - Financial Advisors**

IBAN IT64 N0358901600010570360672 or Credit Card (Visa, Cartasi, Mastercard, Eurocard).

You may register on line: you have to enter the Reserved Area at www.aeit.it using your credentials (for AEIT Members) or creating a new account.

REGISTRATION FORM (please fill in the form and sento via fax to n. +39 02 66989023 or by email to: manifestazioni@aeit.it)

Workshop: HVDV Transmission - Operation experience and technological development for wider applications in Italy and abroad - Milan, May 29th 2014

First Name Family Name

Society VAT Number

Address Post Code

City State

Phone Fax E-mail

AEIT Member: euro 50,00

AEIT Young Member: euro 20,00

CIGRE Member: euro 50,00

CIGRE Young Member: euro 20,00

Non Member: euro 125,00

PAYMENT

Wire transfer (please send copy)

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Card's Holder

N° CSV Expiration Date

Date Signature

According to D. Lgs 196/2003 I agree to be informed about AEIT Events

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