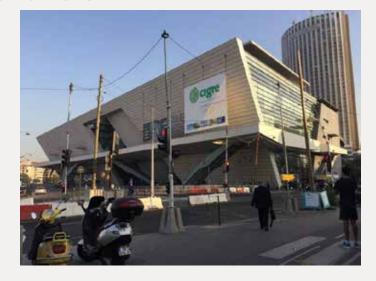


B1 Insulated cables



2018 Paris Session: B1 Insulated Cables

3,600 delegates among 9600 participants from 98 countries
16 tutorials sessions held with a total attendance of 3,600
Australia has a member on each of the 16 SCs
More than 300 exhibitors
CIGRE World Bank joint initiative for "Africa"
The World Bank has the money
CIGRE has the technical knowledge of what is needed



Opening Ceremony

Keynote Speaker Audrey ZIBELMAN

- **ü** CEO Australian Energy Market Operator AEMO
- **ü** Delivered vision of electricity markets & business models of the future
- **ü** Global look at the changes effecting the power networks around the world
- **ü** Australia is leading the world in adapting to these changes



ATC Seminar 2018

2018 Paris Session: B1 Insulated Cables

Study Committee Meeting

- **ü** 35 member countries and over 100 people in attendance
- **ü** Australia is seen as a valuable member
- **ü** Several AP B1 members acknowledged for their contributions
- **ü** SC B1 is one of the most interactive with other SCs



Tutorial Sessions

- **ü** All SCs held a Tutorial session on the outcome of one of their Working Groups
- **ü** The B1 Tutorial was attended by over 300 people
 - Fault location on land and submarine links
- **ü** With 3600 attending over the week period = average of 225
 - Insulated power cables continue to have a growing popularity as they interface with more and more HV assets



ATC Seminar 2018

2018 Paris Session: B1 Insulated Cables

Goals of the Study Committee

The main goals of SC B1 are the following

- **ü** to promote and to contribute effectively to the progress in insulated cable systems technology
- **ü** to facilitate the integration of insulated cable systems in electric power networks and in the environment covering the complete life cycle of cables
- **ü** to maintain its leading position in the field of power cables by providing unbiased and neutral information on all essential cable aspects
- **ü** to be recognised by the Electric Power Industry as a leading and reliable partner with competence in all engineering issues related to insulated cable systems, i.e. technical, economical, ecological and social
- **ü** to monitor and assess current trends in cable technology



2018 International Activities

- AORC Meeting
 - **ü**Active engagement with the AORC B1 Panel **ü**Providing a link with fast growing regional economies **ü**2017 meeting held in India
 - SC B1 chairman (Marco Morelli) attended for half a day
 - Change-over convenor Australia to Japan
 - **ü** 2019 meeting scheduled for March in Bali

JiCable 19

üScheduled for June 2019

üPremier world wide power cable conference





2018 AU/NZ Activities

- § AP B1 has strengthened its links with NZ, taking on 2 new Kiwi members
- § AP B1 now has 25 active members with four from over the ditch
- **§** CIGRE is now actively engaging with MV assets, with some AP B1 members engaged in MV only networks
- § The Network of AP B1 members has been active this past year
 - **ü** MV cable accessory forum due to termination and joint failures in the field
 - **ü** Planning for a cable seminar to present several tutorials
 - **ü** Planning a Cable Failure database for AU/NZ utilities
- **§** HV and EHV cable systems are growing in popularity
 - **ü** Expanding populations in capital cities of both countries
 - **ü** Redevelopment of city areas wanting to remove overhead infrastructure
 - **ü** The push for more renewable, distributed generation
 - **ü** Renewed pressure on aged infrastructure replacement
 - **ü** Increased use of GIS with cable entry options
- **§** With now no HV cable manufacturing capability in the region, forums such as CIGRE provide invaluable links to off-shore utilities and suppliers.



Technical Brochures

- TB 720 Fire issues for insulated cable installed in air
- TB 722 Recommendations for additional testing for submarine cables from 6 kV (Um = 7.2 kV) up to 60 kV (Um = 72.5 kV)
- TB 728 On-site Partial Discharge Assessment of HV and EHV cable systems
- TB xxx¹ Thermal monitoring of cable circuits and grid operators' use of dynamic rating systems
- TB xxy¹ Conductor Connectors: Mechanical and Electrical Test

Note 1: The central office has already been informed that SC B1 will propose a high number of reports to be published as TBs in the near future, but central office does not want to allocate TB numbers until the paper has been approved by the Chairman and the documents related to the TB (Executive Summary and Abstract) are provided. Once the number has been allocated, the brochure will be immediately made available on e-CIGRE

ON-SITE PARTIAL DISCHARGE ASSESSMENT
OF HV AND EHV CABLE SYSTEMS

WORKING GROUP B1.28

MAY 2018



Thank You

