



CIGRE Study Committee B2 – Overhead Lines

<http://b2.cigre.org/>

Contacts

If you have questions about Study Committee B2 please contact:

Chairman: Konstantin Papailiou
konstantin@papailiou.ch

Secretary: Michael Schmale
michael.schmale@tennet.eu

Communications officer: Dale Douglass
da.douglass@ieee.org

Strategic Goals of SC B2

The strategic goals of Study Committee B2 include:

- Increased Acceptance of Overhead lines
- Increased Utilization of existing OHL
- Improved Reliability and Availability of OHL

Meetings of Study Committee B2 and its Working Groups

The study committee meets every two years in Paris and, in alternate years, in a host country:

- In July, 2011, B2 met in Reykjavik, Iceland.
- In October, 2013, B2 will meet in New Zealand, hosted by the Joint New Zealand-Australian National Committee.

B2 Working Groups (WG) typically meet twice each year, usually in conjunction with the Study Committee or with other WGs associated with B2 Advisory Groups on:

- Electrical Effects
- Mechanical Effects
- Asset Management
- Structures & Foundations

Who Should Belong to SC B2?

Study Committee B2 is concerned with all technical aspects of overhead power lines over the full range of distribution and transmission voltages.

Recent Technical Brochures

20 technical brochures (TB) have been published in last 3 years. This is the greatest number of brochures produced by any CIGRE Study Committee.

TB 345 - AC Resistance Stranded Conductor

TB 353 - Increased Utilization of OHL

TB 365 - Power Arc Protection Devices

TB 385 - Risk Management Increased Util.

TB 395 - Tower & Foundation Interaction

TB 396 - Large Line Crossings



Figure 1 - Fjord Crossing Greenland - TB 396

TB 399 - Tower Testing Improvement

TB 410 - Wind speed-up due to Terrain

TB 416 - Innovative Structures

TB 420 - Asset Management Guidelines

TB 425 - Increasing Capacity of OHL

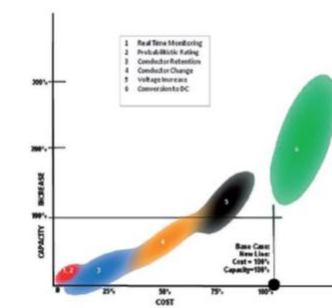


Figure 2 - Line Upgrading Alternatives - TB 425

TB 426 - Acceptance Tests of HTLS

TB 438 - Predict & Monitor Ice on OHL

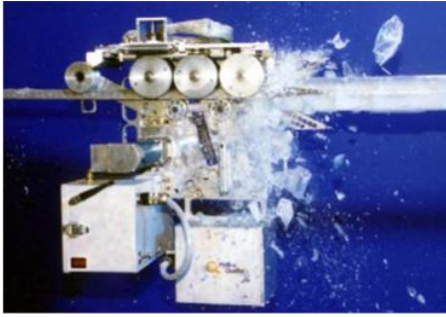


Figure 3 - Ice Removal - TB 438

TB 485 - Mitigation of Wind Damage OHL

TB 498 - Real-time Monitoring systems

Present WG Activities

Study Committee B2 is presently involved in a wide variety of WG activities which include the following:

WG B2.21 - Assessment Composite Insulators;
F. Schmuck (CH)

WG B2.22 - Mechanical Security (Anti-Cascade);
G. McClure (CA)

WG B2.23 - Foundations; N. Cuer (UK)

WG B2.24 - Qualification of HV and UHV OHL
supporters; L. Kempner (US)

WG B2.25 - Conductor Self-Damping;
U. Cosmai (IT)

WG B2.27 - Live Line Working; K. Lindsey (US)

WG B2.28 - Meteorological data for assessing
climate loads; S. Fikke (NO)

WG B2.34 - Impact of line configurations on
electric and magnetic fields;
P. Herrerias (ES)

WG B2.36 - Guide for Application of real time
monitoring systems on OHL;
R. Stephen (ZA)

WG B2.38 - High Surge Impedance Loading
OHL; O. Regis (BR)

WG B2.40 - External Clearances; R. Lake (NZ)

WG B2.41 - AC-DC Conversion OHL;
J. Lundquist (SW)

WG B2.42 - High Temp Operation of
Conductors; L. Custer (US)

WG B2.43 - Thermal Rating Calculations;
J. Iglesias (SP)

WG B2.44 - Coating for protection power
equipment in winter;
M. Farzaneh (CA)

WG B2.45 - Bushfire characteristics & potential
impacts on OHL; H. Vosloo (SA)

WG B2.46 - Wind induced motion on bundle
conductors; G. Diana (IT)

WG B2.47 - Remedial actions: aged fitting &
repair conductors; K. Halsan (NO)

WG B2.48 - Experience with mechanical
performance conductors;
B. Wareing (UK)

WG B2.49 - Safe design tension for elastomer
cushioned unit; D. Sunkle (US)

WG B2.50 - Safe handling of fittings &
conductors; P. Dulhunty (AU)

WG B2.51 - Method for optimized design of
OHL; R. Stephen (ZA)

WG B2.52 - Robotics in assessment and
maintenance of OHL;
A. Leblond (CA)

WG B2.53 - Management Guidelines for
outsourcing expertise;
K. Lindsey (US)

WG B2.54 - Management of risk (climatic
events, climate changes);
H. Hawes (AU)

WG B2.55 - Conductors for the Uprating of
Overhead Lines; D. Douglass (US)

WG B2.56 - Ground Potential Rise at OHL
Structure during Faults;
G. Watt (US)

The Customer Advisory and Strategic Advisory Groups within Study Committee B2 provide guidance to the chairman about the needs of our “customers” and the strategic directions we should follow.