

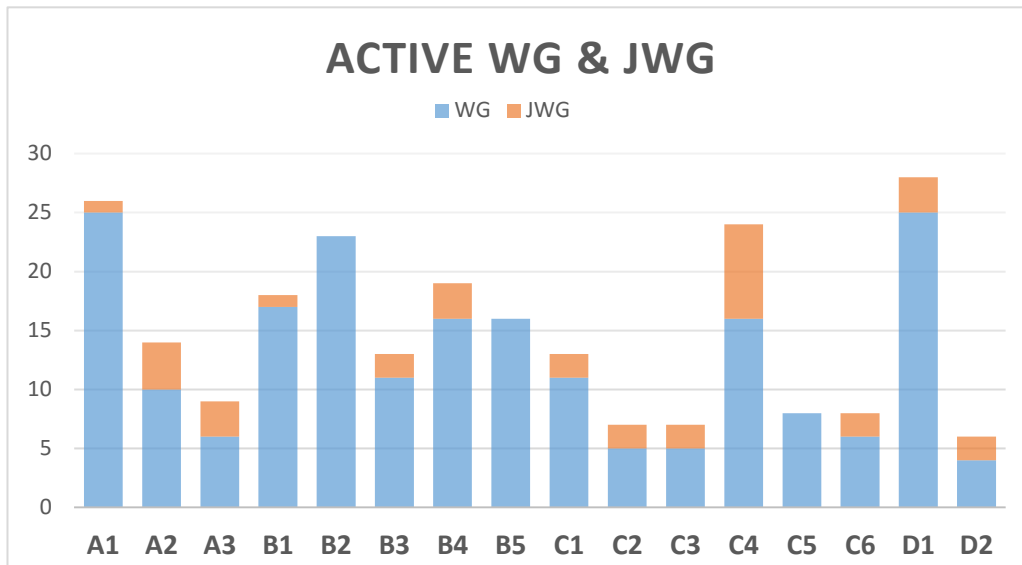
STUDY COMMITTEES

- A1 Rotating Electrical Machines**
- A2 Transformers**
- A3 High Voltage Equipment**
- B1 Insulated Cables**
- B2 Overhead lines**
- B3 Substations**
- B4 HVDC and Power Electronic**
- B5 Protection and Automation**
- C1 System Development and Economics**
- C2 System Operation and Control**
- C3 System Environmental Performance**
- C4 System Technical Performance**
- C5 Electricity Markets and Regulation**
- C6 Distribution Systems and Dispersed Generation**
- D1 Materials and Emerging Test Techniques**
- D2 Information Systems and Telecommunications**

Statistics of CIGRE Working Groups

239 active Working Groups (WG or JWG)

Last update : 17 December 2015

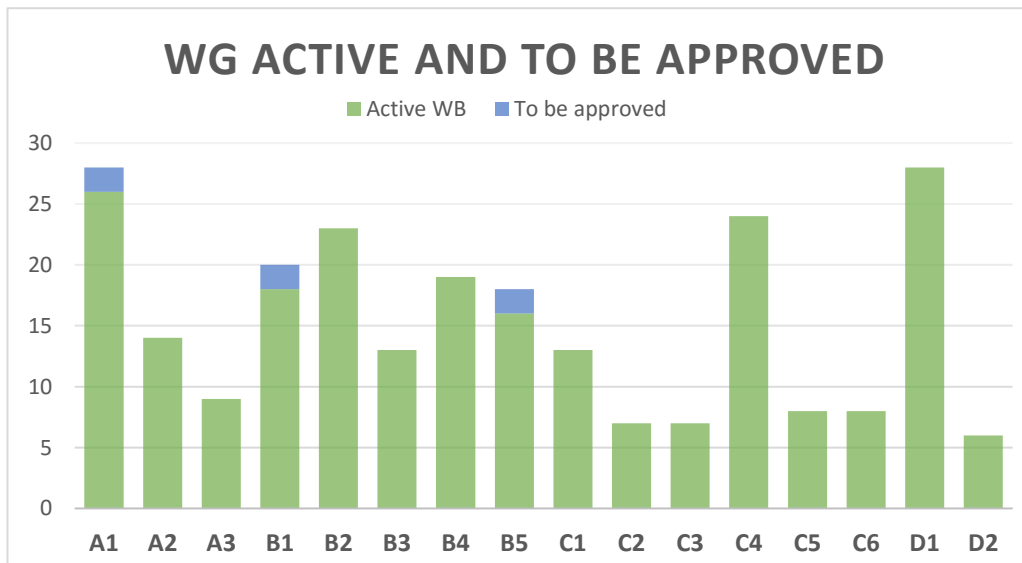


This document presents the updated lists of active Working Groups (WG) in each of the 16 Study Committees (SC).

Each Study Committee list gives:

- The type (Working Group or Joint Working Group)
- The title of the WG
- The name and country of the WG Convener
- The date of approval of the WG by the Technical Committee Chairman.

The detailed Terms of Reference (TOR) of the WG can be downloaded from the links provided on the page following each Study Committee list page.



CIGRE WORKING GROUPS LISTS

SC A1 Rotating Electrical Machines

Last update : 17 December 2015

	Type	Number	Title	Name of convener	Date of approval
1	WG	A1-56	Survey on Lap and Wave Windings and their Consequences on Maintenance and Performance	Richard PERERS (SE)	Not yet
2	WG	A1-55	Survey on Split Core Stators	Sun YUTIAN (CN)	Not yet
3	WG	A1-54	Impact of Flexible Operation on Large Motors	John DOYLE (IE)	27/09/2015
4	WG	A1-53	Guide on Design Requirements of Motors for Variable Speed Drive Application	A.K. GUPTA (IN)	04/06/2015
5	JWG	A1/C4-52	Wind generators and frequency-active power control of power systems	Nicholas MILLER (US)	15/04/2015
6	WG	A1-51	Monitoring, Reliability & Availability of Wind Generators	D. McMillan (GB)	06/02/2015
7	WG	A1-50	Factory Quality Assurance Testing Requirements for Turbo-generator Components.	Sergio RODRIGUEZ (ES)	09/01/2015
8	WG	A1-49	Magnetic core dimensioning limits in Hydro-Generators	Johnny Rocha (BR)	21/11/2014
9	WG	A1-48	Guidance on the Requirements for High Speed Balancing / Overspeed Testing of Turbine Generator Rotors Following Maintenance or Repair	Ben Adams (GB)	03/11/2014
10	WG	A1-47	Technological Feasibility Studies for Super (IE4) and Ultra (IE5) Premium Efficient Motors	Dohyun Kang (KR)	03/11/2014
11	WG	A1-46	Guide on Use of Premium Efficiency IE3 (IEC 60034-30) Motors & Determining Benefits of Green House Gas Emission Reduction	D-K. CHATURVEDI (IN)	24/08/2014
12	WG	A1-45	Guide for Determining the Health Index of Large Electric Motors	Phumlani Khumalo (ZA)	15/07/2014
13	WG	A1-44	Guideline on Testing of Turbo and Hydrogenerators	Dave Tarrant (ZA)	20/12/2013
14	WG	A1-43	State of the art of rotor temperature measurement	Ante Elez (HR)	21/11/2013
15	WG	A1-42	Influence of Key Requirements to Optimise the Value of Hydrogenerators	Eduardo Guerra (AR)	15/08/2013
16	WG	A1-41	Inventory of main maintenance interventions on turbo generators	Vincent Fernagut (FR)	16/07/2013
17	WG	A1-40	Survey on Hydro Generator Instrumentation and Monitoring	Mark Bruintjies (ZA)	02/01/2013
18	WG	A1-39	Application of dielectric dissipation factor measurements on new stator coils and bars	Howard Sedding (CA)	11/11/2012
19	WG	A1-37	Turbogenerator Stator Winding Support System Experience	Alberto Villarrubia (ES)	12/08/2012
20	WG	A1-36	Vibration and Stability Problems Met In New, Old and Refurbished Hydro Generators, Root Causes and Consequences	Jouni Ahtiainen (FI)	06/05/2012
21	WG	A1-35	Hydroelectric Generators Behaviour under Abnormal Operating Conditions	Edgar Robles (MX)	08/01/2012
22	WG	A1-34	Testing Voltage of Doubly-Fed Asynchronous Generator-Motor Rotor Windings for Pumped Storage System	Osamu Nagura (JP)	20/10/2011
23	WG	A1-33	Guide for the Proper Storage and Cleanliness of turbogenerators and their Components	Kevin Mayor (CH)	14/10/2011
24	WG	A1-32	A Survey on Small Hydro Power Plants Considering Technical and Strategic Aspects: Present Status and Future Outlooks	Alexander Gromow (BR)	09/08/2011
25	WG	A1-31	State of the art of stator winding supports in slot area and winding overhang of Hydro Generators	Franz Ramsauer (AT)	01/06/2011
26	WG	A1-29	Guide on New Generator-Grid Interaction Requirements	Luis Rouco (ES)	25/10/2010
27	WG	A1-24	Literature survey on diagnostics trends for wind generators for reliability improvement	Sameh Salem (US)	25/01/2010
28	WG	A1-5	Generator Economic Evaluation of Generator Refurbishment / Replacement	Sam Salem (US)	09/04/2008

30

32

CIGRE WORKING GROUPS LISTS

SC A1 Rotating Electrical Machines

Last update : 17 December 2015

Type	Number	Links to the Terms of Reference
1	WG A1-56	
2	WG A1-55	
3	WG A1-54	http://www.cigre.org/content/download/62918/2824699/version/1/file/TOR-WG+A1.54_Impact+of+Flexible+Operation+on+Large+Motors.pdf
4	WG A1-53	http://www.cigre.org/content/download/60662/2757240/version/1/file/TOR-WG+A1.53-Guide+on+Design+Requirements+of+Motors+for+Variable+Speed+Drive+Application.pdf
5	JWG A1/C4-52	http://www.cigre.org/content/download/59641/2728865/version/1/file/TOR-JWG+A1_C4.52_Wind+generators+and+frequency-active+power+control+of+power+systems.pdf
6	WG A1-51	http://www.cigre.org/content/download/58257/2694333/version/1/file/TOR-WG+A1.51_Monitoring%2C+Reliability+%26+Availability+of+Wind+Generators.pdf
7	WG A1-50	http://www.cigre.org/content/download/57731/2676714/version/1/file/TOR-WG+A1.50_Factory+Quality+Assurance+Testing+Requirements+for+Turbo-generator+Components.pdf
8	WG A1-49	http://www.cigre.org/content/download/56734/2648831/version/1/file/TOR-WG+A1.49_Magnetic+core+dimensioning+limits+in+Hydro-Generators.pdf
9	WG A1-48	http://www.cigre.org/content/download/56329/2638715/version/1/file/TOR-WG+A1.48_Guidance+on+the+Requirements+for+High+Speed+Balancing+Overspeed+Testing+of+Turbine+Generator+Rotors+Following+Maintenance+or+Repair.pdf
10	WG A1-47	http://www.cigre.org/content/download/56328/2638712/version/1/file/TOR-WG+A1.47_Technological+Feasibility+Studies+for+Super+and+Ultra+Premium+Efficient+Motors.pdf
11	WG A1-46	http://www.cigre.org/content/download/56209/2637198/version/1/file/TOR-WG+A1.46_Guide+on+Use+of+Premium+Efficiency+IE3+%28IEC+60034-30%29+Motors+%26+Determining+Benefits+of+Green+House+Gas+Emission+Reduction.pdf
12	WG A1-45	http://www.cigre.org/content/download/56204/2637183/version/1/file/TOR-WG+A1.45_Guide+for+Determining+the+Health+Index+of+Large+Electric+Motors.pdf
13	WG A1-44	http://www.cigre.org/content/download/53557/2554658/version/1/file/TOR-WG+A1.44_Guideline_on_Testing_of_Turbo_and_Hydrogenerators.pdf
14	WG A1-43	http://www.cigre.org/content/download/53556/2554655/version/1/file/TOR-WG+A1.43-State+of+the+art+of+rotor+temperature+measurement.pdf
15	WG A1-42	http://www.cigre.org/content/download/58590/2700504/version/1/file/TOR-WG+A1.42+Influence+of+Key+Requirements+to+Optimise+the+Value+of+Hydrogenerators.pdf
16	WG A1-41	http://www.cigre.org/content/download/58407/2699418/version/1/file/TOR-WG+A1.41+Inventory+of+main+maintenance+interventions+on+turbo+generators.pdf
17	WG A1-40	http://www.cigre.org/content/download/58421/2699460/version/1/file/TOR-WG+A1.40+Survey+on+Hydro+Generator+Instrumentation+and+Monitoring.pdf
18	WG A1-39	http://www.cigre.org/content/download/58431/2699490/version/1/file/TOR-WG+A1.39+Application+of+dielectric+dissipation+factor+measurements+on+new+stator.pdf
19	WG A1-37	http://www.cigre.org/content/download/58437/2699508/version/1/file/TOR-WG+A1.37+Turbogenerator+Stator+Winding+Support+System+Experience.pdf
20	WG A1-36	http://www.cigre.org/content/download/58591/2700507/version/1/file/TOR-WG+A1.36+Vibration+and+Stability+Problems+Met+In+New%2C+Old+and+Refurbished+Hydro+Generators.pdf
21	WG A1-35	http://www.cigre.org/content/download/58451/2699550/version/1/file/TOR-WG+A1.35+Hydroelectric+Generators+Behaviour+under+Abnormal+Operating+Conditions.pdf
22	WG A1-34	http://www.cigre.org/content/download/58455/2699562/version/1/file/TOR-WG+A1.34+Testing+Voltage+of+Doubly-Fed+Asynchronous+Generator-Motor+Rotor+Windings+for+Pumped+Storage+System.pdf
23	WG A1-33	http://www.cigre.org/content/download/58456/2699565/version/1/file/TOR-WG+A1.33+Guide+for+the+Proper+Storage+and+Cleanliness+of+Turbogenerators.pdf
24	WG A1-32	http://www.cigre.org/content/download/58460/2699577/version/1/file/TOR-WG+A1.32+A+Survey+on+Small+Hydro+Power+Plants+Considering+Technical+and+Strategic+Aspects.pdf
25	WG A1-31	http://www.cigre.org/content/download/58470/2699607/version/1/file/TOR-WG+A1.31+State+of+the+art+of+stator+winding+supports+in+slot+area+and+winding+overhang.pdf
26	WG A1-29	http://www.cigre.org/content/download/58500/2699697/version/1/file/TOR-WG+A1.29+Guide+on+New+Generator-Grid+Interaction+Requirements.pdf
27	WG A1-24	http://www.cigre.org/content/download/58527/2699778/version/1/file/TOR-WG+A1.24+Literature+survey+on+diagnostics+trends+for+wind+generators+for+reliability.pdf
28	WG A1-5	http://www.cigre.org/content/download/58559/2699874/version/1/file/TOR-WG+A1-05+Economic+Evaluation+of+Generator+Refurbishment+.pdf

30

32

CIGRE WORKING GROUPS LISTS

SC A2 Transformers

Last update : 17 December 2015

	Type	Number	Title	Name of convener	Date of approval
1	WG	A2-54	Power transformer audible sound requirements	Christoph Ploetner (DE)	09/10/2015
2	WG	A2-53	Objective interpretation methodology for the mechanical condition assessment of transformer windings using FRA	Patrick Picher (CA)	09/10/2015
3	JWG	A2/C4-52	High-frequency transformer models for non-standard waveforms	Bjørn Gustavsen (NO)	26/02/2014
4	JWG	A2/D1-51	Improvement to Partial Discharge Measurements for Factory and Site Acceptance Tests of Power Transformers	Sebastian Coenen (DE)	26/02/2014
5	WG	A2-50	Effect of the distributed energy sources and consequent induced reverse power flow (step up) on transmission and distribution transformers	Jean-Christophe Riboud (FR)	18/12/2012
6	WG	A2-49	Condition Assessment of Power Transformers	Peter Cole (AU)	18/12/2012
7	WG	A2-48	Technology and utilization of Oil Insulated High Voltage Shunt Reactors	Greg Hanna (IE)	18/12/2012
8	JWG	A2/D1-46	Field experience with transformer solid insulating ageing markers	Ronny Mertens (BE)	21/06/2011
9	WG	A2-45	Transformer failure investigation and post-mortem analysis	Marie-Claude Lessard (CA)	21/06/2011
10	WG	A2-43	Transformer bushings reliability (Um > or = 72,5 kV)	A Mikulecky (HR)	15/06/2010
11	JWG	A2/D1-41	HVDC transformer insulation – Oil conductivity	Prof Küchler (DE)	24/02/2010
12	WG	A2-42	Guide on Transformer Transportation	Asgeir MJELVE (NO)	24/11/2009
13	WG	A2-38	Transformer Thermal Modelling	J. Lapworth (GB)	13/02/2008
14	WG	A2-37	Transformer Reliability Survey	Stefan Tenbohlen (DE)	14/01/2008

16

18

20

22

24

26

28

30

32

CIGRE WORKING GROUPS LISTS

SC A2 Transformers

Last update : 17 December 2015

Type	Number	Links to the Terms of Reference
1	WG A2-54	http://www.cigre.org/content/download/63136/2827174/version/1/file/TOR-WG+A2.54_Power+transformer+audible+sound+requirements.pdf
2	WG A2-53	http://www.cigre.org/content/download/63135/2827171/version/1/file/TOR-WG+A2.53_Objective+interpretation+methodology+for+the+mechanical+condition+assessment+of+transformer+windings+using+FRA.pdf
3	JWG A2/C4-52	http://www.cigre.org/content/download/53553/2554646/version/1/file/TOR-JWG+A2_C4.52+High-frequency+transformer+models+for+non+standard+waveforms.pdf
4	JWG A2/D1-51	http://www.cigre.org/content/download/53554/2554649/version/1/file/TOR-JWG+A2_D1.51+-+Improvement+to+PD+measurements+for+Factory+and+Site+Acceptance+Test.pdf
5	WG A2-50	http://www.cigre.org/content/download/58424/2699469/version/1/file/TOR-WG+A2.50+Effect+of+the+distributed+energy+sources+and+consequent+induced.pdf
6	WG A2-49	http://www.cigre.org/content/download/58423/2699466/version/1/file/TOR-WG+A2.49+Condition+Assessment+of+Power+Transformers.pdf
7	WG A2-48	http://www.cigre.org/content/download/58422/2699463/version/1/file/TOR-WG+A2.48+Technology+and+utilization+of+Oil+Insulated+High+Voltage+Shunt+Reactors.pdf
8	JWG A2/D1-46	http://www.cigre.org/content/download/58464/2699589/version/1/file/TOR-JWG+A2-D1-46+Field+experience+with+transformer+solid+insulating+ageing+markers.pdf
9	WG A2-45	http://www.cigre.org/content/download/58465/2699592/version/1/file/TOR-WG+A2-45+Transformer+failure+investigation+and+post-mortem+analysis.pdf
10	WG A2-43	http://www.cigre.org/content/download/58514/2699739/version/1/file/TOR-WG+A2.43+Transformer+bushings+reliability+%28Um+%EF%82%B3+72%2C5+kV%29.pdf
11	JWG A2/D1-41	http://www.cigre.org/content/download/58523/2699772/version/1/file/TOR-WG+A2-D1.41+HVDC+transformer+insulation+%E2%80%93+Oil+conductivity.pdf
12	WG A2-42	http://www.cigre.org/content/download/58578/2700420/version/1/file/TOR-WG+A2-42+Guide+on+Transformer+Transportation.pdf
13	WG A2-38	http://www.cigre.org/content/download/58557/2699868/version/1/file/TOR-WG+A2-38+Transformer+Thermal+Modelling.pdf
14	WG A2-37	http://www.cigre.org/content/download/58558/2699871/version/1/file/TOR-WG+A2-37+Transformer+Reliability+Survey.pdf
16		
18		
20		
22		
24		
26		
28		
30		
32		

CIGRE WORKING GROUPS LISTS

SC A3 High Voltage Equipment

Last update : 17 December 2015

	Type	Number	Title	Name of convener	Date of approval
1	JWG	A3/B5/C4-37	System conditions for and probability of Out-of-Phase	Anton Janssen (NL)	09/05/2014
2	WG	A3-36	Application and Benchmark of Multi Physic Simulations and Engineering Tools for Temperature Rise Calculation	Martin Kriegel (CH)	09/05/2014
3	WG	A3-35	Guidelines and Best Practices for the Commissioning of Controlled Switching Projects	André Mercier (CA)	14/10/2013
4	JWG	A3/B4-34	Technical requirements and specifications of state-of-the-art DC switching equipment	Christian Franck (CH)	20/08/2013
5	WG	A3-33	Experience with equipment for Series / Shunt Compensation	Guofu LI (CN)	20/05/2013
6	JWG	A3-32/CIRED	Non-intrusive methods for condition assessment of distribution and transmission switchgears	Nenad Uzelac (US)	01/09/2012
7	WG	A3-31	Accuracy, Calibration & Interfacing of Instrument Transformers with Digital Outputs	Farnoosh Rahmatian (CA)	25/07/2011
8	WG	A3-30	Impact of overstressing of substation equipment	Antonio Carvalho (BR)	19/08/2010
9	WG	A3-29	Deterioration of ageing substation equipment and possible mitigation techniques	Ankur MAHESHWARI (IN)	19/07/2010
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					

CIGRE WORKING GROUPS LISTS

SC A3 High Voltage Equipment

Last update : 17 December 2015

Type	Number	Links to the Terms of Reference
1	JWG A3/B5/C4-37	http://www.cigre.org/content/download/56194/2637153/version/1/file/TOR-JWG+A3_B5_C4.37_System+conditions+for+and+probability+of+Out-of-Phase.pdf
2	WG A3-36	http://www.cigre.org/content/download/56193/2637150/version/1/file/TOR-WG+A3.36_Application+and+Benchmark+of+Multi+Physic+Simulations+and+Engineering+Tools+for+Temperature+Rise+Calculation.pdf
3	WG A3-35	http://www.cigre.org/content/download/53569/2555050/version/1/file/TOR-WG+A3.35_Guidelines+and+Best+Practices+for+the+Commissioning+and.pdf
4	JWG A3/B4-34	http://www.cigre.org/content/download/58583/2700435/version/1/file/TOR-JWG+A3-B4.34+Technical+requirements+and+specifications+of+state-of-the-art+DC+switching+equipment.pdf
5	WG A3-33	http://www.cigre.org/content/download/58411/2699430/version/1/file/TOR-WG+A3.33_Experience+with+equipment+for+Series++Shunt+Compensation.pdf
6	JWG A3-32/CIRED	http://www.cigre.org/content/download/58937/2709503/version/1/file/TOR-JWG+C2-C5-05_updated+2012+Development+and+Changes+in+the+Business+of++System+Operators++.pdf
7	WG A3-31	http://www.cigre.org/content/download/58461/2699580/version/1/file/TOR-WG+A3.31+Accuracy%2C+Calibration+%26+Interfacing+of+Instrument+Transformers+with+Digital.pdf
8	WG A3-30	http://www.cigre.org/content/download/58505/2699712/version/1/file/TOR-WG+A3.30+Impact+of+overstressing+of+substation+equipment.pdf
9	WG A3-29	http://www.cigre.org/content/download/58489/2699664/version/1/file/TOR-WG+A3.29_Deterioration+of+ageing+substation+equipment+and+possible+mitigation+techniques.pdf
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		

CIGRE WORKING GROUPS LISTS

SC B1 Insulated Cables

Last update : 17 December 2015

	Type	Number	Title	Name of convener	Date of approval
1	WG	B1-57	Update of service experience of HV underground and submarine cable systems	Søren Mikkelsen (DK)	Not yet
2	WG	B1-55	Recommendations for additional testing for submarine cables from 6 kV (Um = 7.2 kV) up to 60 kV (Um = 72.5 kV)	Marc JEROENSE (SE)	Not yet
3	WG	B1-54	Behaviour of cable systems under large disturbances (earthquake, storm, flood, fire, landslide, climate change)	Harry ORTON (CA)	12/11/2015
4	WG	B1-50	Sheath Voltage Limiters and Bonding Systems (Design, Testing, Operation and Monitoring)	Tiebin ZHAO (US)	06/02/2015
5	WG	B1-51	Fire issues for insulated cables installed in air	Paolo MAIOLI (IT)	06/02/2015
6	WG	B1-52	Fault Location on Land and Submarine Links (AC & DC)	Robert DONAGHY (IE)	06/02/2015
7	JWG	B1/B3-49	Standard design of a common, dry type plug-in interface for GIS and power cables up to 145 kV	Pierre Mirebeau (FR)	30/06/2014
8	WG	B1-48	Trenchless technologies for Underground Cables	Eugene Bergin (IE)	30/06/2014
9	WG	B1-47	Implementation of Long AC HV & EHV Cable Systems	Ken Barber (AU)	24/04/2014
10	WG	B1-46	Conductor Connectors: Mechanical and Electrical Tests	Milan Uzelac (US)	24/04/2014
11	WG	B1-45	Thermal monitoring of cable circuits and grid operators' use of dynamic rating systems	Blandine Hennuy (BE)	24/04/2014
12	WG	B1-44	Guidelines for safe work on cable systems under induced voltages or currents	Caroline Bradley (GB)	03/04/2013
13	WG	B1-41	Long term performance of soil and backfill of cable systems	Walter Zenger (US)	28/02/2013
14	WG	B1-38	After laying tests on AC and DC cable systems with new technologies	Mark Fenger (CA)	20/08/2012
15	WG	B1-39	On shore generation cable connections	Olivier MOREAU (FR)	23/05/2012
16	WG	B1-36	Life cycle assessment and environmental assessment of underground HV cable systems	Aude LAURENS (FR)	10/06/2012
17	WG	B1-37	Guide for the operation of fluid filled cable systems	Colin Peacock (AU)	14/08/2011
18	WG	B1-35	Guide for rating calculations of HV Cables	F.H. de Wild (NL)	01/06/2011
19	WG	B1-34	Mechanical forces in large cross section cable systems	Johannes Kausmanns (DE)	14/08/2011
20	WG	B1-28	On site Partial Discharges Assessment	Nigel Hampton (US)	03/11/2008

22

24

26

28

30

32

CIGRE WORKING GROUPS LISTS

SC B1 Insulated Cables

Last update : 17 December 2015

	Type	Number	Links to the Terms of Reference
1	WG	B1-57	
2	WG	B1-55	
3	WG	B1-54	http://www.cigre.org/content/download/63649/2839420/version/1/file/TOR-WG+B1.54_Behaviour+of+cable+systems+under+large+disturbances.pdf
4	WG	B1-50	http://www.cigre.org/content/download/58260/2694342/version/1/file/TOR-WG+B1.50_Sheath+Voltage+Limiters+and+Bonding+Systems+%28Design%2C+Testing%2C+Operation+and+Monitoring%29.pdf
5	WG	B1-51	http://www.cigre.org/content/download/58259/2694339/version/1/file/TOR-WG+B1.51_Fire+issues+for+insulated+cables+installed+in+air.pdf
6	WG	B1-52	http://www.cigre.org/content/download/58258/2694336/version/1/file/TOR-WG+B1.52_Fault+Location+on+Land+and+Submarine+Links+%28AC+%26+DC%29.pdf
7	JWG	B1/B3-49	http://www.cigre.org/content/download/56201/2637174/version/1/file/TOR-JWG+B1-B3.49+Standard+design+of+a+common%2C+dry+type+plug-in+interface+for+GIS+and+power+cables+up+to+145+kV+.pdf
8	WG	B1-48	http://www.cigre.org/content/download/56200/2637171/version/1/file/TOR-WG+B1.48+Trenchless+technologies+for+Underground+Cables.pdf
9	WG	B1-47	http://www.cigre.org/content/download/56189/2637138/version/1/file/TOR-WG+B1.47_Implementation+of+Long+AC+HV+%26+EHV+Cable+Systems.pdf
10	WG	B1-46	http://www.cigre.org/content/download/56188/2637135/version/1/file/TOR-WG+B1.46_Conductor+Connectors+Mechanical+and+Electrical+Tests.pdf
11	WG	B1-45	http://www.cigre.org/content/download/56186/2637129/version/1/file/TOR-WG+B1.45_Thermal+monitoring+of+cable+circuits+and+grid+operators%E2%80%99+use+of+dynamic+rating+systems.pdf
12	WG	B1-44	http://www.cigre.org/content/download/58628/2701635/version/1/file/TOR-WG+B1.44_Guidelines+for+safe+work+on+cable+systems+under+induced+voltages+or+currents.pdf
13	WG	B1-41	http://www.cigre.org/content/download/58416/2699445/version/1/file/TOR-WG+B1.41+Long+term+performance+of+soil+and+backfill+of+cable+systems.pdf
14	WG	B1-38	http://www.cigre.org/content/download/58599/2700531/version/1/file/TOR-WG+B1.38+After+laying+tests+on+AC+and+DC+cable+systems+with+new+technologies.pdf
15	WG	B1-39	http://www.cigre.org/content/download/58592/2700510/version/1/file/TOR-WG+B1.39+On+shore+generation+cable+connections.pdf
16	WG	B1-36	http://www.cigre.org/content/download/58440/2699517/version/1/file/TOR-WG+B1.36+Life+cycle+assessment+and+environmental+assessment+of+underground+HV+cable+systems.pdf
17	WG	B1-37	http://www.cigre.org/content/download/58457/2699568/version/1/file/TOR-WG+B1.37+Guide+for+the+operation+of+fluid+filled+cable+systems.pdf
18	WG	B1-35	http://www.cigre.org/content/download/58467/2699598/version/1/file/TOR-WG+B1.35+Guide+for+rating+calculations+of+HV+Cables.pdf
19	WG	B1-34	http://www.cigre.org/content/download/58458/2699571/version/1/file/TOR-WG+B1.34+Mechanical+forces+in+large+cross+section+cable+systems.pdf
20	WG	B1-28	http://www.cigre.org/content/download/58554/2699859/version/1/file/TOR-WG+B1-28+On-site+Partial+Discharge+Assessment+of+HV+and+EHV+cable+systems.pdf
22			
24			
26			
28			
30			
32			

CIGRE WORKING GROUPS LISTS

SC B2 Overhead lines

Last update : 17 December 2015

	Type	Number	Title	Name of convener	Date of approval
1	WG	B2-64	Inspection and Testing of Equipment and Training for Live-Line Work on Overhead Lines	Balint NEMETH (HU)	27/09/2015
2	WG	B2-65	Detection, Prevention and Repair of Sub-surface Corrosion in Overhead Line Supports, Anchors and Foundations	Pierre MARAIS (ZA)	27/09/2015
3	WG	B2-62	Design of Compact HVDC Overhead Lines	Javier Iglesias (ES)	24/04/2015
4	WG	B2-63	Compact AC Transmission Lines	Rob Stephen (ZA)	23/04/2015
5	WG	B2-61	Transmission Line Structures with Fiber Reinforced Polymer (FRP) Composites	Árni-Björn Jónasson (IS)	29/03/2015
6	WG	B2-60	Affordable Overhead Transmission Lines for Sub-Saharan Countries	Hugo VALENTE (PT)	04/03/2015
7	WG	B2-59	Forecasting Dynamic Line Ratings	Dale Douglass (US)	30/06/2014
8	WG	B2-58	Vibration Modeling of High Temperature Low Sag conductors – Self damping characterization	Giorgio Diana (IT)	12/05/2014
9	WG	B2-57	Survey of operational Composite Insulator Experience and Application Guide for Composite Insulators	Frank Schmuck (CH)	14/04/2014
10	WG	B2-56	Ground Potential Rise at Overhead AC Transmission Line Structures during Faults	George Watt (CA)	17/08/2012
11	WG	B2-55	Conductors for the Uprating of Existing Overhead Lines	Dale Douglass (US)	08/01/2012
12	WG	B2-53	Management guidelines for outsourcing OHTL technical expertise	Keith Lindsey (US)	17/05/2011
13	WG	B2-52	The use of robotics in assessment and maintenance of OHL	André LEBLAND (CA)	17/05/2011
14	WG	B2-51	Methods for the optimized design of transmission lines	Rob Stephen (ZA)	11/01/2011
15	WG	B2-48	Experience with the mechanical performance of novel conductors	Brian Wareing (GB)	15/12/2010
16	WG	B2-50	Safe handling of fittings and conductors	Peter Dulhunty (AU)	15/12/2010
17	WG	B2-49	Safe design tensions for conductors fitted with elastomer cushioned suspension units	Dave Sunkle (US)	15/12/2010
18	WG	B2-47	Remedial actions for aged fittings & repair of conductors	Kjell Halsan (NO)	15/12/2010
19	WG	B2-45	Bushfire Characteristics and the Potential Impacts on Overhead Line Performance	Hein Vosloo (ZA)	06/09/2010
20	WG	B2-42	Guide to Operation of Conventional Conductor Systems above 100oC	Len Custer (US)	30/03/2010
21	WG	B2-40	Preparatory studies for revision of IEC standard calculations of the electrical distances between live parts and obstacles for OHL	Robert Lake (NZ)	15/02/2008
22	WG	B2-28	Meteorological data for assessing climatic loads. Update of IEC TR 61774	Brian Wareing (GB)	30/03/2010
23	WG	B2-24	Qualification of HV and UHV OHL supports under static and dynamic loads	Asim Haldar (CA)	30/03/2010
24					
26					
28					
30					
32					

CIGRE WORKING GROUPS LISTS

SC B2 Overhead lines

Last update : 17 December 2015

Type	Number	Links to the Terms of Reference
1 WG	B2-64	http://www.cigre.org/content/download/62917/2824696/version/1/file/TOR-WG+B2.64+Inspection+and+Testing+of+Equipment+and+Training+for+Live-Line+Work+on+Overhead+Lines.pdf
2 WG	B2-65	http://www.cigre.org/content/download/62916/2824693/version/1/file/TOR-WG+B2.65+Detection%2C+Prevention+and+Repair+of+Sub-surface+Corrosion+in+Overhead+Line+Supports%2C+Anchors+and+Foundations.pdf
3 WG	B2-62	http://www.cigre.org/content/download/59916/2736224/version/1/file/TOR-WG+B2.62-Design+of+Compact+HVDC+Overhead+Lines.pdf
4 WG	B2-63	http://www.cigre.org/content/download/59851/2735145/version/1/file/TOR-WG+B2.63_Compact+AC+Transmission+Lines.pdf
5 WG	B2-61	http://www.cigre.org/content/download/59369/2721557/version/1/file/TOR-WG+B2.61-Transmission+Line+Structures+with+Fiber+Reinforced+Polymer+%28FRP%29+Composites.pdf
6 WG	B2-60	http://www.cigre.org/content/download/58848/2707358/version/1/file/TOR-WG+B2.60_Affordable+Overhead+Transmission+Lines+for+Sub-Saharan+Countries.pdf
7 WG	B2-59	http://www.cigre.org/content/download/56202/2637177/version/1/file/TOR-WG+B2.59+Forecasting+Dynamic+Line+Ratings.pdf
8 WG	B2-58	http://www.cigre.org/content/download/56196/2637159/version/1/file/TOR-WG+B2.58_Vibration+Modeling+of+High+Temperature+Low+Sag+conductors+%E2%80%93Self+damping+characterization.pdf
9 WG	B2-57	http://www.cigre.org/content/download/56187/2637132/version/1/file/TOR-WG+B2.57_Survey+of+operational+Composite+Insulator+Experience+and+Application+Guide+for+Composite+Insulators.pdf
10 WG	B2-56	http://www.cigre.org/content/download/58593/2700513/version/1/file/TOR-WG+B2.56+Increase+ROW+capacity+%26+use+of+OHL+and+its+consequence+on+the+technical+performance.pdf
11 WG	B2-55	http://www.cigre.org/content/download/58450/2699547/version/1/file/TOR-WG+B2.55+Conductors+for+the+Upgrading+of+Existing+Overhead+Lines.pdf
12 WG	B2-53	http://www.cigre.org/content/download/58471/2699610/version/1/file/TOR-WG+B2.53+Management+guidelines+for+outsourcing+OHTL+technical+expertise.pdf
13 WG	B2-52	http://www.cigre.org/content/download/58472/2699613/version/1/file/TOR-WG+B2.52+The+use+of+robotics+in+assessment+and+maintenance+of+OHL.pdf
14 WG	B2-51	http://www.cigre.org/content/download/58485/2699652/version/1/file/TOR-WG+B2.51+Methods+for+the+optimized+design+of+overhead+transmission+lines.pdf
15 WG	B2-48	http://www.cigre.org/content/download/58490/2699667/version/1/file/TOR-WG+B2.48+Experience+with+the+mechanical+performance+of+new+conductor+types.pdf
16 WG	B2-50	http://www.cigre.org/content/download/58494/2699679/version/1/file/TOR-WG+B2.50+Safe+handling+of+fittings+and+conductors.pdf
17 WG	B2-49	http://www.cigre.org/content/download/58495/2699682/version/1/file/TOR-WG+B2.49+Safe+design+tensions+for+conductors+fitted+with+elastomer+cushioned+suspension+units.pdf
18 WG	B2-47	http://www.cigre.org/content/download/58491/2699670/version/1/file/TOR-WG+B2.47+Remedial+actions+for+aged+fittings+%26+repair+of+conductors.pdf
19 WG	B2-45	http://www.cigre.org/content/download/58503/2699706/version/1/file/TOR-WG+B2.45+Bushfire+Characteristics+and+the+Potential+Impacts+on+OHL+performances.pdf
20 WG	B2-42	http://www.cigre.org/content/download/58522/2699763/version/1/file/TOR-WG+B2.42+Guide+to+Operation+of+Conventional+Conductor+Systems+above+100oC.pdf
21 WG	B2-40	http://www.cigre.org/content/download/58553/2699856/version/1/file/TOR-WG+B2.40+Preparatory+studies+for+revision+of+IEC+standard.pdf
22 WG	B2-28	http://www.cigre.org/content/download/58523/2699766/version/1/file/TOR-WG+B2.28+Meteorological+data+for+assessing+climatic+loads.+Update+of+IEC+TR+61774.pdf
23 WG	B2-24	http://www.cigre.org/content/download/58524/2699769/version/1/file/TOR-WG+B2.24+Qualification+of+HV+%26+UHV+OHL+supports+under+static+and+dynamic+loads+.pdf
24		
26		
28		
30		
32		

CIGRE WORKING GROUPS LISTS

SC B3 Substations

Last update : 17 December 2015

	Type	Number	Title	Name of convener	Date of approval
1	WG	B3-43	Contemporary solutions for low cost substations	Pererine TONKING (AU)	26/07/2015
2	WG	B3-44	Substation servicing and supervision using mobile devices and smart sensing	Nicolaie Fantana (DE)	17/03/2015
3	WG	B3-42	Reliability analysis and design guidelines for LV AC/DC Auxiliary Systems	Jianbin Fan (CN)	10/12/2014
4	WG	B3-41	Mobile Substations Incorporating HV GIS – Design Aspects	Paul Fletcher (GB)	11/08/2014
5	WG	B3-40	SF6 Gas Measurement Guide	Eamonn Duggan (IE)	17/06/2014
6	WG	B3-39	Impact of NCIT applications on HV Gas Insulated Switchgear	Karsten Pohlink (CH)	24/04/2014
7	WG	B3-38	Management of risk in Substations	Gérald Buchs (CH)	09/02/2014
8	WG	B3-37	Internal arc effects in medium voltage switchgear (1-52kV) - mitigation techniques	Didier Fulchiron (FR)	26/07/2013
9	JWG	B3-35/CIRE	Substation earthing system design optimisation through the application of quantified risk analysis	Bill CARMAN (AU)	01/09/2012
10	WG	B3-24	Benefits of PD diagnosis on GIS condition assessment	Mark Reuter (DE)	16/06/2012
11	JWG	B3/B1-27	Factors for investment decision GIL vs. Cables for AC Transmission	Hermann KOCH (DE)	29/03/2011
12	WG	B3-34	Expected impact of future grid concept on substation management	Johan SMIT (NL)	03/05/2011
13	WG	B3-32	Saving through Optimized Maintenance of Air Insulated Substations	Toly MESSINGER (CA)	09/02/2011
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					

CIGRE WORKING GROUPS LISTS

SC B3 Substations

Last update : 17 December 2015

Type	Number	Links to the Terms of Reference
1	WG B3-43	http://www.cigre.org/content/download/61543/2784329/version/1/file/TOR-WG+B3.43+Contemporary+solutions+for+low+cost+substations.pdf
2	WG B3-44	http://www.cigre.org/content/download/59155/2715383/version/1/file/TOR-WG+B3.44+Substation+servicing+and+supervision+using+mobile+devices+and+smart+sensing.pdf
3	WG B3-42	http://www.cigre.org/content/download/57312/2665500/version/1/file/TOR-WG+B3.42+Reliability+analysis+and+design+guidelines+for+LV+ACDC+Auxiliary+Systems.pdf
4	WG B3-41	http://www.cigre.org/content/download/56208/2637195/version/1/file/TOR-WG+B3.41+Mobile+Substations+Incorporating+HV+GIS+%E2%80%93+Design+Aspects.pdf
5	WG B3-40	http://www.cigre.org/content/download/56199/2637168/version/1/file/TOR-WG+B3.40+SF6+Gas+Measurement+Guide.pdf
6	WG B3-39	http://www.cigre.org/content/download/56191/2637144/version/1/file/TOR-WG+B3.39_impact+of+NCIT+applications+on+HV+Gas+Insulated+Switchgear.pdf
7	WG B3-38	http://www.cigre.org/content/download/53550/2554637/version/1/file/TOR-WG+B3.38+Management+of+risk+in+Substations.pdf
8	WG B3-37	http://www.cigre.org/content/download/58406/2699415/version/1/file/TOR-WG+B3+37_Internal+arc+effects+in+medium+voltage+switchgear+%281-52kV%29+-+mitigation.pdf
9	JWG B3-35/CIRE	http://www.cigre.org/content/download/58937/2709503/version/1/file/TOR-JWG+C2-C5-05_updated+2012+Development+and+Changes+in+the+Business+of++System+Operators++.pdf
10	WG B3-24	http://www.cigre.org/content/download/58594/2700516/version/1/file/TOR-WG+B3.24+Benefits+of+PD+diagnosis+on+GIS+condition+assessment.pdf
11	JWG B3/B1-27	http://www.cigre.org/content/download/58462/2699583/version/1/file/TOR-JWG+B3-B1-27+Factors+for+investment+decision+GIL+vs.+Cables+for+AC+Transmission.pdf
12	WG B3-34	http://www.cigre.org/content/download/58473/2699616/version/1/file/TOR-WG+B3-34+Expected+impact+of+future+grid+concept+on+substation+management.pdf
13	WG B3-32	http://www.cigre.org/content/download/58480/2699637/version/1/file/TOR-WG+B3-32+Saving+through+Optimized+Maintenance+of+Air+Insulated+Substations.pdf
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		

CIGRE WORKING GROUPS LISTS

SC B4 HVDC and Power Electronic

Last update : 17 December 2015

	Type	Number	Title	Name of convener	Date of approval
1	WG	B4-72	DC grid benchmark models for system studies	Ting AN (CN)	12/11/2015
2	JWG	B4/B1/C4-73	Surge and extended overvoltage testing of HVDC Cable Systems	Markus SALTZER (SE)	08/12/2015
3	WG	B4-71	Application guide for the insulation coordination of Voltage Source Converter HVDC (VSC HVDC) stations	Mojtaba Mohaddes (CA)	10/02/2015
4	WG	B4-70	Guide for Electromagnetic Transient Studies involving VSC converters	Sébastien Dennetière (FR)	16/10/2014
5	WG	B4-69	Minimizing loss of transmitted power by VSC during overhead line fault	Dennis WOODFORD (CA)	30/09/2014
6	WG	B4-68	Revision of Technical Brochure 92 – DC Harmonics and Filtering	Nigel SHORE (GB)	21/07/2014
7	WG	B4-67	Harmonic aspects of VSC HVDC, and appropriate harmonic limits	Nigel SHORE (GB)	21/07/2014
8	WG	B4-66	Implications for harmonics and filtering of the staggered installation of HVDC converter stations in proximate locations	Fernando CATTAN (BR)	21/07/2014
9	JWG	B4/C1-65	Recommended voltages for HVDC grids	Alexandre PARISOT (FR)	10/02/2013
10	WG	B4-64	Impact on AC System Characteristics on the Performance of HVDC schemes	Carl BARKER (GB)	25/02/2013
11	WG	B4-63	Commissioning of VSC HVDC Schemes	Les Brand (AU)	10/02/2013
12	WG	B4-62	Connection of Wind Farms to Weak AC networks	Nalin Pahalawaththa (AU)	10/02/2013
13	WG	B4-61	General Guidelines for HVDC Electrode Design	Jingxuan Hu (CA)	01/06/2011
14	WG	B4-60	Designing HVDC Grids for Optimal Reliability and Availability performance	Norman McLEOD (GB)	23/02/2011
15	JWG	B4/B5-59	Control and Protection of HVDC Grids	Kees KOREMAN (NL)	23/02/2011
16	WG	B4-58	Load flow control and direct voltage control in a meshed HVDC Grid	Kerstin LINDEN (SE)	23/02/2011
17	WG	B4-56	Guidelines for the preparation of "connection agreements" or "Grid Codes" for HVDC grids	Kamran SHARIFABADI (NO)	23/02/2011
18	WG	B4-54	Guidelines For Life Extension of Existing HVDC Systems	R Sasmal (IN)	08/11/2010
19	WG	B4-53	Guidelines for procurement and testing of STATCOMs	Dan Kell (CA)	24/10/2010
20					
22					
24					
26					
28					
30					
32					

CIGRE WORKING GROUPS LISTS

SC B4 HVDC and Power Electronic

Last update : 17 December 2015

Type	Number	Links to the Terms of Reference
1	WG B4-72	
2	JWG B4/B1/C4-73	http://www.cigre.org/content/download/64493/3070335/version/1/file/TOR-JWG+B4_B1_C4.73_Surge+and+extended+overvoltage+testing+of+HVDC+Cable+Systems.pdf
3	WG B4-71	http://www.cigre.org/content/download/58291/2695875/version/1/file/TOR-WG+B4.71_Application+guide+for+the+insulation+coordination+of+Voltage+Source+Converter+HVDC+%28VSC+HVDC%29+stations.pdf
4	WG B4-70	http://www.cigre.org/content/download/56214/2637213/version/1/file/TOR-WG+B4.70+Guide+for+EEMT+studies+with+VSC.pdf
5	WG B4-69	http://www.cigre.org/content/download/56212/2637207/version/1/file/TOR-WG+B4.69+Minimizing+loss+of+transmitted+power+by+VSC+during+overhead+line+fault.pdf
6	WG B4-68	http://www.cigre.org/content/download/56205/2637186/version/1/file/TOR-WG+B4.68+-+DC+harmonics+and+filters.pdf
7	WG B4-67	http://www.cigre.org/content/download/56207/2637192/version/1/file/TOR-WG+B4.67+-+Harmonic+aspects+of+VSC+HVDC+and+appropriate+harmonic+limits.pdf
8	WG B4-66	http://www.cigre.org/content/download/56206/2637189/version/1/file/TOR-WG+B4.66+-+Harmonics+and+filtering+for+HVDC+in+staggered+installations.pdf
9	JWG B4/C1-65	http://www.cigre.org/content/download/58402/2699403/version/1/file/TOR-JWG+B4_C1.65+Recommended+voltages+for+HVDC+grids.pdf
10	WG B4-64	http://www.cigre.org/content/download/58417/2699448/version/1/file/TOR-WG+B4.64+Impact+of+AC+System+Characteristics+on+the+Performance.pdf
11	WG B4-63	http://www.cigre.org/content/download/58419/2699454/version/1/file/TOR-WG+B4.63+Commissioning+of+VSC+HVDC+Schemes.pdf
12	WG B4-62	http://www.cigre.org/content/download/58418/2699451/version/1/file/TOR-WG+B4.62+Connection+of+Wind+Farms+to+Weak+AC+networks.pdf
13	WG B4-61	http://www.cigre.org/content/download/58469/2699604/version/1/file/TOR-WG+B4.61+General+Guidelines+for+HVDC+Electrode+Design.pdf
14	WG B4-60	http://www.cigre.org/content/download/58475/2699622/version/1/file/TOR-WG+B4.60+Designing+HVDC+Grids+for+Optimal+Reliability+and+Availability+performance.pdf
15	JWG B4/B5-59	http://www.cigre.org/content/download/58476/2699625/version/1/file/TOR-JWG+B4-B5-59+Control+and+Protection+of+HVDC+Grids.pdf
16	WG B4-58	http://www.cigre.org/content/download/58477/2699628/version/1/file/TOR-WG+B4-58+Devices+for+load+flow+control+and+methodologies+for+direct+voltage+control+in+a+meshed+HVDC+Grid.pdf
17	WG B4-56	http://www.cigre.org/content/download/58479/2699634/version/1/file/TOR-WG+B4-56+Guidelines+for+the+preparation+of+%E2%80%9Cconnection+agreements%E2%80%9D+or+%E2%80%9CGrid+Codes%E2%80%9D+for+HVDC+grids.pdf
18	WG B4-54	http://www.cigre.org/content/download/58498/2699691/version/1/file/TOR-WG+B4-54+Guidelines+For+Life+Extension+of+Existing+HVDC+Systems.pdf
19	WG B4-53	http://www.cigre.org/content/download/58501/2699700/version/1/file/TOR-WG+B4-53+Guidelines+for+procurement+and+testing+of+STATCOMs.pdf
20		
22		
24		
26		
28		
30		
32		

CIGRE WORKING GROUPS LISTS

SC B5 Protection and Automation

Last update : 17 December 2015

	Type	Number	Title	Name of convener	Date of approval
1	WG	B5-58	Faster protection and network automation systems: implications and requirements	Andrei PODSHIVALIN (RU)	Not yet
2	WG	B5-57	New challenges for frequency protection	Diarmuid McDONNELL (IE)	Not yet
3	WG	B5-55	Application of Travelling Wave Technology for Protection and Automation	Peter Crossley (GB)	08/01/2015
4	WG	B5-56	Optimization of Protection Automation and Control Systems	Klaus-Peter Brand (CH)	08/01/2015
5	WG	B5-54	Protection and Automation Issues of Islanded Systems during System Restoration/Black Start	Nirmal Nair (NZ)	09/12/2013
6	WG	B5-53	Test Strategy for PAC functions in a full digital substations based on IEC 61850 applications	Alex Apostolov (US)	09/12/2013
7	WG	B5-52	Analysis and comparison of fault location systems in Substation Automation Systems	Sepehr Sefidpour (SE)	19/11/2013
8	WG	B5-51	Requirements and Use of Remotely Accessed Information for SAS Maintenance and Operation	Li Li (CN)	11/11/2012
9	WG	B5-50	IEC 61850 Based Substation Automation Systems – Users Expectations and Stakeholders Interactions	Grégory Huon (BE)	11/11/2012
10	WG	B5-48	Protection for developing network with limited fault current capability of generation	Bin Su (CN)	04/03/2012
11	WG	B5-49	Protection & Automation of Shunt Capacitors	Simon Chano (CA)	10/02/2012
12	WG	B5-47	Network Protection Performance Audits	Peter Watson (GB)	24/01/2012
13	WG	B5-42	Experience concerning availability and reliability of DSAS	Massimo PETRINI (IT)	03/01/2011
14	WG	B5-45	Acceptance, Commissioning and Field Testing Techniques for Protection and Automation Systems	Eric Cahuet (FR)	03/01/2011
15	WG	B5-44	Protection Schemes for Special Transformers	Zoran Gajic (SE)	11/01/2011
16	WG	B5-41	Investigation of possibilities to improve metering systems for billing purposes in substations	Harrie Lenting (NL)	01/04/2010
17	WG	B5-24	Protection Requirements on Transient Response of Voltage and Current Digital Acquisition Chain	Janez Zakonjsek (SI)	04/12/2008
18	WG	B5-14	Wide Area Protection & Control Technologies	V Terzija (GB)	19/12/2007

20

22

24

26

28

30

32

CIGRE WORKING GROUPS LISTS

SC B5 Protection and Automation

Last update : 17 December 2015

Type	Number	Links to the Terms of Reference
1	WG B5-58	
2	WG B5-57	
3	WG B5-55	http://www.cigre.org/content/download/57729/2676708/version/1/file/TOR-WG+B5.55_Application+of+Travelling+Wave+Technology+for+Protection+and+Automation.pdf
4	WG B5-56	http://www.cigre.org/content/download/57728/2676705/version/1/file/TOR-WG+B5.56_Optimization+of+Protection+Automation+and+Control+Systems.pdf
5	WG B5-54	http://www.cigre.org/content/download/53559/2554664/version/1/file/TOR-WG+B5.54_Protection+and+Automation+Issues+of+Islanded+Systems.pdf
6	WG B5-53	http://www.cigre.org/content/download/53558/2554661/version/1/file/TOR-WG+B5.53_Test+Strategy+for+PAC+on+IEC61850.pdf
7	WG B5-52	http://www.cigre.org/content/download/53571/2555145/version/1/file/TOR-WG+B5.52_Analysis+and+comparison+of+fault+location+systems+in+Substation.pdf
8	WG B5-51	http://www.cigre.org/content/download/58430/2699487/version/1/file/TOR-WG+B5.51_Requirements+and+Use+of+Remotely+Accessed+Information+for+SAS.pdf
9	WG B5-50	http://www.cigre.org/content/download/58429/2699484/version/1/file/TOR-WG+B5.50_IEC+61850+Based+Substation+Automation+Systems+%E2%80%93+Users.pdf
10	WG B5-48	http://www.cigre.org/content/download/58443/2699526/version/1/file/TOR-WG+B5-48+Protection+for+developing+network+with+limited+fault+current+capability+of+generation.pdf
11	WG B5-49	http://www.cigre.org/content/download/58446/2699535/version/1/file/TOR-WG+B5-49+Protection+%26+Automation+of+Shunt+Capacitors.pdf
12	WG B5-47	http://www.cigre.org/content/download/58448/2699541/version/1/file/TOR-WG+B5-47+Network+Protection+Performance+Audits.pdf
13	WG B5-42	http://www.cigre.org/content/download/58487/2699658/version/1/file/TOR-WG+B5-42+Experience+concerning+availability+and+reliability+of+DSAS.pdf
14	WG B5-45	http://www.cigre.org/content/download/58486/2699655/version/1/file/TOR-WG+B5-45+Acceptance%2C+Commissioning+and+Field+Testing+Techniques+for+Protection+and+Automation+Systems.pdf
15	WG B5-44	http://www.cigre.org/content/download/58484/2699649/version/1/file/TOR-WG+B5-44+Protection+Schemes+for+Special+Transformers.pdf
16	WG B5-41	http://www.cigre.org/content/download/58520/2699757/version/1/file/TOR-WG+B5-41+Investigation+of+possibilities+to+improve+metering+systems+for+billing+purposes+in+substations.pdf
17	WG B5-24	http://www.cigre.org/content/download/58534/2699799/version/1/file/TOR-WG+B5-24+Protection+Requirements+on+Transient+Response+of+Voltage+and+Current+Digital+Acquisition+Chain.pdf
18	WG B5-14	http://www.cigre.org/content/download/58548/2699841/version/1/file/TOR-WG+B5-14+Wide+Area+Protection+%26+Control+Technologies.pdf
20		
22		
24		
26		
28		
30		
32		

CIGRE WORKING GROUPS LISTS

SC C1 System Development and Economics

Last update : 17 December 2015

	Type	Number	Title	Name of convener	Date of approval
1	WG	C1-34	ISO Series 55000 Standards: General Process Assessment Steps and Information Requirements for Utilities	Boudewijn NEIJENS (NL)	09/09/2015
2	WG	C1-33	Interface & Allocation Issues in multi-party and/or cross-jurisdiction power infrastructures projects	Antonio ILICETO (IT)	23/04/2015
3	WG	C1-30	Technical risks and solutions from periodic, large surpluses or deficits of available renewable generation in a particular area	Christian Schorn (DE)	23/04/2015
4	JWG	C1/C3-31	Including stakeholders in the investment planning process	Alan CROES (NL)	02/03/2015
5	WG	C1-32	Establishing best practice approaches for developing credible electricity demand and energy forecasts for network planning	Graeme Ancell (NZ)	24/04/2014
6	JWG	C1-29/CIRED	Planning criteria for Transmission Network in presence of active distribution systems	John Wilson (GB)	24/07/2013
7	WG	C1-27	Definition of reliability in light of new developments in various devices and services which offer customers and system operators new levels of flexibility	Jeff Palermo (US)	17/03/2011
8	WG	C1-21	What advanced components and technologies are needed and which are available or under development to meet future network development requirements	Andrea Mansoldo (IE)	07/09/2009
9	WG	C1-23	Transmission investment decision points and trees	Ronald Marais (ZA)	03/06/2009
10	WG	C1-22	New investment decision processes and regulatory practices required to deal with changing economic drivers	Olivier Herz (FR)	03/06/2009
11	WG	C1-20	Accommodating high load growth and urban development in future plans	Kevin Leask (ZA)	03/06/2009
12	WG	C1-15	Review the drivers for transmission investment decisions and the role of technical planning criteria in transmission investment	Adele Sleator (IE)	03/06/2009
13	WG	C1-12	The impact of transmission codes on the planning of systems	Peter Wallace (AU)	05/07/2006
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					

CIGRE WORKING GROUPS LISTS

SC C1 System Development and Economics

Last update : 17 December 2015

Type	Number	Links to the Terms of Reference
1 WG	C1-34	http://www.cigre.org/content/download/63160/2828248/version/1/file/TOR-WG+C1-34_ISO+Series+55000+Standards+General+Process+Assessment+Steps+and+Information+Requirements+for+Utilities.pdf
2 WG	C1-33	http://www.cigre.org/content/download/59842/2734830/version/1/file/TOR-WG+C1.33+Interface+%26+Allocation+Issues+in+multi-party+and+cross-jurisdiction+.+power+infrastructures+projects.pdf
3 WG	C1-30	http://www.cigre.org/content/download/59841/2734827/version/1/file/TOR-WG+C1.30_Technical+risks+and+solutions+from+periodic%2C+large+surpluses+or+deficits+of+available+renewable+generation+in+a+particular+area.pdf
4 JWG	C1/C3-31	http://www.cigre.org/content/download/59760/2732104/version/1/file/TOR-JWG+C1-C3+31+Including+stakeholders+in+the+investment+planning+process.pdf
5 WG	C1-32	http://www.cigre.org/content/download/56190/2637141/version/1/file/TOR-WG+C1.32+_Establishing+best+practice+approaches+for+developing+credible+electricity+demand+and+energy+forecasts+for+network+planning.pdf
6 JWG	C1-29/CIRED	http://www.cigre.org/content/download/58403/2699406/version/1/file/TOR-JWG+C1-29-CIRED+Planning+criteria+for+Transmission+Network+in+presence+of+active.pdf
7 WG	C1-27	http://www.cigre.org/content/download/58474/2699619/version/1/file/TOR-WG+C1-27+The+future+of+reliability.pdf
8 WG	C1-21	http://www.cigre.org/content/download/58542/2699823/version/1/file/TOR-WG+C1-21+What+advanced+components+and+technologies+are+needed.pdf
9 WG	C1-23	http://www.cigre.org/content/download/58540/2699817/version/1/file/TOR-WG+C1-23+Transmission+investment+decision+points+and+trees.pdf
10 WG	C1-22	http://www.cigre.org/content/download/58541/2699820/version/1/file/TOR-WG+C1-22+New+investment+decision+processes+required+to+deal+with+changing+economic+drivers.pdf
11 WG	C1-20	http://www.cigre.org/content/download/58543/2699826/version/1/file/TOR-WG+C1-20+Accommodating+high+load+growth+and+urban+development+in+future+plans.pdf
12 WG	C1-15	http://www.cigre.org/content/download/58544/2699829/version/1/file/TOR-WG+C1-15+Review+the+drivers+for+transmission+investment+decisions+and+the+role+of+technical+planning+criteria+in+transmission+investment.pdf
13 WG	C1-12	http://www.cigre.org/content/download/58560/2699877/version/1/file/TOR-WG+C1-12+The+Impact+of+Transmission+Codes+on+the+Planning+of+Systems.pdf
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		

CIGRE WORKING GROUPS LISTS

SC C2 System Operation and Control

	Type	Number	Title	Name of convener	Date of approval
1	JWG	C2/C4-37	Recommendations for Systematic Framework Design of Power System Stability Control	Yongjie Fang (CN)	09/10/2015
2	JWG	C2/C6-36	System Operation Emphasising DSO/TSO Interaction and Co-Ordination	Michael POWER (IE)	24/06/2015
3	WG	C2-23	System Restoration Procedure and Practices	Ben LI (CA)	21/05/2013
4	WG	C2-35	Operations Performance, Training Goals and Operator	Ninel Cukalevski (RS)	26/04/2013
5	WG	C2-22	Application of resilience engineering to safety management principles in Control Centers, ensuring and enhancing power system reliability	Teresa Carolin (ZA)	07/07/2009
6	WG	C2-16	Challenges in the control centre (EMS) due to distributed Generation and Renewables	Michael Power (IE)	31/01/2011
7	WG	C2-34	Capabilities and requirements of a control centre in the 21st century - Functional and human resources view	Udo Spanel (DE)	27/03/2009
8					
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					

CIGRE WORKING GROUPS LISTS

SC C2 System Operation and Control

	Type	Number	Links to the Terms of Reference
1	JWG	C2/C4-37	http://www.cigre.org/content/download/63137/2827177/version/1/file/TOR-JWG+C2-C4.37_Recommendations+for+Systematic+Framework+Design+of+Power+System+Stability+Control.pdf
2	JWG	C2/C6-36	http://www.cigre.org/content/download/61016/2766324/version/1/file/TOR-JWG+C2-C6.36+_System+Operation+Emphasising+DSOTSO+Interaction+and+Co-Ordination.pdf
3	WG	C2-23	http://www.cigre.org/content/download/58410/2699427/version/1/file/TOR-WG+C2.23_System+Restoration+Procedure+and+Practices.pdf
4	WG	C2-35	http://www.cigre.org/content/download/58408/2699421/version/1/file/TOR-WG+C2+35+Operations+Performance%2C+Training+Goals+and+Operator.pdf
5	WG	C2-22	http://www.cigre.org/content/download/58539/2699814/version/1/file/TOR-WG+C2-22+Application+of+resilience+engineering+to+safety+management+principles.pdf
6	WG	C2-16	http://www.cigre.org/content/download/58482/2699643/version/1/file/TOR-WG+C2-16+Challenges+in+the+control+centre+%28EMS%29+due+to+distributed+Generation+and.pdf
7	WG	C2-34	http://www.cigre.org/content/download/58538/2699811/version/1/file/TOR-WG+C2-34+Capabilities+and+requirements+of+a+control+centre+in+the+21st+century+-+Functional+and+Human+resources+view.pdf
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			

CIGRE WORKING GROUPS LISTS

SC C3 System Environmental Performance

	Type	Number	Title	Name of convener	Date of approval
1	WG	C3-15	Best environmental and socio-economic practices for improving public acceptance of high voltage substations	Marijke Wassens (NL)	12/12/2015
2	WG	C3-14	Impact of Environmental liability on transmission and distribution activities	Vincent Du Four (BE)	24/04/2014
3	WG	C3-12	Methodologies for Greenhouse gas inventory and reporting for T&D utilities	Francisco Parada (PT)	01/09/2010
4	WG	C3-9	Corridor management	Stephen Martin (AU)	19/02/2008
5	JWG	C3/B2/B1-13	Environmental issues of HV transmission lines for rural and urban areas	Hector Pearson (GB)	20/05/2010
6	JWG	C3/C6-5	Environmental impact of dispersed generation	Thomas Smolka (DE)	19/07/2006
7	WG	C3-1	Power frequency electric and magnetic fields and health	M. Plante (CA)	04/04/2006
8					
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					

CIGRE WORKING GROUPS LISTS

SC C3 System Environmental Performance

Type	Number	Links to the Terms of Reference
1	WG C3-15	http://www.cigre.org/content/download/64595/3072260/version/1/file/TOR-WG+C3.15+Best+environmental+and+socio-economic+practices+for+improving+public+acceptance+of+high+voltage+substations.pdf
2	WG C3-14	http://www.cigre.org/content/download/56192/2637147/version/1/file/TOR-WG+C3.14_Impact+of+Environmental+liability+on+transmission+and+distribution+activities.pdf
3	WG C3-12	http://www.cigre.org/content/download/58504/2699709/version/1/file/TOR-WG+C3-12+Methodologies+for+Greenhouse+gas+inventory+and+reporting+for+T%26D+utilities.pdf
4	WG C3-9	http://www.cigre.org/content/download/58551/2699850/version/1/file/TOR-WG+C3-09+Corridor+management.pdf
5	JWG C3/B2/B1-13	http://www.cigre.org/content/download/58519/2699754/version/1/file/TOR-WG+C3-13+The+relationship+between+HV+transmission+lines+and+built+development.pdf
6	JWG C3/C6-5	http://www.cigre.org/content/download/58561/2699880/version/1/file/TOR-WG+C3-05+Environmental+impact+of+dispersed+generation.pdf
7	WG C3-1	http://www.cigre.org/content/download/58581/2700429/version/1/file/TOR-WG+C3-01+Power+frequency+electric+and+magnetic+fields+and+health.pdf
8		
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		

CIGRE WORKING GROUPS LISTS

SC C4 System Technical Performance

	Type	Number	Title	Name of convener	Date of approval
1	JWG	C4-42/CIRE	Continuous assessment of low-order harmonic emissions from customer installations	Igor PAPIC (SI)	10/02/2015
2	JWG	C4/B5-41	Challenges with series compensation application in power systems when overcompensating lines	Liisa HAARLA (FI)	08/01/2015
3	WG	C4-39	Effectiveness of line surge arresters for lightning protection of overhead transmission lines	Kenji Tsuge (JP)	10/12/2014
4	JWG	C4-40/CIRE	Revisions to IEC Technical Reports 61000-3-6, 61000-3-7, 61000-3-13, and 61000-3-14	Mark HALPIN (US)	21/11/2014
5	JWG	C4/B4-38	Network Modelling for Harmonic Studies	Zia Emin (GB)	23/05/2014
6	WG	C4-37	Electromagnetic Computation Methods for Lightning Surge Studies with Emphasis on the FDTD Method	Yoshihiro Baba (JP)	09/05/2014
7	WG	C4-36	Winter Lightning – Parameters and Engineering Consequences for Wind Turbines	Masaru Ishii (JP)	09/02/2014
8	JWG	C4/C6-35/CIRE	Modelling and dynamic performance of inverter based generation in power system stability studies	Koji Yamashita (JP)	19/11/2013
9	WG	C4-34	Application of Phasor Measurement Units for monitoring power system technical performance and providing wide-area control and protection	Udaya Annakkage (CA)	10/06/2013
10	WG	C4-33	Impact of Soil-Parameter Frequency Dependence on the Response of Grounding Electrodes and on the Lightning Performance of Electrical Systems	Silverio Visacro (BR)	28/02/2013
11	JWG	C4-24/CIRE	Power Quality and EMC Issues associated with future electricity networks	Francisc Zavoda (CA)	22/10/2013
12	JWG	C4-31/CIRE	EMC between communication circuits and power systems	David Thomas (GB)	23/10/2012
13	WG	C4-32	Understanding of the geomagnetic storm environment for high voltage power grids	WA Radasky (US)	23/10/2012
14	WG	C4-30	EMC in Wind Generation Systems	WH Siew (GB)	23/10/2012
15	WG	C4-27	Benchmarking of Power Quality Performance in Transmission Systems	Davor Vujatovic (GB)	02/10/2012
16	JWG	C4/C6-29	Power-quality aspects of solar power	Jeff Smith (US)	10/06/2012
17	WG	C4-28	Extrapolation of measured values of power frequency magnetic fields in the vicinity of power links	François Deschamps (FR)	10/06/2012
18	WG	C4-111	Review of LV and MV Compatibility Levels for Voltage Fluctuations	Mark Halpin (US)	19/08/2010
19	WG	C4-23	Guide to procedures for estimating the lightning performance of transmission lines	Christiaan Engelbrecht (NL)	13/06/2012
20	WG	C4-26	Evaluation of Lightning Shielding Analysis Methods for EHV and UHV DC and AC Overhead Transmission Lines	He Jinliang (CN)	25/01/2012
21	WG	C4-25	Issues related to ELF Electromagnetic Field exposure and transient contact currents	Harri Kuisti (FI)	01/06/2011
22	WG	C4-503	Numerical techniques for the computation of power systems, from steady-state to switching transients	Jean MAHSEREDJIAN (CA)	18/08/2010
23	WG	C4-305	Practices in insulation coordination of modern electric power systems aimed at the reduction of the insulation level	Ante-Sekso Telento (HR)	13/11/2009
24	WG	C4-603	Analytical techniques and tools for power balancing assessments	Kjetil Uhlen (NO)	10/09/2008

26

28

30

32

CIGRE WORKING GROUPS LISTS

SC C4 System Technical Performance

	Type	Number	Links to the Terms of Reference
1	JWG	C4-42/CIRED	http://www.cigre.org/content/download/58292/2695878/version/1/file/TOR-JWG+C4.42-CIRED_Continuous+assessment+of+low-order+harmonic+emissions+from+customer+installations.pdf
2	JWG	C4/B5-41	http://www.cigre.org/content/download/57730/2676711/version/1/file/TOR-JWG+C4_B5.41_Challenges+with+series+compensation+application+in+power+systems+when+overcompensating+lines.pdf
3	WG	C4-39	http://www.cigre.org/content/download/57311/2665497/version/1/file/TOR-WG+C4.39_Effectiveness+of+line+surge+arresters+for+lightning+protection+of+transmission+OHL.pdf
4	JWG	C4-40/CIRED	http://www.cigre.org/content/download/56735/2648834/version/1/file/TOR-JWG+C4.40-CIRED_Revisions+to+IEC+Technical+Reports+61000-3-X.pdf
5	JWG	C4/B4-38	http://www.cigre.org/content/download/56197/2637162/version/1/file/TOR-JWG+C4-B4.38_Network+Modelling+for+Harmonic+Studies.pdf
6	WG	C4-37	http://www.cigre.org/content/download/56195/2637156/version/1/file/TOR-WG+C4.37_Electromagnetic+Computation+Methods+for+Lightning+Surge+Studies+with+Emphasis+on+the+FDTD+Method.pdf
7	WG	C4-36	http://www.cigre.org/content/download/53551/2554640/version/1/file/TOR-WG+C4.36_Winter+Lightning+%E2%80%93+Parameters+and+Engineering+Consequences+for+Wind+Turbines.pdf
8	JWG	C4/C6-35/CIRED	http://www.cigre.org/content/download/53566/2554863/version/1/file/TOR-JWG+C4-C6-CIRED.35_Modelling+and+dynamic+performance+of+inverter+based+generation.pdf
9	WG	C4-34	http://www.cigre.org/content/download/58409/2699424/version/1/file/TOR-WG+C4.34_Application+of+Phasor+Measurement+Units+for+monitoring+power+system.pdf
10	WG	C4-33	http://www.cigre.org/content/download/58415/2699442/version/1/file/TOR-WG+C4.33_Impact+of+Soil+Parameter+Frequency+Dependence+on+the+Response+of.pdf
11	JWG	C4-24/CIRED	http://www.cigre.org/content/download/53564/2554768/version/1/file/TOR-JWG+C4.24-CIRED_Power_quality_%26_EMG_issues.pdf
12	JWG	C4-31/CIRED	http://www.cigre.org/content/download/58426/2699475/version/1/file/TOR-JWG+C4.31+EMC+between+communication+circuits+and+power+systems.pdf
13	WG	C4-32	http://www.cigre.org/content/download/58428/2699481/version/1/file/TOR-WG+C4.32+Understanding+of+the+geomagnetic+storm+environment+for+high+voltage+power+grids.pdf
14	WG	C4-30	http://www.cigre.org/content/download/58427/2699478/version/1/file/TOR-WG+C4.30+EMC+in+Wind+Generation+Systems.pdf
15	WG	C4-27	http://www.cigre.org/content/download/58432/2699493/version/1/file/TOR-WG+C4.27+Benchmark+of+power+quality+performance.pdf
16	JWG	C4/C6-29	http://www.cigre.org/content/download/58439/2699514/version/1/file/TOR-JWG+C4-C6.29_Power-quality+aspects+of+solar+power.pdf
17	WG	C4-28	http://www.cigre.org/content/download/58438/2699511/version/1/file/TOR-WG+C4.28+Extrapolation+of+measured+values+of+power+frequency+magnetic+fields+in+the+vicinity+of+power+links.pdf
18	WG	C4-111	http://www.cigre.org/content/download/58506/2699715/version/1/file/TOR-WG+C4-111+Review+of+LV+and+MV+Compatibility+Levels+for+Voltage+Fluctuations.pdf
19	WG	C4-23	http://www.cigre.org/content/download/58629/2701638/version/1/file/TOR-WG+C4.23+Guide+to+procedures+for+estimating+the+lightning+performance+of+transmission+lines.pdf
20	WG	C4-26	http://www.cigre.org/content/download/58447/2699538/version/1/file/TOR-WG+C4-26+Evaluation+of+Lightning+Shielding+Analysis+Methods+for+EHV+and+UHV+DC+and+AC+Overhead+Transmission+Lines.pdf
21	WG	C4-25	http://www.cigre.org/content/download/58468/2699601/version/1/file/TOR-WG+C4-25+Issues+related+to+ELF+Electromagnetic+Field+exposure+and+transient+contact+currents.pdf
22	WG	C4-503	http://www.cigre.org/content/download/58507/2699718/version/1/file/TOR-WG+C4-503+Numerical+techniques+for+the+computation+of+power+systems%2C+from+steady-state+to+switching+transients.pdf
23	WG	C4-305	http://www.cigre.org/content/download/58536/2699805/version/1/file/TOR-WG+C4-305+Practices+in+insulation+coordination+of+modern+electric+systems.pdf
24	WG	C4-603	http://www.cigre.org/content/download/58535/2699802/version/1/file/TOR-WG+C4-603+Analytical+techniques+and+tools+for+power+balancing+assessments.pdf

26

28

30

32

CIGRE WORKING GROUPS LISTS

SC C5 Electricity Markets and Regulation

	Type	Number	Title	Name of convener	Date of approval
1	WG	C5-21	Impacts of Environmental Regulations on Power Markets	Adam Keech (US)	28/11/2014
2	WG	C5-20	Drivers for Major Changes in Electricity Markets	David Bowker (AU)	28/11/2014
3	WG	C5-19	Regulatory aspects of Demand Response and Demand Side Management for integration within Electricity Markets	Clotilde Levillain (FR)	19/12/2013
4	WG	C5-18	Market price signals and regulated frameworks for regional coordination of grid investments.	Alain Taccoen (FR)	19/12/2013
5	WG	C5-15	Risk Management in Evolving Regulatory Frameworks	Adrien Ford (US)	14/10/2013
6	WG	C5-16	Costs of Electric Service, Cost Allocation Methods, and Residential Rate Trends	Angela Chuang (US)	14/10/2013
7	WG	C5-17	Capacity markets: needs, solutions and state of affairs	Gerard Doorman (NO)	29/10/2013
8	WG	C5-14	Regulatory Incentives for Innovation in Electricity Networks	Konstantin Petrov (DE)	14/10/2013

10

12

14

16

18

20

22

24

26

28

30

32

CIGRE WORKING GROUPS LISTS

SC C5 Electricity Markets and Regulation

	Type	Number	Links to the Terms of Reference
1	WG	C5-21	http://www.cigre.org/content/download/56946/2654091/version/1/file/TOR-WG+C5.21_Impacts+of+Environmental+Regulations+on+Power+Markets.pdf
2	WG	C5-20	http://www.cigre.org/content/download/56945/2654088/version/1/file/TOR-WG+C5.20_Drivers+for+Major+Changes+in+Electricity+Markets.pdf
3	WG	C5-19	http://www.cigre.org/content/download/53561/2554670/version/1/file/TOR-WG+C5.19_Regulatory_Aspects_Demand_Response.pdf
4	WG	C5-18	http://www.cigre.org/content/download/53560/2554667/version/1/file/TOR-WG+C5.18_Market_price_signals.pdf
5	WG	C5-15	http://www.cigre.org/content/download/53573/2555151/version/1/file/TOR-WG+C5.15_Risk+Management+in+Evolving+Regulatory+Frameworks.pdf
6	WG	C5-16	http://www.cigre.org/content/download/53574/2555154/version/1/file/TOR-WG+C5.16_Costs+of+Electric+Service_Cost+Allocation+Methods_and+Residential+Rate.pdf
7	WG	C5-17	http://www.cigre.org/content/download/53575/2555157/version/1/file/TOR-WG+C5.17_Capacity_Markets.pdf
8	WG	C5-14	http://www.cigre.org/content/download/53572/2555148/version/1/file/TOR-WG+C5.14_Regulatory+Incentives+for+Innovation+in+Electricity+Networks.pdf
10			
12			
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			

CIGRE WORKING GROUPS LISTS

SC C6 Distribution Systems and Dispersed Generation

	Type	Number	Title	Name of convener	Date of approval
1	WG	C6-31	MVDC Grid Feasibility Study	Zhao MA (CN)	07/07/2015
2	JWG	C6/D2-32	Utilization of data from smart meter system	Yasuo MATSUURA (JP)	07/07/2015
3	WG	C6-28	Hybrid Systems for off-grid power supply	Ravi Seethapathy (CA)	17/06/2014
4	WG	C6-23	Terminology	Alex Baitch (AU)	01/07/2010
5	WG	C6-30	The Impact of Battery Energy Storage Systems on Distribution Networks	Nikos Hatziargyriou (GR)	01/07/2014
6	WG	C6-27	Asset management for distribution networks with high penetration of distributed energy resources	Britta Buchholz (DE)	20/07/2012
7	JWG	C6/B5-25/CIREC	Control and Automation Systems for Electricity Distribution Networks of the Future	Giuseppe Mauri (IT)	20/07/2012
8	WG	C6-21	Smart Metering	Eduardo Navarro (ES)	25/05/2010

10

12

14

16

18

20

22

24

26

28

30

32

CIGRE WORKING GROUPS LISTS

SC C6 Distribution Systems and Dispersed Generation

Type	Number	Links to the Terms of Reference
1	WG C6-31	http://www.cigre.org/content/download/61265/2775075/version/1/file/TOR-WG+C6.31_Medium+Voltage+Direct+Current+%28MVDC%29+Grid+Feasibility+Study.pdf
2	JWG C6/D2-32	http://www.cigre.org/content/download/61266/2775078/version/1/file/TOR-JWG+C6_D2.32_Utilization+of+data+from+smart+meter+system.pdf
3	WG C6-28	http://www.cigre.org/content/download/56198/2637165/version/1/file/TOR-WG+C6.28_Hybrid+Systems+for+off-grid+power+supply.pdf
4	WG C6-23	http://www.cigre.org/content/download/58466/2699595/version/1/file/TOR-WG+C6-23+Capacity+of+Distribution+Feeders+for+Hosting+DER.pdf
5	WG C6-30	http://www.cigre.org/content/download/56203/2637180/version/1/file/TOR-WG+C6.30_The+Impact+of+Battery+Energy+Storage+Systems+on+Distribution+Networks.pdf
6	WG C6-27	http://www.cigre.org/content/download/59475/2723849/version/1/file/TOR-WG+C6.27-Asset+management+for+distribution+networks+with+high+penetration+of+distributed+energy+resources.pdf
7	JWG C6/B5-25/CIREC	http://www.cigre.org/content/download/58630/2701641/version/1/file/TOR-JWG+C6-B5-25-CIREC+Control+and+Automation+Systems+for+Electricity+Distribution+Networks+of+the+Future.pdf
8	WG C6-21	http://www.cigre.org/content/download/58517/2699748/version/1/file/TOR-WG+C6-21+Smart+Metering+%E2%80%93+state+of+the+art%2C+regulation%2C+standards+and+future+requirements.pdf
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		

CIGRE WORKING GROUPS LISTS

SC D1 Materials and Emerging Test Techniques

	Type	Number	Title	Name of convener	Date of approval
1	WG	D1-64	Electrical insulation systems at cryogenic temperatures	Naoki HAYAKAWA (JP)	08/12/2015
2	WG	D1-65	Mechanical properties of insulating materials and insulated conductors for oil insulated power transformers	Lars SCHMIDT (DE)	08/12/2015
3	WG	D1-63	Partial discharge detection under DC voltage stress	Ronald PLATH (DE)	15/04/2015
4	WG	D1-62	Surface Degradation of Polymeric Insulating Materials for Outdoor Applications	Bernd Komanschek (DE)	03/10/2014
5	WG	D1-61	Optical corona detection and measurement	Nishal Mahatho (ZA)	26/09/2014
6	WG	D1-60	Traceable measurement techniques for very fast transients	Yi Li (AU)	26/09/2014
7	WG	D1-59	Methods for dielectric characterisation of polymeric insulating materials for outdoor applications	Jens Seifert (DE)	30/01/2014
8	WG	D1-58	Evaluation of dynamic hydrophobicity of polymeric insulating materials under AC and DC voltage stress	Jens Seifert (DE)	08/01/2014
9	JWG	D1/B3-57	Dielectric Testing of gas-insulated HVDC Systems	Claus Neumann (DE)	20/12/2013
10	WG	D1-56	Field grading in electrical insulation systems	Volker Hinrichsen (DE)	17/03/2013
11	WG	D1-54	Basic principles and practical methods to measure the AC and DC resistance of conductors of power cables and overhead lines	Boris Dardel (CH)	21/01/2013
12	WG	D1-53	Ageing of upgraded cellulose and cellulose impregnated in ester liquids and other liquids (Revision of Technical Brochure No 323)	Lars Lundgaard (NO)	01/10/2012
13	WG	D1-52	Moisture measurement in insulating fluids and transformer insulation - An evaluation of solid state sensors and chemical methods	Ivanka Atanasova Höhle (DE)	01/10/2012
14	WG	D1-51	Dielectric performance of eco-friendly gas insulated systems	Hiroyuki Hama (JP)	01/10/2012
15	WG	D1-50	Atmospheric and altitude correction factors for air gaps and clean insulators	Johannes Rickmann (US)	15/04/2012
16	JWG	D1/B1-49	Harmonised test for the measurement of residual inflammable gases in insulating materials by gas chromatography	John-Peter Mattmann (CH)	12/04/2012
17	WG	D1-48	Properties of insulating materials under VLF voltages	Serge Péliou (CA)	24/10/2011
18	WG	D1-44	Testing of naturally polluted insulators	Igor Gutman (SE)	24/10/2011
19	JWG	D1/A2-47	New frontiers of Dissolved Gas Analysis (DGA) interpretation for power transformers and their accessories	Michel Duval (CA)	21/06/2011
20	WG	D1-43	Rotating machine insulation voltage endurance under fast, repetitive voltage transients	A Cavallini (IT)	15/12/2010
21	WG	D1-40	Functional Nanomaterials for Electric Power Industry	Michel Fréchette (CA)	11/11/2010
22	WG	D1-36	Special requirements for dielectric testing of Ultra High Voltage (UHV) equipment	Uwe Riechert (CH)	16/08/2010
23	WG	D1-39	Methods for Diagnostic/Failure Data Collection and Analysis	Peter Morshuis (JP)	01/09/2012
24	WG	D1-38	Emerging Test Techniques Common to High Temperature Superconducting (HTS) Power Applications	Hitoshi Okubo (JP)	27/05/2010
25	WG	D1-37	Maintenance and evaluation of measuring procedures for conventional and unconventional partial discharge testing	Edward Gulski (NL)	01/09/2012
26	WG	D1-31	Dielectric Performance of insulating liquids for transformers	Lars Lundgaard (NO)	01/09/2012
27	WG	D1-29	Partial Discharges in Transformers	Hiroyuki Fuhr (CH)	01/09/2012
28	WG	D1-25	Application guide for PD detection in GIS using UHF or acoustic methods	U. Schichler (DE)	10/09/2008

30

32

CIGRE WORKING GROUPS LISTS

SC D1 Materials and Emerging Test Techniques

	Type	Number	Links to the Terms of Reference
1	WG	D1-64	http://www.cigre.org/content/download/64495/3070341/version/1/file/TOR-WG+D1.64+Electrical+insulation+systems+at+cryogenic+temperatures.pdf
2	WG	D1-65	http://www.cigre.org/content/download/64494/3070338/version/1/file/TOR-WG+D1.65+Mechanical+properties+of+insulating+materials+and+insulated+conductors+for+oil+insulated+power+transformers.pdf
3	WG	D1-63	http://www.cigre.org/content/download/59640/2728862/version/1/file/TOR-WG+D1.63+Partial+discharge+detection+under+DC+stress.pdf
4	WG	D1-62	http://www.cigre.org/content/download/56213/2637210/version/1/file/TOR-WG+D1.62+Surface+degradation+of+polymeric+insulating+materials.pdf
5	WG	D1-61	http://www.cigre.org/content/download/56210/2637201/version/1/file/TOR-WG+D1.61+Corona+Detection+and+Measurement.pdf
6	WG	D1-60	http://www.cigre.org/content/download/56211/2637204/version/1/file/TOR-WG+D1.60+Traceable+measurement+techniques+for+very+fast+transients.pdf
7	WG	D1-59	http://www.cigre.org/content/download/53552/2554643/version/1/file/TOR-WG+D1.59+Methods+for+dielectric+characterisation+of+polymeric+insulating+materials+for+outdoor+applications.pdf
8	WG	D1-58	http://www.cigre.org/content/download/53548/2554631/version/1/file/TOR-WG+D1.58+Evaluation+of+dynamic+hydrophobicity+under+AC+and+DC+Approved.pdf
9	JWG	D1/B3-57	http://www.cigre.org/content/download/53555/2554652/version/1/file/TOR-JWG+D1_B3.57+Dielectric+Testing+of+gas-insulated+HVDC+Systems.pdf
10	WG	D1-56	http://www.cigre.org/content/download/58412/2699433/version/1/file/TOR-WG+D1-56+Field+grading+in+electrical+insulation+systems.pdf
11	WG	D1-54	http://www.cigre.org/content/download/58420/2699457/version/1/file/TOR-WG+D1-54+Basic+principles+and+practical+methods+to+measure+the+AC+and+DC.pdf
12	WG	D1-53	http://www.cigre.org/content/download/58435/2699502/version/1/file/TOR-WG+D1-53+Ageing+of+upgraded+cellulose+and+cellulose+impregnated+in+ester+liquids.pdf
13	WG	D1-52	http://www.cigre.org/content/download/58434/2699499/version/1/file/TOR-WG+D1-52+Moisture+measurement+in+insulating+fluids+and+transformer+insulation.pdf
14	WG	D1-51	http://www.cigre.org/content/download/58433/2699496/version/1/file/TOR-WG+D1-51+Dielectric+performance+of+eco-friendly+gas+insulated+systems.pdf
15	WG	D1-50	http://www.cigre.org/content/download/58597/2700525/version/1/file/TOR-WG+D1.50+Atmospheric+and+altitude+correction+factors+for+air+gaps+and+clean+insulators.pdf
16	JWG	D1/B1-49	http://www.cigre.org/content/download/58598/2700528/version/1/file/TOR-JWG_D1-B1.49+Harmonised+test+for+the+measurement+of+residual+inflammable+gases.pdf
17	WG	D1-48	http://www.cigre.org/content/download/58449/2699544/version/1/file/TOR-WG+D1-48+Properties+of+insulating+materials+under+VLF+voltages.pdf
18	WG	D1-44	http://www.cigre.org/content/download/58453/2699556/version/1/file/TOR-WG+D1-44+Testing+of+naturally+polluted+insulators.pdf
19	JWG	D1/A2-47	http://www.cigre.org/content/download/58463/2699586/version/1/file/TOR-JWG+D1-A2-47.+New+frontiers+of+Dissolved+Gas+Analysis+%28DGA%29+interpretation+for+power+transformers+and+their+accessories.pdf
20	WG	D1-43	http://www.cigre.org/content/download/58492/2699673/version/1/file/TOR-WG+D1-43+Rotating+machine+insulation+voltage+endurance+under+fast%2C+repetitive+voltage+transients.pdf
21	WG	D1-40	http://www.cigre.org/content/download/58499/2699694/version/1/file/TOR-WG+D1-40+Functional+Nanomaterials+for+Electric+Power+Industry.pdf
22	WG	D1-36	http://www.cigre.org/content/download/58509/2699724/version/1/file/TOR-WG+D1-36+Special+requirements+for+dielectric+testing+of+Ultra+High+Voltage+%28UHV%29+equipment.pdf
23	WG	D1-39	http://www.cigre.org/content/download/58937/2709503/version/1/file/TOR-JWG+C2-C5-05_updated+2012+Development+and+Changes+in+the+Business+of++System+Operators++.pdf
24	WG	D1-38	http://www.cigre.org/content/download/58512/2699733/version/1/file/TOR-WG+D1-38+Emerging+Test+Techniques+Common+to+High+Temperature+Superconducting+%28HTS%29+Power+Applications.pdf
25	WG	D1-37	http://www.cigre.org/content/download/58937/2709503/version/1/file/TOR-JWG+C2-C5-05_updated+2012+Development+and+Changes+in+the+Business+of++System+Operators++.pdf
26	WG	D1-31	http://www.cigre.org/content/download/58937/2709503/version/1/file/TOR-JWG+C2-C5-05_updated+2012+Development+and+Changes+in+the+Business+of++System+Operators++.pdf
27	WG	D1-29	http://www.cigre.org/content/download/58937/2709503/version/1/file/TOR-JWG+C2-C5-05_updated+2012+Development+and+Changes+in+the+Business+of++System+Operators++.pdf
28	WG	D1-25	http://www.cigre.org/content/download/58550/2699847/version/1/file/TOR-WG+D1-25+Application+guide+for+PD+detection+in+GIS+using+UHF+or+acoustic+methods.pdf

30

32

CIGRE WORKING GROUPS LISTS

SC D2 Information Systems and Telecommunications

	Type	Number	Title	Name of convener	Date of approval
1	JWG	D2/C2-41	Advanced Utility Data Management and Analytics for Improved Situational Awareness of EPU Operations	Alberto Del_Rosso (US)	17/04/2015
2	JWG	D2/B2-39	Design, deployment and maintenance of Optical Cables associated to Overhead HV Transmission Lines	Carlos DI_PALMA (AR)	22/01/2015
3	WG	D2-40	Cyber risks and cyber security for the next generation of digital systems in Electric Power Utilities (EPU)	Jens ZERBST (SE)	08/01/2015
4	WG	D2-38	A framework for EPU operators to manage the response to a cyber-initiated threat to their critical infrastructure	Dennis Holstein (US)	24/01/2014
5	WG	D2-36	Communication solutions for information exchange in the smart delivery of electrical energy.	Jan Piotrowski (PL)	01/12/2012
6	WG	D2-34	Telecommunication and Information Systems for Assuring Business Continuity and Disaster Recovery	Herwig Klima (AT)	30/03/2012

8
10
12
14
16
18
20
22
24
26
28
30
32

CIGRE WORKING GROUPS LISTS

SC D2 Information Systems and Telecommunications

Type	Number	Links to the Terms of Reference
1	JWG D2/C2-41	http://www.cigre.org/content/download/59757/2732095/version/1/file/TOR-JWG+D2_C2.41-Advanced+Utility+Data+Management+and+Analytics+for+Improved+Situational+Awareness+of+EPU+Operations.pdf
2	JWG D2/B2-39	http://www.cigre.org/content/download/57914/2683194/version/1/file/TOR-JWG+D2-B2.39_Design%2C+deployment+and+maintenance+of+Optical+Cables+associated+to+Overhead+HV+Transmission+Lines.pdf
3	WG D2-40	http://www.cigre.org/content/download/57746/2676874/version/1/file/TOR-WG+D2.40_Cyber+risks+and+cyber+security+for+the+next+generation+of+digital+systems+in+EPUs.pdf
4	WG D2-38	http://www.cigre.org/content/download/53549/2554634/version/1/file/TOR-WG+D2.38+A+framework+for+EPU+operators+to+manage+the+response+to+a+cyber-initiated+threat+to+their+critical+infrastructure.pdf
5	WG D2-36	http://www.cigre.org/content/download/58425/2699472/version/1/file/TOR-WG+D2.36+Communication+solutions+for+information+exchange+in+the+smart+delivery.pdf
6	WG D2-34	http://www.cigre.org/content/download/58441/2699520/version/1/file/TOR-WG+D2-34+Telecommunication+and+Information+Systems+for+Assuring+Business.pdf
8		
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		