

BRAZILIAN NATIONAL ELECTRIC POWER GENERATION AND TRANSMISSION COMMITTEE

ANNUAL ACTIVITIES REPORT

2003

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1. FOREWORD

The 2003 year was certainly a memorable year for CIGRÉ-Brasil. Many were the events that played an important role for our association to stand out in the Brazilian Electric Industry environment. The highlight was of course the opening of our headquarters – an old dream of the whole CIGRÉ-Brasil family –, which every member took a great pride in and will more and more bring an extra motivation for everyone to participate more actively in the events organized by our association.

The purchase of our headquarters during the efficient administration of Dr. João Batista Ferreira Guimarães da Silva, its organization and regularization over 2003 were instrumental for permanently consolidating CIGRÉ-Brasil's profile before the Brazilian Electric Power Industry. Special reference should be made to the opening party in October, with the significant attendance of members, former chairmen and invited authorities that added to the brilliance of the occasion and lent their prestige to CIGRÉ-Brasil.

In 2003, the Board of Officers, together with the Board of Directors, took important decisions towards regularizing the events promoted by CIGRÉ-Brasil. Given their growing magnitude and importance, the National Electric Power Transmission and Generation Seminar (SNPTEE) and CIGRÉ Latin American Regional Meeting (ERLAC) were joined by the already well-established Seminar of Experts in System Operation and Expansion Planning (SEPOPE) and the Electric Systems Automation Symposium (SIMPASE), which are now regarded as events organized by the Brazilian National Committee. This is a highly important decision as these events, given their importance and presence in the electric industry realm with a minimum of 500 attendees, needs all support by the CIGRÉ-Brasil Administration which was until then linked only to the Study Committees of particular interest. In view of the success, coverage and support from companies that promote such events, a tendency exists for the Brazilian National Committee to absorb other events that emerge as promising sources of interest in the industry.

Still in relation to the events, one could not miss the opportunity to mention and express our gratitude to CEMIG for the flawless organization of the XVII SNPTEE held October 2003, in Uberlândia, attended by 2300 participants. Also in 2003, emphasis should be given to the Electric Systems Automation Seminar (V SIMPASE) held in Recife – PE, promoted by CE-C2 and CE-B5, with nearly 600 participants. The Brazilian Energy Quality Seminar (SBQE) promoted by the CE-C4 and held in Maceió was another event listed among the most important held in 2003.

As one may infer from the financial statements, CIGRÉ-Brasil is experiencing a good growth thanks to the organization of the above-mentioned events and profitable events held by the Study Committees. In spite of all this, one should at this time commit to and undertake a relentless pursue for a greater consistency, efficiency, independence and solidity by giving more attention to the institutional documents, now under discussion, which will guide the life of our institution.

Regarding the international sphere, we proceeded with our policy aimed at the consolidation of the Brazilian National Committee, with special emphasis again to the outstanding Brazilian technical contribution to the 40th Biennial Section, where 22 of our papers have been approved and the maintenance of our standing as the largest National CIGRÉ Committee in the world, owing largely to the cooperating attitude of our Board, Secretary Office and devoted participation of a number of Study Committee Coordinators.

In reading this Report one may appreciate the whole of our achievements in 2003 and go for even more in 2004. This is the ultimate target of this Board in close association with all members.

Paulo Cesar Vaz Esmeraldo

Chief Executive Officer, CIGRÉ-Brasil

2. GENERAL MEMBERS MEETING

The twenty-eighth (28th) BRAZILIAN NATIONAL ELECTRIC POWER GENERATION AND TRANSMISSION COMMITTEE General Meeting was held April 30, 2003 at the then main office of the organization, at CEPEL, in Ilha do Fundão, city of Rio de Janeiro.

The Meeting was presided over by the then-Chairman Eng. João Basista Guimarães and the then-Secretary Officer Eng. José Henrique Machado Fernandes who acted as secretary to the Meeting. Actually, the Meeting was installed on second call for no members in enough number were present on first call.

According to the Call Notice published 1/30/2003, the Meeting agenda comprised the following three businesses:

- 1) Approval to the Annual Board of Officers Report;
- 2) Approval to the 2002 Annual Balance Sheet;
- 3) Election of the Board of Officers for the 2003-2007 quadrennial period;
 - Chief Executive Officer:
Paulo César Vaz Esmeraldo
 - First Vice-President:
José Henrique Machado Fernandes
 - Second Vice-President:
Mônica Neves Cordeiro
 - Treasurer Officer:
Albert Cordeiro Geber de Melo
 - Secretary Officer:
Antonio Varejão de Godoy

Concurrently with the election of the Board of Executive Officers members, the Meeting elected the new Board of Directors and Audit Committee: eight corporate members, twenty-three association members, in addition to the votes cast by letter that together with the votes cast in person added up to:

INDIVIDUAL MEMBERS

CORPORATE MEMBERS I

CORPORATE MEMBERS II

Affirmative Votes	112	17	02
Dissenting Votes	01	0	0
Invalid Votes	06	0	0

Considering that the Corporate I Member's vote equals to 5 individual votes and that the Corporate II Member's vote equals to 2 individual members' vote, the only slate was voted in as follows:

- **Equivalent Affirmative Votes: 201;**

- **Equivalent Dissenting Votes: 01;**

- **Equivalent Invalid Votes: 06;**

Finally, the new Chief Executive Officer laid open the five main targets set by the Board of Executive Officers:

- Strengthening of the Study Committees' New Structure and keeping up of their main outstanding quality: Technical and Scientific Excellence;

- Consolidation and Regularization of the New Headquarters;

- Preparation, Revision and Reconciliation of Institutional Documents;

- Consolidation of and Revision to the Main Organization's Seminars within the New Industry Context;

- To keep our Prominent Position with CIGRÉ - Paris.

3. SNPTEE

From October 19 through 24, 2003, CIGRÉ-Brasil sponsored the 17th Edition of the Brazilian National Electric Power Generation and Transmission Seminar – SNPTEE, which agenda addressed the numerous issues related to the Brazilian power industry. Once again, the Seminar was distinguished by the weighty contribution of Brazilian experts, which brought about important results owing to the outstanding quality of the material offered at the meeting.

As many as 437 technical papers were presented and nearly 40 exhibitors participated in that year version. In addition, 16 simultaneous meetings were held for presentation of and discussion on the most recent technologies, industry trends, Brazilian electric industry methodologies and current prospects for a new model proposed by government. Energy traders, research centers, government representatives, universities, consultants, among others, took part in the many discussions on the subject.

The XVII SNPTEE, coordinated by CEMIG – Companhia Energética de Minas Gerais, was held in Uberlândia – Minas Gerais, at the Uberlândia Convention Center.

As it did in the previous edition, each study group selected at that SNPTEE the three best technical reports related to its respective area. Thereafter, the five best technical papers presented at the Seminar were selected for general classification purposes. .

In respect of that Seminar, a special commendatory reference should be made to the brilliance and devotion of the work groups and coordinating organizations - CEMIG in particular - which contributed significantly to the success of that event.

The most important data related to the XVIth SNPTEE are listed below:

- Number of Abstracts presented:	1.240
- Number of Technical Reports approved:	437
- Number of Technical Reports Presented:	398
- Number of Concurrent Forums:	16
- Total Number of Attendants:	2.232
- Total Number of Exhibitors:	40
- Total Number of Registered Attendants:	2.407
- Total Number of Sponsors:	25

The best five Technical Reports were:

No.º	Group	Company	Author	Title
01	GPT	PUC-RS	Adriano Moehlecke	Silicon Solar Cell Processing with Low-Cost Materials
02	GAE	Eletrobrás	Denizart do Rosário Almeida	Determinants for Investment in and Sustained Expansion of the Brazilian Electric Sector: Recent History and Trends
03	GSC	UFMG	Silvério Visacro Filho	Non-conventional application of SLT as Auxiliary Decision-Making Factor in Definition of Transmission Lines Protection Actions
04	GET	CEMIG	Rodrigo de Castro Freitas	Project Planning and Control System
05	GPL	CHESF	João Ricardo Paes de Barros	Using the Shapley Value to Plan Transmission Expansion and Allocate Expansion, Methodology and Case History Costs to Agents

4. ERLAC

The **X ERLAC** (CIGRÉ Regional Latin American Meeting) took place in the period from May 18 to 22 in Puerto Iguazu – Argentina, with 302 participants, 162 of which were Brazilian, 207 Technical Papers having been presented at the Meeting.

At first, the major problem for holding that ERLAC was the financial feasibility of the event owing to difficulties that the country was going through, which accordingly made it difficult for the Argentine National Committee to organize the meeting. Fortunately, sales of booths and sponsorship provided for the funds that supplemented those from registration fees, rendering possible the holding of the event. It came out as one of the best-organized ERLACs ever, with a good financial performance.

The best three papers presented at the meetings held by each Study Committee have been selected and awarded prizes. Fifteen technical meetings were developed, one for each Study Committee, conducted by experts in each of the respective areas of expertise.

The works presented by Brazilian participants obtained nineteen prizes: seven first prizes, seven second prizes and five third prizes, representing over one third of the prizes awarded at said event.

In spite of the initial financial problems to hold the X ERLAC, arrangements for holding the event were kept strictly on schedule.

5. SIMPASE

The **V Simpósio de Automação de Sistemas Elétricos – SIMPASE [V Electric System Automation Symposium – SIMPASE]** took place between May 11 and 14 in the city of Recife, Pernambuco, coordinated by the Electric Systems Operation and Protection Study Committees.

Regarded as being the most representative event on automation of the Latin American electric sector, the SIMPASE gathers representatives from power generation, transmission and distribution companies, suppliers of products and solutions for the industry, researchers, consultants and other concerned individuals and corporations.

Promoted by CIGRÉ-Brasil through its B5 and C2 Study Committees and coordinated by Companhia Hidro Elétrica do São Francisco – CHESF, the SIMPASE in its fifth edition consolidated its position in the National and Latin American sector as the most important discussion forum for exchange of experiences and technical-scientific knowledge in automation.

Over 500 participated in the fifth edition of the SIMPASE. 172 papers and over 40 technical reports were presented during the event, at which about 50 meetings were held including lectures and round-table discussions. Among those registered were participants from seven countries of the Americas and Europe representing 125 organizations.

The best technical report was awarded a prize; likewise, a special recognition plaque was awarded to the best technical report presented on the day as appraised by the meeting board.

It should be further mentioned that the SIMPASE grew to such extent that it was included as a CIGRÉ BRAZILIAN NATIONAL COMMITTEE event by decision of CIGRÉ's BOARD OF DIRECTORS.

6. OTHER TECHNICAL ACTIVITIES PERFORMED IN 2003

Besides the XVII SNPTEE, the X ERLAC and the V SIMPASE, CIGRÉ-Brasil promoted the following scientific events:

6.1. V SBQEE – Seminário Brasileiro sobre Qualidade de Energia Elétrica

[Brazilian Seminar on Electric Power Quality]

- Period: from August 17 to 20, 2003
- Place: Aracajú – Sergipe
- Coordination: NEPEN
- Event: CE-C4
- Participants:

6.2. II SENOP – Seminário Nacional de Operações de sistemas Elétricos

[National Electric Systems Operations Seminar]

- Period: From August 18 to 21, 2003
- Place: Três Marias – Minas Gerais
- Coordination: CEMIG
- Event: CE-C2e NOS
- Participants:

6.3. Lightning Arrester: Application on Power Systems

- Period: August 26 and 27, 2003
- Place: Curitiba - PR
- Coordination: CE-A3
- Event: CE-A3
- Participants: 40

6.4. International Colloquium – New developments in Telecommunications and Information

Systems for the Power Electricity Industry

- Period: September 17 and 18, 2003
- Place: Rio de Janeiro / RJ
- Coordination: FURNAS
- Event: CE-D2
- Participants: 100

6.5. Seminário Energia Elétrica e Meio Ambiente

[Electric Power and Environment Seminar]

- Period: From October 1 to 3, 2003
- Place: Teresina / PI
- Event: CE-C3
- Participants: 90

6.6. III Workspot – International Workshop on Power Transformers – Transformer Reliability

- Period: November 26 to 28, 2003
- Place: Costão do Santinho – Florianópolis / SC
- Coordination: CE-A2
- Event: CE-A2
- Participants:

6.7. Curso de Introdução às Vibrações em Linhas Aéreas de Transmissão

[Course in Introduction to Overhead Transmission Line Vibrations]

- Period: December 2 and 3, 2003
- Place: Rio de Janeiro / RJ
- Coordination: CE-B2
- Event: CE-B2
- Participants: 41

7. PARTICIPATION IN INTERNATIONAL MEETINGS

With the dissemination of knowledge in mind and for the purpose of providing our experts with a more intensive exchange with most updated CIGRÉ-International professionals, and employing resources from the Travel Fund and other Sponsorships, the Brazilian Committee was represented at the following events:

7.1. CE-A2 – Transformers

SC-A2 Meetings and Colloquium:

- Period: From September 4 through 12, 2003
- Place: Edinburgh / Scotland
- Representatives: **Luiz Américo Venturini Cheim**
Carlos Julio Dupont

7.2. CE-A3 – Equipment

IEC's WG-A3-17 and TC37-MT4 meetings:

- Period: October 14 and 15, 2003
- Place: Darmstadt / Germany
- Representatives: **Jorge Luiz de Franco**

7.3. CE-B2 – Overhead Lines

SC-B2 and WG-B2-03/06/08/11/12/15/16 Meetings:

- Period: September 4 through 12, 2003
- Place: Edinburgh / Scotland
- Representatives: **José Henrique Machado Fernandes**

João Félix Nolasco

Ricardo Wesley

Ruy Menezes

*** Osvaldo Régis Jr.**

*** Sidnei Ueda**

*** João Batista G. Ferreira da Silva**

7.4. CE-B3 – Substations

SC-B3 and WG-B3-01 Meetings, Colloquium and Tutorial

- Period: August 21 through 29, 2003
- Place: Delft / Netherlands
- Representative: **Antonio Varejão de Godoy**

7.5. CE-B4 – Elos de Corrente Contínua e Eletrônica de Potência em Sistemas C.A.

[Direct Current Links and Power Electronics in AC Systems]

SC-B4 Meeting and Colloquium

- Period: September 21 through 26, 2003
- Place: Nuremberg / Germany
- Representative: **Marcio Szechtman**

Carlos Aparecido Gama

7.6. CE-C2 – Operação e Controle de Sistemas de Potência

[Power Systems Operation and Control]

SC-C2, WG-C2-05 Meetings and participation in CIGRÉ/IEEE Symposium

- Period: October 5 through 11, 2003
- Place: Montreal / Canada
- Representative: **Saulo José Nascimento Cisneiros**

7.7. CE-C3 – Desempenho Ambiental do Sistema

[System Environmental Performance]

SC-C3 Meeting

- Period: October 27 through November 1, 2003
- Place: Madrid / Spain
- Representative: **Ricardo Cavalcanti Furtado**

7.8. CE-C4 – Desempenho de Sistemas Elétricos

[Electric Systems Performance]

SC-C4, WG-C4-07 Meeting and CIGRÉ/IEEE Symposium

- Period: October 5 through 11, 2003
- Place: Montreal / Canada
- Representative: **Herivelto de Souza Bronzeado**

7.9. Executive Committee and Board of Directors

Meetings of **CIGRE Executive Committee** and **Board of Directors**

- Period: October 12 through 15, 2003
- Place: San Francisco / USA
- Representatives: **Paulo Cesar Vaz Esmeraldo**

João Batista G. Ferreira da Silva

Note: the SC-C5 and SC-D2 Committees' international meetings were held in Brasília and Rio de Janeiro / Brazil.

*** Not sponsored by the Travel Fund**

8. EVENTS SCHEDULED FOR 2004

8.1. International Seminar: Ampacity in Overhead Transmission Lines

- Period: March 23 to 25, 2004
- Place: Rio de Janeiro / RJ
- Coordination: **CE – B2**

8.2. Meeting to Discuss Electric Systems Performance vis-à-vis Electromagnetic Transients

- Period: April 26 and 27, 2004
- Place: Recife / PE
- Coordination: **CE – C4**

8.3. Seminar on Environmental Management in Electric Power Transmission and Distribution

- Period: April 28 to 30, 2004
- Place: São Luiz / MA
- Coordination: **CE – C3**

8.4. IX SEPOPE – Symposium of Electric Operation and Expansion Planning Experts

- Period: May 23 through 27, 2004
- Place: Furnas - Rio de Janeiro – RJ
- Coordination: **CE – C1**

8.5. Course: The Environment in Electric Power Generation Studies and Projects

- Period: July 15 to 17, 2004
- Place: Rio de Janeiro
- Event: **CE – C3**

8.6. CIGRÉ General Session & Exhibition

- Period: From August 29 through September 3, 2004
- Place: Paris / France
- Coordination: **CIGRÉ-Paris**

Note: 22 Technical Papers from Brazilian authors have been approved the titles of which are listed in exhibit I

8.7. National Seminar On the Use and Occupancy of Overhead Transmission Lines Easements

- Period: October 7 and 8, 2004
- Place: Belo Horizonte / Minas Gerais
- Coordination: **CE-B2**

8.8. II ENAM – Encontro Nacional de Monitoramento de Máquinas Rotativas [National Rotary Machines Monitoring Meeting]

- Period: November 7 to 10, 2004
- Place: Belém / PA
- Coordination: ELETRONORTE
- Event: **CE-A1**

8.9. Brazilian Seminar on Environment, Social Responsibility and Electric Power

- Period: November 17 to 19, 2004
- Place: Recife / PE
- Event: **CE-C3**

9. BOARD OF DIRECTORS MEETINGS

The Board of Directors convened at three meetings over the 2003 year, two of which were regular meetings and one special meeting, which were held as follows:

9.1. 1st CIGRÉ Board of Directors Meeting:

Date: March 28, 2003

Place: CEPEL/Rio de Janeiro / RJ.

Main Resolutions / Reports:

- Approval to the purchase of furniture for HEADQUARTERS.
- Approval to only election slate.
- Report on progress of HEADQUARTERS renewal.
- Report on: ERLAC, XVII SNPTEE and International Technical Committee Meeting in Brazil.

9.2. 2nd CIGRE Board of Directors Meeting:

Date: October 3, 2003

Place: New CIGRE HEADQUARTERS/Rio de Janeiro / RJ.

Main Resolutions/Reports:

- Submittal of New HEADQUARTERS FINAL COST and proposal for upkeep of own headquarters.
- Approval to establishment of HEADQUARTERS UPKEEP fund.
- Request for preparation of a Financial Planning for the Organization.
- Advisory Groups progress report.
- Report on XVII SNPTEE and IX SEPOPE.

9.3. 3rd CIGRE Special Board of Directors Meeting:

Date: December 23, 2003

Place: New CIGRE HEADQUARTERS/Rio de Janeiro / RJ.

Main Resolutions/Reports:

- Approval to CIGRE-Brasil Financial Policy.
- Approval to 2004 CIGRE-Brasil Budget.
- Advisory Groups progress report.

10. STUDY COMMITTEE TECHNICAL COORDINATION MEETINGS

The following meetings with Study Committee coordinators were held under the coordination the CIGRÉ-Brasil's 1st Vice-President, Eng. José Henrique Machado Fernandes:

10.1. 1st 2003 Study Committee Coordinators Meeting on 8/8/2003

10.2. 2nd Study Committee Coordinators Meeting on 12/22/2003

Several issues have been addressed at said meetings related to the operation and work in progress at the Study Committees.

11. CIGRÉ-BRASIL BOARD OF EXECUTIVE OFFICERS MEETINGS

Over the 2003 year the CIGRE-Brasil Board of Executive Officers held three meetings:

11. 1. 1st CIGRE-Brasil Board of Executive Officers Meeting on 4/30/2003 - CEPTEL – Rio de Janeiro

Main businesses transacted at the meeting:

Commencement of Tenure of Office of CIGRE-Brasil New Officers;
Definition of scope of authority of every member of the Board of Officers
and transition actions;

Definition of removal to the new Headquarters;

Definition of new Travel Fund Committee formation;

Amendments to Bylaws;

Reports on: X ERLAC

IX SEPOPE

XVII SNPTEE

V SIMPASE;

Selection of articles for the Biennial Meeting;

11. 2. 2nd CIGRÉ-Brasil Board of Officers Meeting held 10/8/2003 – New Headquarters / Flamengo – Rio de Janeiro

Main businesses transacted at the meeting:

Definition of articles selected for the 2004 Biennial Meeting; Reports on: ERLAC

SEPOPE

SNPTEE;

Budget forecast for Headquarters operation; Introduction of new Board of Directors' Members; Revision to Study Committee Regulation;

Expiration of CE Coordinators term of Office and definition of new Coordinators

Election of Honorary Member

Laying open of minimum requirements for Study Committees' operation

11. 3. 3rd CIGRÉ-Brasil Board of Officers Meeting held 12/22/2003 – New Headquarters / Flamengo – Rio de Janeiro

Main businesses transacted at the meeting:

Revision to Bylaws and Regulations

Reports on: ERLAC;

SEPOPE;

Strategies for changes to be implemented on XVIII SNPTEE;

New Headquarters operation method;

Definition on insurance to be carried for the new Headquarters;

Action plan for preparation of new CIGRÉ-Brasil site;

Submittal of proposal of regulation for use of the new Headquarters and Secretary Office facilities;

Advisory Committees' work in progress;

Schedule of Events;

EletroEvolução Magazine

12. ORGANIZATION OF STUDY COMMITTEES

12.1. STUDY COMMITTEES

Having regard to the Study Committee new structure, the Brazilian Study Committees had the following assignments and coordinators at 2003 year end:

CE-A1

Rotary Machines

Coordinator: ANTÔNIO CARLOS FERREIRA
Company: UFRJ - Universidade Federal do Rio de Janeiro
Address: COPPE/UFRJ-PEE - Caixa Postal 68504
21945-970 - Rio de Janeiro - RJ
Telephone: (21) 2562-8607
Facsimile: (21) 2562-8628
E-mail: ferreira@coep.ufrj.br

CE-A2

Transformers

Coordinator: LUIZ AMÉRICO VENTURINI CHEIM
Company: Siemens Ltda.
Address: Av. Eng.º João Fernandes Gimenes Molina, n.º 1745 - CP920
Distrito Industrial
13213-080 - Jundiaí - SP
Telephone: (11) 4585-2113
Facsimile: (11) 4585-2206
E-mail: cheim@siemens.com

CE-A3

High Voltage Equipment

Coordinator: JORGE AMON FILHO
Company: Furnas Centrais Elétricas S.A.
Address: Rua Real Grandeza, 219, Bloco C - Sala 1607-3 - DPT.T - Botafogo
22283-900 - Rio de Janeiro - RJ
Telephone: (21) 2528-4903
Facsimile: (21) 2528-4857
E-mail: jorgamon@furnas.gov.br

CE-B1**Insulated Cables**

Coordinator: CARLOS ALBERTO FERREIRA GODINHO
Company: Pirelli Energia Cabos e Sistemas do Brasil S.A.
Address: Av. Alexandre de Gusmão, 145 - Vila Homero Thon
09110-900 - Santo André - SP
Telephone: (11) 4998-4806 / 4998-4647
Facsimile: (11) 4998-4886
E-mail: carlos.godinho@pirelli.com.br

CE-B2**Overhead Transmission Lines**

Coordinator: JOSÉ HENRIQUE MACHADO FERNANDES
Company: ELETRONORTE - Centrais Elétricas do Norte do Brasil S.A.
Address: SCN, Q. 06 - Conj. "A" - Edif. Venâncio 3000 - Bloco B - Sala 502
70718-900 - Brasília - DF
Telephone: (61) 429-5303 / 5301
Facsimile: (61) 328-1552
E-mail: jhmf@eln.gov.br

CE-B3**Substations**

Coordinator: ANTONIO VAREJÃO DE GODOY
Company: CHESF - Companhia Hidro Elétrica do São Francisco
Address: Rua Delmiro Gouveia, 333 – Bongí
50760-901 – Recife – PE
Telephone: (81) 3229-2907 / 2908
Facsimile: (81) 3229-3083
E-mail: varejao@chesf.gov.br

CE-B4**Direct Current Links and Power Electronics**

Coordinator: CARLOS APARECIDO GAMA
Company: Va Tech Transmissão & Distribuição Ltda.
Address: Rua Gomes de Carvalho, 1306 - 3º andar - Vila Olímpia
04547-005 - São Paulo - SP
Telephone: (11) 3040-5201
Facsimile: (11) 3040-5299
E-mail: carlos.gama@vatech-td.com.br

CE-B5**Protection and Automation**

Coordinator: GUILHERME MOUTINHO RIBEIRO
Company: GSA - Global Service Advisement Ltda
Address: Rua do Ouro, 1138/1201 - Serra
30220-000 - Belo Horizonte - MG
Telephone: (31) 3284-0801
E-mail: gsa.br@terra.com.br

CE-C1**Electric Systems Development and Economics**

Coordinator: PAULO CESAR VAZ ESMERALDO
Company: Furnas Centrais Elétricas S.A.
Address: Rua Real Grandeza, 219 - Bloco C - Sala 1607 - DPT.T Botafogo
22283-900 - Rio de Janeiro - RJ
Telephone: (21) 2528-4490
Facsimile: (21) 2528-4857
E-mail: esmerald@furnas.gov.br

CE-C2**Systems Operation and Control**

Coordinator: SAULO JOSÉ NASCIMENTO CISNEIROS
Company: SC - CONSULTORIA E ENGENHARIA DE ENERGIA LTDA
Address: Rua Aquarius 50, sala 901, Graças
52011-020 - Recife - PE
Telephone Nos.: (81) 3222-0439 /
3423-2718
Facsimile: (81) 3423-2718
E-mail: saulojnc@elogica.com.br

CE-C3**Systems Environmental Performance**

Coordinator: RICARDO CAVALCANTI FURTADO
Company: CHESF - Companhia Hidro Elétrica do São Francisco
Address: Rua Delmiro Gouveia, 333 - Bongi
50761-260 - Recife - PE
Telephone: (81) 3229-2212
Facsimile: (81) 3229-2413
E-mail: rfurtado@chesf.gov.br

CE-C4**Performance of Electric Systems**

Coordinator: HERIVELTO DE SOUZA BRONZEADO
Company: CHESF - Companhia Hidro Elétrica do São Francisco
Address: Rua Delmiro Gouveia, 333 – Anexo II, Sala A-333 (DOEL) - Bongi
50761-901 - Recife - PE
Telephone: (81) 3229-4105 / 3229-4130 / 3462 7058 (R)
Facsimile: (81) 3229-4174 / 3343-6461 (R)
E-mail: hebron@chesf.gov.br / bronzeado@ieee.org

CE-C5**Electricity Markets and Regulation**

Coordinator: EDUARDO MARCIO TEIXEIRA NERY
Company: Energy Choice
Address: Rua Ludgero Dolabela, 401 - aptº 03 - Bairro Gutierrez
30430-130 - Belo Horizonte - MG
Telephone: (31) 3291-7833 / 3349-2062
Facsimile: (31) 3292-7989 / 3349-4691
E-mail: enery@energychoice.com.br

CE-C6**Distribution Systems and Distributed Generation**

Coordinator: JORGE HENRIQUE GRECO LIMA
Company: CEPEL - Centro de Pesquisas de Energia Elétrica
Address: Av. Hum, s/n.º - Cidade Universitária
21941-590 - Rio de Janeiro - RJ
Telephone: (21) 2598-6133 / 2598-6134
Facsimile: (21) 2260-6211
E-mail: jlina@cepel.br

CE-D1**Insulating Materials and New Technologies**

Coordinator: SANDRA MARA ALBERTI
Company: COPEL – Companhia Paranaense de Energia Elétrica
Address: Rua Coronel Dulcídio, 800 – Caixa Postal 318
80001-970 – Curitiba – PR
Telephone: (41) 366-2020 – ramal 6272
Facsimile: (41) 266-3582
E-mail: Sandra@lac.copel.br

CE-D2 Information and Telecommunications Systems for Electric Systems

Coordinator: CLÁUDIO TRIGO DE LOUREIRO
Company: Furnas Centrais Elétricas S.A.
Address: Rua Real Grandeza, 219/303 - Bloco. B - DET.T Botafogo
22283-900 - Rio de Janeiro - RJ
Telephone: (21) 2528-4141
Facsimile: (21) 2528-4917
E-mail: trigo@furnas.com.br

12.2. WORK GROUPS IN PROGRESS

The Study Committees were organized in the following work groups at the 2003 year-end:

12.2.1. CE-A1 – Rotary Electric Machines

Coordinator: Antonio Carlos Ferreira – UFRJ
Secretary: Erli Ferreira Figueiredo – UERJ
GT-A1-01 Electric Machine Monitoring:
Hélio Ricardo T. de Azevedo

12.2.2. CE-A2 – Transformers

Coordinator: Luiz Américo Venturini Cheim – SIEMENS
Secretary: João Baldauf – AREVA
GT-12-20 Rapid Transients
Camilo Machado Júnior – ELETRONORTE
Angélica Rocha
Ivan Amorim
Roberto Asano
GT-12-23 Transformer Monitoring
Carlos Júlio Dupont – CEPEL

12.2.3 CE-A3 – High Voltage Equipment

Coordinator: Jorge Amon Filho – FURNAS
Secretary: Paulo César Fernandez – FURNAS
GT-13-09 Circuit Breaker Monitoring and Diagnosis Techniques
Adolfo Ribeiro Júnior – FURNAS
GT-13-10 Lightning Arrester Monitoring and Diagnosis Techniques
Jorge Luiz de Franco – EDC

12.2.4. CE-B1 – Insulated Cables

Coordinator: Carlos Alberto F. Godinho – PIRELLI

Secretary: Eduardo Karabolad Filho – Consultant

GT –B1-01 HV Cables and Accessories Maintenance.

Francisco Antonio Rueda – CTEEP

GT-B1-02 Revision to Procedures for Qualification of Underground Cable Systems on Transmission Lines

Aloísio J. O. Lima – PIRELLI

Task Force Statistics on Underground Cables on Transmission Networks

Carla Damasceno Peixoto – LIGHT

12.2.5. CE-B2 – Overhead Lines

Coordinator: José Henrique Machado Fernandes – ELETRONORTE

Secretary: Ramon Sade Haddad – EXPANSION

GT -B2-03 Insulators

Ricardo Wesley S. Garcia – CEPEL

GT-B2-06 LTS (Overhead Transmission Line) Project Basics

José Milton da Costa Brito – CEMIG

GT-B2-07 Foundations

Aureo Pinheiro Ruffier – CEPEL

GT-B2-08 Frameworks

Rogério Peixoto Guimarães – ABB

GT-B2-11 Mechanical Behavior of Conductors and Accessories

Thadeu Antônio Furtado

GT-B2-12 LTS Electric Aspects

Sidnei Massami Ueda – Nexans do Brasil

12.2.6. CE-B3 – Substations

Coordinator: Antonio Varejão de Godoy – CHESF

Secretary: Ricardo de Oliveira Melo – CHESF

GT-B3-01 Substations Concept

Antonio Varejão de Godoy – CHESF

GT-B3-02 SFC-Insulated Substations

Ricardo Jacobsen – CTEEP

GT-B3-03 AR-Insulated Substations

Fábio Nepomuceno – CHESF

GT-B3-05 Secondary Systems

Jorge Kotlareswiski – FURNAS

GT-B3/C3 Substation Maintenance and Reliability
Mário Janeiro - FURNAS
BTF Equipment-focused Maintenance Guide
Ioni Patriota – CHESF

12.2.7. CE-B4 – Direct Current Links and Systems Power Electronics

Coordinator: Carlos Aparecido Gama
Secretary: Sérgio do Espírito Santo – FURNAS

The Committee is at present undergoing a restructuring process; no work group is in operation.

12.2.8. CE-B5 – Protection and Automation

Coordinator: Guilherme Moutinho Ribeiro
Secretary: Jorge Miguel Ordacgi Filho – ONS

The Committee is at present undergoing a restructuring process; no work group is in operation.

12.2.9. CE-C1 – Electric Systems Development and Economics

Coordinator: Paulo Cesar Vaz Esmeraldo – FURNAS

The Committee is at present undergoing a restructuring process; no work group is in operation.

12.2.10. CE-C2 – Power Systems Operation and Control

Coordinator: Saulo José Nascimento Cisneiros
Secretary: Marcos Almeida Prado Lefèvre – Itaipu Binacional
GT-C2.01/02 Control Systems and Centers
Maurício Moszkowicz - ONS
GT-C2.03 Operation Human Resources
Adel Mendonça de Souza Oliveira – ONS
GT-39.04 Power Systems Performance Evaluation
Heloiza Helena X. M. Menezes – ONS
GT-C2.05 Systems Operators Management
Saulo José Nascimento Cisneiros – S/C Consultoria

12.2.11. CE-C3 – Systems Environmental Performance

Coordinator: Ricardo Furtado – CHESF

Secretary: Sandra Mara Alberti – LACTEC

GT C3-01 – Effects of Electromagnetic Fields and Health of Population in Enterprise Influence Areas

GT C3-02 – Sustainability Performance Indicators

GT C3-03 – Experience in Environmental Planning and Management

GT C3-04 – Environmental Performance Communication Strategies

12.2.12. CE-C4 – Performance of Electric Systems

Coordinator: Herivelto de Souza Bronzeado

1st Secretary: Josias Matos de Araújo – Eletronorte

2nd Secretary: Luiz Carlos Leal Cherchiglia – Cemig

The Committee's activities began in 2003 and it is currently under formation.

12.2.13. CE-C5 – Energy Market and Regulation

Coordinator: Eduardo Márcio Teixeira Nery

GT-C5-01 Regulation

Davi Antunes Lima

GT-C5-02 Market Structures

Luiz Augusto Barroso

GT-C5-03 Investment and Financing

Leonardo Lins Albuquerque

GT-C5-04 Access to Transmission

José Cléber Teixeira

12.2.14. CE-C6 – Distribution Systems and Distributed Generation

Owing to its coordinator's resignation, the Committee is at present under restructure.

12.2.15. CE-D1 – Insulating Materials and New Technologies

Coordinator: Eduardo T. Serra

Committee is currently under restructure and not in operation.

12.2.16. CE-D2 – Information and Telecommunications Systems for Electric Systems

Coordinator: Cláudio Trigo de Loureiro – Furnas

Secretary: Flávio de Moura Coelho

WG-D2-01 OPLAT Digital
Jorge Câmara – ABB

13. MEMBERSHIP

The table below shows the growth of CIGRÉ-Brasil Membership since 1983 and up to 2003:

YEAR	CORPORATE MEMBER	
	INDIVIDUAL MEMBER	
	EQUIVALENT MEMBER	
1983	39	273
1984	40	250
1985	52	236
1986	63	216
1987	64	204
1988	64	227
1989	61	290
1990	48	268
1991	39	237
1992	39	206

1993	38	190	
1994	36	204	
1995	43	227	
1996	50	252	
1997	37	222	222
1998	33	213	213
1999	43	273	473
2000	40	256	443
2001	48	367	589

2002

2003

Type I – 40

Type II – 06

Type I – 39

Type II – 05

413

625

IND – 493

726

YM – 28

YM – Young Members

Type I – Companies

Type II – Universities

- Special reference should be made to the campaign conducted in 2003 for new members. This campaign brought about a 16% growth to the number of Equivalent Members as compared to 2002, which enabled the association to keep its top position worldwide regarding the number of members.

14. ECONOMIC STANDING – BALANCE SHEET AND FINANCIAL STATEMENT

CIGRÉ-Brasil's main revenues over 2003 continued to be those arising from events promoted by the Study Committee and those from financial operations as well.

It is to be noted that unlike other countries the income from memberships in Brazil is fully employed to partially offset membership debts to CIGRÉ-Paris.

The income statement for the 2003 fiscal year shows an increase for the period in amount of R\$ 513,783.00, therefore the net worth in 12/31/2003 amounted to R\$ 3,746,243.00 which represents a 15.89% increase over the preceding period. Thus, one may conclude once more that CIGRÉ's economic-financial result for the fiscal year was excellent.

15. NEW HEADQUARTERS

The new headquarters of *Comitê Nacional Brasileiro de Produção e Transmissão de Energia Elétrica* – CIGRÉ-Brasil was opened October 2, 2003. The new main office is installed in a group of four suites located at Praia do Flamengo – Rio de Janeiro.

The opening had the special attendance of Eng. José Pedro Rodrigues de Oliveira, the Chief Executive Officer of FURNAS Centrais Elétricas S/A.

The opening board was composed of Eng. João Batista Guimarães Ferreira da Silva, former CIGRÉ-Brasil CEO and current RIAC CEO, and Eng. Márcio Pereira Zimmermman –CEPEL Director.

Dr. Zimmerman handed over to CEPEL a plaque as an expression of the association's gratitude for the many years of support to and alliance with CIBRÉ-Brasil at CEPEL's premises.

CIGRÉ-Brasil's Chief Executive Officer, Eng. Paulo Cesar Vaz Esmeraldo, wound up the ceremony by exalting his predecessors in office and some personalities whose names have strong ties with the Brazilian Committee's history.

The new CIGRÉ-Brasil headquarters space consists of four suites that have been divided and turned into separate rooms: Secretary Office, two meeting rooms – one of which fitted with data show, one TV set, videocassette set and audio-conference set -; board room; pantry room; administrative room, rest rooms and a library which will be provided in the future with a structure for research by and care to our members.



16. EXHIBITS

Exhibit I – CIGRÉ-Brasil Technical Report

Exhibit I – A

1st 2003 Study Committee Coordinators Meeting

Date: 8/8/2003

Place: Suites D-24/25 – CEPTEL – Rio de Janeiro / RJ

Time: 9:00 AM through 5:30 PM

1. OPENING (CIGRÉ – Brasil Chief Executive Officer) – 9:00 AM
2. CIGRÉ-BRASILNEWS – 9:15 AM
 - 2.1. New Board of Executive Officers
 - 2.2. New Headquarters - Removal
 - 2.3. Board of Directors Advisory Groups

2.3.1. GA-1 – Revision to CIGRÉ-Brasil Bylaws;

2.3.2. GA-2 – Revision to Study Committees' Bylaws;

2.3.3. GA-3 – Organization of CIGRÉ-Brasil Events;

2.3.4. GA-4 – Revision to Travel Fund Regulation

2.4. 2003 Membership

2.5. Scholarships

3. CIGRÉ-BRASIL STUDY COMMITTEES – 10:00 AM

3.1. List of Coordinators and Proxies

3.2. Events Scheduled for 2003/2004

3.3. Connections between Coordinators and Board of Officers

3.4. Minimum requirements for Study Committees' operation

4. CIGRÉ-PARIS – 10:45 AM

4.1. 2004 Biennial

4.2. Study Committees' annual meetings

5. STUDY COMMITTEE PRESENTATIONS – 11:00 AM

- Length: 20 minutes per Committee – Total length: 5 hours
- Every Committee shall bring its presentation material in electronic medium to be provided to enable preparation of the minutes.
- Minimum content suggested for presentation:

5.1. Committee Structure

- Coordinator, Secretary, Members – List to be provided
- International Committee (SC) and Work Group (WG) Regular Members and Corresponding Members.

5.2. National Working Groups in progress and their Coordinators

5.3. National Meetings held and/or scheduled – 2003

5.4. 2003 International Meetings - Attendance and/or Forecast

5.5. Events held and/or scheduled 2003/2004

5.6. Participation in 2002 Biennial

5.7. Participation in X ERLAC

5.8. Forecast for CE operation at XVII SNPTEE

5.9. Suggestions for improvements

6. LUNCH – 1:00 PM

7. FINAL MEETING APPRAISAL (WRAP-UP) – 5:00 PM

8. CLOSING – 5:30 PM

EXHIBIT I – B

2nd CIGRÉ-Brasil Study Coordinators Meeting

CE C3 – Systems Environmental Performance

Date: December 22, 2003

Place: Rio de Janeiro – RJ, CIGRÉ-Brasil Headquarters

Formation

- Coordinator: Ricardo C. Furtado - Chesf

- Secretary: Sandra Mara Alberti – Lactec

- Members: Mírian Nuti – Eletrobrás
 Sílvia Helena Pires – Eletrobrás
 Rogério Mundin – Eletrobrás
 Hamilton Moss - Cepel
 Alexandre Uhlig – Cesp

 Flávia Gama Soares - Chesf
 Aderilton Rodrigues – Eletronorte
 Dalia Maimon – S.I.G.A.

- Regular SC C3 member: Ricardo C. Furtado – Chesf

- Regular WG C3.xx member – Environmental Performance Indicators: Ricardo C. Furtado – Chesf

- Regular WG C3.yy member – Communication Strategies in Environmental Issues: to be appointed

Formation

- Regular WG.zz member – Utilities Current Practices in Sustainable Development: Mírian Nuti – Eletrobrás
- Regular JTF member – B3/B1/B2/C3.20 – EMF and the Impact of Proposed Exposure Limits: Hamilton Moss - Cepel
- WG C3.01 Correspondent member – EMF and Health: Hamilton Moss - Cepel

Domestic Activities in 2003

- a) CE C3 meetings held in 2003
 - 1st Meeting– Eletrobrás, Rio de Janeiro - RJ on May 28th
 - 2nd Meeting – Eletronorte, Brasília - DF on August 27th
- b) Seminar on Electric Power and Environment; Planning and Management– Teresina – PI, 1 through 3 of October
- c) Participation as lecturer at the I Seminar on Oil, Energy and Environment Protection – Hotel Glória, Rio de Janeiro – RJ, May 26 through 28: Ricardo C. Furtado
- d) Approval to CE C3 2003 – 2012 Strategic Plan
- e) Participation in XVII SNPTEE
 - XI GIA Group Reporters: Ricardo C. Furtado, Sandra Mara Alberti and Mírian Nuti
 - Main author of article: Environmental Management in Transmission Lines: Ricardo C. Furtado
 - Co-author of article: Sustainable Development Indicators for Management of Water resources in a Hydrographic Basin: Ricardo C. Furtado
 - Main author of article: A Review of the Belo Monte Hydroelectric Complex Social-Environmental Risks: Mírian Nuti
 - Main author of article: Social-Environmental Policy for and Relocation of Communities from Hydroelectric Power Plants: Discussion of Results over the Last Decade: Mírian Nuti

International Activities in 2003

- a) Preparation of the following papers for the 2004 Biennial Meeting:
 - Environmental management of transmission lines, by Ricardo C. Furtado et al.;
 - Analysis of social environmental risks in hydroelectric power plants, by Mírian Nuti and M. F. Garcia;
 - Emission and dispersion model on N_{ox} from thermal power plants as a tool of insertion and sustainable of air quality, by J Cesare Negri and S. de Oliveira Júnior
- b) Designation of Brazilian representatives at the WGs
- c) Forwarded comments to the SC C3 Strategic Plan 2003 – 2012 draft
- d) Participation in SC C3 Meeting held in Madrid, Spain, October 29 and 30: Ricardo C. Furtado
- e) Approval to SC C3's 2003 – 2012 Strategic Plan

National Activities Scheduled for 2004

- a) CE C3 participation growth and consolidation
- b) Implementation and operation of the Work Groups
- c) Holding of Seminar on Environmental Management in Power Transmission and Distribution, April 28 and 29, in São Luis – MA
- d) Holding of Course in Environment in Power Generation Studies and Projects , July 15-17, in Rio de Janeiro – RJ
- e) Holding of Seminar on Brazilian Environment, Social Responsibility and Electric Power, November 10-12, in Recife – PE
- f) Holding of two CE C3 meetings in March and October

International Activities Scheduled for 2004

- a) Participation in 2004 Biennial Session through a delegation composed of the CE Coordinator and main authors of papers
- b) Designation of Brazilian representative with WG C3.yy – Communication Strategies in Environmental Issues

- c) Participation of Brazilian representatives at SC C3 annual meeting and at the WGs meetings to be held during the Biennial Session in Paris
- d) Presentation of technical contributions at the Paris Biennial Session SC C3 papers discussion Meeting
- e) Participation of Brazilian representatives in SC, WGs and TFs' activities

Suggestions for Improvement

- a) Improve institutional support to the holding of events
- b) To take steps towards a larger participation of companies in CIGRÉ's activities
- c) Review the feasibility of publication and sale of technical books

Exhibit II – Works Selected for the Biennial Session

Exhibit II

List of the Works approved for the Biennial Session

D. DE MACEDO CORREIA, D. DE OLIVEIRA CAMPONES DO BRASIL (Brazil)
C4 1 - 338

AA BRAZIL

A proposal of power quality measurement instrumentation selection based on laboratory test procedures

J.R. MEDEIROS, D.O.C. BRASIL, P.F. RIBEIRO, J.C. OLIVEIRA (Brazil)
C4 1 - 337

Subject 2

INT BRAZIL

Investigation of large scale integration on wind power on the power system characteristics : voltage and quality and frequency control

P.A. CARVALHO ROSAS, H.S. BRONZEADO (Brazil), P. SORENSEN, H. BINDNER
(Denmark)
C6 2 - 341

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CIGRE

Brésil - Brazil

Subject 1

AA BRAZIL

The Brazilian electricity market learning some lessons and assuring a stronger market design

X. VIEIRA FILHO et al (Brazil)

C5 1 - 340

AA BRAZIL

A straightforward method to the reliability evaluation of bulk power system substation schemes

J.R.P. BARROS, V. S. ANDRADE, A.C. GEBER DE MELO (Brazil)

B3 1 - 320

AA BRAZIL

Procedure for automatic restoration of systems of potency: an application to the substation Boa Vista

J.A. PINTO MOUTINHO, F. DAMASCENO FREITAS (Brazil)

B5 1 - 324

NCA BRAZIL

Emission and dispersion model on Nox from thermal power plants as a tool of insertion and regional sustainable of air quality

J. CESARE NEGRI, S. DE OLIVEIRA JUNIOR (Brazil)

C3 1 - 349

NCA BRAZIL

Analysis of social environmental risks in hydroelectric power plants

M. REGINI NUTI, M. FEITOSA GARCIA (Brazil)

C3 1 - 348

Subject 2

AA BRAZIL

Brazilian experience with system protection schemes
P. GOMES, S.L. SARDINHA, G. CARDOSO (Brazil)
C2 2 - 330

AA BRAZIL

Environmental management of transmission lines

R. CAVALCANTI FURTADO, J. DAMASIO BRAGA, C.N. VILAR (Brazil)
C3 2 - 333

AA BRAZIL

Improvements on high voltage electrical substations to face the new Brazilian legislation

G.M. BASTOS, R.C. VALENTE, E. LESER, J.L.F. DE ALMEIDA (Brazil)
B3 2 - 321

AA BRAZIL

On site repair of a HVDC transformer

G.M. BASTOS, R. ALBUQUERQUE, F.A. PINTO, J.A. SALVADOR, R.A. MARCONDES, J.C. MENDES, A.S.G. REIS, N.A. SANTOS (Brazil)

A2 2 - 316

AA BRAZIL

On site tests of HV power transformers

J.C. MENDES, R.A. MARCONDES, J. NAKAMURA (Brazil)
A2 2 - 317

AA BRAZIL

A study of the impact of FACTS devices on Southern Brazil transmission system

R.L. MACHADO, K.C. ALMEIDA, A.S. e SILVA (Brazil)
B4 2 - 322

AA BRAZIL

Eletronorte Tucuruí hydro plant expansion and modernization

C. GONCALVES, C.A. HORTA, D. GOMES DE LIMA, F.R. NETO (Brazil)
A1 2 - 315

INT BRAZIL

The role of large consumers in the Brazilian power markets - Issues and solutions

J.C.O. MELLO et al (Brazil)
C5 2 - 351

NCA BRAZIL

Operating power system closer to technical limit - The Brazilian experience

P. GOMES, M. DOS SANTOS GROETAERS, A.F. DA CUNHA AQUINO (Brazil)
C1 2 - 345

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CIGRE

NCA BRAZIL

Evaluating the new challenges in business relationships between new enterprises and Furnas transmission system

A.C. BARBOSA MARTINS, B. GOLDMAN, O.L. WERNECK DA ROCHA CUBAS, M. D ALMEIDA E ALBUQUERQUE (Brazil)

C5 2 - 350

Subject 3

AA BRAZIL

Using internet resources in Brazilian real time operation drills

A. MENDONCA SOUZA DE OLIVEIRA, P. CARIA COUTINHO (Brazil)
C2 3 - 332

NCA BRAZIL

Application of a long term planning tool to define a generation and interconnection expansion plan for the Brazilian system (fusionné avec 344)

A.C. GEBER DE MELO et al (Brazil)
C1 3 - 343

NCA BRAZIL

Control centre structures for the competitive environment - Brazilian power transmission company experience in the North/Northeast and North/South interconnected system

J. MATOS DE ARAUJO et al (Brazil)
C2 3 - 346

NCA BRAZIL

Improved performance of OPGW under lightning discharges in Brazilian regions with a high keraunic level

M. DAS GRACS ALVIM, C.M. FERNANDES DE OLIVEIRA, C.F. LOEWENTHAL, D. BRITO NIEDU

(Brazil)

B2 3 - 342

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Exhibit III – Minimum Requirements

Exhibit III

Minimum Requirements for Operation of Study Committees

FOREWORD

The Brazilian National Electric Power Generation and Transmission Committee – CIGRÉ-Brasil represents the INTERNATIONAL CIGRÉ in Brazil.

CIGRÉ-Brasil is a non-government nonprofit organization whose mission is to pursue the development, dissemination and knowledge of electric power worldwide.

Thus, the organization's basic principle is the voluntary work moved by love and satisfaction resulting from knowledge obtained and shared, and derived from refining friendship and goodwill among people throughout the world.

PURPOSE

Define minimum organization and operation standards for CIGRÉ-Brasil Study Committees such as to attain a desirable and smooth performance.

REQUIREMENTS

1. Every CE shall be formed by one Coordinator and one Secretary.
2. Every CE shall exert its best efforts towards being formed by at least 10 members.
3. Every CE shall hold at least one meeting per year, prepare the respective minutes and forward the same to the Technical Coordinator

4. Every Coordinator shall be a regular member or observer from the corresponding International Committee.
5. Every Coordinator shall participate at least at every two (2) years in the meetings of its respective International Committee.
6. Every Coordinator shall maintain active correspondence with the respective International Committee and disseminate the material received to the best of his/her ability.
7. Every CE shall maintain active the correspondence with the respective International Committee by disseminating the material received to the best of its ability.
8. Every CE shall exert its best efforts towards maintaining correspondents or regular members or even form Work Groups that are counterparts to the WGs of its respective International Committee.
9. Every CE shall exert its best efforts towards holding one technical event per year to be scheduled ahead of time such as to appear on CIGRÉ-Brasil's List of Events.
10. Every CE shall prepare, in respect of every technical event held, a Technical Note containing the main findings, with statistics and pictures for publication in EletroEvolução magazine.
11. Every CE shall forward to the Technical Coordinator, at the latest by February (non-extendable deadline), the Annual Activities Report for the preceding year and the Target Plan for the current year pursuant to the standard form.
12. Every participation of members attending an international activity shall be followed by a Travel Report according to the standard form to be forwarded to the Technical Coordinator within 60 days from participant's return.
13. At the end of his/her tenure, every Coordinator shall organize, one (1) year in advance, the succession process with the members of his/her Committee, and see that the activities be not interrupted and forward to the Technical Coordinator a list of options and priorities, for the appointment of the new Coordinator by CIGRÉ-Brasil's Board of Executive Officers.
14. Every CE shall exert its best efforts towards a direct participation in the events organized by CIGRÉ-Brasil such as: ERLAC, SNPTEE, SEPOPE, SIMPASE, etc.

15. Every CE Coordinator shall do his/her best to:

- Promote CIGRÉ-Brasil;
- Contribute to the EletroEvolução magazine;
- Contribute for expansion of CIGRÉ-Brasil's Technical Assets;
- Procure new members;
- Send ideas and suggestions for improvements;
- To voluntarily take on activities that may be conducive to CIGRÉ-Brasil's success.

**Board of
Executive
Officers**

Paulo Cesar Vaz Esmeraldo	Chief Executive Officer
José Henrique Machado Fernandes	1st Vice-President
Mônica Neves Cordeiro	2nd Vice-President
Antonio Varejão de Godoy	Secretary Officer
Albert Cordeiro Geber de Melo	Finance Officer