

Fill in this form and send or fax a copy before November 1st 2007 to:

Ms. Cristina Ruiz
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Instituto de Investigación Tecnológica
Universidad Pontificia Comillas
Alberto Aguilera, 23 E-28015 Madrid, Spain
Phone : (+34) 915 40 61 07 Fax : (+34) 915 42 31 76

Registration Form

Name: _____
Company: _____
VAT Registration number: _____
Position: _____
Address: _____
Phone: _____ Fax: _____
E-mail: _____
Company main profile: _____

COURSE FEES

The course fees include lectures, documentation, coffee breaks and lunches according to the registration option.

Members of the EES - UETP: 525 €
University non members of the EES - UETP: 900 €
Industry non members of the EES - UETP: 1500 €

Please make a bank transfer to the following bank account:

Bank: BBVA
Address: C/ Alcalá 16, 28014 Madrid
Account number: 0182-2370-45-0201510629
IBAN: ES18-0182-2370-4502-0151-0629
SWIFT: BBVAESMMXXX

and please send or fax a copy of the bank transfer to

Ms. Cristina Ruiz
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Courses' Cancellation Policy: notifications should be sent in writing to the course Coordinators. Cancellations received one week before the course will not be refunded

ACCOMMODATION

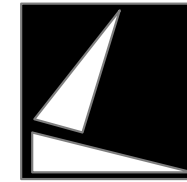
Special rates have been arranged at the following hotels (please refer to Universidad Pontificia Comillas when booking)

<i>Tirol</i>	<i>NH Alb. Aguilera</i>
c/ Marqués de Urquijo, 4	c/ Alberto Aguilera, 18
P. (+34) 915481900	P. (+34) 914460900
F. (+34) 915413958	F. (+34) 914460904
100€+IVA (breakfast inc.)	140€+IVA (breakfast inc.)

INFORMATION & REGISTRATION

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Deadline for inscriptions: November 1st 2007



Electric Energy Systems
University Enterprise Training Partnership

2007 Course Program

New challenges to ancillary
services regulation and
operation

November 14th-16th, 2007

Universidad Pontificia Comillas
de Madrid
Alberto Aguilera 23
E-28015, Madrid -Spain



SPONSORS:

Objectives

Competitive mechanisms have been introduced during the last years in the planning, management, and operation of Electric Power Systems, also including regulation and procurement of ancillary services. This fact, together with the introduction of new generation technologies such as wind or combined cycle power plants, and the need for increased participation in the markets of active demands, make necessary a deep review of the current situation and prospective evolution of ancillary services management methods.

This course aims at providing a forum to discuss issues related with the new challenges in ancillary services regulation and operation. The main topics that will be addressed in the course are:

- Current regulation and procurement of ancillary services, specifically load frequency control and voltage control. International experiences will be presented.
- System security and emergency operation. Current practices.
- Prospective of generation ancillary services from the supply side. Changes in current structure and new proposals (pumping units, wind generators, etc.).
- Integration of active participation of the demand side. Ancillary services supplied by demands. Possibilities, procurement mechanisms and limitations. Load shedding and financial agreements keeping quality of supply requirements.

Intended audience

This course is intended for professionals from transmission system operators, regulators, generation companies, customers (industrial facilities), consultants and post-graduate students.

Duration & Location

November 14th-16th 2007.

Universidad Pontificia Comillas de Madrid
Alberto Aguilera 23, 28015. Madrid – Spain

Program

Wednesday November 14th

8:30 to 9:00 – *Course registration*

9:00 to 10:00 – *Dr. I. Egido and Dr. F.M. Echavarren*
Presentation and Technical Background

10:00 to 11:30 – *Ms. Maria Luisa Llorens*
Present and future of ancillary services in Spain

11:30 to 12:00 – *Coffee break*

12:00 to 13:30 – *Mr. K. Uhlen*
Present and future of ancillary services in Norway

13:30 to 15:30 – *Lunch*

15:30 to 17:00 – *Mr. P. Bertolini and Mr. F. Guy*
Present and future of ancillary services in France

Thursday November 15th

8:30 to 10:00 – *Mr. R. Martinez Campillo*
New ancillary services provided by generators

10:00 to 11:30 – *Dr. J. Peças*
Distributed generation challenges in ancillary services

11:30 to 12:00 – *Coffee break*

12:00 to 13:30 – *Dr. T. van Cutsem*
Ancillary services and voltage stability control

13:30 to 15:30 – *Lunch*

15:30 to 17:00 – *Dr. L. Meeus*
Design and development of ancillary services markets

Friday November 16th

8:30 to 9:30 – *Mr. J. M. Rodríguez*
Ancillary services role in UCTE power system security

9:30 to 10:30 – *Ms. E. Giraut*
Wind power participation in ancillary services

10:30 to 11:30 – *Mr. J. V. Ordóñez*
New traders in ancillary services markets

11:30 to 12:00 – *Coffee break*

12:00 to 13:30 – *Round table*

Instructors

- Ms. Maria Luisa Llorens, REE, Spain.
- Mr. Kjetil Uhlen, SINTEF Energy Research, Norway
- Mr. Pascal Bertolini, RTE, France.
- Mr. Fabrice Guy, RTE, France.
- Mr. Rodolfo Martínez Campillo, Iberdrola, Spain
- Dr. João Peças, INESC Porto, Portugal
- Dr. Thierry Van Cutsem, University of Liège, Belgium
- Dr. Leonardo Meeus, Katholieke Universiteit Leuven, Belgium
- Mr. Juan Manuel Rodríguez, REE, Spain
- Ms. Elizabeth Giraut, Acciona Energía, Spain
- Mr. José V. Ordóñez, Global 3 Energía, Spain
- Dr. Ignacio Egido, Universidad Pontificia Comillas, Spain
- Dr. F. M. Echavarren, Universidad Pontificia Comillas, Spain

Course Coordinators

Dr. Ignacio Egido

email: egido@iit.upcomillas.es

Dr. F. M. Echavarren

email: francisco.echavarren@iit.upcomillas.es

Instituto de Investigación Tecnológica

Universidad Pontificia Comillas de Madrid

<http://www.iit.upcomillas.es>

Course information at

<http://www.eesuetp.unibo.it>