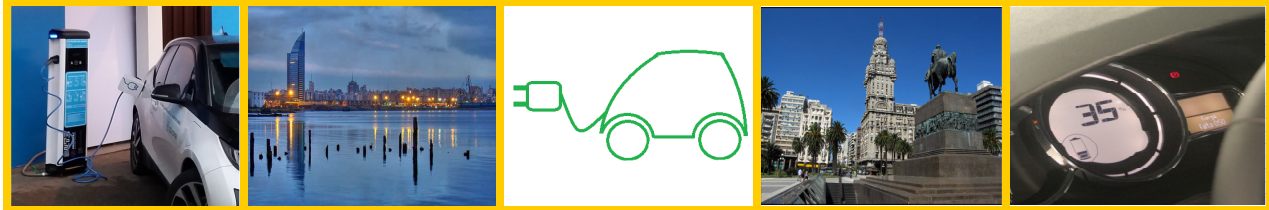




## International Electric Mobility Seminar Challenges and Solutions



October 22-23, 2018, Montevideo, URUGUAY



### Seminar Objectives

CUGRE with the support of RIAC (Cigré Iberoamerican Region) is organizing the **International Electric Mobility Seminar – Challenges and Solutions** following the Cigré aims. It will be held in Montevideo, URUGUAY.

The current global mobility system it is mainly made up of Internal Combustion Engine Vehicle - ICEV. The ICEVs use fuel derived from petroleum which, after the combustion process, generates gases and particles harmful to the environment. This fact added to the variations in the price of oil and the low energy efficiency of the ICEVs has led to the development of other mobility alternatives.

In this context, Plug-in Electric Vehicles – PEVs, emerge as a mobility alternative overcoming the difficulties of the ICEVs. The PEVs are driven by electric motors that are supplied with energy through batteries that are recharged by connecting them to the electrical network.

Currently, PEVs are produced on a large scale by major automotive companies due to the rapid acceptance by consumers and economic incentives given by governments. This situation will lead to the large-scale connection of PEVs in electrical Distribution networks in the coming years.

From an electrical point of view, the process of recharging PEVs implies a considerable addition of demand to the Distribution systems which, if not properly managed, can cause several types of problems.

However, the PEVs can also be used to provide auxiliary services to the electrical network, which can be very useful.

The large-scale incorporation of PEVs requires analysis and solutions of the operational challenges, in order to identify the impacts on the Distribution networks and the demand, how to develop adequate recharging strategies, to build up market and business models and to create environmental awareness.

The challenges imposed by the new technologies of electric mobility, motivated the realization of this Seminar.

In this Seminar these topics will be presented by national and international experts invited by CUGRE.

### Suggested Topics

- Introduction to Electric Mobility
- Impact on the electrical network: planning, operation and load management
- Recharge Infrastructure for Electric Vehicles
- Management of Electric Vehicle Recharge
- Batteries
- System of charging: design and technical requirements towards the electrical network
- Regulatory and Market Aspects

### Confirmed Conferences

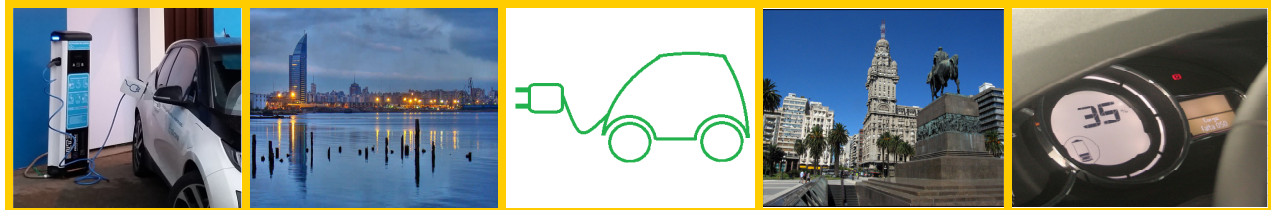
- **Mobility connects.** Eng. Eduardo Bergerie, UTE, Montevideo, Uruguay
- **Strategies to Manage Electric Vehicles Charging.** Prof. Filipe Soares, INESC TEC, Porto, Portugal.
- **Power System Impacts Resulting from EV Integration.** Prof. Filipe Soares, INESC TEC, Porto, Portugal.
- **Electrical alternatives for mass transport in Latin America.** Prof. Andrés Emiro Díez Restrepo, Universidad Pontificia Bolivariana, Medellín, Colombia.
- **Characteristic of the demand and infrastructure for the feeding of the feeding systems and recharging of electric modes: special cases in Latin America.** Prof. Andrés Emiro Díez Restrepo, Universidad Pontificia Bolivariana, Medellín, Colombia.



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- **Intelligent Electric Vehicle Recharge Systems.** Eng. Joan Hinojo, Circontrol S.A., España.
- **Challenges for electric mobility in public transport in Montevideo.** Lic. Carolina Romero, Intendencia de Montevideo, Montevideo, Uruguay.

- **The European Experience in Electric Vehicle Recharge Networks.** Eng. Joan Hinojo, Circontrol S.A., España.

**The Program**

- **Conference on technical aspects of batteries for electric vehicles.** Prof. Carlos Armenta Déu, Universidad Complutense de Madrid, Madrid, España.

- **Conference on possible re-use of batteries in EV: V2G System (Vehicle to Grid).** Prof. Carlos Armenta Déu, Universidad Complutense de Madrid, Madrid, España.

- **How do I charge my electric vehicle ? Opportunities for Electric Mobility in Uruguay.** Eng. Juan Zorrilla de San Martín, PROSEPAC, Montevideo, Uruguay.

- **Recharge infrastructure for Electric Vehicles in Uruguay.** Eng. Diego Bentancur, UTE, Montevideo, Uruguay.

- **Models and algorithms for charging electric vehicles in conditions of scarcity.** Eng. Andrés Ferragut, ORT, Montevideo, Uruguay.

- **MOVÉS Project: Efficient and Sustainable Urban Mobility.** Eng. Martín Piñeyro, DNE, Montevideo, Uruguay.

- **EUROCLIMA+ Program: Promotion of Sustainable Urban Mobility in Uruguay.** Eng. Antonella Tambasco, DNE, Montevideo, Uruguay.

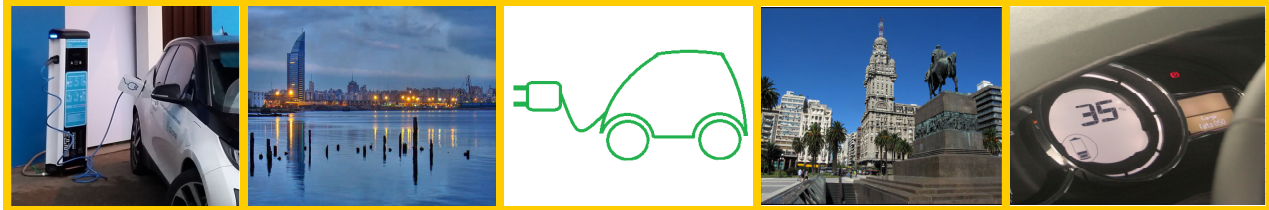
Monday 22/10/18	08:00 – 09:00	Registrations
	09:00 – 09:15	Opening UTE-CUGRE
	09:15 – 10:00	Cigre-RIAC Eng. R. Molina
	10:00 – 10:45	Eng.E. Bergerie
	10:45 – 11:15	Coffee Break
	11:15 – 12:15	Prof. C. Armenta
	12:15 a 12:30	Questions
	12:30 – 14:00	Lunch
	14:00 – 15:00	Prof. F. Soares
	15:00 – 15:45	Eng. J. Hinojo
	15:45 – 16:00	Questions
	16:00 – 16:30	Coffee Break
	16:30 – 17:30	Prof. A. Diez
	17:30 – 18:15	Eng. J. Zorrilla
18:15 – 18:45	Lic. C. Romero	
18:45 – 19:00	Questions	
Tuesday 23/10/18	09:00 – 10:00	Prof. F. Soares
	10:00 – 10:45	Eng. M. Piñeyro Eng. A. Tambasco
	10:45 – 11:15	Coffee Break
	11:15 – 12:15	Prof. C. Armenta
	12:15 – 12:30	Questions
	12:30 – 14:00	Lunch
	14:00 – 15:00	Prof. A. Diez
	15:00 – 15:45	Eng. J. Hinojo
	15:45 – 16:00	CUGRE Presentation
	16:00 – 16:30	Coffee Break
	16:30 – 17:15	Eng. D. Bentancur
	17:15 – 18:00	Eng. A. Ferragut
18:00 – 18:15	Questions	
18:15 – 18:30	Closing session	



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### Who Should Attend?

Energy and Transport Authorities, City Halls, Market Administrators, Energy Regulators, Managers, Utility Engineers, Automotive Companies, Transportation Companies, Consulting Companies, Electrical Technicians, Professors and Students, etc.

### Registration Fees

No CUGRE members: 3000 uruguayan pesos (USD 100.0)  
CUGRE members: 1500 uruguayan pesos (USD 50.0)  
Students: 1000 uruguayan pesos (USD 33.0)

### Registration Process

The registration Form is available on the web page of the CUGRE <http://www.cugre.org.uy>. The payment will be done at the event.

### Technical exhibition

Technical exhibition offers an interesting opportunity for the meeting and exchange of experiences and contacts. Different sponsorship type levels have been defined by the Organizing Committee. To get information about them please contact [info@cugre.org.uy](mailto:info@cugre.org.uy)

### Seminar Location

UTE, the state electric power utility of Uruguay is the hostess of the Seminar. It will be held at the auditorium of UTE, Paraguay Street 2431, 9<sup>th</sup> floor, Palacio de la Luz, Montevideo, URUGUAY.

### Web Page

The official website for accessing information about the Seminar is: <http://www.cugre.org.uy>

### Sponsors

The Organizing Committee wishes to thank the support of our sponsors:

#### Diamond sponsor



#### Platinum sponsor



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