

## Registration form

### International Workshop Opportunities and constraints of a transnational balancing market in Europe

17 September 2014

Università degli Studi di Trieste – Via Valerio 10

Title: _____	First Name _____	Last name _____
Organization _____		
Participant position _____		
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Signature : _____		

Workshop participation is free. Registration is required.

Please fill out and send the present form to: [manifestazioni@aeit.it](mailto:manifestazioni@aeit.it)

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## International Workshop

### Opportunities and constraints of a transnational balancing market in Europe



17 September 2014  
Università degli Studi di Trieste  
Aula Magna - Building H3  
Trieste, Via Valerio 10

## Abstract

Real time equilibrium between load and generation is key for a correct functioning of the electrical system. In the framework of the unbundling requested by the Third Package, balancing markets have finally been set-up in several European Countries, Italy included. However, these markets are affected by high prices due to the limited availability of reserves and to the non-interchangeability of the services that can be provided by generators in different locations. Additionally, as DG Competition noticed already in 2007, national balancing markets are often very concentrated, with strong barriers to the entrance of new subjects, and market power potential is, consequently, high. Hence, the idea of creating a pan-European balancing market. Such market is envisaged in the Network Code on Electricity Balancing by ENTSO-E, presently drafted and in the path of approval by ACER. In this document, a common-merit-order market architecture is supposed implemented at the end of a gradual process where Coordinated Balancing areas are gradually extended and integrated, with a process similar to the one presently actuated in Europe for the market coupling of the day-ahead national markets. Research is also engaged in analyzing the advantages of would-be trans-national balancing markets. In particular, eBADGE (<http://www.ebadge-fp7.eu/>), a European project co-funded under the 7th Framework Program, aims at studying possible mechanisms of a pan-European balancing market able to integrate the role of Virtual Power Plants while optimizing the usage of the trans-national tie-lines. In this framework, a balancing market simulator for the three countries Italy, Slovenia and Austria was developed and the possible advantages for the three countries investigated.

The workshop, will bring on one side the opinion of the institutions, national and international, on the development of a trans-national balancing markets and on the other side will present the vision of the project eBADGE. The results of the eBADGE trans-national balancing simulator will provide a rough evaluation of the economic effects of a possible trans-national balance between Austria, Italy and Slovenia.

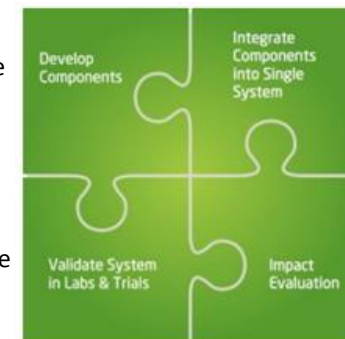
**AEIT Annual Conference 2014 From research to industry: the need for a more effective technology transfer, Trieste, September 18-19, 2014** The Workshop will be held the day before AEIT Annual Conference 2014, in the same venue: workshop participants are invited to attend the conference. Special reduction fees for workshop participants will be granted (25% reduction for all conference participation, 15% reduction for One-Day participation). See <http://www.aeit.it/man/CA2014> for details.

## Program

14.00-14.15	Welcome coffee and registration
14.15-14.30	Introduction to the workshop ( <i>G. Migliavacca, RSE</i> )
14.30-14.50	The ENTSO-E Code on Electricity Balancing: role and timing for a transnational management of balancing ( <i>M. Vukasovic, ENTSO-E</i> )
14.50-15.10	Cross-border balancing: regional developments in Austria and Slovenia ( <i>D. Kramar, ELES</i> )
15.10-15.30	Potential national opportunities from cross-border balancing: position of the Italian TSO ( <i>TERNA</i> )
15.30-15.50	Cross-border balancing and regulation: the position of AEEG and ACER ( <i>F. Cariello, AEEGSI</i> )
15.50-16.10	Large GenCos' view ( <i>L. Michi, ENEL</i> )
16.10-16.30	Market Operators' view ( <i>B. Rajer, A. Šavli, Borzen</i> )
16.30-16.50	The project e-BADGE ( <i>P. Nemcek, Cybergrid</i> )
16.50-17.10	The e-BADGE simulator: a simplified analysis of the advantages of a common management of balancing between Austria, Italy and Slovenia ( <i>A. Zani, RSE</i> )
17.10-17.30	Conclusions ( <i>G. Migliavacca, RSE</i> )

## eBadge – the pan-European solution, a way forward for integrating the European electricity market

The overall objective of the eBADGE project is to propose an optimal pan-European Intelligent Balancing mechanism to integrate Virtual Power Plant Systems by means of an integrated communication infrastructure that can assist in the management of the electricity transmission and distribution grids in an optimized, controlled and secure manner.



In order to achieve this objective the eBADGE project is developing a suite of components: a simulation and modeling tool for studying the integrated balancing and reserve market; a unified data-exchange standard using a high performance message bus between balancing and reserve entities; and VPP data analysis, optimization and control strategies.

These components are being integrated into a single pilot eBADGE Energy Cloud that will, along with the other components be validated through tests in the lab and a real world field trial.

Of course the benefit of technology is limited unless applied for the benefit of all stakeholders. For this reason related business models integrating energy, ICT and residential consumer benefits are also developed.