

**EPE-PEMC 2012: ECCE Europe  
15th International Power Electronics and Motion  
Control Conference  
Novi Sad, Republic of Serbia**

**INVITED SPECIAL SESSION: “New Technologies in  
Electric Power Transmission”**

**organised by**

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**Call for Papers**

There is a strong call for more transmission capacity all over the world. The ever-growing need for transporting more electricity can be met either by installing new transmission lines or by using the existing ones in a more efficient way.

The most economical way to transfer bulk power along a desired path can only be achieved through the independent control of active and reactive power flow in a transmission line. High-voltage direct current (HVDC) and FACTS technologies appear especially attractive for power flow control. Short-term energy storage can aid in power flow control. However, technologies such as large-scale FACTS generally require the support of a wide-area measurement system (WAMS). Without a WAMS, a FACTS or any major control system technology cannot be adjusted to deliver its full value and, in extreme cases, may interact adversely with other equipment. FACTS and HVDC technology can provide transmission “muscle” but not necessarily the “intelligence” for applying it. Innovations on HVDC, FACTS and WAMS are fundamental to create the basis to the next generation of power grids. All these technological issues have to be developed to construct smart grids involving transmission networks, to increase the reliability, efficiency and safety of the whole electric power system.

**Submission procedure: The same as for regular papers.**

**Submission deadline:** 19th December 2011

All the instructions for paper submission are included on the conference website:  
<http://epe-pemc2012.com/>