



# Call for Papers

International Conference on Power Electronics Systems and Applications  
(PESA) –Charging System & Energy Storage

8 – 10 June 2011

<http://perc.polyu.edu.hk/pesa2011>

Hong Kong • Shenzhen

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The Forth International Conference on Power Electronics Systems and Applications will be held on 8 - 11 June 2011, located in Hong Kong and Shenzhen. This year, the conference theme is **Charging System & Energy Storage**. The 3-day conference will include keynote speeches by renowned industrialists and researchers at the Hong Kong Polytechnic University, networking event at Hong Kong Science & Technology Parks, open panel discussion forum on Future Charger and Standard, as well as tentatively schedule on-site factory tour to BYD Auto and Daya Bay Nuclear Power Plant, in Shenzhen, China.

An optional excursion technical visit to Shanghai – Suzhou - Wuxi – Nanjing to eminent key laboratories in China and leading manufacture and design of photovoltaic (PV) inverters and systems is also lined-up.

The conference will cover topics of current interest in the area of automotive engineering, alternative energy source, charging technology, circuits and circuit topologies of EV charger, smart grid and charging, energy storage systems, and related fundamentals and materials in relation to battery development and EMI/EMC issues.

The conference is supported by a number of electric vehicle, environment and energy related organisation and industry. Now the Organizing Committee sincerely invites potential authors to submit quality papers in the areas listed below. Selected papers will be published in the Asian Power Electronics Journal.

### Topics of interest (but not limited to):

#### Charging Technology:

Conductive charging  
Inductive charging  
Regenerative charging  
World standard and practices of EV  
Charging profiles, power management  
Design of charging station  
Fare collecting technologies of EV charging systems

#### Circuits and Circuit topologies of EV charger:

Various converter circuits and topologies  
Improvements in efficiency  
Quick charging circuits  
Intelligent charging circuits

#### Smart Grid, RE and Charging:

Integrating EV charging into smart grid  
Smart metering for EV Charging  
Application renewable energy to EV charging  
RE: Wind, solar, hydro-electric, energy for charging  
Combining EV Charging, RE and smart grid

#### Energy Storage Systems:

Battery systems  
Fuel cells  
Super capacitors  
Superconductors  
Flywheels  
Compress air systems  
Other energy storage systems  
Integration of various energy storage systems  
Condition monitoring, diagnosis and sensing systems  
Related power / energy management systems

#### Related Fundamentals and Materials:

Motors, drive and actuators  
New materials for batteries/fuel cells  
Other energy storage systems  
Semiconductor technology  
Electrical/Electronic materials and process  
Electromagnetic fields analysis  
EMI/EMC issues  
Application of information technology  
Energy conversion



Co-organized by:



Supported by:



Deadlines:

Submission of Abstract  
15 January 2011

Notification of Abstract  
Acceptance  
31 January 2011

Submission of Final  
Papers  
15 April 2011

## Registration Fee (Hong Kong Dollar)

Types	Delegate	Member of IEEE or HKIE	Member of PERC	Full-time Student
Before 1 Mar, 2011	5000	4500	4000	2500
After 1 Mar, 2011	5500	5000	4500	3500

Note: Max. 2 papers per presenter. Registration for Industrial Session Presentation is \$7000.

Registration fee includes all conference sessions, a conference kit, conference proceedings, daily coffee breaks, lunches, buffet dinner conference banquet, inter-transportation to conference venues, and Day-3 transportation to Shenzhen, China for site visit (tentative schedule: BYD Auto and Daya Bay Nuclear Power Plant).

The optional excursion technical visit to Shanghai – Suzhou - Wuxi – Nanjing is not included in the conference fee. Browse through our website on ‘excursion program’ for more details.

## Paper Submission:

Information about abstract and paper submission, including paper format, can be found at <http://perc.polyu.edu.hk/pesa2011>

## General Enquires

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Payment should be sent by post to:

Ms Canary Tong, Secretariat of PESA Conference, Department of Electrical Engineering, The Hong Kong Polytechnic University, Hung Hom, Hong Kong. Cheques should be made payable to “The Hong Kong Polytechnic University”. Please mark ‘PESA 2011 Conference’, <your name> and <conference paper number> at the back of the cheque. Credit card payment is also accepted, details can be on the conference website, or call Ms. Canary Tong (852) 2766 6172.

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