

# 1<sup>st</sup> Announcement and Call for Papers

## 20<sup>th</sup> Annual PQSynergy™ International Conference and Exhibition

September 14<sup>th</sup>—16<sup>th</sup>, 2022, Holiday Inn Bangkok Sukhumvit, Thailand

### Introduction

Welcome to the 20<sup>th</sup> Annual PQSynergy™ International Conference and Exhibition which will be held from September 14<sup>th</sup> - 16<sup>th</sup>, 2022, Bangkok, Thailand.

For 20 years, this conference has been recognized as an international forum to share experiences, information, requirements, problems and solutions on the state of the art for Power Quality, Energy Efficiency and Smart Grid.

PQSynergy™ is an excellent networking opportunity in an informal atmosphere with presentations from around the world.

- ◆ Utilities will share their experiences in the area of power quality.
- ◆ Large power users will share their present and future expectations for power quality.
- ◆ Equipment suppliers will share their overall market perspective and their specific solutions for power quality problems.



#### Conference Schedule:

- ◆ **Registration:**  
Until Friday, August 12<sup>th</sup>
- ◆ **Abstract Submission:**  
Wednesday, August 17<sup>th</sup>
- ◆ **Notification of Acceptance:**  
Friday, August 26<sup>th</sup>
- ◆ **Final Full Paper Submission:**  
Tuesday, August 30<sup>th</sup>

#### Conference Program:

- ◆ **Wednesday, September 14<sup>th</sup>:**  
Power Quality
- ◆ **Thursday, September 15<sup>th</sup>:**  
Energy Efficiency & Renewable Energy
- ◆ **Friday, September 16<sup>th</sup>:**  
Electrical Distribution Efficiency  
(half day session)

#### Program Focus

##### Day 1: Power Quality

Power Quality day with special focus on new sources of PQ data for electrical distribution networks (Smart meters with PQ, Low Voltage transformer monitoring, substation monitoring), impact of Smart Grid and IEC61850 & digital relays.

##### Day 2: Energy Efficiency & Renewable Energy

Energy Efficiency day with special focus on energy losses in the electrical distribution network, conservative energy technology and solution, renewable generation (solar, wind, biofuels) and the impact on electricity supply.

**Day 3: Electrical Distribution Efficiency**  
(half day session), afternoon half day tour program.

### Scope of Papers

#### Power Quality Monitoring and Solutions

- ◆ Harmonics and Filtering
- ◆ Power Conditioning Methods
- ◆ PQ Case Studies from Industry
- ◆ Power Quality Instrumentation
- ◆ Surge Suppression Technologies
- ◆ Voltage Sag Mitigation Technology
- ◆ Voltage Stability
- ◆ Power Quality through Renewable Generation
- ◆ IEC 61850 and Digital Relays

#### Energy Conservation and Management

- ◆ Energy Management Systems
- ◆ Energy Saving Devices or Systems
- ◆ Site Energy Audits and Analysis
- ◆ Batteries and Battery Systems
- ◆ Superconducting Magnetic Storage
- ◆ Flywheels (high/low speed)
- ◆ Ultra/Super Capacitors
- ◆ Inverter Technology for Solar Plant
- ◆ Improving Energy Efficiency

#### Smart Grid

- ◆ Renewable Generation, Solar and Wind Power
- ◆ Distributed Regulation
- ◆ Distributed Generation
- ◆ Intelligent Electronic Devices
- ◆ Grid Sensors
- ◆ Integration of Data from Multiple Sources
- ◆ Networking, Communications and IT
- ◆ The Impact of the Integration of Green Power Sources
- ◆ The Impact of Smart Grid Technologies on Power Quality

#### Compatibility & Compliance

- ◆ PQ Standards, Codes & Practices
- ◆ PQ Testing and Measurements
- ◆ IEEE and IEC Standard

*All papers will be published on  
[www.pqsynergy.com](http://www.pqsynergy.com)*

#### Contact Details:

##### PQSynergy™ Office

Power Quality (Thailand) Co., Ltd.  
52/44 Moo 1, Soi Ramkamhaeng 90,  
Ramkamhaeng Rd., Sapansoong,  
Bangkok 10240, Thailand  
Tel: + 66-2-3736340  
Fax: +66-2-3732532  
Email: [arreerat@powerquality.co.th](mailto:arreerat@powerquality.co.th)

[www.pqsynergy.com](http://www.pqsynergy.com)

### Venue Perspective

Bangkok is always among the world's top tourist destinations. The city is a true tourist paradise, proved by the growing number of travelers coming each year. There are a great variety of tourist places in Bangkok, mostly historical attractions and temples with elaborate architecture and art. Famous temples are Wat Phra Kaew, Wat Pho, Wat Arun, Wat Phu Khao Thong, Wat Traimit, Wat Benchamabophit, Wat Bowon, and Wat Sutat. There are also palaces, museums, parks, and a big array of shopping places, from luxury malls to flea and street markets like Chatuchak Weekend Market, Sampeng Market, and Pahurat Textile Market. Bangkok nightlife is another highlight that has attracted many of tourists from all over the world.



Source: [www.tourismthailand.org](http://www.tourismthailand.org)

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