

IEEE PES - Professional Development and Networking for Today and Tomorrow



Noel N. Schulz, IEEE PES President
Kansas State University
September 24, 2012



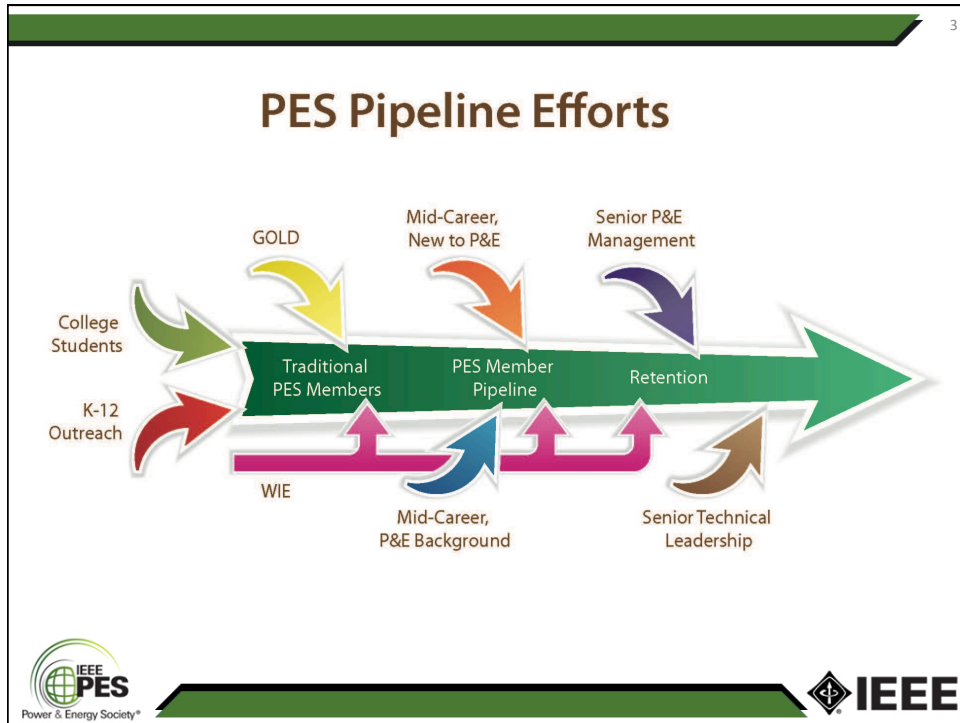
IEEE PES Mission Statement

*To be the **leading provider** of scientific and engineering information on electric power and energy for the betterment of society and the preferred professional development source for our members*



www.ieee-pes.org





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PES Governing Board Goals for 2012

1. Enhance, Document and Extend PES Level Strategies and Partnerships
2. Expand quantity and diversity of PES Membership
3. Increase member involvement and knowledge of membership benefits

PES Elected Officers 2012



Noel Schulz
President



Miroslav Begovic
President-Elect



Al Rotz
Past President



Chris Root
Secretary



Lina Bertling Tjernberg
Treasurer

IEEE PES Executive Office Staff




Pat Ryan, Executive Director

<http://www.ieee-pes.org/about-pes/pes-staff>

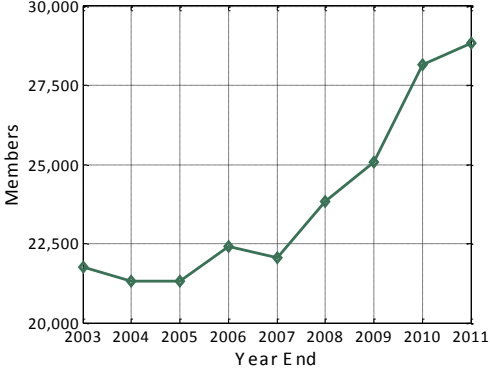



PES Membership



- +29,000 members
- Third largest IEEE Society
- Rapid membership growth



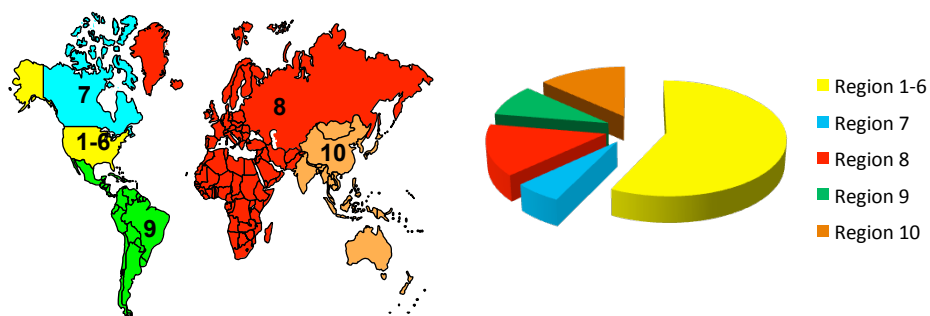
Henry Louie



Year End	Members
2003	21,500
2004	21,200
2005	21,300
2006	22,500
2007	22,000
2008	24,000
2009	25,000
2010	28,000
2011	28,500

PES Members by IEEE Region



IEEE PES – Resources for Today and Tomorrow



MEMBERSHIP HAS ITS PRIVILEGES!

New Welcome Video for Members

<http://www.youtube.com/watch?v=fFWewsHtGM8&feature=youtu.be>






Chapters



Meliha Selak



Regional Representatives



Frank Lambert
Region 1-7



Costas Vournas
Region 8



Nelson Segoshi
Region 9





Lalit Goel
Region 10

- Grassroot Interactions of Power & Energy Community
- Over 230 and Growing (9 new Chapters, 9 new Student Chapters in 2011)
- Distinguished Lecturer Program

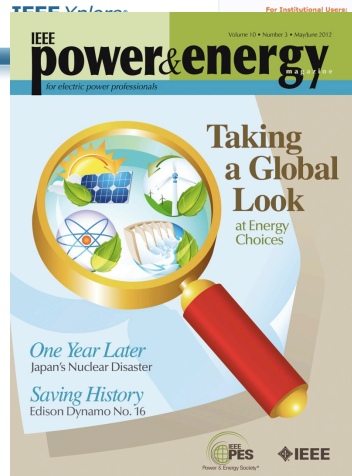
Strategic Activities Worldwide

- EEA –Electricity Engineers’ Association, New Zealand
- CSEE – Chinese Society of Electrical Engineers
- CIGRE
- SAIEE – South Africa Institute of Electrical Engineers



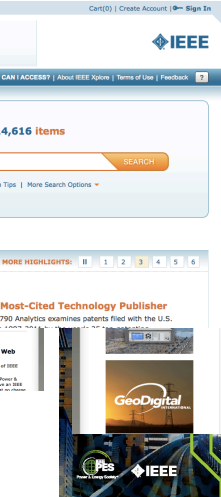
PES Publications



power&energy
for electric power professionals

Taking a Global Look
at Energy Choices


One Year Later
Japan's Nuclear Disaster
Saving History
Edison Dynamo No. 16




14,616 Items

Most-Cited Technology Publisher

1790 Analytics examines patents filed with the U.S.



Saifur Rahman



NewsUPDATE
Advancing Technology For Humanity

June 2012

Voice of the GovBd
Jay Giri, Member at Large

Feature Article
Larin, Google Science Fair Finalist

GeoDigital

Annual Calendar

PES Conferences and Meetings



Bill Rosehart

- Financially Sponsored Conferences around world
- Partnering for Technically co-sponsored conferences
- International and Regional Scopes
- Emerging Topics



PES – Networking & Dissemination through Technically Co-Sponsored Meetings '06-'12



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Education





- **Resources**
 - Tutorials
 - E-Learning Module (New Smart Grid units)
 - Plain Talk Courses for Non-Engineering Professionals
 - Videos







IEEE PES Scholarship Plus Initiative™



- Started in 2011 with 93 Scholars
- **Funding**
 - PES provided \$1M seed funding in 2010
 - Seeking \$10M in philanthropic donations over 3 years
 - Leadership gifts from S&C Electric and Schweitzer Engineering Labs of \$1M each
- **Offering**
 - Scholarship: \$2000, \$2000 and \$3000 in year 1, 2 and 3
 - Career experiences
 - Mentors
- **Working to expand beyond Regions 1-7**




Apply online:

- www.ee-scholarship.org
- Applications were due by June 30, 2012
- Awardees notified in September, 2012

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Technical Activities


Damir Novosel

19 Technical Committees and 4 Coordinating Committees Including Intelligent Grid Coordinating Committee


- Reviews for Transactions and GM/ T&D Conference Papers
- Panels, Sessions, Subcommittees, Working Groups, Task Forces
- Standards





**2012 IEEE Power & Energy Society
General Meeting**
22–27 July 2012
San Diego, California USA



***"New Energy Horizons –
Opportunities and Challenges"***










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Many Standards and Guides Urgently Needed

- Interoperability among recognized Smart Grid standards
 - E.g. systems that include the use of both IEEE 1815 (DNP3) and IEC 61850 devices / subsystems – huge investments had been made in DNP3 systems and will be made in both DNP3 and 61850 systems in the future
 - Harmonization of IEEE C37.118 and IEC 61850
- Development of new standards / guides
 - Major investment in synchrophasor projects, while standards are still in the development
- Need for guidelines & methodology for AMI meter conformance testing and Cyber security assessment
- Electric vehicles: Assess usage patterns and grid infrastructure impact/needs

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Robin Podmore

New Initiatives and Outreach

Development teams experiment with wind and manual power generation for low-cost battery charging and lighting solutions.





Lighting Up The World


- Sustainability
- Scalable Energy
- Community Empowerment



Community Solutions Initiative
<http://communitysolutionsinitiative.org/>
 Low cost, local efforts for electrification in developing countries





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Erich Gunther
Smart Grid

Members-At-Large

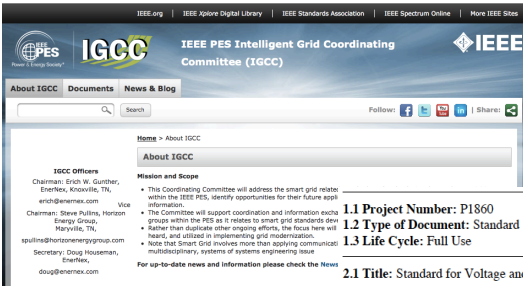


Tom Prevost
Standards







P1860
P1861
P1862




1.1 Project Number: P1860
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Voltage and Reactive Power in 1000kV or Greater (Ultra High Voltage) AC Systems

3.1 Working Group: Ultra-High Voltage AC Standards Working Group (BOG/CAG/UHV-WG)


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Mike Jensen
PES Resource Center

Members-At-Large

IEEE PES Store
<http://www.pes-store.org/>



Jay Giri
Industrial Leadership




Power & Energy Society®

PES Resource Center Home

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Featured Product



IEEE PES 2011 General Meeting: Members Meeting Plenary Session

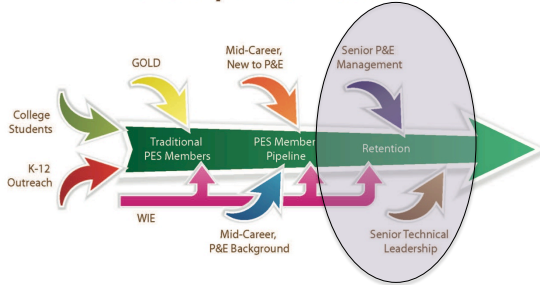
Part Number: TP309
PES Member: Free
IEEE Member: Free
Non-Member: Free





A Small Utility's Perspective on CIP Version 4

Part Number: TP458
PES Member: Free
IEEE Member: Free
Non-Member: \$5.00

PES Pipeline Efforts




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IEEE Initiatives & PES

- Smart Grid
- Electric Transportation
- Cloud Computing
- Open Access Publication Opportunities
- IEEE President Elect Candidates






Cheri Warren
Division VII Director
IEEE Board of Directors

J. Roberto B. de Marca



Tariq S. Durrani



Smart Grid Web Portal

<http://smartgrid.ieee.org/>

A gateway to IEEE Smart Grid information A few of the features:

- Connections to social media groups
 - Smart Grid Videos
 - Top articles and auto-import of IEEE IP
 - Q&A With Experts
 - Content from IEEE Xplore
 - Smart Grid "News" and event calendar
 - Monthly newsletter
- Launched in Jan 2011



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<http://electricvehicle.ieee.org/>

<http://cloudcomputing.ieee.org/>




Other PES Initiatives for 2012

- **Community Summits** to engage community stakeholders for utility modernization efforts

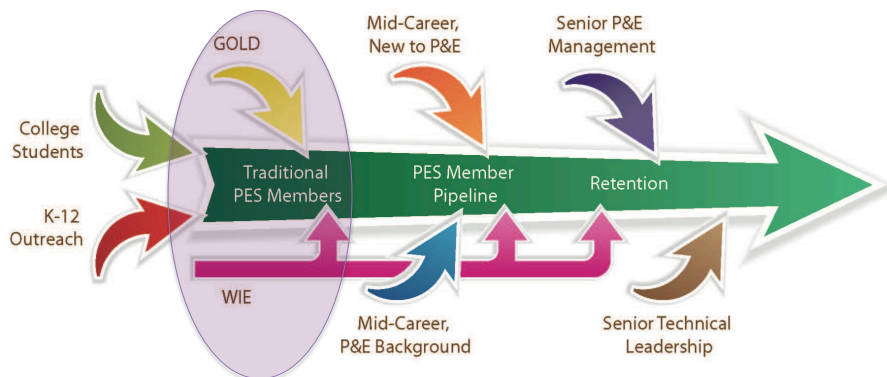


- **New Magazine Marketing** – Electrification
 - New electrification activities – Electric Transportation: Cars, Trains and Ships; Rural Electrification, Micro-grids and Distributed Generation
- **PES Communications Audit** – How can we communicate better with PES volunteer leaders and members?
 - Training, Mentoring, Website, E-newsletters, Email, Linked In, Facebook, Twitter,

#pes_gm for 



PES Pipeline Efforts



Extending activities for Women in Engineering (WIE) and Graduates of the Last Decade (GOLD) at PES sponsored conferences and chapters worldwide



Keep informed and get involved!

Noel's Notes – Update from PES President - IEEE Power and E... <http://www.ieee-pes.org/er>

Noel's Notes – Update from PES President

Dear PES Members:

Welcome to 2012! I am very excited to have an opportunity to be the PES President for the next two years. It is a great time to be part of the power and energy area. One of my major goals during the next two years is to provide regular communications to PES members about activities of myself, the PES Governing Board and other PES leaders. I will have a monthly article in the e-newsletter to keep you updated on the latest happenings.

We have lots of momentum headed into this new year. I would like to recognize and thank Al Rotz for his leadership the last two years. I will continue to rely on Al for his leadership as Immediate Past President.

Also I would like to acknowledge folks who completed their Governing Board terms in 2011. Welcome to the new members of the Governing Board.



Monthly Update
in E-Newsletter

Smartgrid.ieee.org
 @ieeesmartgrid

www.ieee-pes.org
www.ieee.org
 @ieee_pes

Email:
n.schulz@ieee.org
 @ieeepes_noel



IEEE and PES built to last by members and volunteers



Power & Energy Society®

