AWEA Wind Technical Standards
Committee Membership
Application

How to apply:

CONTACT INFORMATION (please complete all fields)

<table>
<thead>
<tr>
<th>Organization Name</th>
<th>Date</th>
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<tbody>
<tr>
<td>Acciona Energy</td>
<td>9/24/2018</td>
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<table>
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<tr>
<th>Phone (Main Number)</th>
<th>Fax</th>
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<tbody>
<tr>
<td>312-673-3000</td>
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<table>
<thead>
<tr>
<th>Street Address</th>
<th>City and State / Province</th>
<th>Zip / Postal Code</th>
<th>Country</th>
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<tbody>
<tr>
<td>55 E Monroe</td>
<td>Chicago, IL</td>
<td>60603</td>
<td>USA</td>
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<thead>
<tr>
<th>Representative Name</th>
<th>Job Title</th>
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<tbody>
<tr>
<td>Christopher Petrola, P.E.</td>
<td>Manager, Electrical Engineering</td>
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<thead>
<tr>
<th>Email</th>
<th>Phone (Direct)</th>
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<tbody>
<tr>
<td><a href="mailto:cpetrola@acciona.com">cpetrola@acciona.com</a></td>
<td>312-673-3085</td>
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<tr>
<th>Alternate Name</th>
<th>Job Title</th>
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<tbody>
<tr>
<td>David Gladem</td>
<td>Director, O&amp;M</td>
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<tr>
<th>Email</th>
<th>Phone (Direct)</th>
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<tbody>
<tr>
<td><a href="mailto:dgladem@acciona.com">dgladem@acciona.com</a></td>
<td>312-673-3098</td>
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Membership Category

- **Owners/Operators/Developers** – members representing an organization(s) or company or companies that will be responsible for the development, management of operations and/or ownership interest in a wind energy project or plant.
- **Producers** - members representing manufacturers of components, supply chain manufacturers, or original equipment manufacturer (OEM)
- **Technical** – members with specific technical knowledge.
- **Consultants** – members representing organizations or companies that provide consultants, engineers, architects, inspection and testing firms, each providing advice, information and services for the wind industry and organizations that represent any of the above.
- **General Interest** – all other organizations if these are not otherwise classified within another specific category. Individuals with a demonstrated interest or expertise in wind industry standards, and not classified in any of the other categories. These organizations will be requested to describe their type of organization, with other examples including: trucking or transportation companies.
Experience and Qualifications

1. Provide an explanation of your general knowledge and competence in the scope (work) of the AWEA Wind Standards Committee:

Chris is a registered Professional Engineer who has been in practice for over 13 years in Electrical Engineering design, field engineering, forensic engineering, engineering projects, and operations & maintenance. He is also a member of IEEE, the IEEE Power Engineering Society, and the IEEE Standards Committee. He is also the chair of the AWEA BoP Working Group.

2. What perspective will you be able to provide to the AWEA Wind Standards Committee:

Chris will be able to provide a diverse perspective as he has both spend time in the field as a hand on field engineer, behind drawings performing engineering design, and in management as an engineering manager.

3. Other relevant activities that should be considered in evaluating this application:

Chris has spent time in both traditional power generation and renewable power generation. This knowledge of both power generation businesses and processes will provide additional perspective and knowledge to the standards committee.

4. Please submit a resume, if one is available, detailing your work history, experience, and education.

Attached for reference

5. If you selected, technical, consultants, or general interest membership categories, please provide additional information in your area of expertise or experience:
Membership Responsibilities and Policies

I, the undersigned, acknowledge that my membership in the AWEA Wind Standard Committee is subject to compliance with the following policies and procedures: Code of Ethics, Ground Rules, Patent Policy and Guidelines, Standard Development Procedures, and that this application becomes a binding agreement upon acceptance by AWEA and is subject to the terms and conditions that constitute a part of, or are included in, this application. In addition, I understand that membership responsibilities include volunteering to help draft requirements, if the requirements are in the committee member’s field of expertise.

Signature

Year 2018
PROFESSIONAL EXPERIENCE:

Acciona Energy North America, Chicago, IL

Manager, Electrical Engineering (2015 to Present)
- Manage and lead an engineering team responsible for the electrical substations, electrical collection systems, SCADA systems, electrical transmission lines, and major electrical components within the Acciona Energy North America (AENA) fleet of renewable energy assets
- Grew the AENA engineering team from a single engineer to a team of five engineers and technicians
- Responsible for all electrical engineering and SCADA projects on the AENA fleet
- Created and is the lead trainer of the Qualified Electrical Worker (QEW) program for AENA
- Represent Acciona Energy in numerous industry conferences, including AWEA and IEEE

Senior Operations Engineer (2013 to 2015)
- Served as project manager and lead engineer for multiple upgrades and modifications to improve the reliability and increase the realized production of the Acciona fleet
- Have led the Root Cause Analysis of major failures in the AENA fleet to identify the cause of the failures and mitigation options to prevent future failures from occurring
- Performed front line forensic engineering analysis and lead the return to service for major equipment failures

Operations Engineer (2009 to 2013)
- Designed, implemented, and maintain the AENA high voltage substation and balance of plant maintenance and inspection program.
- Responsible for the creation of Operations and Maintenance monthly reports that are provided to investors to show the condition of the assets.
- Responsible for the creation of weekly and monthly Operations and Maintenance reports provided to executive management in Acciona.
- Created the Annual Operating Plans for all AENA operating assets.
- Served as AENA Subject Matter Expert (SME) for multiple NERC Standards
**American Electric Power, Columbus, OH**  
**Electrical Engineer, TGPSE Section** (2004 to 2009)
- Responsible for the inspection, testing and maintenance recommendations of generators and excitation systems throughout the AEP system. This includes fossil, hydro, and nuclear facilities.
- Responsible for the recommendation and implementation of multimillion-dollar system upgrade projects including cost justification, specifications, bid review, purchasing, design, installation, and start up.
- Perform many quality inspections and audits of major manufacturing and repair facilities for generators, large motors and excitation systems.
- Provide front line forensic engineering studies on equipment and system failures.
- Perform laboratory testing, investigation, and dissection on many styles of generator stator bars and coils. This includes multi-turn coils, water-cooled stator bars, gas inner-cooled stator bars, and conventional stator bars.
- Attend numerous industry and large OEM user group conferences and seminars. This includes, but is not limited to IEEE, EPRI, General Electric, and Siemens.

**GE Industrial Systems, Mebane, NC**  
**Application and Quotation Engineer** (Summer and Fall of 2002)
- Responsible for quotations of low voltage and medium voltage motor control centers.
- Won over $1.1 million in sales of low and medium voltage motor control centers.

**GE Industrial Systems, Bridgeville, PA**  
**Sales Engineer Assistant** (Spring and Fall of 2001)
- Responsible for quoting and managing large and small projects.
- Performed general troubleshooting and problem solving.
- Headed the roll out of a customer director-ordering program.

**EDUCATION**  
**The Ohio State University, Columbus, OH**  
Bachelor of Science in Electrical Engineering, 2004

**LICENSES:**
- Professional Engineer (P.E.) registered in the state of Ohio

**SKILLS:**
- Proficient in Microsoft Office
- Very proficient in the development, reading, and redlining of technical drawings.
- Strong project management, presentation, communication (both verbal and written), and negotiation skills

**PROFESSIONAL MEMBERSHIPS and ORGANIZATIONS:**
- Member of IEEE
  - IEEE Power Engineering Society
  - IEEE Standards Committee
- American Wind Energy Association (AWEA)
  - Chairman of Balance of Plant Working Group