

IEEE INDUSTRY APPLICATIONS SOCIETY
Linking Research to Practice

Industrial & Commercial Power Systems Technical Conference

IEEE Data Center Subcommittee


Presented by: Keith Waters, P.E. C.E.M.
Vice-Chair – Data Center Subcommittee

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Industrial & Commercial Power Systems Dept. (I&CPS):




I & CPS
Industrial & Commercial Power Systems


IEEE IAS I&CPS Department



Part of IEEE's Industry Applications Society (IAS)



Focus: electric power generation, transmission, and distribution technology in industrial, commercial, and institutional facilities. It also includes rural or agricultural applications.



I&CPS's annual technical conference brings together both experienced and younger engineers. It features papers and industry presentations on many aspects of industrial and commercial power systems.

PSE | Power Systems Engineering Committee ▶

PSP | Power Systems Protection Committee ▶

ESC | Energy Systems Committee ▶

C&S | Codes & Standards Committee ▶

REPC | Rural Electric Power Committee

SDC | Standards Development Committee

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About the Industry Applications Society's *Data Center Subcommittee*


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IAS Links Research to Practice: We meet the engineering needs of industry and commerce through the advancement of theory and practice in design, manufacturing, and application.

Scope of the IAS Data Center Subcommittee: The treatment of all matters within IAS that specifically relate to Data Center "Gray Space."

- This encompasses electrical supply, distribution, and utilization of equipment on the customer side of the utility meter.
- We are the data center authority for the IAS' Industrial and Commercial Power Systems Dept.


We Seek Your Subcommittee Participation: Give back to our industry while raising your profile! Contribute to technical papers, application guides, industry application presentations, thought leadership activities, and learn about many industry-specific topics. We work in cooperation with the Society Standards Department.

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Agenda


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- ▶ Data Center Subcommittee Key Activities
- ▶ Data Center Subcommittee Marketing Activities
- ▶ Data Center Standards Coordination
- ▶ Data Center Activities for Conferences


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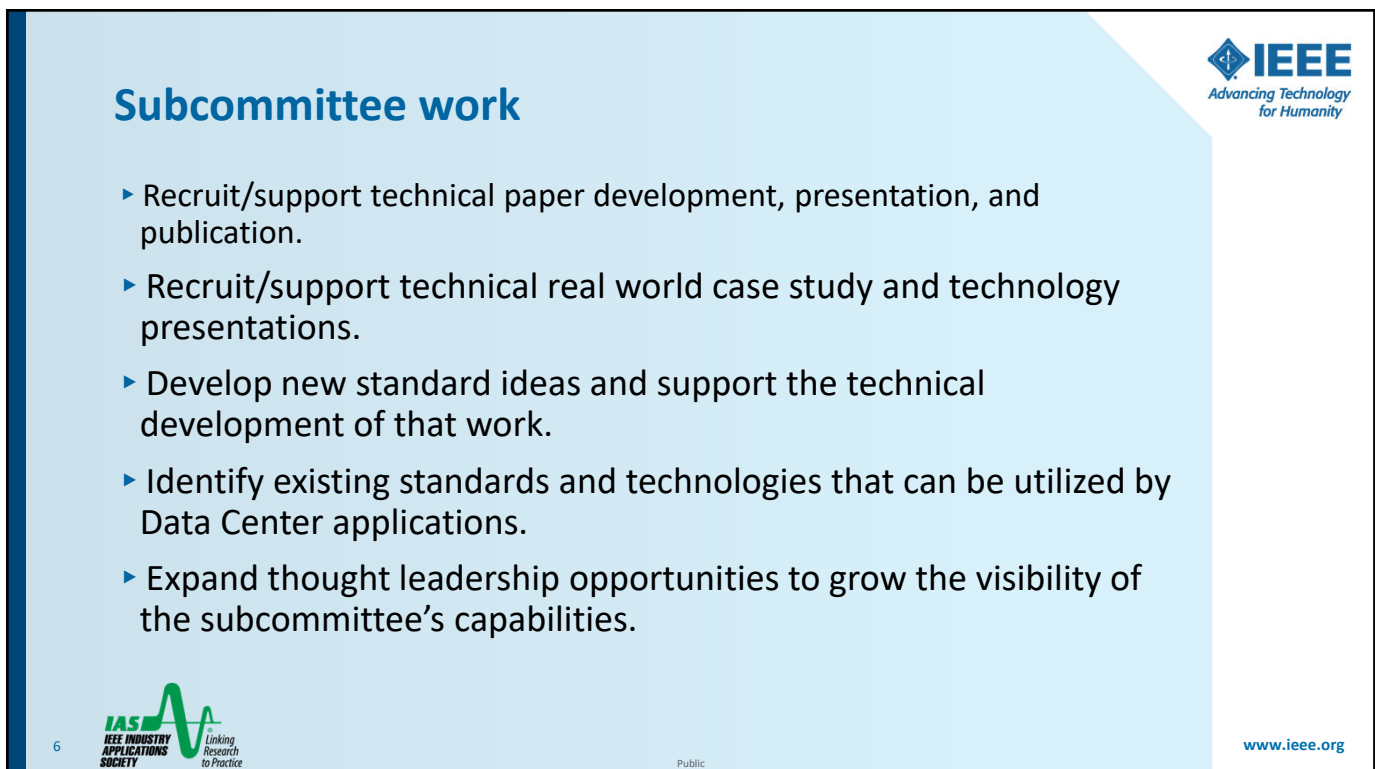


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Key Activities

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Subcommittee work



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- ▶ Recruit/support technical paper development, presentation, and publication.
- ▶ Recruit/support technical real world case study and technology presentations.
- ▶ Develop new standard ideas and support the technical development of that work.
- ▶ Identify existing standards and technologies that can be utilized by Data Center applications.
- ▶ Expand thought leadership opportunities to grow the visibility of the subcommittee's capabilities.



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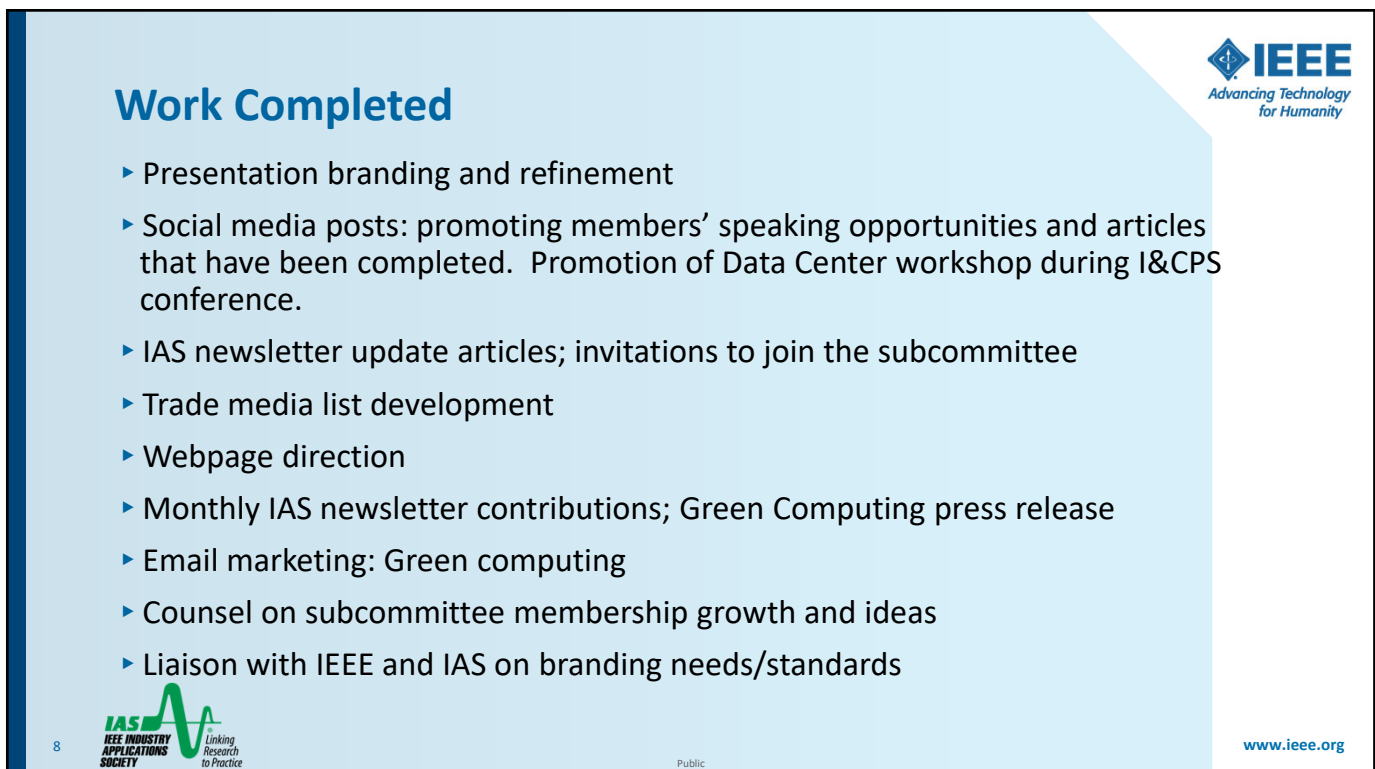


The banner features a blue background with a white circuit board pattern. On the left, the IAS logo is displayed with the text "IAS IEEE INDUSTRY APPLICATIONS SOCIETY" and "Linking Research to Practice". To the right, the text "Industrial & Commercial Power Systems Technical Conference" is written in green and black. The IEEE logo is in the top right corner with the tagline "Advancing Technology for Humanity". The website addresses "ias.ieee.org" and "www.ieee.org" are at the bottom right. The number "7" is in the bottom left corner.

Marketing Project

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The slide has a light blue background. The IEEE logo is in the top right corner. The title "Work Completed" is in large blue font. A list of completed tasks is in the center. The IAS logo is in the bottom left corner. The word "Public" is centered at the bottom. The website "www.ieee.org" is at the bottom right. The number "8" is in the bottom left corner.

Work Completed

- ▶ Presentation branding and refinement
- ▶ Social media posts: promoting members' speaking opportunities and articles that have been completed. Promotion of Data Center workshop during I&CPS conference.
- ▶ IAS newsletter update articles; invitations to join the subcommittee
- ▶ Trade media list development
- ▶ Webpage direction
- ▶ Monthly IAS newsletter contributions; Green Computing press release
- ▶ Email marketing: Green computing
- ▶ Counsel on subcommittee membership growth and ideas
- ▶ Liaison with IEEE and IAS on branding needs/standards

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New Work (In Process)



- ▶ Public Relations activities to bring membership to I&CPS Data Center Subcommittee, Data Center Focused Standards Development Workshops, & IAS Annual Meeting
- ▶ Support Data Center Workshop held during 2025 I&CPS
- ▶ 7x24 Exchange June Conference. Power Quality & Standards (Qais Alsafasfeh)

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Additional Recommendations 2024 IAS DC SC Meeting



- ▶ Increase visibility of our Data Center Activities by converting to a full committee.
- ▶ Add participation of Industrial Power Conversion System Department (IPCSD) to expand data center applications that can be included.
- ▶ Improve participation by expanding the number of industrial presentations for IAS Annual Meeting & I&CPS conference.
- ▶ Include additional invitations for paper submissions to conferences.
- ▶ Expand thought leadership participation at additional Data Center focused conferences.

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Standards Work

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Standards Activities

- ▶ Coordinate with I&CPS Standards Development Committee
 - Deliver information on how existing standards can be utilized for Data Centers.
 - New Data Center Focused standard activities
 - IEEE P3710 “Guide for the Design of Modular Data Centers” PAR has been submitted to NesCom
- ▶ Coordination with other IAS Standards Committees
 - Industrial Power Conversion Systems Standards committee
 - Electrical Safety Standards Subcommittee
 - PCIC Standards Subcommittee

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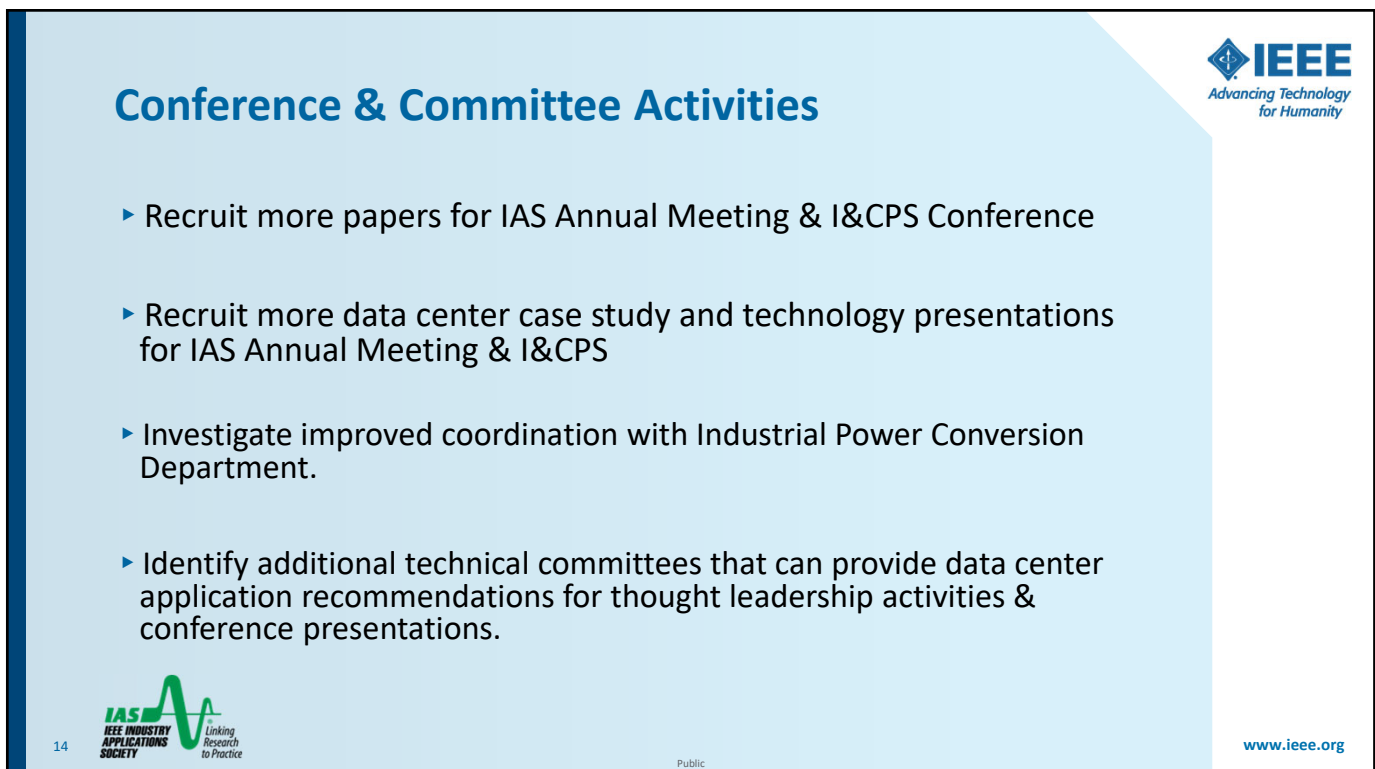


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IEEE Conferences & Committees

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Conference & Committee Activities



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- ▶ Recruit more papers for IAS Annual Meeting & I&CPS Conference
- ▶ Recruit more data center case study and technology presentations for IAS Annual Meeting & I&CPS
- ▶ Investigate improved coordination with Industrial Power Conversion Department.
- ▶ Identify additional technical committees that can provide data center application recommendations for thought leadership activities & conference presentations.



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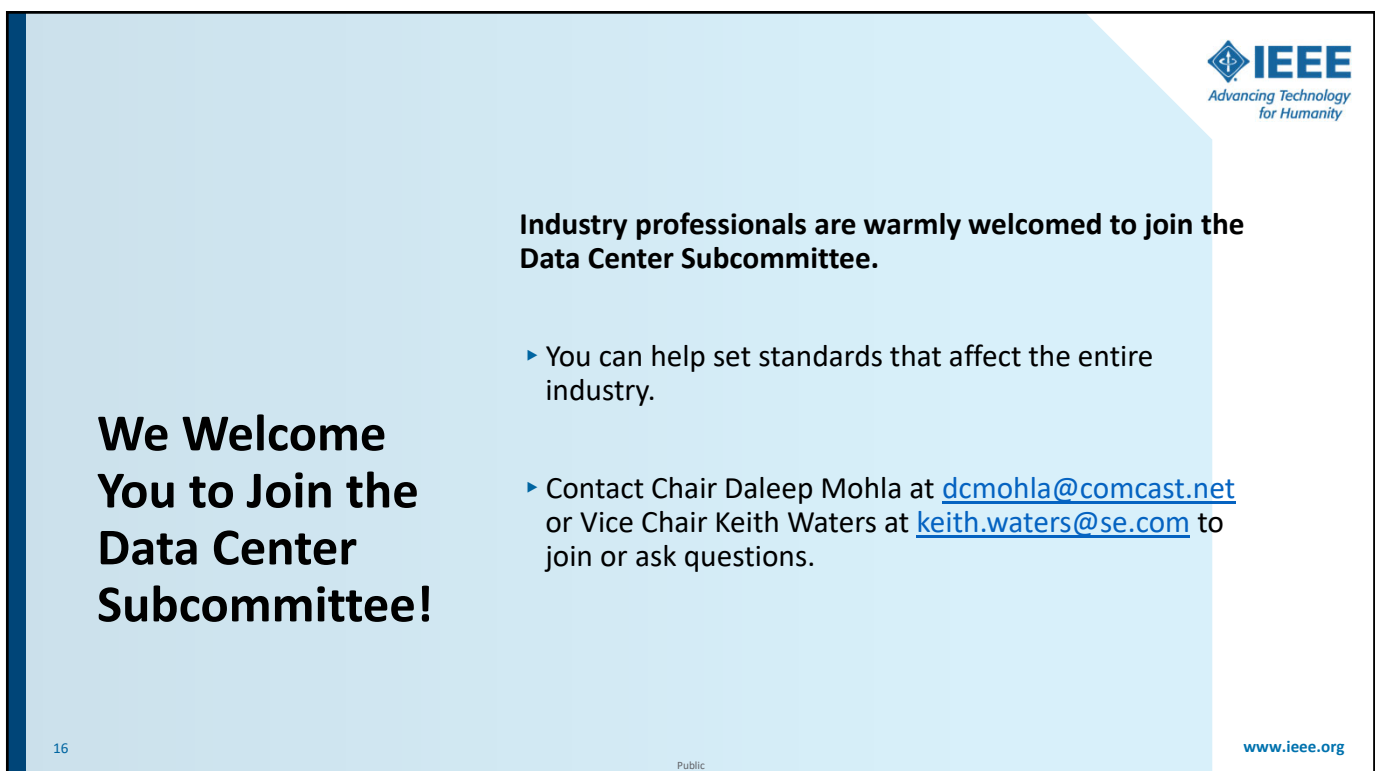
QUESTIONS?

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We Welcome You to Join the Data Center Subcommittee!

Industry professionals are warmly welcomed to join the Data Center Subcommittee.

- ▶ You can help set standards that affect the entire industry.
- ▶ Contact Chair Daleep Mohla at dcmohla@comcast.net or Vice Chair Keith Waters at keith.waters@se.com to join or ask questions.

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