

Our Mission

To integrate the power industry resources to profitably serve the needs of the users, industry, providers, and PSMA members.

PSMA is a not-for-profit organization and a CO-SPONSOR OF APEC





PSMA - Power Sources Manufacturers Association

- Forum for discussing and progressing issues of common concern to the power sources industry, for the benefit of manufacturers, suppliers and users alike
- Enhance the stature and reputation of its members and their products
- Improve members knowledge of technology
- Educate the electronics industry, academia, as well as government and industry agencies through:
 - Published reports
 - Educational seminars
 - Technical conferences and workshops
 - Conference exhibits
- Integrate the resources of the power sources industry to more effectively and profitably serve the needs of the power sources users, providers and PSMA members.



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Compliance



PowerElectronics



PSMA Benefits

 Networking: interact with your counterparts in other companies

Valuable Information:
 Members Only area of the Web site

Involvement:
 Planning and managing of PSMA & APEC

Participation:
 Participate in committees, workgroups

Discounts:
 Receive discounts on APEC registration fees

Company Profile:
 List your company's profile on the PSMA Web site with a hyperlink directly to your company Web site

PSMA Publications:
 Free and discounted

- PSMA Newsletter:
 Information on activities in the industry and upcoming events.
- Feature your company's products on the PSMA Home Page





PSMA Organization Power Sources Supplier **Management ommittee Members** Members **BOD- Board of Directors Affiliates Members TECHNICAL CAPACITOR COMMITTEES &** Linkedin PSMA COMMITTEE **ADVISORY COUNCIL** Workgroup **ENERGY HARVESTING POWER** INDUSTRY-**SEMICONDUCTOR** COMMITTEE **PACKAGING & EDUCATION** COMMITTEE **MANUFACTURING** COMMITTEE **COMMITTEE ENERGY TECHNOLOGY ROADMAP MAGNETICS MANAGEMENT RELIABILITY** COMMITTEE COMMITTEE COMMITTEE COMMITTEE **TRANSPORTATION ENERGY SAFETY & ELECTRONICS STORAGE MARKETING COMPLIANCE** COMMITTEE COMMITTEE COMMITTEE COMMITTEE

PSMA's work is done by industry leaders on a volunteer basis.





The PSMA Capacitors Committee is a group of volunteers knowledgeable about capacitors and power electronics. The aim of the group is to support the power electronics capacitor industry. The committee is involved in capacitor design papers, education, and design tools.

ENERGY HARVESTING COMMITTEE

Increase the market applications for energy harvesting technology with an emphasis on identifying the barriers inhibiting usage and addressing the applications for broader usage.





Provide education, support, and recommendations in matters regarding the energy efficiency of power supplies and system power architectures (no-load, standby, and active-on) with, as a primary goal, the establishment of a consistent global standard for energy efficiency.

ENERGY STORAGE COMMITTEE

Provide members and other interested parties with a forum to discuss market and technology trends in the broad area of energy storage and its application. Energy storage for power systems comes in many forms, such as electrochemical, molecular (like hydrogen), thermal, mechanical, and combinations of technologies. Applications can include primary, backup, or supplemental power in all types of power systems.





Promote and improve the communication between Industry and Education; to foster awareness and interest in power electronics conversion and control among our youth; and to identify the long term strategic issues of common interest to Industry and Education.

MAGNETICS COMMITTEE

Provides members with latest advancement information in magnetic, inductor, and transformer technologies. Serves our members, magnetics users, suppliers, and manufacturers with information, resources, subject matter experts in the area of magnetics and power conversion. Nurtures increased interest in magnetics specialization and research, and early career consideration in power electronics.





Provides marketing support to PSMA activities including marketing communications such as press releases, cooperative efforts with other organizations to assure that the industry and the public have a better knowledge of PSMA's mission, goals, and activities.

POWER PACKAGING & MANUFACTURING COMMITTEE

This Committee provides information and resources on advances in power packaging and manufacturing technologies. Its focus is on high density power packaging design for lowest cost manufacturing, with the goal of achieving global competitiveness for PSMA member companies.





The PSMA Reliability Committee aims to spearhead industry initiatives that identify and attempt to solve the pertinent industry challenges related to the reliability and performance of power supplies and associated products.



Supports the mission, vision - goals and objectives of PSMA by providing subject matter expertise, information resources supported with ongoing communications to our constituents on Safety and Compliance issues pertaining to power electronics and power conversion.





Provides members with latest advancement information in IC and power semiconductor technologies.

TECHNOLOGY ROADMAP COMMITTEE

Develops and publishes the Power Technology Roadmap every two years.

TRANSPORTATION
POWER
ELECTRONICS
COMMITTEE

Focuses on component and packaging trends in power electronics for transportation applications.



Major Projects

- 13 Industry Sessions at APEC 2021
- Power Magnetics @ High Frequency Workshops at APEC, held virtually in 2020 & 2021
- Capacitor Workshops –at APEC, held virtually in 2020 & 2021
- Presentation at IPC APEX 2021
- CPSS Joint Workshop PEAC 2018, CPSSC 2019, planned for CPSSC 2021
- Power Technology Roadmap 2019 report, 2020-2021 Webinars
- Capacitor, Magnetics & Safety & Compliance Educational Webinars archived on website
- 3D-PEIM Second Symposia June 2018, College Park, MD, Third in June 2021, Osaka Japan
- EnerHarv Workshop June 2018, Cork, Ireland, Second planned for 2022, Raleigh, NC
- PwrSoC 2018 October 2018, Hsinchu, Taiwan, 2020 virtual Corridor Event
- Energy Efficiency Data Base continuously updated
- Safety & Compliance Data Base continuously updated
- APEC Student Travel Support jointly sponsored with IAS and PELS



PSMA Publications

- PSMA Power Supply Software/Firmware Reliability Improvement Report (2019)
- PSMA Power Technology Roadmap (2017, 2019)
- Technology Report 3d Power Packaging with Focus on Passive Embedded Components and Substrate Technologies (2018)
- Technology Report Current Developments in 3D Packaging with Focus on Embedded Substrate Technologies (2015)
- Technology Report 3D Power Packaging (2014)
- Handbook of Standardized Terminology for the Power Sources industry (3rd Edition)
- Units, Symbols and Style Guide for Power Electronics (1998)





PSMA Publications - Reprints

- Soft Ferrites Properties and Applications by E.
 C. Snelling Reprint (2013)
- Transformers for Electronic Circuits by Nathan
 R. Grossner 2nd Edition Reprint (2011)
- Modern DC-TO-DC Power Converter Circuits by Rudolf Severns and Ed Bloom - Reprint (2009)
- Application of Magnetism by J. K. Watson -Reprint (2008)
- Electronic Transformers And Circuits by Rueben Lee, Leo Wilson, and Charles Carter – Third Edition - Reprint (2007)





Working With Others





















- Emerge Alliance
- Energy Star
- EPA Environmental Protection Agency
- EPRI Electric Power Research Institute
- EPSMA European Power Supply Manufacturers Association
- IEEE Institute of Electrical and Electronics Engineers
- iNEMI International Electronics Manufacturing Initiative
- IPC
- NYSERDA New York State Energy Research and Development Authority
- ORNL Oak Ridge National Laboratory
- PEIC Power Electronics Industry Collaboration
- PICMG PCI Industrial Computer Manufacturers Group
- TTA The Transformer Association

















University Resources

- Arizona State University, Tempe
- Ben-Gurion University of the Negev
- Chongqing University
- Dartmouth College
- Duke University
- Georgia Institute of Technology
- Hong Kong University
- Illinois Institute of Technology
- Kansas State University
- Macquarie University
- Michigan State University
- Michigan Technological University
- National University of Ireland, Galway
- North Carolina State University
- Northeastern University
- Oregon State University
- Sharif University of Technology
- Technical University of Denmark

- Texas A&M University
- The Ohio State University
- University of California Irvine
- University of Central Florida
- University of Colorado at Boulder
- University of Houston
- University of Idaho
- University of Illinois at Urbana-Champaign
- University of Maryland at College Park
- University of Minnesota
- University of Nevada, Reno
- University of North Dakota
- University of Tennessee
- University of Toledo
- University of Victoria
- University of Wisconsin-Madison
- University of Wisconsin-Milwaukee
- Virginia Tech





Some Member Companies











ASE GROUP

































