



THOMAS S. KEY

TECHNICAL LEADER RENEWABLE AND HYDRO POWER

Mr. Key directs R&D in the Renewable Program at EPRI.

Experience A nationally recognized leader in power system compatibility research, distributed energy resources, and testing, Mr. Key is credited as the father of the CBEMA curve for computer tolerance, which he developed in the late 1970's. He has been a catalyst and major contributor IEEE standards for compatible interface of end-use equipment and distributed power systems. He has managed many research and development programs and projects. While at Sandia National Laboratory in Albuquerque, his work included design and testing of photovoltaic power systems, development of grid-connected power inverters for conditioning and control of distributed power sources, creation of recommended practices for power system design, grounding, and protection. Since joining EPRI he has developed criteria for a utility grid-compatible interface, characterized high-performance dc/ac inverters and electronic appliances, analyzed effects of power disturbances on sensitive electronic equipment, and developed design criteria and recommended practices for cost-effective application of power-enhancement equipment. He is the author of more than 100 professional papers and technical articles.

Professional Affiliations and Activities

- Institute of Electrical and Electronics Engineers (IEEE)
- Proposed and chaired the first IEEE Emerald Book, STD-1100 development on *Recommended Practice for Powering and Grounding of Electronic Equipment*
- Initiated IEEE Standards Coordinating Committee for Power Quality
- Lecturer for Univ. of Wisc., EPRI, and IEEE Standards Board Seminars
- United States Navy Captain, Retired

Achievements

- IEEE Fellow for Advancements in Electric Power Quality
- John Mungenast International Power Quality Award distinguished power quality research.
- IEEE Outstanding Engineer Award, Region 3
- Originated and directed the EPRI Power System Compatibility Research Program

Education

- Master of Science in Electrical Power Engineering and Management, Rensselaer Polytechnic Institute, 1974
- Bachelor of Science in Electrical Engineering, University of New Mexico, 1970

Electric Power Research Institute

3420 Hillview Avenue, Palo Alto, California 94304-1338 • PO Box 10412, Palo Alto, California 94303-0813 USA
800.313.3774 • 650.855.2121 • askepri@epri.com • www.epri.com