

EPRI is built on a tradition of collaboration, scientific objectivity, and technical excellence. With offices around the world, EPRI brings the scale and scope to provide effective, integrated solutions.



EPRI's funding of \$400-420M annually comes from U.S. investor-owned utilities, public utilities, cooperatives, federal and state governments, and international participation.

KEY ASPECTS

Nonprofit

Chartered to serve the public benefit, with guidance from an independent advisory council.

Thought Leadership

Systematically and imaginatively looking ahead to identify issues, technology gaps, and broader needs that can be addressed by the electricity sector.

Independent

Objective, scientific research leading to progress in reliability, efficiency, affordability, health, safety, and the environment.

Scientific and Industry Expertise

Expertise in technical disciplines that bring answers and solutions to electricity generation, transmission, distribution, and end use.

Collaborative Value

Bring together our members and diverse scientific and technical sectors to shape and drive research and development in the electricity sector.

ABOUT US

For almost 50 years, the Electric Power Research Institute (EPRI) has supported all sectors of the electricity industry—public, private, cooperative and federal—in managing and directing collaboratively funded research programs in nuclear power, fossil-fueled and renewable generation, transmission and distribution, electrification, energy efficiency, distributed energy resources, environmental performance/sustainability, and protecting vital electricity systems from physical or cyber threats.

EPRI operates its principal offices and laboratories in Palo Alto, Calif.; Charlotte, N.C.; Knoxville, Tenn.; Dallas, Texas; Lenox, Mass.; and Washington, D.C.

EPRI's collaborative model emphasizes practical and effective engagement at every stage of R&D—from determining optimal scope to the application of technology and research findings.

WHAT WE OFFER

EPRI offers scientific expertise and innovative technology to help participants provide safe, reliable, economic, and environmentally friendly electricity. EPRI's research emphasizes measurable, practical outcomes in such areas as reliability, resilience, and cost. Our expertise is grounded in both emerging and established technologies and systems to bridge the continuing developments and changes in the electricity sector.

Collaborative Research Programs

Research programs are funded annually and provide research results to all participants. Work is based on a collaborative model and encompasses a set of projects that address real and emerging industry issues of substantial concern and of significant size. Participation provides access to balanced and comprehensive short and long-term research results.

Supplemental Projects

Supplemental projects are offered for pursuing specific objectives with defined schedules and can be tailored to the needs of the customer. They encompass a set of tasks or activities designed to address current conditions and they identify areas for improvement.

Technology Transfer and Application Services

EPRI offers a range of technology transfer, application, and other technical services through its network of technical centers and offices around the world to test technologies, improve processes, and operate more efficiently.

EPRI works closely with collaborating organizations and agencies to identify high-value, focused research opportunities quickly and effectively.

Glen Ackermann

Leader, Government Capture
Electric Power Research Institute
3420 Hillview Avenue
Palo Alto, CA 94304
T: 202-281-5481
E: gackermann@epri.com

Values and Guiding Principles

Integrity

We interact and transact with honesty, transparency, fairness and respect. Every action we take is conducted ethically and beyond reproach.

Objectivity

We conduct every aspect of our business free from favoritism, self-interest, and bias in judgment.

Public Benefit

Our actions and decisions demonstrate corporate responsibility and ultimately benefit society.

Safety

Safety is the top priority and a commitment we make to each other.

Collaboration

We bring together global stakeholders, listen to diverse views, and lead with expertise.

Teamwork

We enable people to use their individual skills and talents to work together to achieve superior outcomes.

Excellence

We continuously strive for technical and operational excellence.

Value

We demonstrate good stewardship of resources and deliver timely, effective, and innovative solutions.

FOCUSED RESEARCH OFFERINGS TO HELP DoD RESOLVE ISSUES

Resilient Infrastructure

Through collaborative research EPRI and the Department of Defense (DoD) can address changing threats to power delivery systems through forecasting and planning for system impacts. Tools help assess risks from extreme weather and climate change effects and support technically informed projections that consider future climate conditions through identifying vulnerable assets, mitigating impacts, and determining appropriate adaptive responses.

- Microgrids
- Energy Storage
- Distributed generation
- Breakaway Connectors
- Pole Design
- Covered Conductor

System Controls

EPRI's research can be applied to deploy and manage interconnected loads and distributed energy resources—within clearly defined electrical boundaries—to act as a single controllable entity that can connect and disconnect from the grid. That flexibility enables microgrids to operate in either grid-connected or island-mode.

- Fault detection for supervisory control and data acquisition (SCADA) systems
- Microgrid controls
- Monitor and manage energy consumption

Power Quality and Efficiency

EPRI research can address the performance and value of demand-side technologies, electrified end use, and power quality impacts to design more effective and efficient energy programs and forecast and plan for system impacts.

- High efficiency HVAC
- Next generation LED lighting
- Electrification of ground support equipment

Operations and Maintenance

EPRI research can provide the technical basis for key decisions in asset management, tools and methods to plan and operate an integrated distribution system, advanced grid technology for reliability and resiliency improvement, and all aspects of distributed energy resources integration.

- Energy management circuit breaker—predictive maintenance
- Improving asset weather resistance
- LEDs tuned to combat infectious diseases

Information, Communication, and Cyber Security

EPRI's research can provide DoD with expertise and guidance to inform connectivity standards, information modeling, design and architecture, security strategies, and telecommunications to enable effective investment and deployment of critical data systems.

- Protections for distribution assets