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Contact the Climate READi™ team at
ClimateREADi@epri.com



**Resilience and Adaptation for a
Decarbonized Economy**

EPRI

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

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PREPARING FOR THE FUTURE AHEAD

As 1-in-50 or 1-in-100-year extreme events of the past increase in frequency, and society increasingly depends on electricity, the Electric Power Research Institute (EPRI) is strengthening the power sector's collective approach to managing climate risk to the power system. And as the economy electrifies and decarbonizes, energy grid **reliability and resilience will be paramount**. Energy companies, regulators, policymakers, and other industry stakeholders require **science-based insights** about the future power system and the environment in which it will operate to identify **optimal adaptation and resilience investments**. EPRI's collaborative model will convene the global thought leaders and scientific researchers necessary to build an informed and **consistent approach**.

EPRI recognizes the many risk management tools, processes, standards, and guidelines used by power sector organizations today. However, to meet society's electricity decarbonization and climate resilience needs, the power sector must coalesce around a standardized and consensus-based framework to inform infrastructure investment and deployment.

A broadly accepted Common Framework will embody one of the most comprehensive approaches to physical climate risk assessment.

The **Framework** will facilitate analysis and application of appropriate climate data among all stakeholders to enhance the planning, design and operation of a resilient power system, providing:



COMPREHENSIVE guidance on the specific climate and secondary physical data needs, datasets, variables, specification, suitability, and interpretation to facilitate a vulnerability assessment of the power system including characterization of how to treat the inherent uncertainty in climate and ecosystem modeling for applications.



CONSISTENT approach for power system stakeholders to apply climate-related information, including extreme weather and localized climate data trends and projections at the asset level, with guidance for specific asset/system vulnerability analyses. This allows any differences between government and industry organizations on the design and operation of the future energy system to be more easily resolved.



COLLABORATIVE approach to driving stakeholder alignment on adaptation objectives with power system requirements, how to apply cost-benefit analysis for managing climate risk and identify efficient and effective resilience investments.

