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Centre for Active Resilience and Security (CARS)

Workshop Overview: Leveraging Insurance to Enable and Finance Resilient Energy Systems
Co-organizers: Imperial College Centre for Active Resilience and Security (CARS) – International Energy Agency (IEA)
Date: 17th September 2026
Time: 09:45–15:00
Venue: London - Imperial College London – Electrical & Electronic Engineering Building
Participants: Approx. 30 attendees from energy, engineering, finance and insurance sectors

Objective: Explore how finance, insurance, regulation, and emerging technologies can mobilize investment in resilient energy systems while managing climate-related and operational risks. This workshop will build on previous discussions held at the technical workshop in October 2025 co-organized by the IEA, CDRI and Imperial College, as a side-event to the IEA High-Level Roundtable on Strengthening Energy Infrastructure Resilience[1].

Expected Workshop Outcomes

- Shared understanding of key resilience risks and opportunities.
- Prioritized resilience interventions and investment needs.
- Practical financing and insurance pathways to support resilient energy systems.
- Definition of a new research project including data collection and recommendations for collaboration among the energy, finance, and insurance sectors.

Opening (9:45-9:55) Raffaele della Croce, Imperial and Cecilia Tam, IEA

- Workshop objectives

Part 1: Understanding the Challenge and Identifying Solutions (09:55–11:05)
Moderator: Hugh Hopewell, IEA
Participants identify the most significant physical risks and system vulnerabilities, and resilience gaps facing the electricity sector. The session explores project design solutions and current financing approaches that can strengthen resilience and accelerate investment.

Key discussion topics: different physical risks (climate, supply chains, conflict, cyber) across different regions and technologies, financing barriers, and resilience solutions.

Outputs: priority risks and vulnerabilities for electricity resilience and energy transition, promising interventions, and key financing needs.

Coffee Break (11:05–11:20)

Part 2: Financing Resilience – The Role of Insurance (11:20–12:30)
Moderator: Raffaele della Croce, Imperial
Participants examine how insurers, investors, governments, and regulators can work together to finance resilient electricity infrastructure. Discussions focus on risk transfer, adaptation finance, innovative insurance products, and public–private collaboration.

Key discussion topics: insurance as a resilience enabler, protection gaps, investment models & cost of capital, regulatory support, captive models.

Outputs: mapping the insurance role for financing resilience, partnership opportunities, financing models, and priority policy actions.

[1] https://www.iea.org/events/strengthening-energy-infrastructure-resilience

12:30–13:30 | Lunch Break

[Closed Session for Invitees Only]

Part 3: 13:30–14:40 | Financing Energy Resilience in Emerging and Developing Economies and discussion on future work - Moderator: Cecilia Tam, IEA

Wrap-up and future work (14:40-15:00) - Imperial moderator