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THE GRID BEHIND RECOVERY

From Risk Assessment
to Financing Resilience

TWO ASSESSMENTS OF EQUAL IMPORTANCE FOR ENERGY SYSTEM RESILIENCE

THREATS AND PREVENTION

Assess threats and the cost of preventive actions to mitigate them

CONSEQUENCES AND RECOVERY

Assess the cost of addressing the consequences if threats materialise

FROM THREAT ASSESSMENT TO FUNDING RESILIENCE MEASURES

THREATS / RISKS

- Modelling threat scenarios
- Modelling preventive actions to avert and mitigate threats
- Assessing feasibility and selecting the most effective protection measure
- Calculating costs

CONSEQUENCES

- Modelling crisis scenarios and their probable impact on infrastructure assets
- Modelling measures to address the consequences
- Standard set of costs for the works and equipment to restore critical infrastructure assets
- Calculating costs

FINANCING OF PREVENTIVE MEASURES

FINANCING OF RECOVERY

WHY FINANCING NEEDS MUST BE UPDATED SYSTEMATICALLY

Threats may change over time, which should be reflected both in their modelling and in the assessment of their consequences

Costs may change significantly over time due to due to inflation, changes in the types of threats and/or the availability of the required resources

BASIC APPROACHES TO MODELLING THE COST OF RESILIENCE

FINANCING OF PREVENTIVE MEASURES

Cost modelling should include:

1. Calculating the costs of preventing or mitigating threats for each available protection option
2. Comparing the costs with the expected financial and socio-economic benefits
3. Selecting the best option

FINANCING OF RECOVERY COSTS

Cost modelling should include:

1. A range of methods for calculating the recovery costs of (a) destroyed and (b) damaged assets
2. A description of standard works and an algorithm for calculating the related costs, including works, equipment, delivery costs and the time factor
3. Reference guides and price lists for standard equipment, together with relevant information sources
4. A procedure for updating the costs of works and equipment as of each new valuation date

COMPANY BENEFITS OF RISK-BASED RESILIENCE PLANNING

- Clear priorities for protection, response and recovery
- Risk-based resource allocation
- Transparent methods and traceable assumptions
- Stronger case for donor and investor support
- Regular reassessment as threats evolve

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