# **Climate Resilience Framework**



A six-step process to help businesses develop and increase resilience to climate-related hazards and review performance against business objectives and sustainability.

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Scoping	
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#### Scoping

- Discuss project drivers with stakeholders to create shared vision.
- Review approach options and requirements and select methodology.
- Define scope for climate variables, hazards, and timeframe (e.g., present, 2030, 2070).
- Determine scope including relevant business and site elements and systems.

O2 Screening Risk

#### Screening Risk

- Consider climate trends for relevant hazards (temperature, precipitation, flooding, drought, sea-level change, wind)
  Screen business, systems and site elements
  - against climate hazards to determine high-level risks and priorities for risk assessment
- Review relevant climate policy, regulatory and planning approvals requirements

Apply Science

Detailed

Assessment

Resilience

Options

Risk

## **Apply Science**

- Determine whether climate data can be gathered and analyzed internally or externally.
- If internal, collect climate projections based on a moderate to high emissions scenarios for years and scale. Gather long-term (100 yrs) and recent (30 yrs) historical climatic data.
- Consider collecting other data studies to support project (e.g., flooding reports, inundation mapping, urban heat island, erosion, etc.
- Consider GIS to spatially display information.

climatic conditions (food, groundwater re-charge,

Ensure climate risks are integrated into wider risk

management processes. Assign organizational

(e.g., procurement, insurance, capital planning,

groups as part of ongoing business process.

Prepare documentation to meet regulatory,

planning, approval and investor requirements

etc.).

logistics)

## **Detailed Risk Assessment**

- Select business, systems and site elements with greatest risks to climate impacts. Use results from screening phase to focus analysis.
- Identify stakeholders for determining priority risks or valuing risk implications.
- Conduct assessment of climate risk, site or project. Use spatial and impact modeling data to inform site or project specifc risk including future

Resilience Options

- Identify stakeholders to determine and implement resilience options, and who may beneft from implementation.
- Review risk assessment for priority options and resilience solutions.
- Research and rank resilience options for: effectiveness in responding to climate risk, value for money, practical implementation. All business

benefts should be considered when assessing options.

- Integrate preferred climate resilience measures into business planning, operational procedures and capital design.
- Document how resilience options address climate risks. Where risks are unaddressed, provide rationale.

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## Implementation

- Justify large climate resilience investments with cost beneft analysis. Allocate resources to implement lower cost/high beneft options.
- Assign responsibility for embedding climate risks into operational plans.
- Document implementation of resilience options and reduced risks achieved for investors, insurers and customers.
- Ensure notes are clear in presenting climate risks in operations.
- Ensure appropriate monitoring and review. Build in review on a fve-year basis.