Climate Risk Assessment Checklist

1. Project Overview
[] Define project scope, location, and timeline.
[] Identify stakeholders and asset types (buildings, infrastructure).
2. Climate Hazards Identification
[] Assess historical and projected temperature trends.
[] Evaluate flood risks using FEMA/local flood maps.
[] Check exposure to sea-level rise and storm surges.
[] Consider wildfire, drought, landslides or permafrost melt risks.
3. Scenario Planning
[] Select relevant RCP/SSP pathways (RCP2.6, RCP4.5, RCP8.5).
[] Run simulations using ensemble models.
[] Account for compound hazards (e.g., flood + heat).
4. Structural and Design Resilience
[] Analyze thermal, wind, and water load tolerances.
[] Evaluate drainage, insulation, and elevation levels.
[] Consider retrofitting or material substitution.
5. Financial Impact Analysis
[] Estimate potential damage and repair costs.
[] Assess insurance shifts and premium implications.

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[] Calculate ROI of adaptation investments.
6. Adaptation Strategies
[] Propose green roofs, reflective surfaces, or raised platforms.
[] Integrate smart systems (drainage, sensors, renewable energy).
[] Align with sustainability certifications (LEED, Envision).
7. Regulatory & ESG Compliance
[] Ensure TCFD/SFDR/SEBI compliance.
[] Integrate disclosures in investor or government reports.
8. Review & Update
[] Schedule annual reassessments.
[] Monitor changes in climate science or local conditions.
[] Maintain version control and documentation.