



Renewable Energy Project Risk Assessment Checklist

Project Overview & Scope

Details about the project, its goals, and the areas covered by this risk assessment.

Project Name

Project Description

Project Budget (USD)

Project Start Date

Projected Completion Date

Project Phase

- ☐ Planning
- ☐ Design
- ☐ Procurement
- ☐ Construction
- ☐ Commissioning
- ☐ Operation

Scope of Assessment (briefly describe areas covered)

Write something...

Environmental Risks & Permits

Assessment of potential environmental impacts and permit compliance.

Preliminary Environmental Impact Assessment (EIA) Status

- ☐ Completed
- ☐ In Progress
- ☐ Not Required
- ☐ Not Started

EIA Submission Date

Enter date...

Permit Type Required (e.g., Air, Water, Waste)

- ☐ Air Permit
- ☐ Water Discharge Permit
- ☐ Waste Management Permit
- ☐ Habitat Conservation Permit
- ☐ Other

Summary of Potential Environmental Impacts Identified

Write something...

Copies of Environmental Permits (Upload all relevant documents)

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Protected Species Identified in Project Area?

- ☐ Yes
- ☐ No
- ☐ Unknown

Description of Mitigation Measures for Identified Environmental Impacts

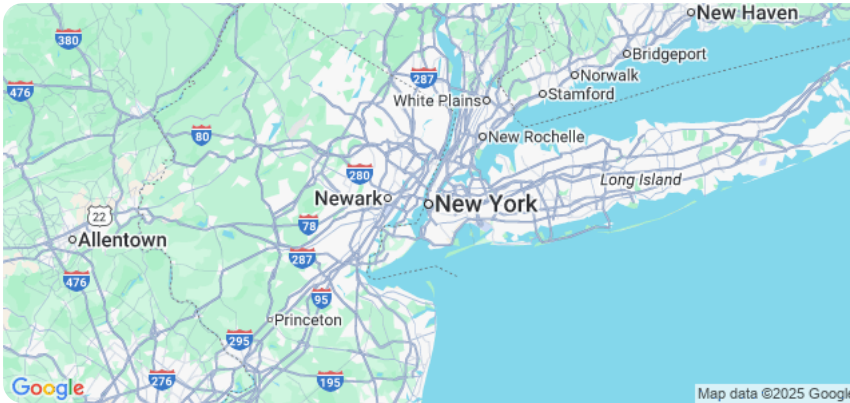
Write something...

Site Conditions & Geotechnical Risks

Evaluation of site-specific challenges like soil stability, geology, and potential hazards.

Identify areas of potential landslide risk

 [Set My Current Location](#)



Soil Bearing Capacity (kPa)

Enter a number...

Groundwater Level (meters)

Enter a number...

Soil Type

- ☐ Clay
- ☐ Sand
- ☐ Silt
- ☐ Gravel
- ☐ Rock

Describe any observed signs of instability (cracks, settlement)

Write something...

Attach Geotechnical Report (if available)

 Upload File

Seismic Zone

- ☐ Low
- ☐ Moderate
- ☐ High

Date of Last Geotechnical Survey

Enter date...

Technology & Equipment Risks

Assessment of risks associated with the selected renewable energy technology and its components.

Turbine/Panel Model

- ☐ Model A
- ☐ Model B
- ☐ Model C
- ☐ Other (Specify)

Equipment Age (Years)

Enter a number...

Detailed Description of Equipment Condition

Write something...

Supplier Reputation

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor


Potential Failure Modes

- ☐ Mechanical Failure
- ☐ Electrical Fault
- ☐ Software Glitch
- ☐ Environmental Damage
- ☐ Performance Degradation

Estimated Remaining Life (Years)

Enter a number...

Equipment Documentation (Manuals, Schematics)

 Upload File

Construction & Installation Risks

Identification of potential risks during the construction and installation phase.

Crane Lifting Capacity (tons)

Enter a number...

Soil Stability Assessment Status

- ☐ Complete and Approved
- ☐ In Progress
- ☐ Not Performed

Description of Potential Ground Contamination Issues

Write something...


Scheduled Concrete Pour Date

Enter date...

Potential Hazards Identified (Select all that apply)

- ☐ Excavation Collapse
- ☐ Electrical Hazards
- ☐ Falling Objects
- ☐ Heavy Equipment Operation
- ☐ Confined Space Entry

Photographic Evidence of Site Conditions

 Upload File

Equipment Inspection Status (Wind Turbine Foundations)

- ☐ Completed
- ☐ Pending
- ☐ Not Applicable

Scheduled Blast Time (if applicable)

Operational Risks & Maintenance

Evaluation of risks related to ongoing operations, maintenance, and performance.

Turbine/Panel Output Deviation (%)

Enter a number...

Description of Performance Anomalies

Write something...

Last Preventative Maintenance Date

Enter date...

Time of Inspection

Equipment Temperature (°C)

Enter a number...

Equipment Issues Observed

- ☐ Noise
- ☐ Vibration
- ☐ Leaks
- ☐ Corrosion
- ☐ Electrical Faults
- ☐ None

Maintenance Required?

- ☐ Yes
- ☐ No

Details of Corrective Actions Taken

Write something...

Financial & Contractual Risks

Assessment of potential financial losses, contractual disputes, and regulatory changes.

Project Budget Variance (Percentage)

Enter a number...

Contract Type

- ☐ Fixed Price
- ☐ Cost Plus
- ☐ Time and Materials

Contract Expiration Date

Enter date...

Potential Contractual Disputes Summary

Write something...

Contingency Fund Allocation (USD)

Enter a number...

Currency Risk Mitigation Strategy

- ☐ Hedging
- ☐ Natural Hedge
- ☐ No Mitigation

Description of any financing constraints

Write something...

Health & Safety Risks

Identification of potential hazards to worker safety and public health.

Description of potential slip, trip, and fall hazards observed.

Write something...

Estimated worker exposure duration (hours/day) for high-risk tasks.

Enter a number...

Personal Protective Equipment (PPE) Requirements Met?

- ☐ Hard Hat
- ☐ Safety Glasses
- ☐ High-Visibility Vest
- ☐ Gloves
- ☐ Safety Boots
- ☐ Hearing Protection
- ☐ Respirator

Confined Space Entry Procedures Followed?

- ☐ Yes
- ☐ No
- ☐ N/A

Last Safety Training Date

Enter date...

Safety Officer Signature

Details of any near misses or incidents observed.

Write something...

Security Risks

Assessment of potential threats to project security, including physical security and cybersecurity.

Perimeter Security Assessment

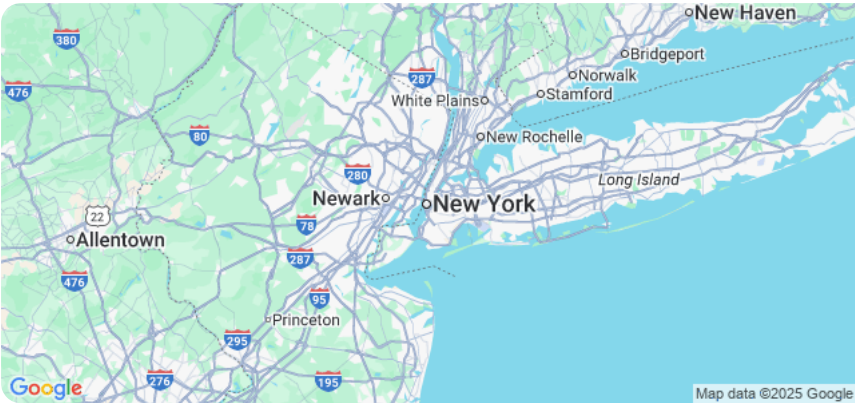
- ☐ Adequate
- ☐ Needs Improvement
- ☐ Insufficient

Number of Security Cameras

Enter a number...

Location of Server Room

 Set My Current Location



Cybersecurity Measures in Place (Select all that apply)

- ☐ Firewall
- ☐ Intrusion Detection System
- ☐ Data Encryption
- ☐ Employee Training
- ☐ Regular Security Audits


Last Security System Update

Enter date...

Description of any recent security incidents

Write something...

Security System Design Documents

 Upload File

Stakeholder & Community Risks

Evaluation of potential conflicts with stakeholders and community concerns.

Summary of Community Concerns Identified

Write something...

Level of Community Support

- ☐ Strong Support
- ☐ Neutral
- ☐ Limited Support
- ☐ Opposition

Potential Stakeholder Groups Impacted

- ☐ Local Residents
- ☐ Indigenous Communities
- ☐ Environmental Groups
- ☐ Local Businesses
- ☐ Government Agencies

Details of any Communication Protocols Established

Write something...

Date of Last Community Consultation

Enter date...

Estimated Number of People Affected

Enter a number...

Regulatory & Compliance Risks

Assessment of adherence to all relevant local, state, and federal regulations.

Applicable Environmental Permits Required?

- ☐ Yes
- ☐ No
- ☐ Unknown

Compliance with Local Zoning Regulations?

- ☐ Compliant
- ☐ Non-Compliant
- ☐ Pending Review

Date of Last Regulatory Compliance Audit

Enter date...

Number of Outstanding Regulatory Notices

Enter a number...

Description of any Outstanding Regulatory Concerns

Write something...

Relevant Regulatory Bodies Involved (select all that apply)

- ☐ EPA
- ☐ State Environmental Agency
- ☐ Local Planning Department
- ☐ Federal Aviation Administration

Upload Copies of Key Permits and Licenses

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Risk Mitigation & Response

Plan detailing risk mitigation strategies and response procedures.

Detailed Mitigation Strategy Description

Write something...

Estimated Cost of Mitigation

Enter a number...


Target Completion Date for Mitigation

Enter date...

Responsible Party for Mitigation

- ☐ Project Manager
- ☐ Environmental Consultant
- ☐ Construction Supervisor
- ☐ Engineering Team

Supporting Documentation (e.g., Contracts, Plans)

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Severity Level After Mitigation

- ☐ Low
- ☐ Medium
- ☐ High
- ☐ Critical

Contingency Plan Description (If Mitigation Fails)

Write something...