

# Environmental impact monitoring and reporting

This workflow automatically monitors environmental impact data from solar installations and generates compliance reports for regulatory bodies. It reduces manual reporting effort while ensuring accurate environmental compliance tracking.

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## WORKFLOW TRIGGER



Monthly reporting period begins or environmental threshold alert is detected from SCADA monitoring systems.

## Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.



period initiated



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## Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

Environmental monitoring period initiated

Monthly reporting cycle starts or environmental sensor alerts trigger immediate impact assessment. SCADA systems provide real-time environmental data feeds.

SCADA systems

2

 ACTION

## Collect environmental sensor data

Gather air quality, noise levels, wildlife impact, and land use data from on-site sensors and monitoring equipment. SCADA systems aggregate all environmental measurements.

SCADA systems

3

 ACTION

## Calculate carbon offset metrics

Use energy production data from PVSyst to calculate CO2 emissions avoided and environmental benefits achieved. Cross-reference with actual energy output data.

PVSyst

SCADA systems

4

 DECISION

## Evaluate compliance thresholds

Check if environmental metrics meet regulatory standards and permit requirements. Branch workflow based on compliance status and severity of any violations.

SCADA systems

5

### Generate impact assessment reports

Create detailed environmental impact reports with visualizations and compliance status. Include recommendations for any necessary corrective actions.

PVSyst

6

⚙️ ACTION

### Submit regulatory filings

Automatically file environmental reports with relevant agencies and stakeholders. Send alerts to facility managers for any compliance issues requiring attention.

SCADA systems

7

📄 OUTPUT

### Distribute compliance documentation

Deliver final environmental impact reports to regulatory bodies, stakeholders, and internal teams. Archive documentation for audit trails and historical tracking.

SCADA systems



## Outputs

- Environmental compliance reports
- Carbon offset calculations
- Regulatory submission confirmations



## Key Metrics

- Environmental compliance rate
- Carbon offset tons calculated
- Report generation time



## Tools & Integrations

- SCADA systems
- PVSyst

## AI Business OS

## AI Business OS

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