

Customer energy usage analysis and billing

This workflow automatically analyzes customer energy consumption patterns, calculates solar energy production offsets, and generates accurate monthly billing statements. It optimizes billing accuracy while providing customers detailed insights into their renewable energy savings.

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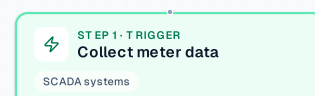


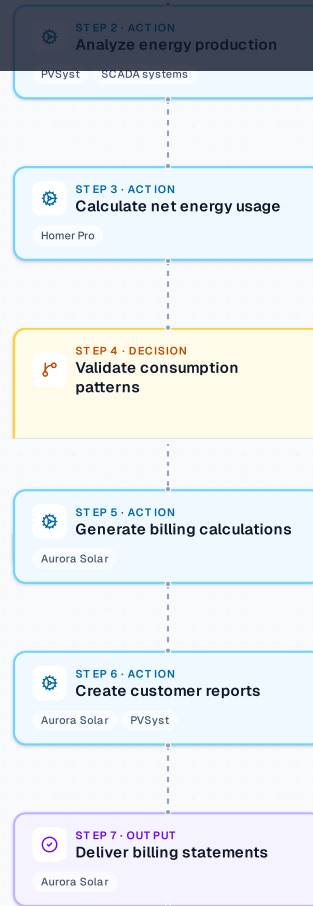
WORKFLOW TRIGGER

Monthly billing cycle begins or smart meter data becomes available

Visual Flow

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





Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

Collect meter data

SCADA systems automatically retrieve smart meter readings and energy consumption data from customer installations. Real-time production and

2

 ACTION

Analyze energy production

PVSyst processes solar panel performance data to calculate actual energy generation against forecasted output. System efficiency and weather impact factors are analyzed for accurate production accounting.

PVSyst

SCADA systems

3

 ACTION

Calculate net energy usage

Homer Pro computes the net energy balance by subtracting solar production from total consumption. Grid feed-in credits and time-of-use rate calculations are applied to determine billing amounts.

Homer Pro

4

 DECISION

Validate consumption patterns

System checks for unusual consumption spikes or system anomalies that may indicate equipment issues or billing errors. Flags accounts requiring manual review versus automated processing.

SCADA systems

5

 ACTION

Generate billing calculations

Aurora Solar creates detailed billing breakdowns including energy credits, net metering calculations, and renewable energy incentives. Tax credits and rebate applications are automatically processed.

Aurora Solar

6

 ACTION

Create customer reports

System generates comprehensive energy usage reports showing production vs consumption trends, cost savings, and environmental impact metrics. Personalized recommendations for energy optimization are included.

Aurora Solar

PVSystem

7

 OUTPUT

Deliver billing statements

Automated delivery of final billing statements and energy reports to customers via email or customer portal. Payment processing integration initiates for approved charges.

Aurora Solar



Outputs

AI Business OS

- Monthly billing statements with net metering calculations
- Customer energy production and consumption reports
- Renewable energy savings and environmental impact summaries



Key Metrics

- Billing accuracy rate
- Customer payment processing time
- Energy production vs forecast variance



Tools & Integrations

- SCADA systems
- PVSyst
- Homer Pro
- Aurora Solar

AI Business OS

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