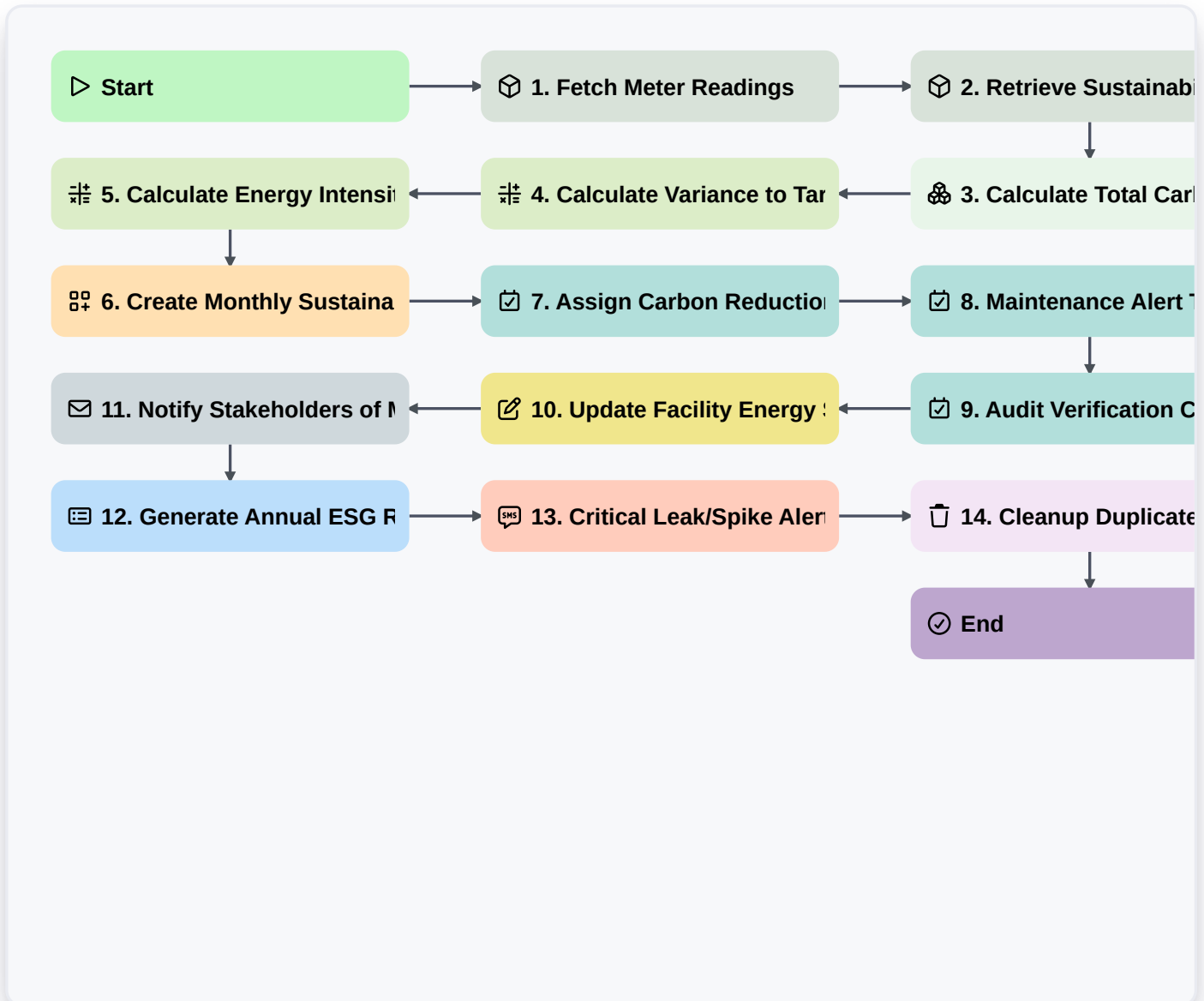


Energy Management And Sustainability Workflow



▶ Start

Start of the Workflow/Process.

📦 1. Fetch Meter Readings

Retrieve the latest electricity and gas consumption entries from the Energy Meter Data model.

📦 2. Retrieve Sustainability Targets

Get the predefined carbon reduction targets from the Sustainability Goals data model.

🔗 3. Calculate Total Carbon Footprint

Sum the CO2 equivalent values from all retrieved energy consumption entries.

📊 4. Calculate Variance to Target

Subtract the current Total Carbon Footprint from the Sustainability Target to determine the gap.

📊 5. Calculate Energy Intensity

Divide the total energy consumption by the total square footage of the facility.



6. Create Monthly Sustainability Report Entry

Create a new record in the Sustainability Reports model with the aggregated monthly metrics.

7. Assign Carbon Reduction Task

Create a task for the Sustainability Manager if the variance to target exceeds the allowed threshold.

8. Maintenance Alert Task

Create a task for the Facilities Team if energy usage spikes significantly above the historical average.

9. Audit Verification Checklist

A set of sub-steps within the Audit Task to verify meter accuracy and sensor calibration.

10. Update Facility Energy Status

Update the 'Efficiency Rating' field in the Facility Data model based on the new calculation results.

11. Notify Stakeholders of Monthly Report

Send an email to the Sustainability Committee containing the summary of the monthly report.

12. Generate Annual ESG Report

Generate a comprehensive PDF report aggregating all monthly performance entries for the year.

13. Critical Leak/Spike Alert

Send an SMS to the On-site Engineer if an extreme energy anomaly is detected.

14. Cleanup Duplicate Readings

Delete erroneous or duplicate meter entries identified during the validation step.

End

End of the Workflow/Process.