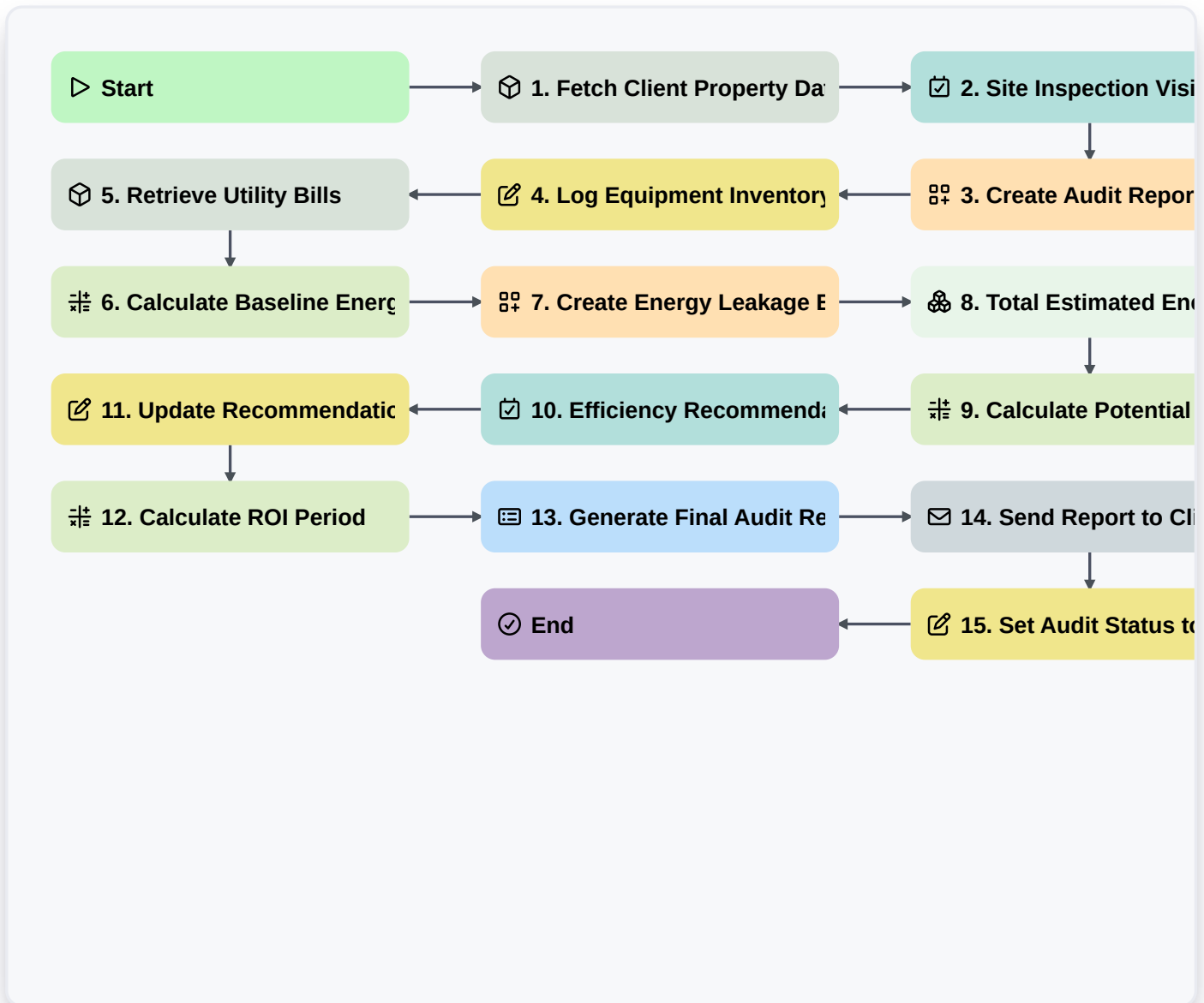


Energy Audit And Efficiency Workflow



▷ Start

Start of the Workflow/Process.

📦 1. Fetch Client Property Data

Retrieve existing building metadata (square footage, building age, and usage type) from the Client Data Model.

📝 2. Site Inspection Visit

Assign a task to the Field Auditor to conduct the physical energy assessment on-site.

📄 3. Create Audit Report Record

Generate a new entry in the Energy Audit Data Model to serve as the primary record for this audit.

📝 4. Log Equipment Inventory

Update the Audit Report entry with the list of HVAC, lighting, and insulation assets found during inspection.

📦 5. Retrieve Utility Bills

Fetch historical electricity and gas consumption data from the Utility Records data model.

📈 6. Calculate Baseline Energy Usage

Calculate the average monthly kWh consumption based on the retrieved utility bill history.



7. Create Energy Leakage Entry

Create individual entries for each identified thermal bridge or energy leak found during the audit.

8. Total Estimated Energy Waste

Aggregate all 'Energy Leakage' entries to calculate the total annual kWh loss across the facility.

9. Calculate Potential Savings

Calculate the projected cost savings by applying current energy rates to the total estimated energy waste.

10. Efficiency Recommendation Draft

Assign a task to the Energy Engineer to draft technical recommendations and ROI analysis.

11. Update Recommendations List

Attach the completed technical recommendations and retrofit cost estimates to the Audit Report entry.

12. Calculate ROI Period

Determine the payback period (years) by dividing the retrofit cost by the annual projected savings.

13. Generate Final Audit Report

Generate a formal PDF/Digital Report summarizing findings, data, and recommendations for the client.

14. Send Report to Client

Email the final Energy Audit Report and the calculated savings summary to the client's primary contact.

15. Set Audit Status to 'Completed'

Update the status of the original Audit Report entry to 'Completed' to trigger final archiving.

End

End of the Workflow/Process.