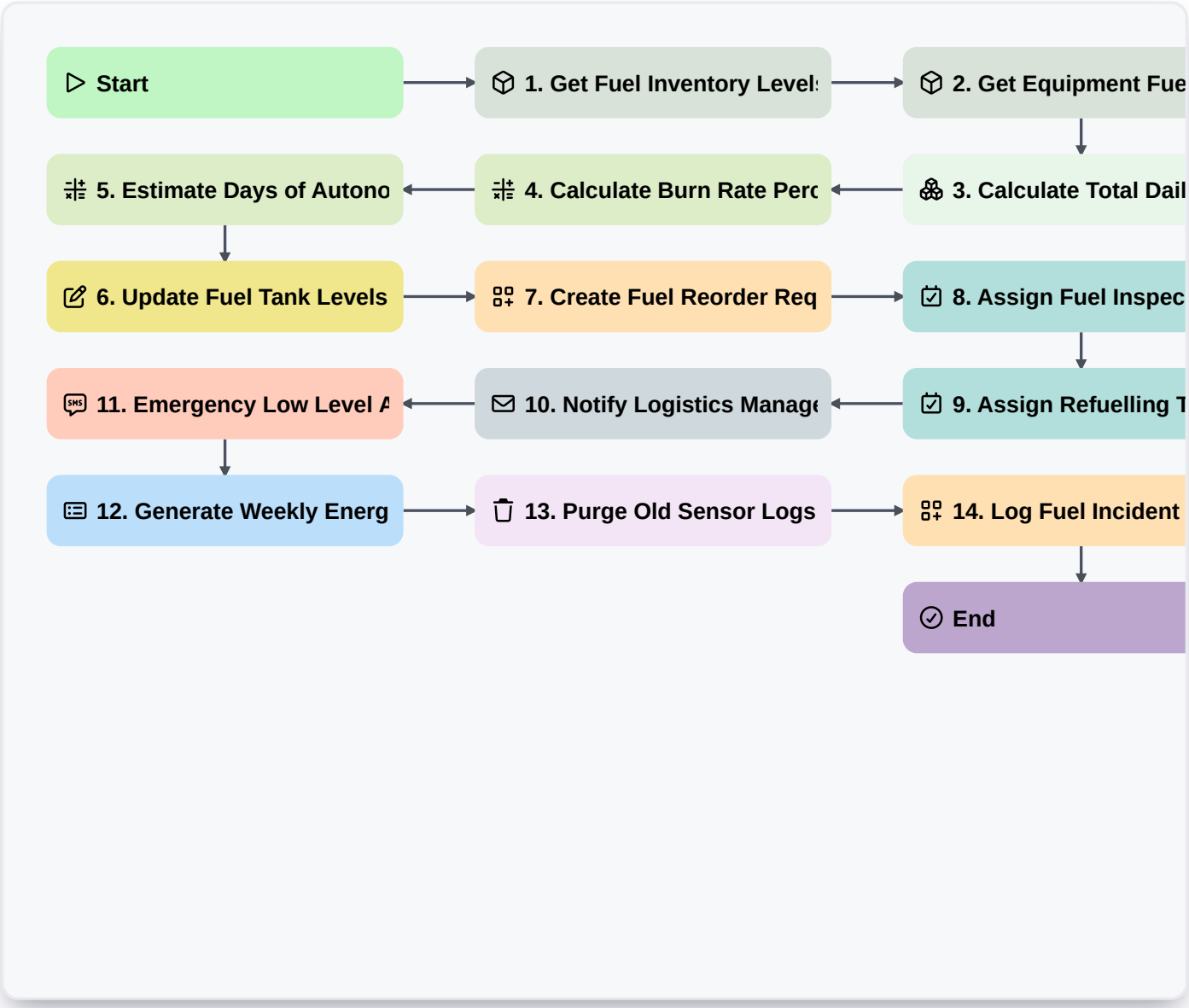
ChecklistGuro

Mine Site Fuel & Energy Management



Start
Start of the Workflow/Process.

1. Get Fuel Inventory Levels
Retrieve current fuel volumes from the Fuel Storage Data Model.

2. Get Equipment Fuel Consumption Logs
Retrieve recent consumption entries from the Fleet Usage Data Model.

3. Calculate Total Daily Fuel Usage
Sum the total liters consumed across all equipment entries for the current 24-hour period.

4. Calculate Burn Rate Percentage
Calculate the percentage of total capacity used by comparing current usage against total tank capacity.

5. Estimate Days of Autonomy
Divide remaining fuel volume by the average daily burn rate to predict when fuel will run out.

6. Update Fuel Tank Levels
Update the 'Current Volume' field in the Fuel Storage Data Model after a delivery or usage period.

7. Create Fuel Reorder Request
Generate a new entry in the Procurement Data Model when levels hit a critical threshold.

8. Assign Fuel Inspection Task
Create a task for the Site Technician to perform a physical dipstick verification.

9. Assign Refuelling Task
Create a task for the Fuel Truck Driver to execute a scheduled refueling of heavy machinery.

10. Notify Logistics Manager
Send an email alert to the Logistics Manager when a fuel shortage is predicted.

11. Emergency Low Level Alert
Send an SMS to the Site Supervisor if fuel levels drop below the critical safety limit.

12. Generate Weekly Energy Efficiency Report
Create a summary report comparing planned fuel consumption vs. actual consumption.

13. Purge Old Sensor Logs
Delete telemetry data entries older than 90 days to maintain system performance.

14. Log Fuel Incident
Create a new entry in the Incident Data Model if a leak or spill is detected.

End
End of the Workflow/Process.