The Integrated Grid Planning Process

1. **Data Collection**
   Forecast and gather data.

2. **Analysis**
   Analyze data to determine energy needs.

3. **Define & Refine Plan**
   Gather information from providers through Request for Information (RFI) to better define plan. Then, procure preliminary Request for Proposals (RFP) to provide a more realistic cost.

4. **Optimize Plan**
   Determine best solutions/options to fulfill plan in timeframe.

5. **Commission Review**
   Present final plan to the Commission for review.

**What’s Different from Before?**

- Multiple providers present different solutions to address energy needs.
- Hawaiian Electric reviews all options and determines best mix of solutions that achieves goal and maximizes customer value.
- Information and cost is based on actual vs theoretical data.

**CONDENSED TIMELINE**
18 months
This phase previously took 30 months
The Integrated Grid Planning Process

Building the Plan to Reach 100% Renewable Energy by 2045

The Integrated Grid Planning (IGP) process is just like creating a plan for a home renovation.

1 Data Collection

RENOVATION: Homeowner talks with family to determine what’s needed.
IGP: Hawaiian Electric speaks with community and stakeholders to gather information and forecast data.

2 Analysis

PROJECT LIST

- Add 2 bedrooms
- Update bathroom to be ADA compliant
- Bring electrical up to current code
- Make bathroom safe for tutu

1 Bedroom on bottom floor for tutu
1 Bedroom for baby
Update electrical to current code
Tutu moving in
Lights keep flickering

RENOVATION: Homeowner creates a list of projects to be done to meet household needs.
IGP: Hawaiian Electric analyzes collected data and forecasts to determine energy needs.

3 Define & Refine Plan

RENOVATION: Homeowner and general contractor gather pertinent information and get price quotes from subcontractors such as carpenters and electricians.
IGP: Hawaiian Electric gathers information from providers through a Request for Information (RFI) to define and refine the plan, then issues preliminary Request for Proposals for solutions with realistic cost estimates and data.

4 Optimize Plan

RENOVATION: A building plan is designed for long-term value.
IGP: Hawaiian Electric determines optimal solutions to maximize customer value and complete plan in shorter timeline.

5 Commission Review

RENOVATION: Homeowner submits building plans to City & County for permit approval.
IGP: Hawaiian Electric presents the final plan to the Public Utilities Commission for review.