## **The Integrated Grid Planning Process**

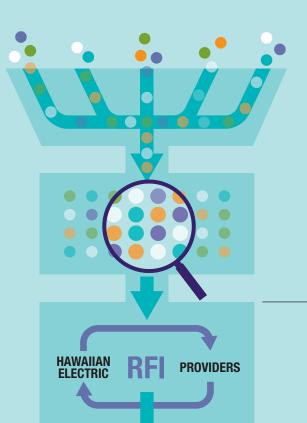
- 1 Data Collection
  Forecast and gather data.
- 2 Analysis
  Analyze data to determine energy needs.

# 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.

Commission Review
Present final plan to the Commission for review.



**PROVIDERS** 

CONDENSED TIMELINE

#### 18 months

This phase previously took 30 months



#### 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.



VS



→ Information and cost is based on actual vs theoretical data.

## 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





**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



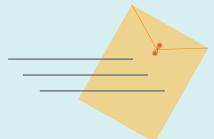
# 5 Commission Review





**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.



**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.