

HAWAII: THE STATE OF CLEAN ENERGY

Clean Energy Accountability: The Metrics Project

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Measuring Progress Towards Hawai 'i Clean Energy Goals

Developing Metrics and Status Reports:

A Project Coordinated by the
Hawai 'i Energy Policy Forum
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Metrics and Status Reports

Are we making progress towards our clean energy goals?

Are we attaining the underlying objectives for our clean energy transition?

How are we going to measure our progress?

Process Objectives

Metrics and Status Reports Should Be:

- Correct from technical analytical perspectives
- Accepted and respected by stakeholders
- Understandable to lay general public
- Feasible to determine and update

Project Phases

Phase I: Planning and Design

- What do we want to measure?
- What are appropriate metrics?

Phase II: Development

- Data Collection, Calculation of Metrics
- Reporting Methods

Phase III: Presentation

- Ongoing Data Maintenance
- Periodic Status Reports

Stakeholder Working Group

- **Energy Committee Chair- State House of Representatives**
- **Energy Committee Chair – State Senate**
- **Hawaii State Energy Office/Department of Business, Economic Development & Tourism**
- **Public Utilities Commission**
- **Hawaii Energy, State Energy Conservation & Efficiency Program**
- **State Department of Health**
- **State Department of Transportation**
- **County of Maui Energy Coordinator**
- **County of Kauai Energy Coordinator**
- **County of Hawaii Energy Coordinator**
- **Hawaiian Electric Company**
- **Kauai Island Utility Cooperative**
- **Chevron**
- **Tesoro**
- **Life of the Land**
- **Hawaii Natural Energy Institute, University of Hawaii**
- **University of Hawaii Economic Research Organization**
- **Hawaii Energy Policy Forum, University of Hawaii**

Ad Hoc Project Team

- **Hawaii Energy Policy Forum**
- **State Energy Office (DBEDT)**
- **Hawaii Energy**
- **University of Hawaii Economic Research Organization (UHERO)**

Phase I Results: Recommended Metrics

- **Attainment of State Standards**
- **Attainment of Underlying Objectives**
- **Overall Clean Energy Progress Indicator**
- **Progress on Projects and Programs**

Attainment of State Standards

- **Renewable Portfolio Standards**
- **Energy Efficiency Portfolio Standards**
- **Clean Energy Initiative Goals**
- **Greenhouse Gas Emission Goals**

Attainment of Underlying Objectives

- **Reducing carbon footprint**
- **Reducing export of dollars from Hawaii**
- **Reducing energy cost volatility**
- **Creating “green jobs”**
- **Increasing fuel supply reliability**
- **Maintaining affordable energy costs**
- **Reducing environmental impacts**

Overall Summary Indicator of Clean Energy Progress

- **Fossil energy content of Hawaii fuel use (BTU) per person (defacto population)**

OR

- **Index of attainment of underlying objectives**

Progress on Projects and Programs

- **Renewable energy projects**
- **Energy efficiency programs**
- **Transportation initiatives**

What' s Next

Phase II:

- Refinement of Recommended Metrics
- Determination of Cost and Feasibility
- Funding and Contracting
- Data Gathering and Populating Metrics
- Designing Data Portal Modifications
- Designing Status Reports