THE UNIVERSITY OF HAWAI’I, MAUI COLLEGE AND LEEWARD COMMUNITY COLLEGE

The University of Hawai‘i (UH), Maui College and Leeward Community College are on track to be the first campuses in the nation with 100% renewable energy generated and stored on-site with battery-enabled technology.

1. Energy Efficiency

UH and the Hawai‘i Legislature established a collective goal requiring the university system to be “net-zero” by January 2035, meaning the system would produce as much renewable energy as it consumes across campuses.

The Maui and Leeward Community College campuses are on track to achieve 100% renewable energy by 2020, fifteen years ahead of schedule. With the on-site renewable energy and battery-enabled self-supply, UH is looking forward to $79 million in energy savings over the next 20 years.

By using an Energy Performance Contract, the savings produced from the on-site generated energy will be redirected from utility costs to make additional facility improvements at Maui and four other UH campuses.

The guaranteed savings have already exceeded the promised amount of $1,866,298 by $510,775, reaching an actualized savings of $2,397,073.

2. Technology Updates

Phase 1: Focus on energy efficiency with the installation of LED lighting, HVAC enhancements and smart controls that can be used to maximize the comfort of occupants while simultaneously reducing energy usage.

Phase 2: The installation of an on-site solar photovoltaic (PV) system coupled with battery storage to help eliminate the campus’ fossil fuel-based energy use.

3. Funding

THE IMPACT OF SOLAR PLUS ENERGY STORAGE

<table>
<thead>
<tr>
<th></th>
<th>3,499,200 kWh</th>
<th>2,464,764 kWh</th>
<th>2,382,518 kWh</th>
<th>82,246 kWh</th>
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</thead>
<tbody>
<tr>
<td>Existing Annual MECO Utility Consumption</td>
<td>Baseline</td>
<td>MECO Consumption After Energy Efficiency Measures</td>
<td>New Solar PV Protection</td>
<td>Net</td>
</tr>
<tr>
<td>Baseline</td>
<td></td>
<td>30% efficiency</td>
<td>68% solar</td>
<td>98% total</td>
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Students and faculty will receive hands-on training in the Learning Laboratories. These labs include workshops for faculty and students to study, monitor and analyze the systems installed across UH, and will evolve as new energy systems are rolled out on campus.

The educational student engagement program centered around clean energy technology offers students:
- Grant support
- Student scholarships
- Building Technology Certificate program
- Course work on energy efficiency technology including modules, internships and a fellows program

4. Student Impact & Excitement

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