Imagine what we could do if the energy to inspire a community came from a museum.

PROJECT SUMMARY

Waypoint Power is a radical concept for clean energy technology, which seeks to harness the power of clean energy for your endeavor – to act as a veritable ‘energy engine for business’. By bringing the various pieces of the clean energy jigsaw together, we can create a new synergy for you, one that will:

> Boost your through-traffic, so building up your business.
> Bring you the free marketing that flows from your visible commitment to clean energy
> Generate the potential for extra revenue streams from selling energy back to EV drivers – or even back to the grid
> Allow your facility to play a vital emergency role for the community, as a source of backup power
> See your electricity bill slashed, or even reset to zero

The proposed project site, the Bernice Pauahi Bishop Museum, lies in one of the more historic parts of Honolulu. Home to the State Museum of Cultural and Natural History, the six buildings making up the museum are a prime destination for visitors to Hawaii, and Honolulu. That makes any project in this flagship location a very visible sign of Hawaii’s commitment to rework its energy future.

With the available roof-space – including the museum’s building facilities and covered walkways – the estimated size of the overall solar PV system is 1,160 kW. It would also be possible to harvest around 4,544,000 gallons of rainwater annually, by tapping into this roof-space.

The envisioned solar system would generate 1,833,337 kWh of clean solar energy annually. Not only would this system cut the current electric bill in half, it would also allow for the sale of electricity to EVs (electric vehicles) – a novel revenue opportunity.

In addition to providing the tangible environmental and financial benefits calculated above, your Waypoint Power installation will also provide something less tangible, but perhaps more critical – a sense of security in an insecure world. Whether caused by natural disaster, terrorist attack or system mismanagement, power outages place a severe stress on any organization.

Waypoint Power is designed to offer a robust and capable solution to this increasingly pressing and prevalent danger. By leveraging on the clean energy stored in its backup battery banks and connected electric vehicles, Waypoint Power will enable your organization to have continuity of power, and service, when disaster strikes.

The energy generated on-site would be the equivalent, annually, to:

- 15,278 Barrels of Oil Saved per year
- 37,528 Trees Planted per year
- 3,227M Gallons of Rainwater Harvested per year
- 1,464 Metric tons of CO₂ Avoided per year
- 1,870 Pounds of Sulfur Dioxide (SO₂) Avoided per year
- 2,310 Pounds of Oxides of Nitrogen (NOₓ) Avoided per year
- 73 Pounds of Fine Particulate Matter (FPM) Avoided per year
- 110 Pounds of Volatile Organic Compounds (VOC) Avoided per year
## Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Estimated Area (m²)</th>
<th>Scaling Factor</th>
<th>Useable Area (m²)</th>
<th># of Panels</th>
<th>Panel Watts</th>
<th>Total (kW)</th>
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</thead>
<tbody>
<tr>
<td>Roof</td>
<td>5180</td>
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<td>4144.0</td>
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<tr>
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<td>546</td>
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<td>62</td>
</tr>
</tbody>
</table>

Buildings are outlined in **RED**. Parking lots are outlined in **BLUE**.

**TOTAL SYSTEM SIZE** 1,160 kW

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**MUSEUM MAP**

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**CONTACT US**

Contact.Us@rpdelio.com
855 RPDELIO
(855) 773-3546

**SOUTH PACIFIC MAILING ADDRESS**

1050 Bishop Street
Suite 351
Honolulu, Hawaii, USA 96813

**NORTHEAST USA MAILING ADDRESS**

9 Reservoir Street
Bethel, CT 06801

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