

Distributed PV Potential Estimates

Therese Klaty

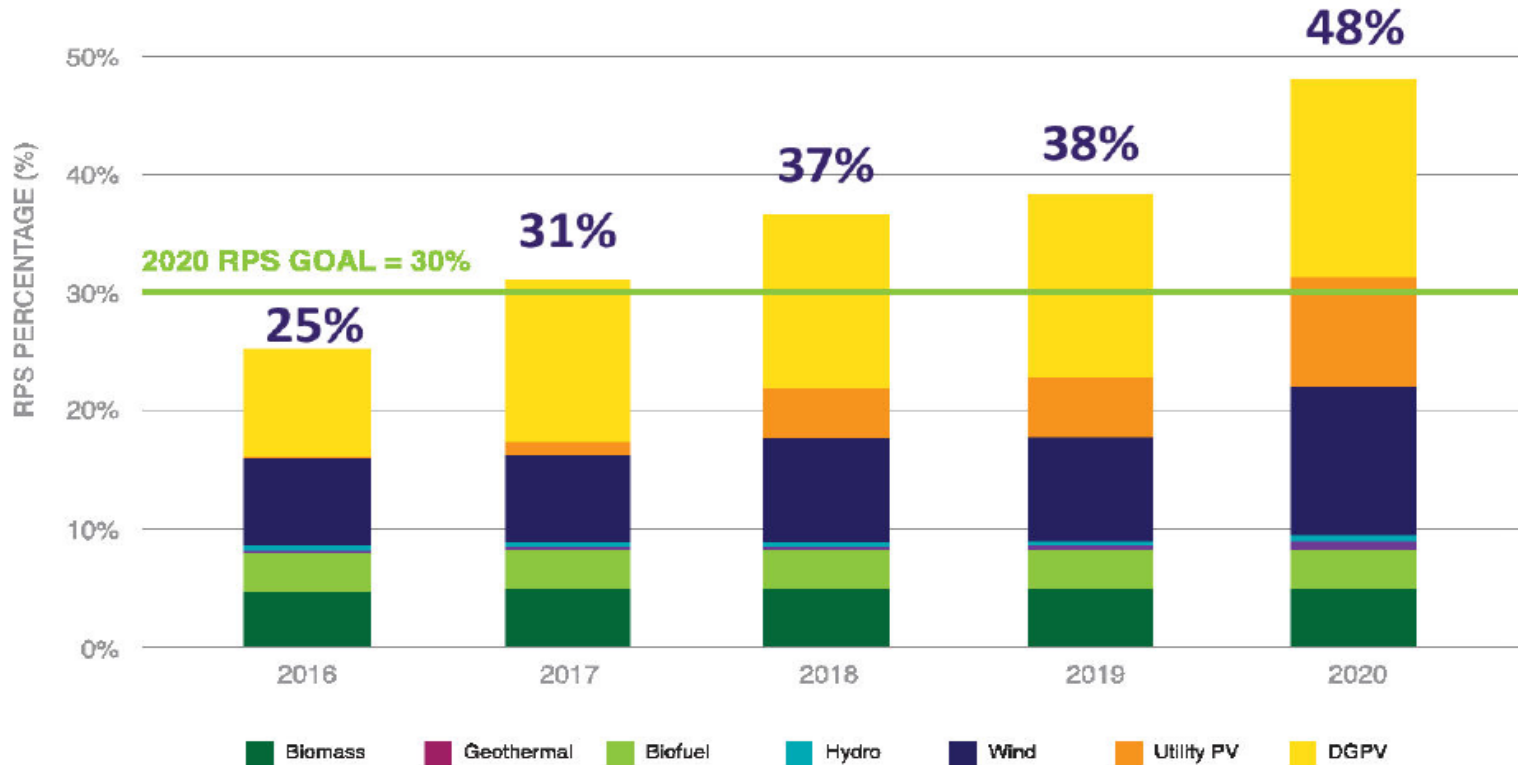
Hawaiian Electric Company

November 16, 2017



Hawaiian Electric
Maui Electric
Hawai'i Electric Light

In the near term, distributed PV is the largest contributing resource to RPS



What is the potential contribution of distributed PV in the long term?



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Distributed PV High Market Potential

December 2016 PSIP Assumptions

- ◆ Percent of sales offset by DG PV by 2045
 - 100% of single-family residential sales
 - 20-25% of total commercial sales
- ◆ Installed capacity derived from resulting customer kWh sales offset
- ◆ Linear growth from 2021 to 2045
- ◆ This is a high penetration scenario, not a technical potential or an economic potential



<https://www.google.com/get/sunroof/data-explorer/>

Google Project Sunroof

Savings estimator Data explorer Solar 101 FAQ

Explore estimated solar potential of your community

Simply enter a state, county, city, or zip code to see a solar estimate for the area, based on the amount of usable sunlight and roof space.

Honolulu

- Honolulu, HI, United States
- Honolulu County, HI, United States
- Kailua, HI, United States
- Kapolei, HI, United States

Oklahoma City, OK Power the City

Fresno, CA Community Solar

Greenville, SC Sunny Side of the Street

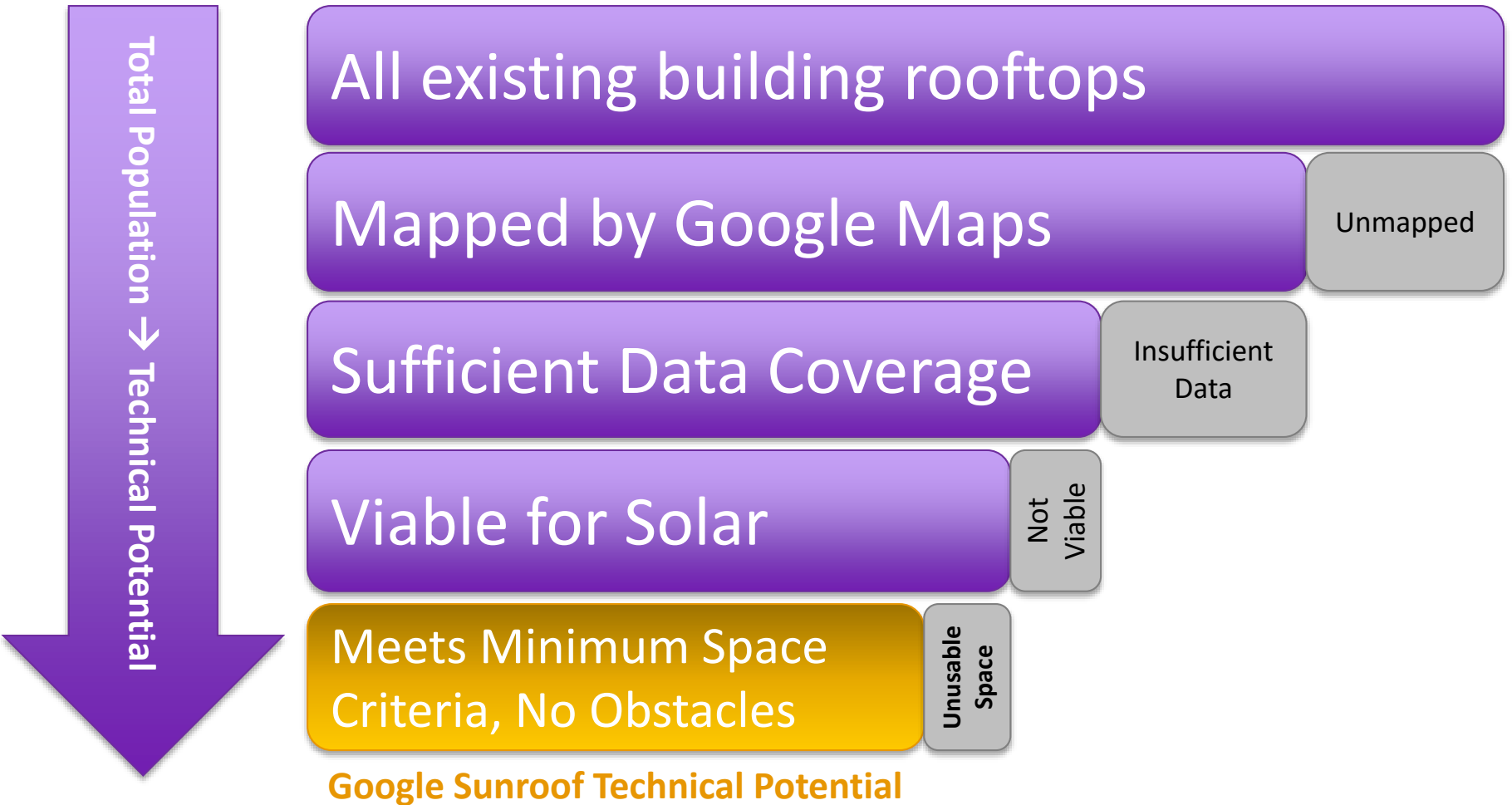
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Image courtesy of Google Project Sunroof

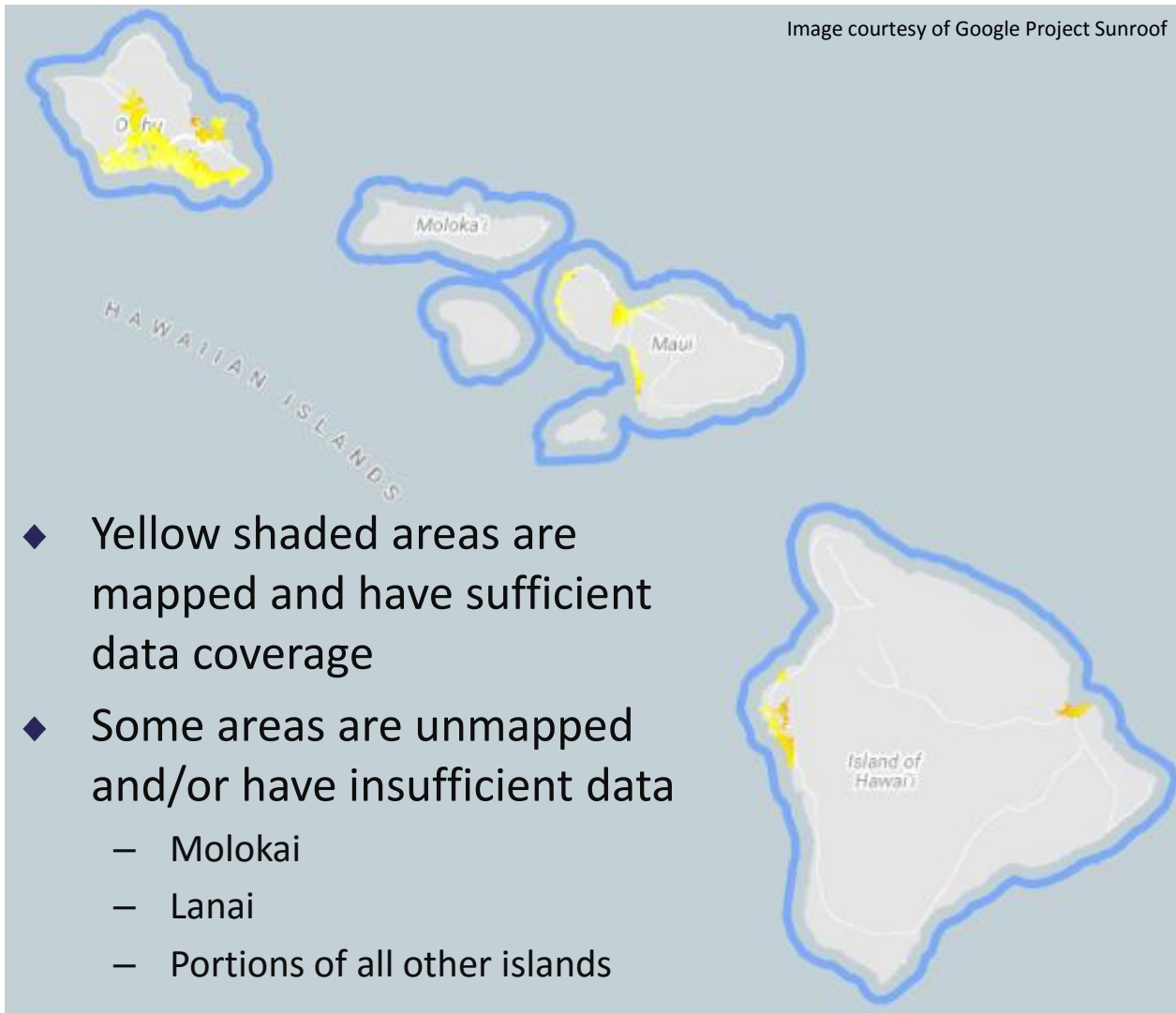


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Google Project Sunroof Rooftop PV Technical Potential

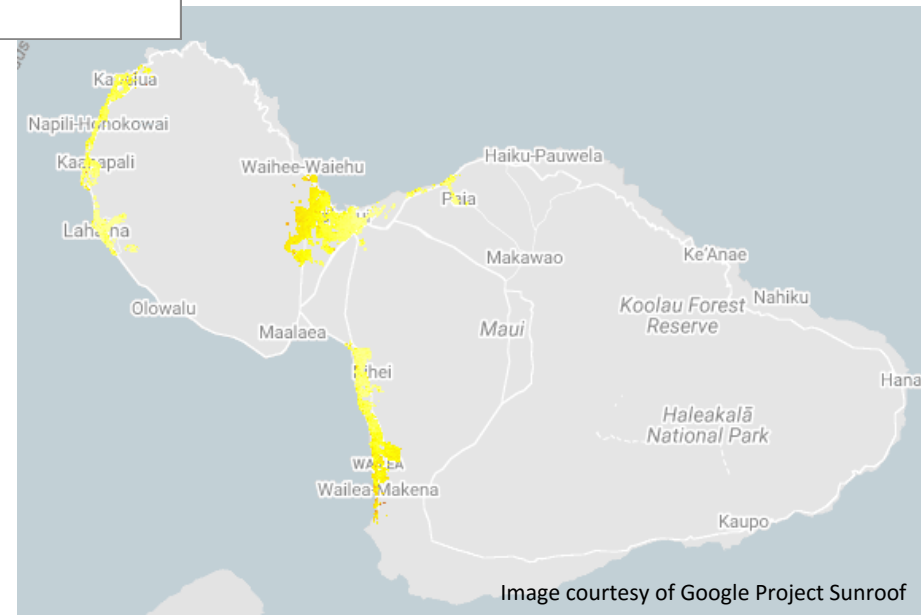
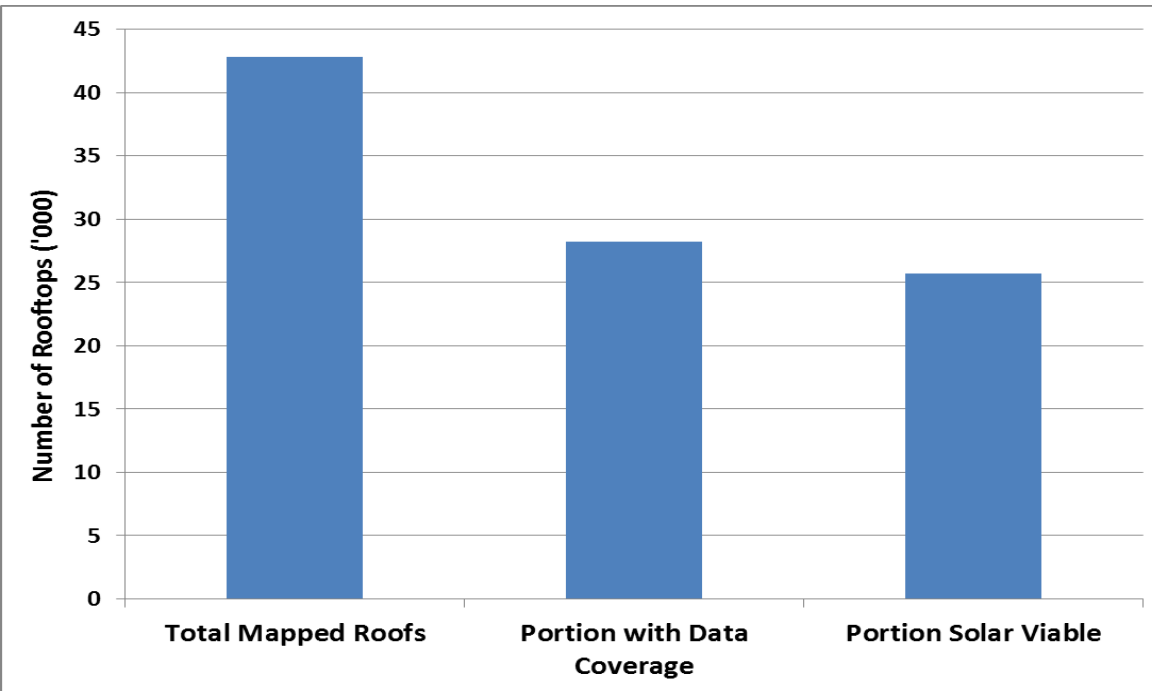


Google Project Sunroof Coverage of Hawaiian Electric Companies Service Territory



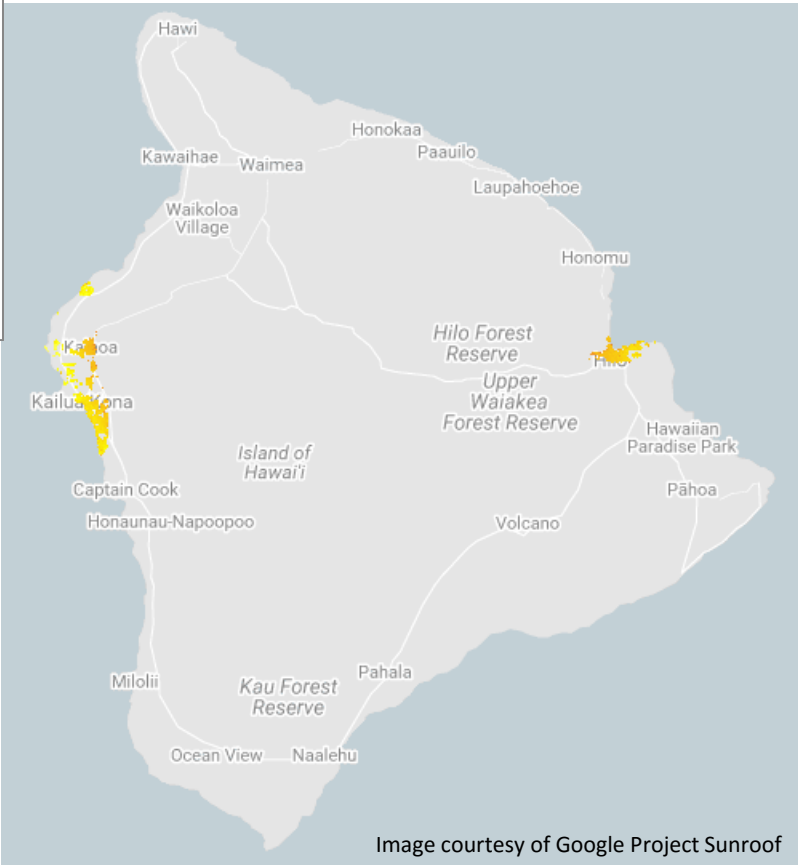
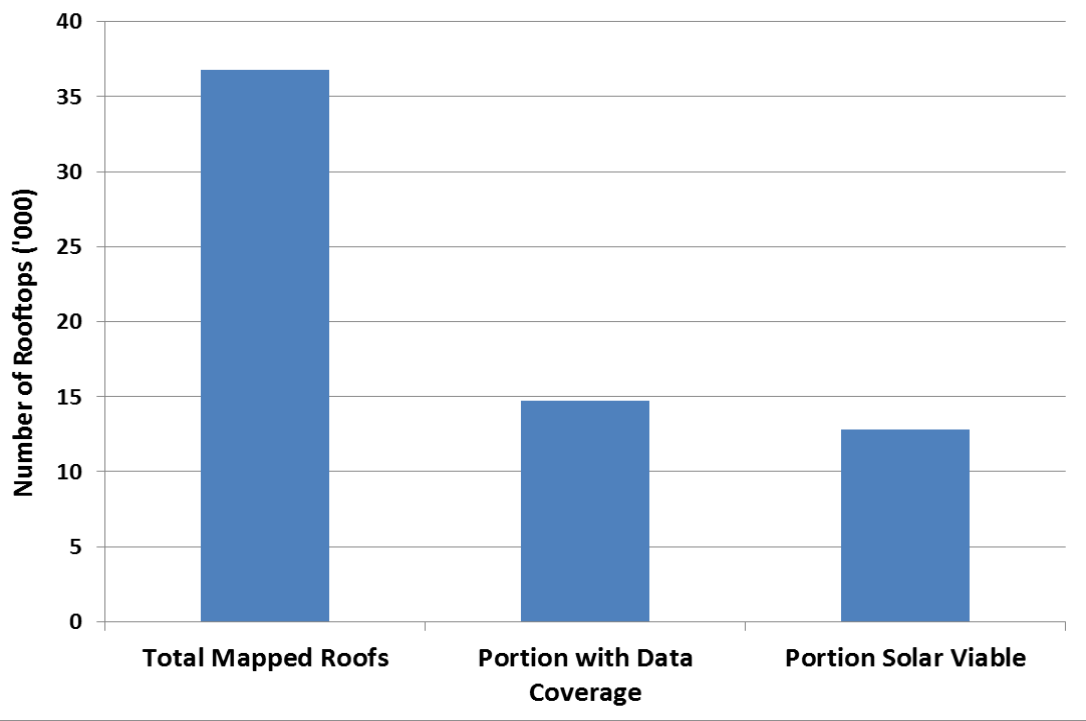
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Google Sunroof on Maui



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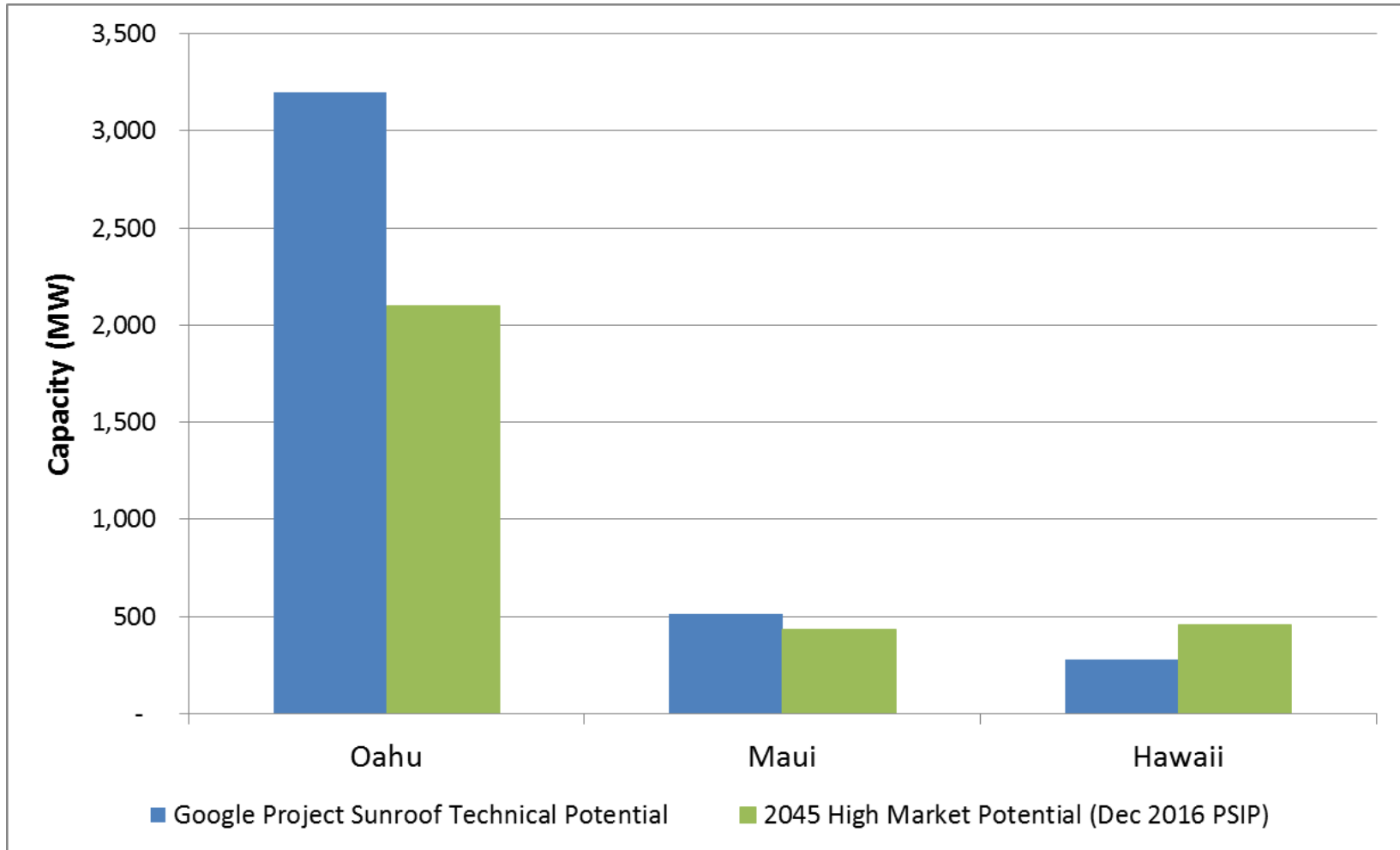
Google Sunroof on Hawaii



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Image courtesy of Google Project Sunroof

Comparison of Technical Potential and High Forecast



Mahalo



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