



Aloha and Welcome

5th **MAUI** 
ENERGY

CONFERENCE + EXHIBITION

Maui Arts & Cultural Center
March 14-15, 2018



Decarbonization: A Business Opportunity for Innovative Communities



ANALYSIS: UTILITY PV CUSTOMERS RESPOND TO EVOLVING DISTRIBUTED ENERGY RESOURCE POLICIES



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#MauiNRG18



MAYOR'S OFFICE OF ECONOMIC DEVELOPMENT MAUI COUNTY

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Consumer Behavior to Energy Policy

The case of Oahu PV and Battery storage development

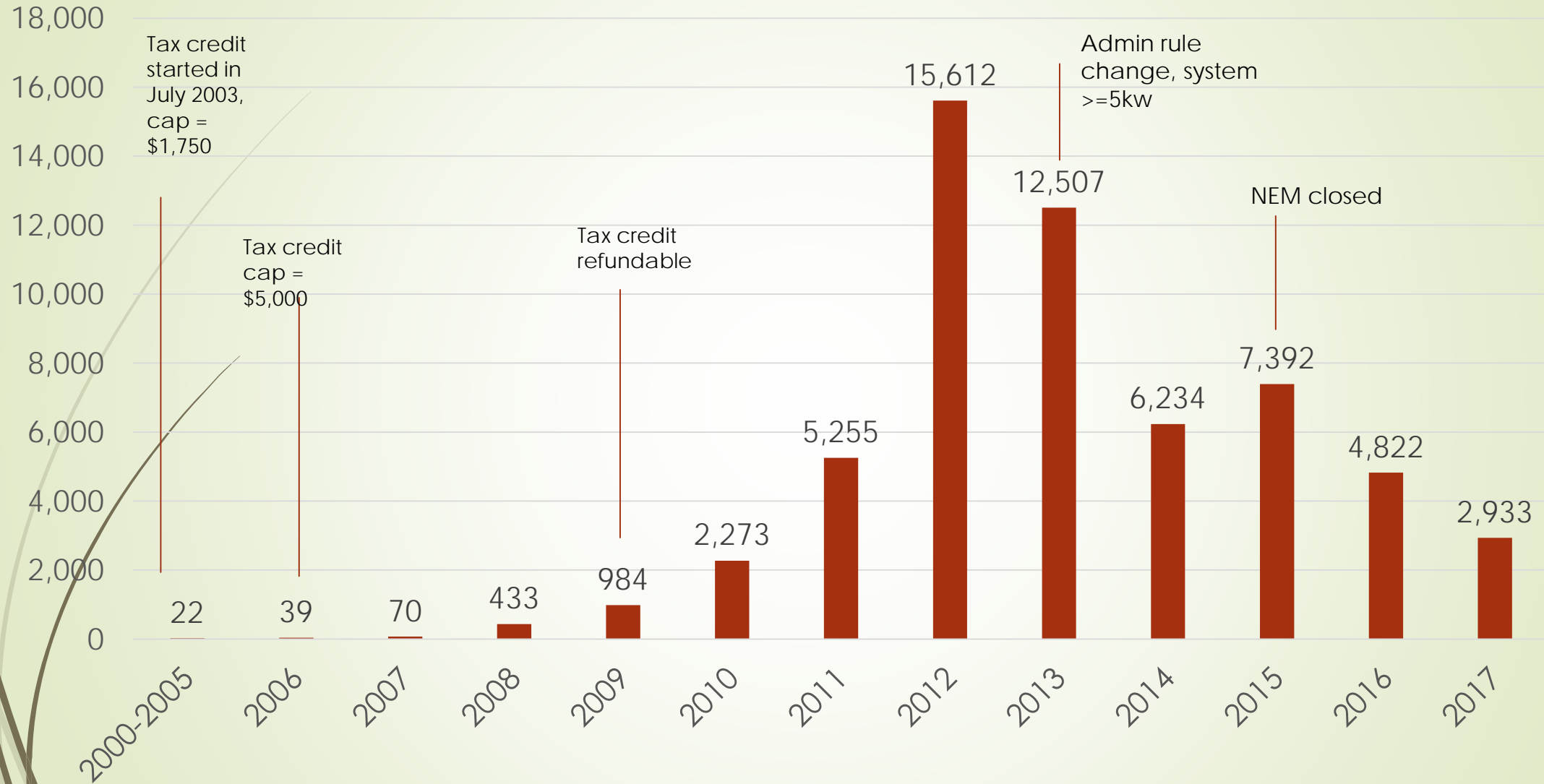
Luis P. Salaveria, Director
Eugene Tian, Chief Economist

Hawaii State Department of Business,
Economic Development & Tourism

Maui Energy Conference

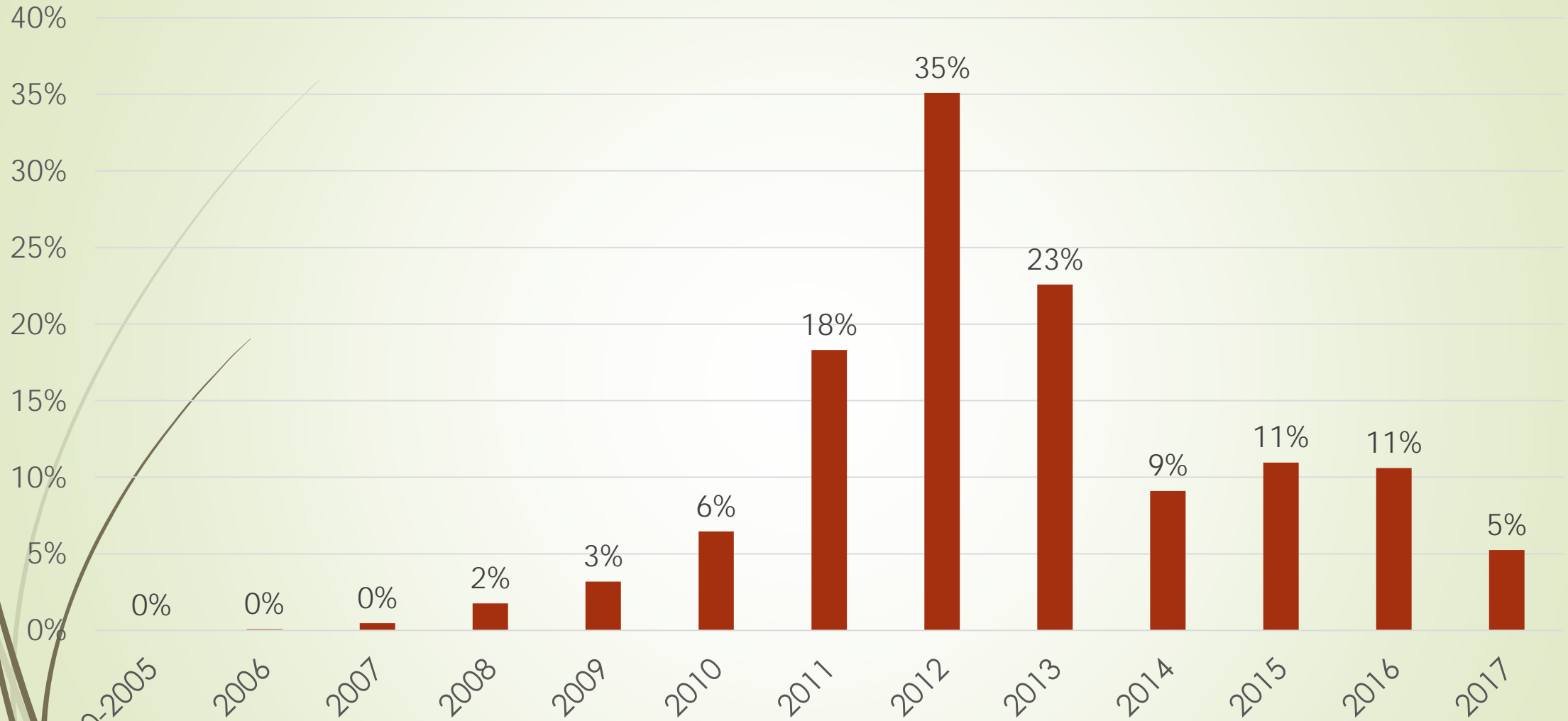
March 14, 2018

Number of PV permits issued on Oahu



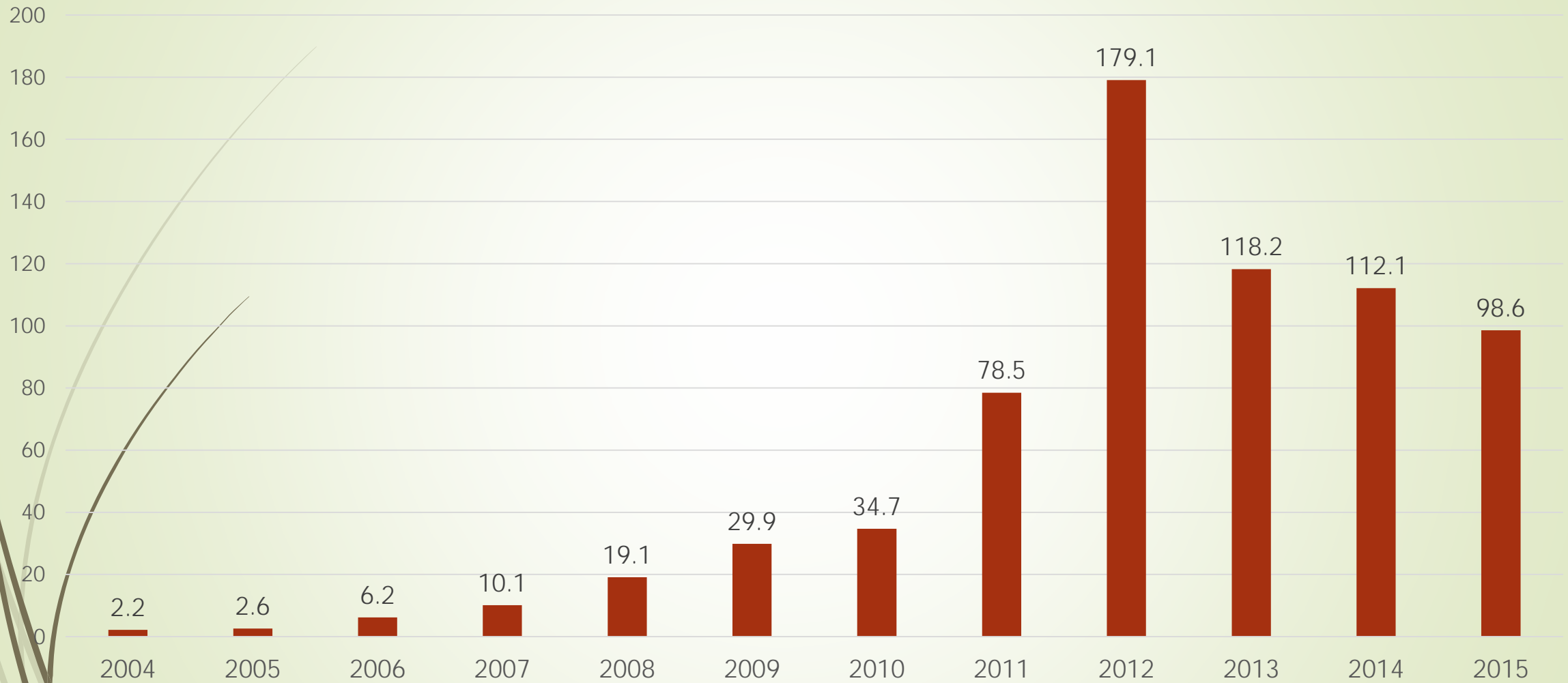
Source: Honolulu DPP

Value of PV permits as % of total building permits



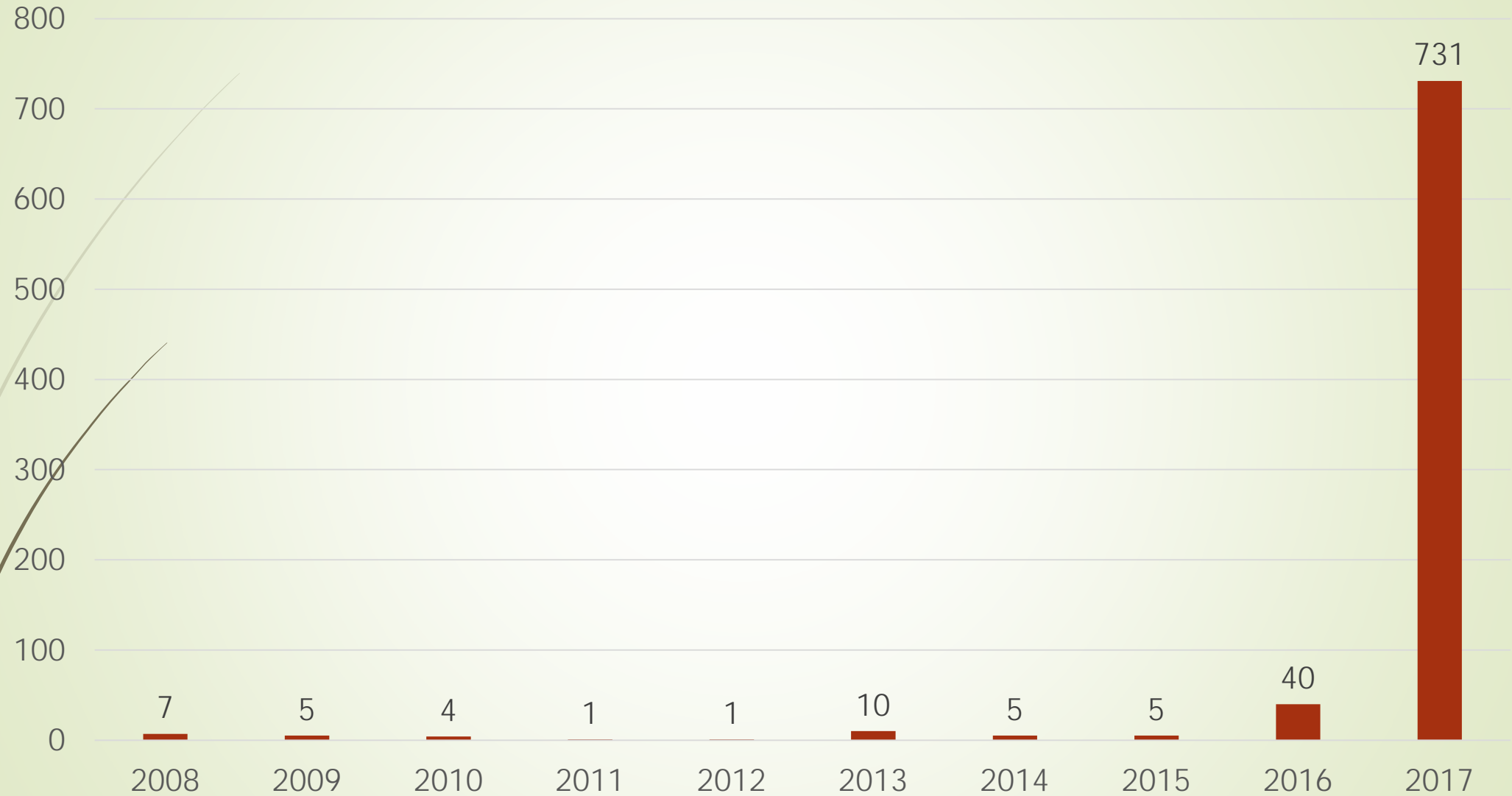
Source: Honolulu DPP

Renewable energy technologies income tax credit claimed: State (\$mil.)



Source: Hawaii State Department of Taxation

Number of building permits related to residential PV plus battery



Source: Honolulu DPP

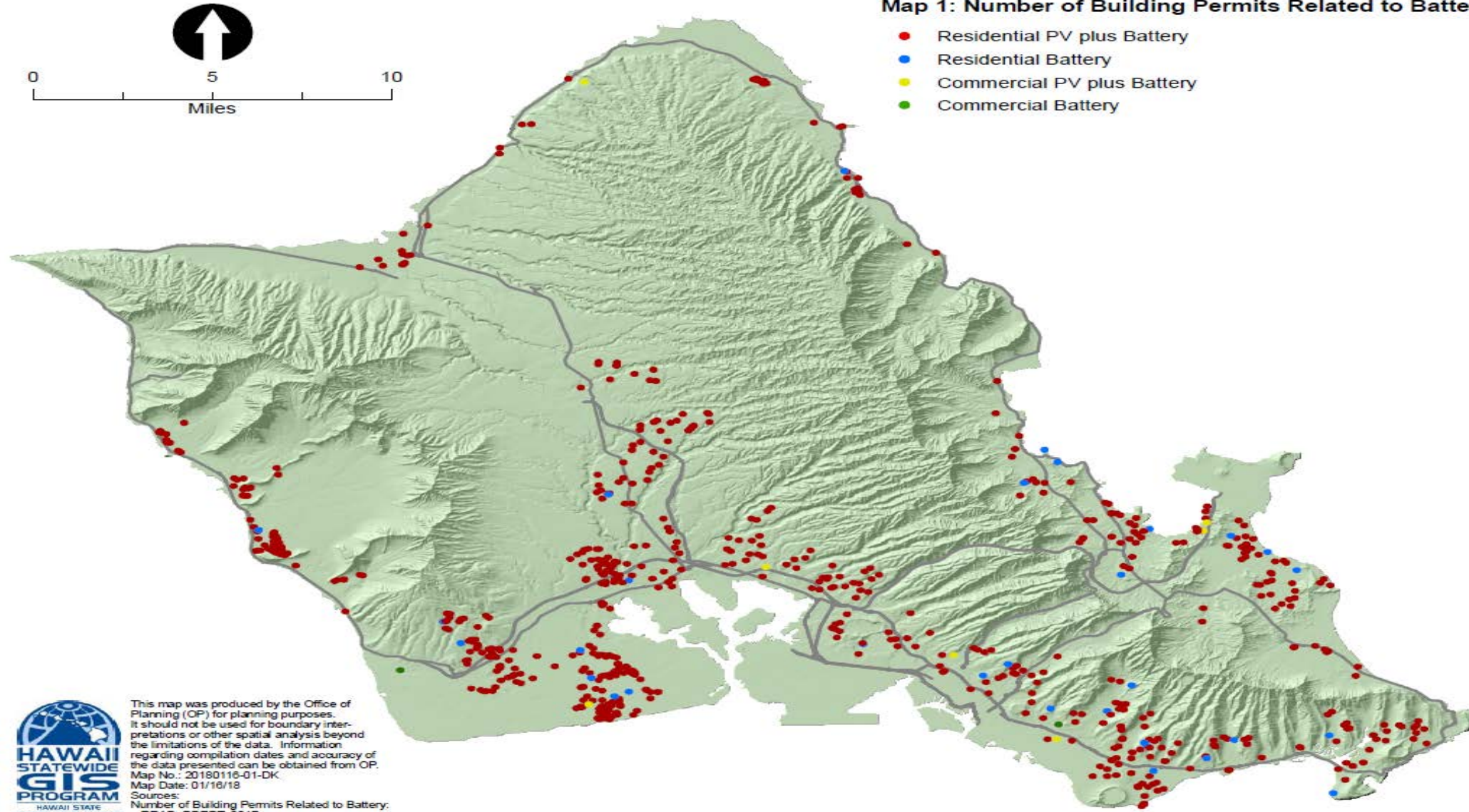
HECO residential electricity sales on Oahu decreased 19.4% during last 10 years (in GWH)



Source: HECO

Map 1: Number of Building Permits Related to Battery: 2017

- Residential PV plus Battery
- Residential Battery
- Commercial PV plus Battery
- Commercial Battery

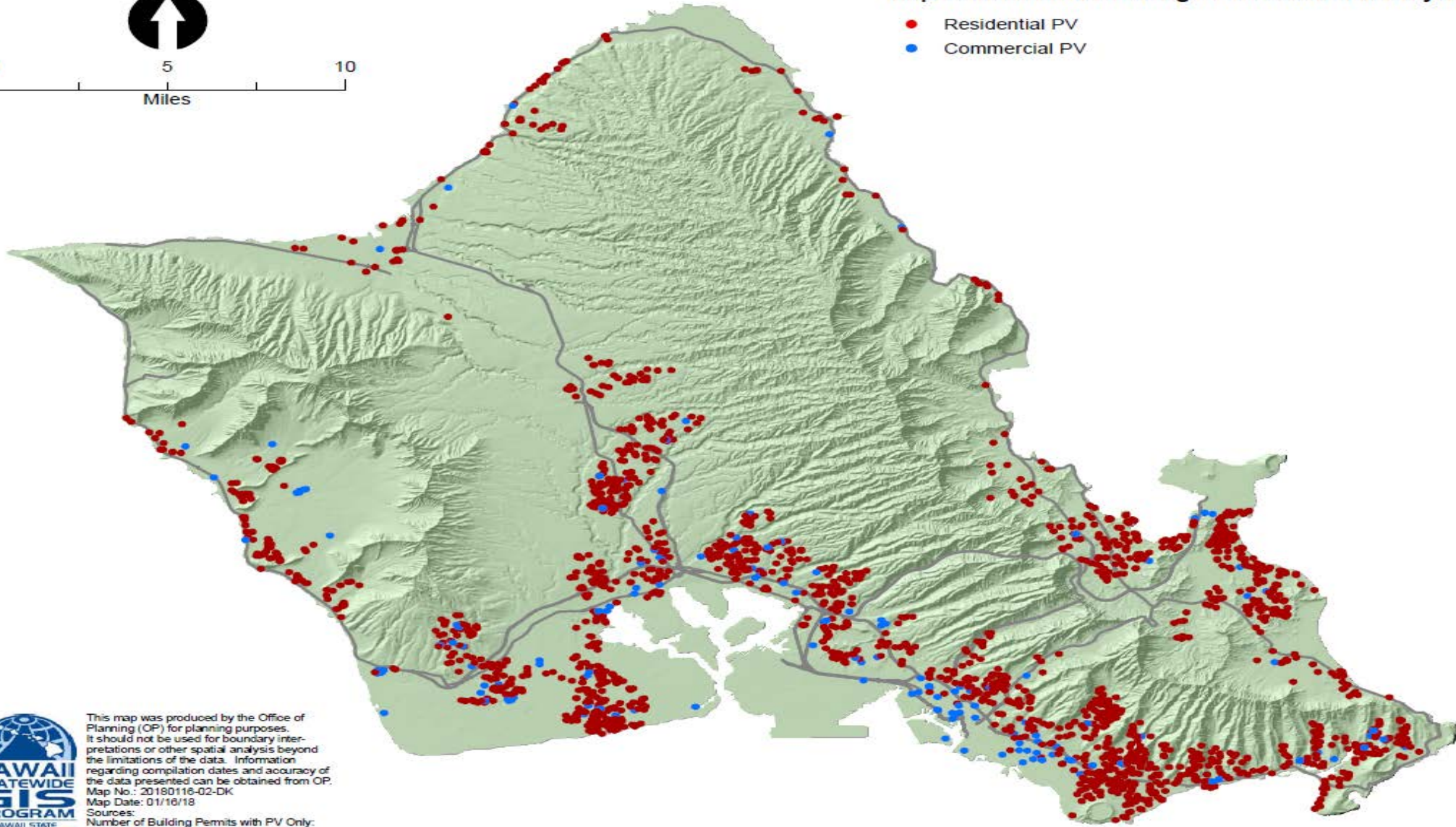
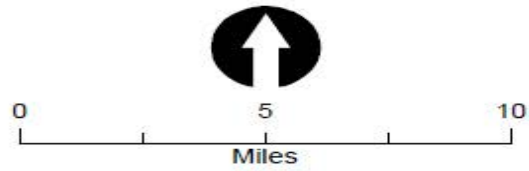


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Map No.: 20180116-01-DK
Map Date: 01/16/18
Sources:
Number of Building Permits Related to Battery:
READ, DBEDT, 2017.

Source: Honolulu DPP; map by OP

Map 2: Number of Building Permits with PV Only: 2017

- Residential PV
- Commercial PV

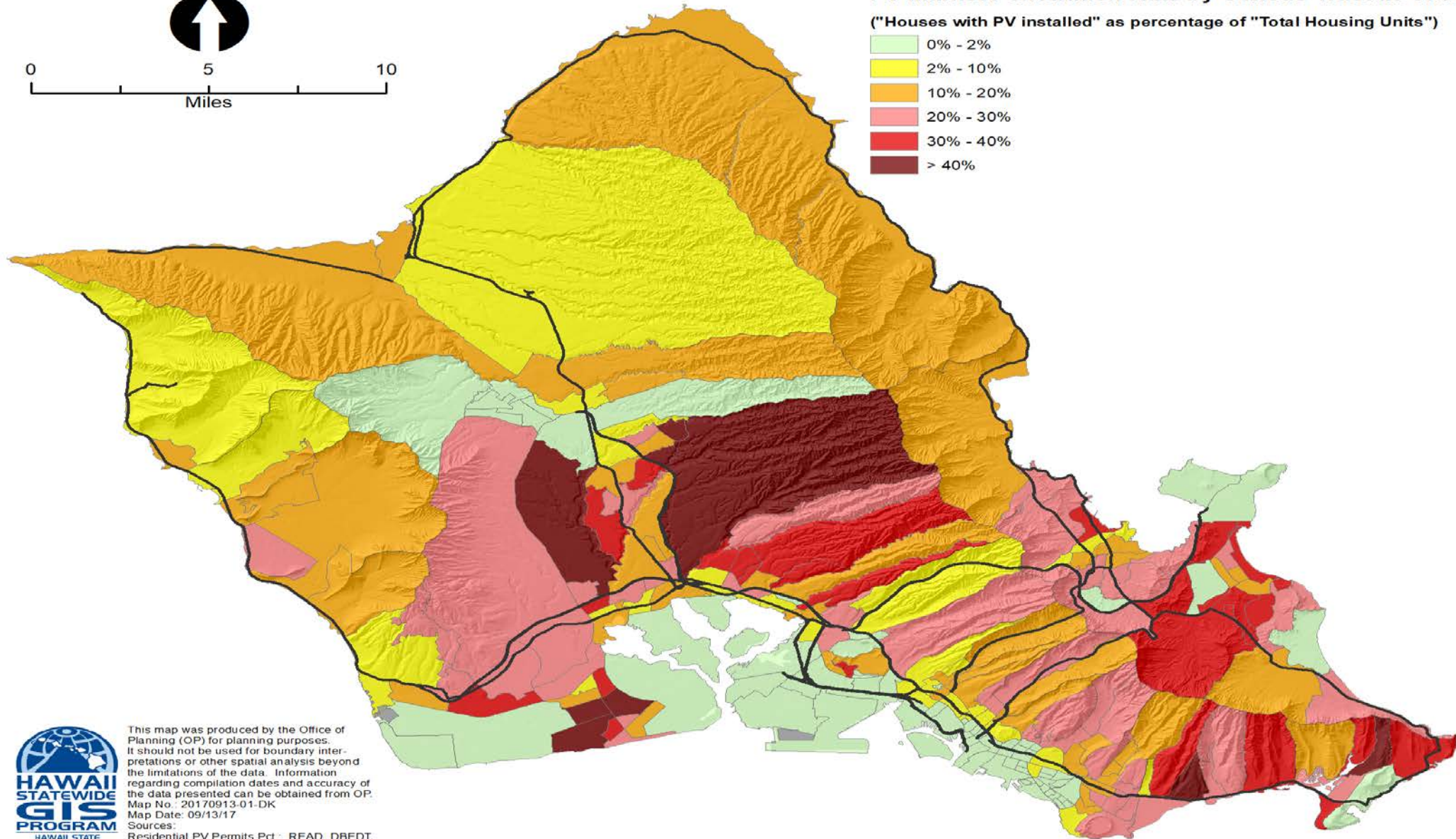
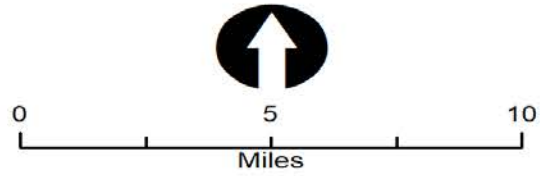
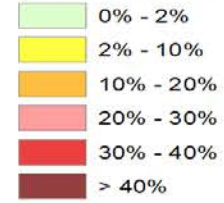


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Map No.: 20180116-02-DK
Map Date: 01/16/18
Sources:
Number of Building Permits with PV Only:
READ, DBEDT, 2017.

Source: Honolulu DPP, map by OP

PV Market Penetration Rate by Census Tract as of July 2017

("Houses with PV installed" as percentage of "Total Housing Units")



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Map No. - 20170913-01-DK
Map Date: 09/13/17
Sources:
Residential PV Permits Pct.: READ, DBEDT, 2017.

Source: Honolulu DPP; map by OP