

Postcard from the Future: The Energy Transition in Hawai'i

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KALAKAUA VISITS EDISON.

***THE KING IN SEARCH OF A MEANS TO
LIGHT UP HONOLULU.***

**The Hawaiian Attorney-General's Proposi-
tion to Provide Edison with Power from
a Volcano—About the Sale of His Kingdom.**

1881



1886



King Kalakaua

Overview

- Hawai'i Energy Landscape
- Contours of Energy Justice
- Concluding Thoughts



Photo: Maui Now



Photo: Earth Justice

Hawai'i Energy Landscape

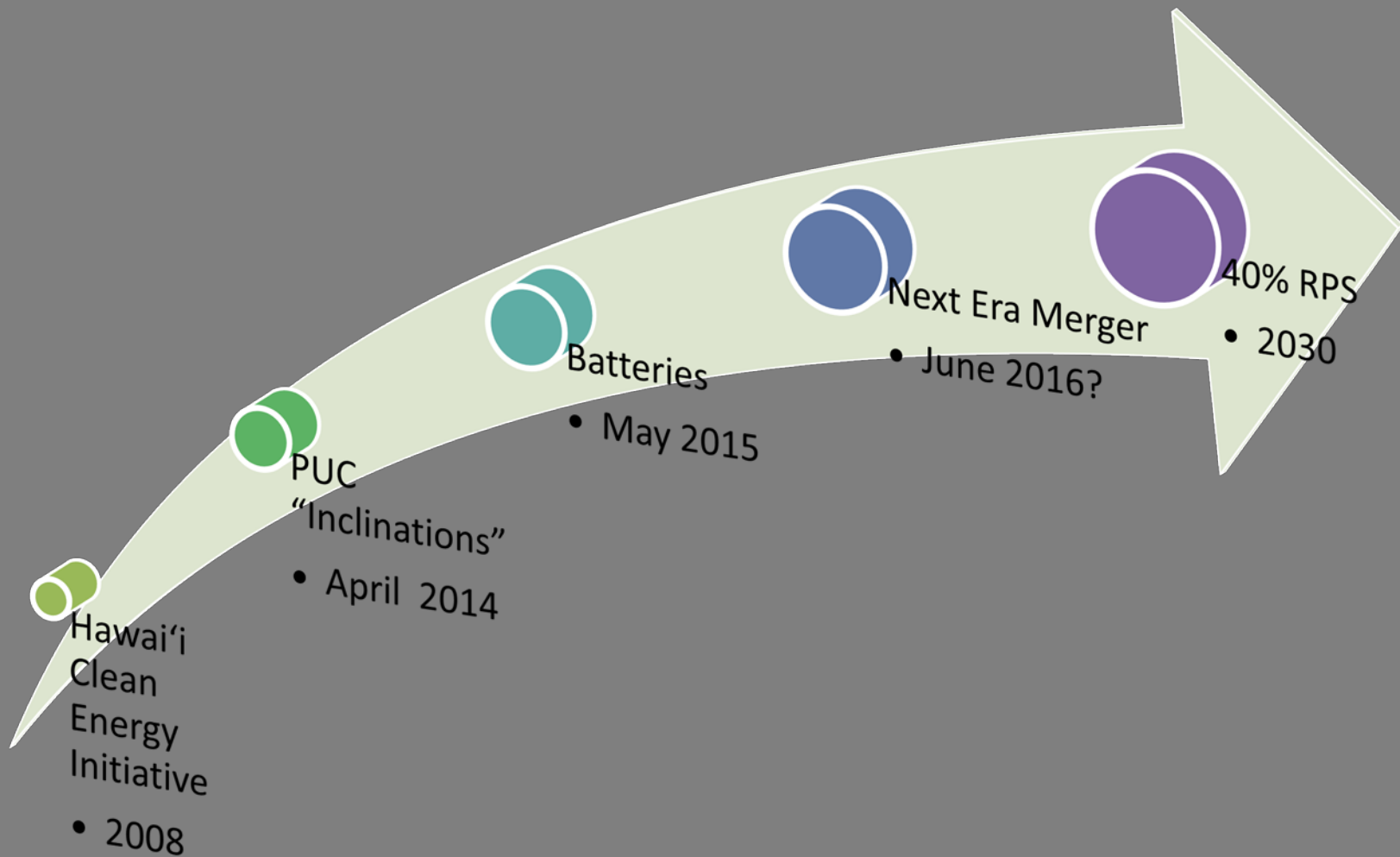


**“All great
changes are
preceded by
chaos.”**

Deepak Chopra

happytoinspire

A (Very) Condensed Timeline



Rooftop Solar – 12%



Photo: New York Times

- 10 kWh \$3500
- 7 kWh \$3000
- 10-year Warranty
- HI: 17 kWh/day [eia]



100% by 2045?



Climate Change Vulnerability



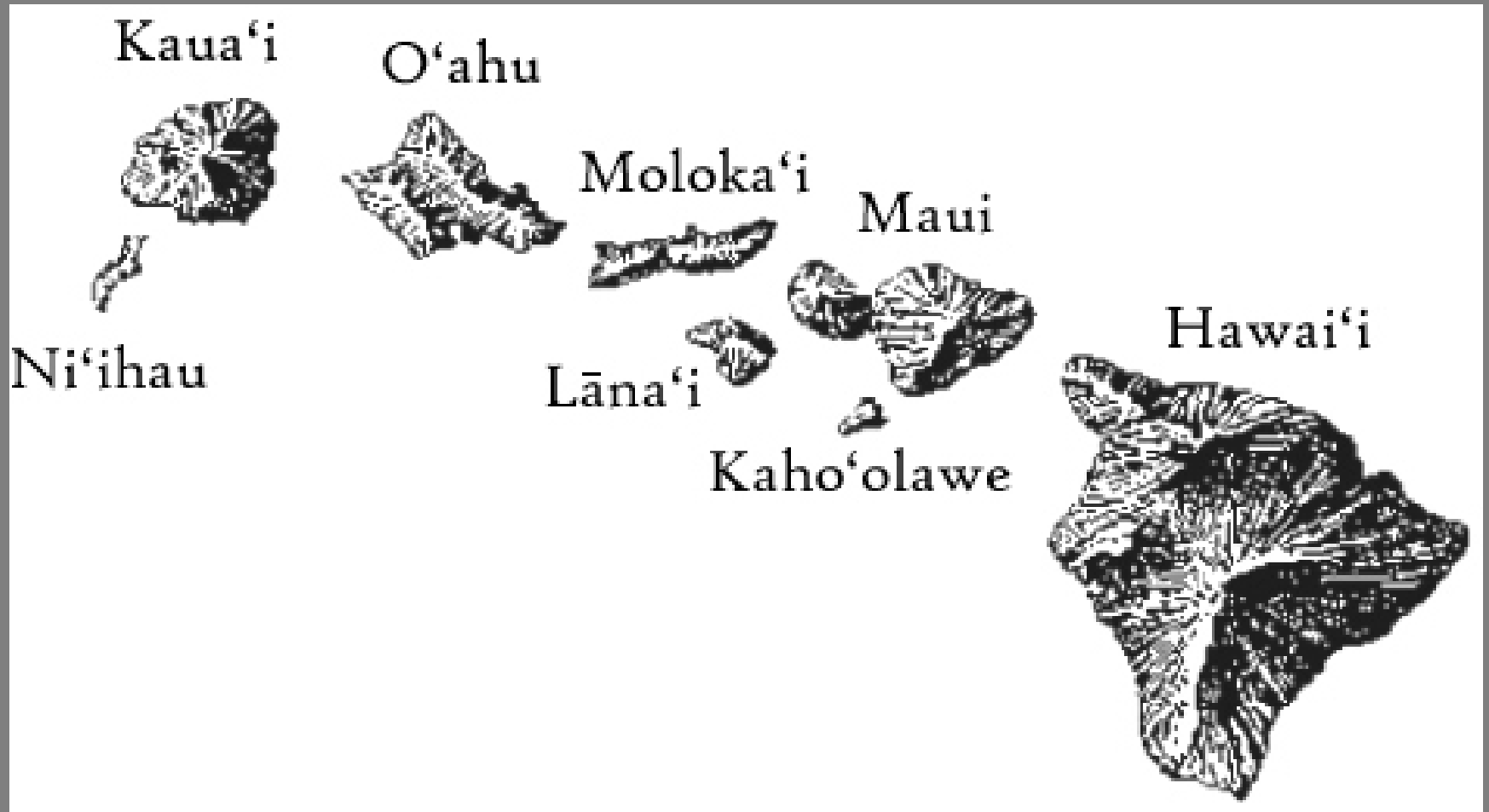
HEI-NextEra Merger 2016





The Changing Nature of Energy: The Contours of Energy Justice

Emerging Discourse



Global Energy Justice

- Distribution of costs
- Distribution of benefits
- Procedures and decisions-making regarding energy

Emergence of Domestic Energy Justice

- Energy Investment Districts [Center for Social Inclusion]
- Virtual Net Metering [CA]
- Community Solar Gardens [CO]
- Third Party PV [SMUD]

Common Features

- Decentralized energy production
- Community-driven decision making
- Community-scale versus utility-scale
- Innovative financing

Concluding Thoughts



World Economic Forum (2013)

“Yet, here I am again, seeking to appeal to the most powerful that they have to move beyond an obsession with preserving a system that drives economic inequality, environmental destruction and violence. What is needed is not system maintenance or system recovery but substantial system redesign.”*

*Executive Director of Greenpeace International,
Kumi Naidoo.

Common Institutional Approaches

<u>Type</u>	<u>Providers</u>	<u>Customers</u>	<u>Sales</u>
Investor Owned Util.	5.9%	68.2%	54.4%
Public Power	61.5%	14.6%	15.4%

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Public Power	61.5%	14.6%	15.4%
Cooperatives	26.8%	12.9%	11.1%