Maui's Energy Future

Indigenous and Affordable?

Doug McLeod
DKK Energy Services LLC
August 2016

What will it cost to get to a 100% Renewable Portfolio Standard (RPS)?

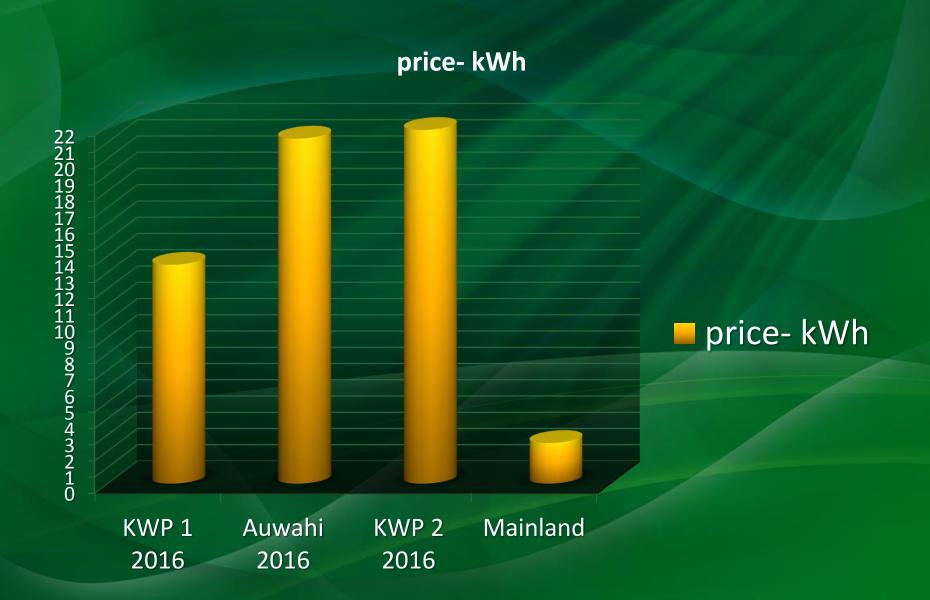
- Economic Cost-comparing how MECO does things today to a preferred future
- The cost to our community aka "externalities"
- The social cost-how are we treating the solar industry that got us here?

MECO costs have dropped-a lot

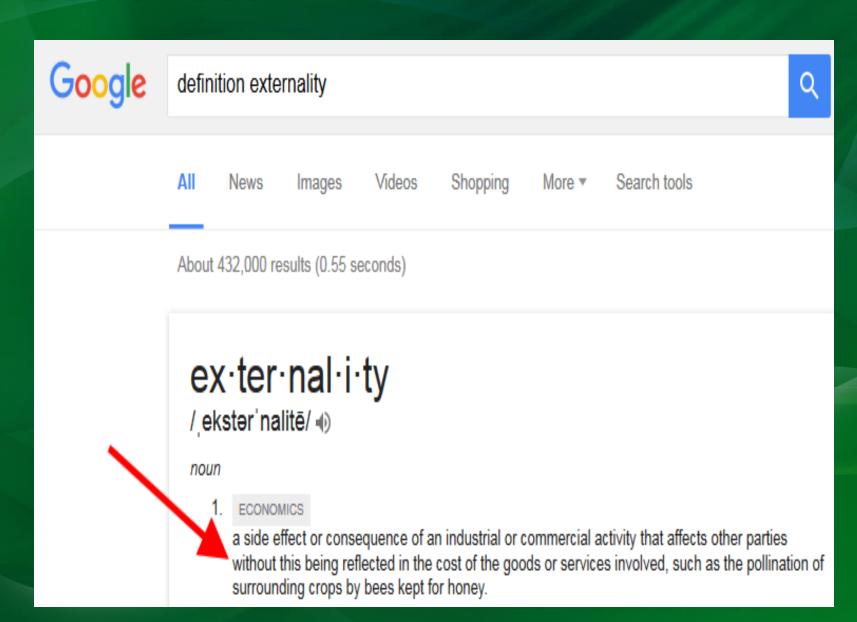
Can we promise savings from here?



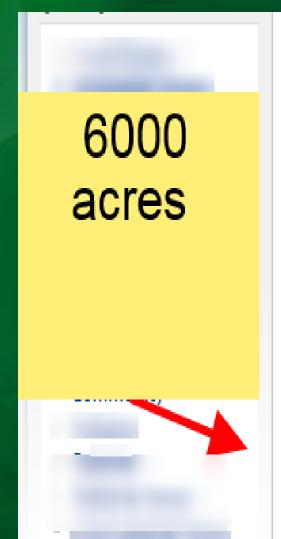
Maui Costs vs Mainland costs



Social Cost



The real world



High winds fuel fast-moving brush fire mauka of Maalaea

Homes, Maalaea Harbor Shops evacuated; 6,000 acres burned

July 3, 2016

By CHRIS SUGIDONO - Staff Writer (csugidono@mauinews.com), The Maui News

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MAALAEA - Ash and smoke carried by strong, gusty winds blanketed Maalaea, burning people's eyes while a brush fire roared across roughly 6,000 acres Saturday.

About a dozen Maalaea residents and hundreds of customers and workers at the Maalaea Harbor Shops area were evacuated, and

Top News

Hydrogen sulfide release reported from Puna Geothermal plant

Star-Advertiser staff

August 7, 2014



Hawaii County Civil Defense issued an alert from an uncontrolled release of hydrogen sulfide steam at the Puna Geothermal Venture plant in Pohoiki.

At about 8:15 p.m., civil defense officials said emergency crews were responding and plant operators are working on controlling the release and monitoring the emissions at the controversial lower Puna geothermal plant.

Residents in the area of Leilani Estates and and Pohoiki Road were advised to remain indoors or to evacuate the area if they experienced any discomfort.

"We lost transmission lines, so the plant couldn't deliver any of the electricity," PGV spokesman Mike Kaleikini said. He attributed the the lines going down to high winds.

Kaleikini said the plant has to shut down whenever there is a loss of transmission because pressure builds up. The plant releases some steam to relieve the pressure buildup to protect its equipment, he said.

Mark Twain > Quotes > Quotable Quote



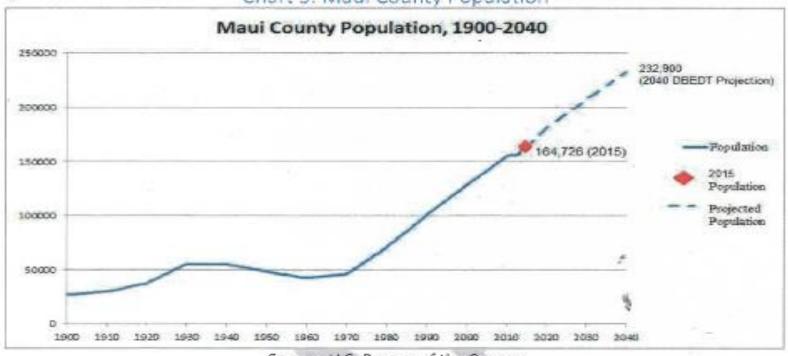
"Whiskey is for drinking; water is for fighting over."

Mark Twain

tags: whiskey-war

Read more quotes from Mark Twain





Source: U.S. Bureau of the Census

Sustainable, ecologically sound development

- Doesn't our community have a clear preference for making electricity without using water?
- How does this get factored in to MECO's "cost" analysis?
- Moving to 100% IS A ZERO SUM GAME

The Social Cost



TOPICS

Hawaii utilities hit rooftop solar caps for grid supply tariff on Maui, Big Island

By Krysti Shallenberger | August 25, 2016 print



Maui solar companies describe the residential pv market on Maui

• "Annihilated"

"Destroyed"

All owners said their biz down AT LEAST 50%

"We will all lay off people in the next 90 days"

"There is less activity now than at the start of the year, and we anticipate things slowing down much faster going forward, but as of today, we have not seen too much of a slowdown this year." County DSA

Residential PV	Residential PV Permits		Commercial PV Permits	
1/1/2016 - 3/31/2016	497	43	3	
4/1/2016 - 6/30/2016	440	27	7	
7/1/2016 - 8/25/2016	371	35	5	

Mahalo



