

# Is NET Metering dead?

What options do we have?

- Sign an agreement with the utility at a reduced rate of compensation?
- Give up on the Renewables?
- Add energy storage and transition to a self consumption style system (Does the ROI pencil out?)

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# Is NET Metering dead?

States are moving away from Net Metering

- Hawaii
- Wisconsin
- Maine
- Others

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# Buzzwords

- Grid 0
- Grid Support
- Self Consumption
- Mai Tai
- Rule 21
- Smart Inverter
- Energy Storage
- Inadvertent export



# Will the Wind Manufacturers adapt to the self Consumption/Smart Inverter technology?

- Lower volume sales compared to the solar market
- Legacy turbines, no manufacturer support



# Legacy Equipment

- AC Coupled (Cost Prohibitive?)
- Did the system perform as expected?
- Is there a Grandfather time line on NET metering?



# Grid 0

- Outback Power term
- Supports critical load panel
- No selling to the grid
- No selling to the Main panel
- Some adjustability



# Grid Support

- Schneider term
- Only uses grid power as needed when battery voltage falls below set point
- Supports critical load panel
- No selling to the grid
- No selling to the Main panel
- Some adjustability
- Allows Energy Storage as a buffer



# Self Consumption

- New Term
- Use what you produce but never sell to the grid
- A lot of new “Smart Inverters” coming along for this
- Inverters coming that do not require batteries





# Mai Tai

- Group formed to work with the electric companies in Hawaii
- Focused on Self Consumption with Selling to the Main panel but never exporting to the grid
- Will not require Energy Storage
- Will monitor current flow into grid



# Rule 21

- California based
- Smart Inverters allow utility control
- More utility friendly
- Utility has control of Energy Storage as well as inverter export ability



# Smart Inverter

- Similar to Rule 21
- Flexible in Software
- Adaptable as states change policy
- In general they will allow utilities to control export of energy to stabilize the grid



# Energy Storage

- Battery
- New Technologies
- New Breakthroughs will lower cost?
- New Chapter in NEC 2017



# Inadvertent Export

- Term developed with the Mai Tai group. Basically means the net export of power to the utility for no financial gain



# New methods and manufacturers

- Tesla
- Fronius
- MidNite
- Enphase
- Solar Edge
- Others



- Sell to Main Panel
- No Battery Required on some
- Monitor current into the Mains
- Minimal Energy Storage



What does this all mean? “It is going to be an interesting few years”



## Questions?

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