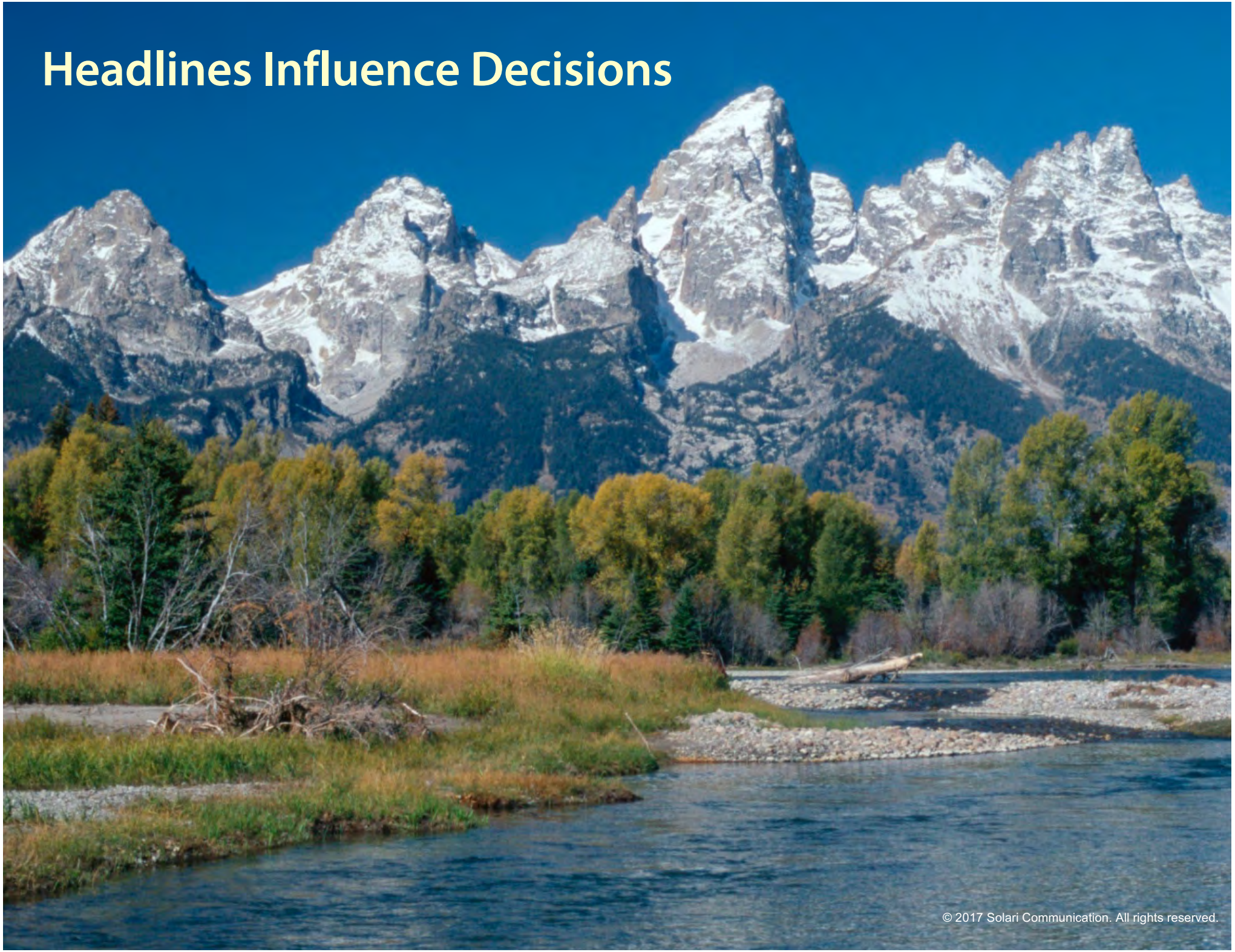
# Communicating with IRP Stakeholders

Rich Maggiani
Solari Communication

# Headlines Influence Decisions



# The Trail Ahead

# The Trail Ahead

## Hawaiian Electric Case Study:

# The Trail Ahead

## Hawaiian Electric Case Study:

- About Hawaiian Electric

# The Trail Ahead

## Hawaiian Electric Case Study:

- About Hawaiian Electric
- Tale of Four Resource Plans

# The Trail Ahead

## Hawaiian Electric Case Study:

- About Hawaiian Electric
- Tale of Four Resource Plans
- Communicating Your Headline

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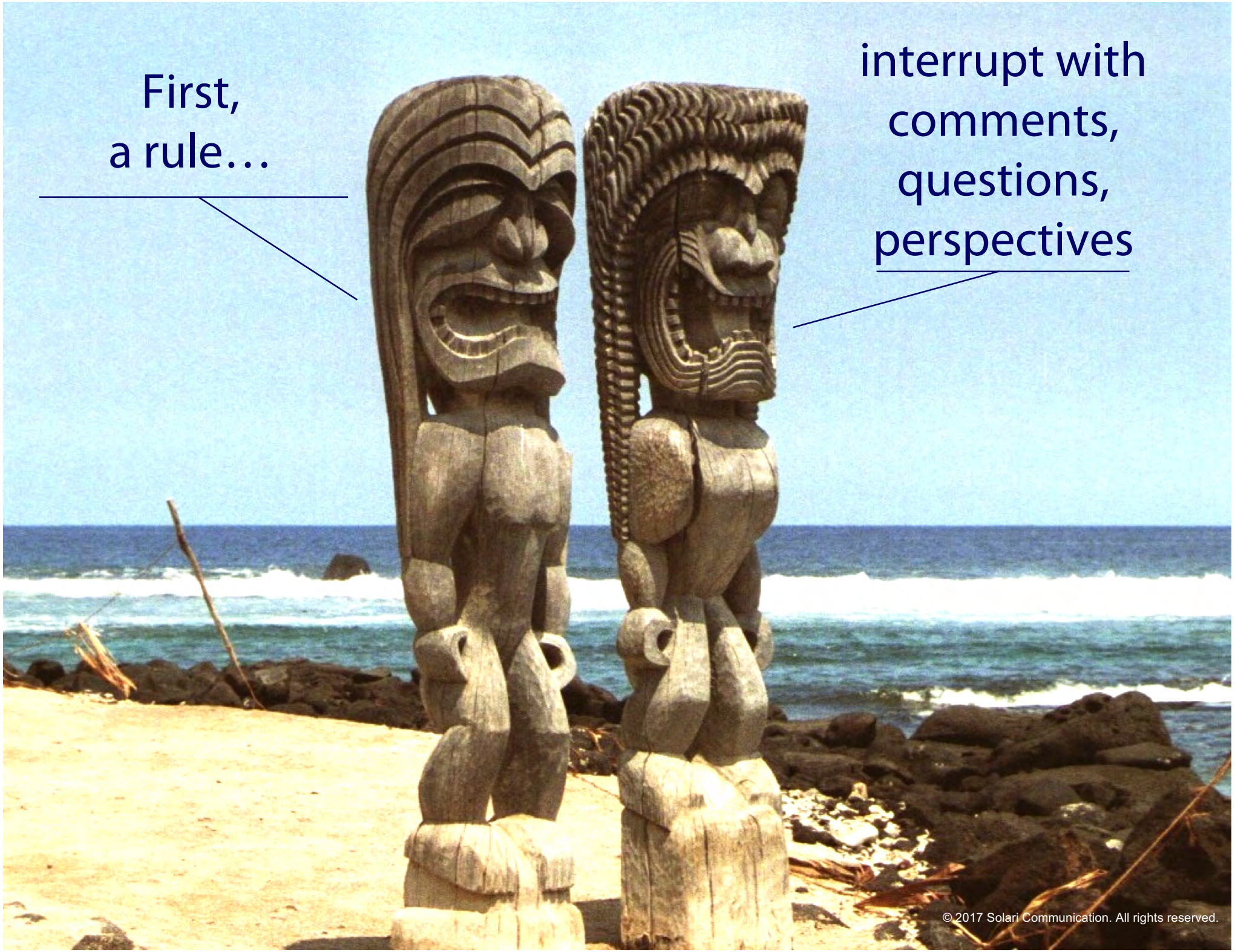
# The Trail Ahead

## Hawaiian Electric Case Study:

- About Hawaiian Electric
- Tale of Four Resource Plans
- Communicating Your Headline

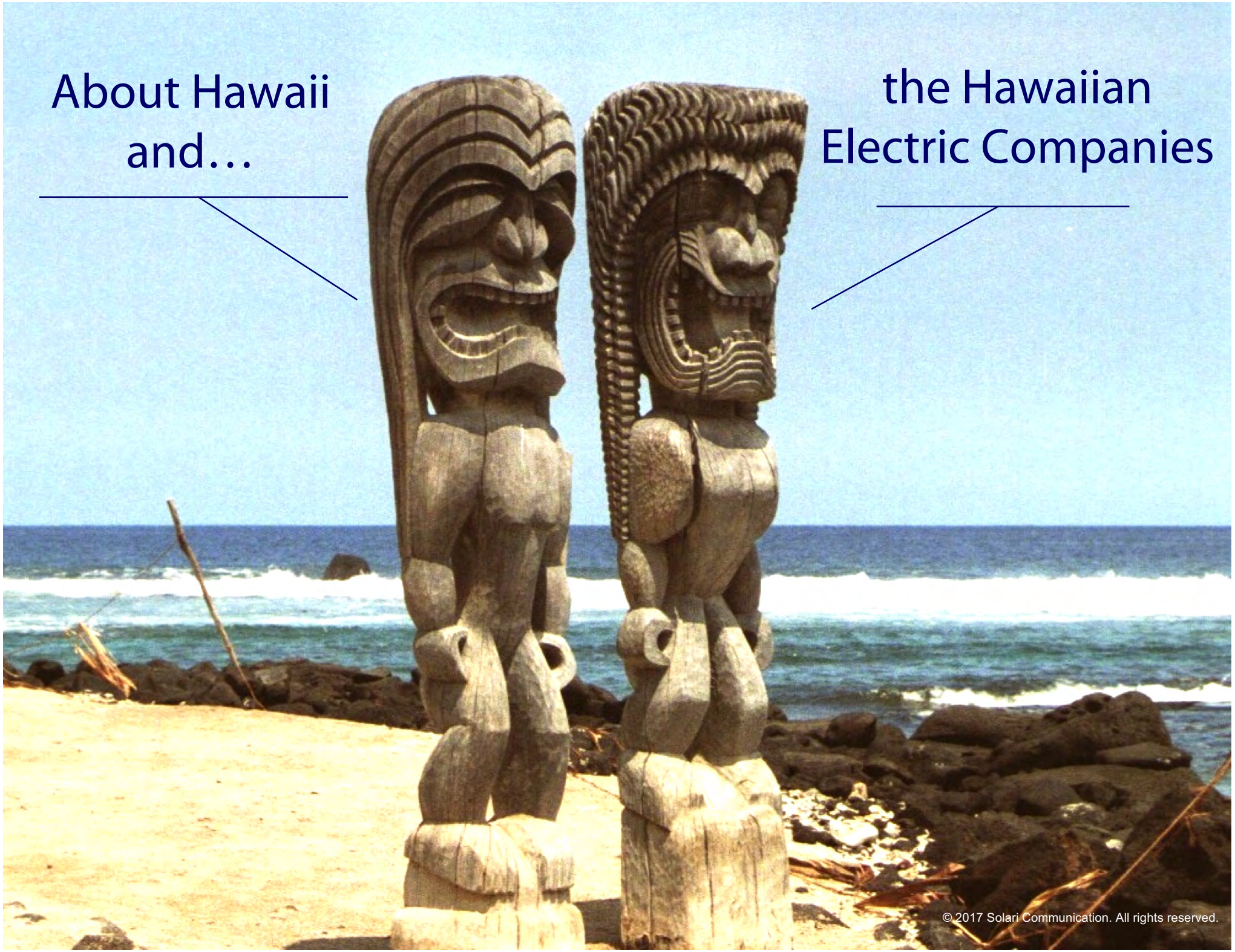


# The Trail Ahead

## Hawaiian Electric Case Study:

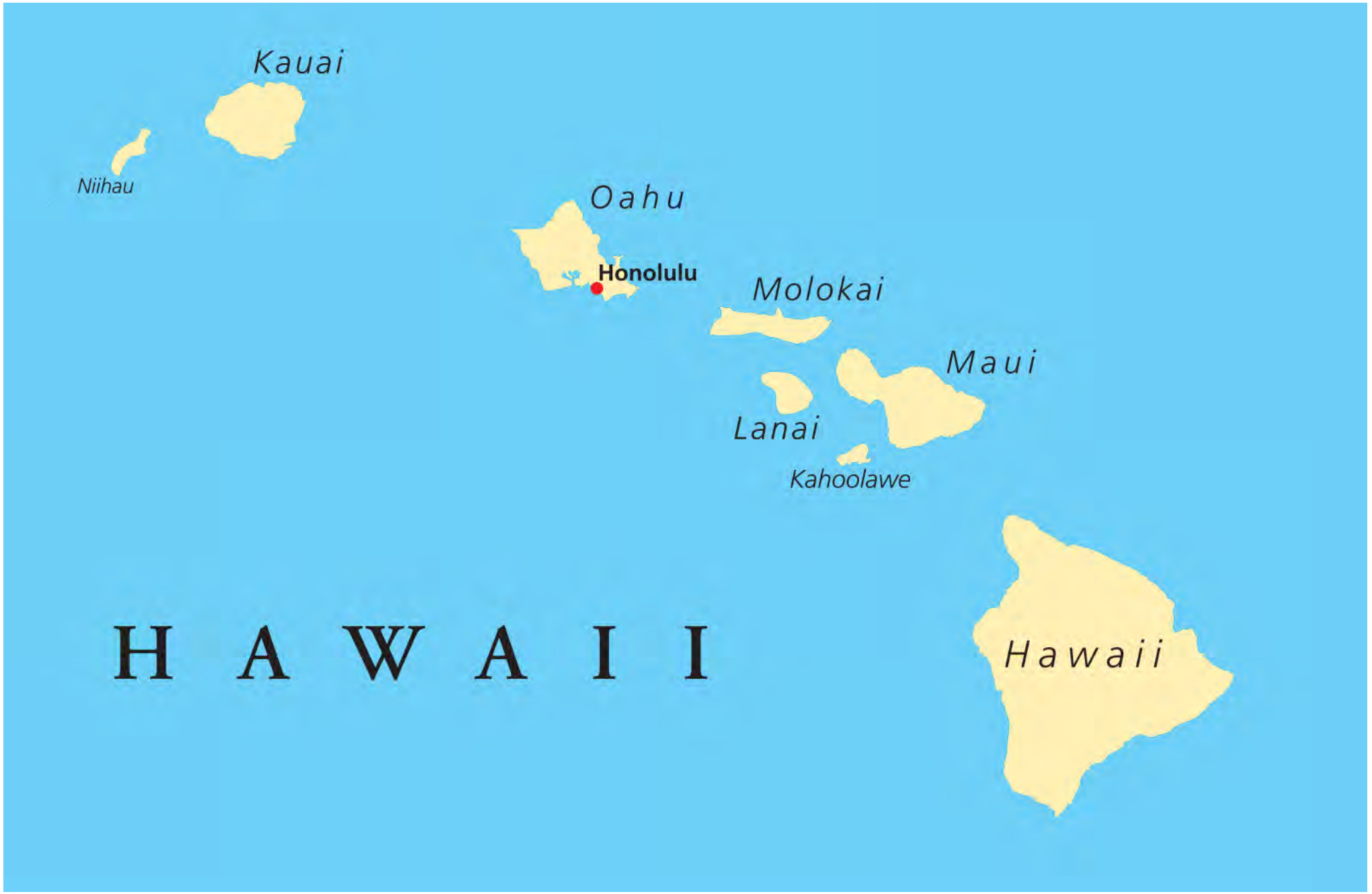
- About Hawaiian Electric

# About Hawaii and…




Let’s get started on that trail…

Hawaiian Electric
Maui Electric
Hawai‘i Electric Light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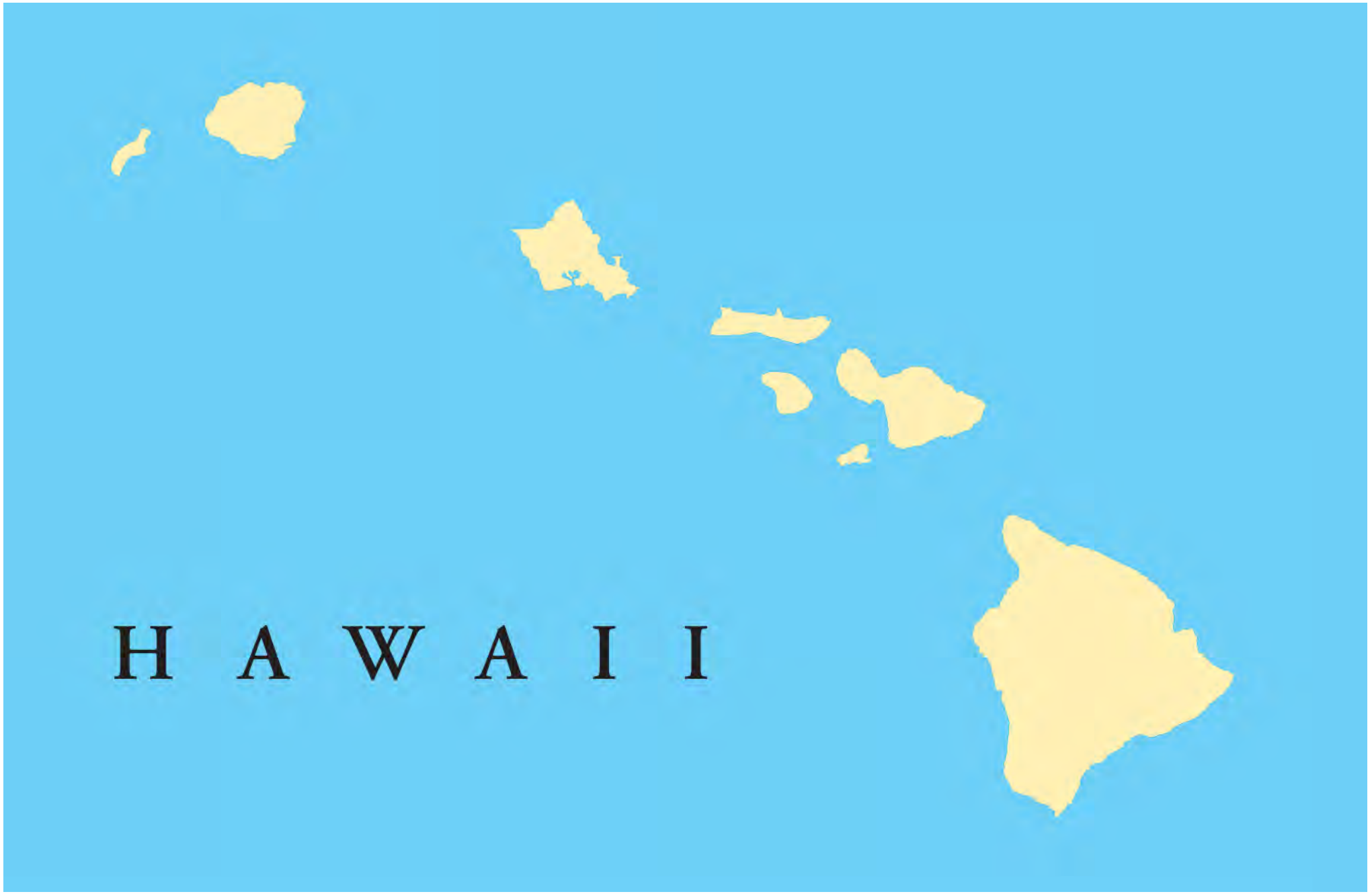
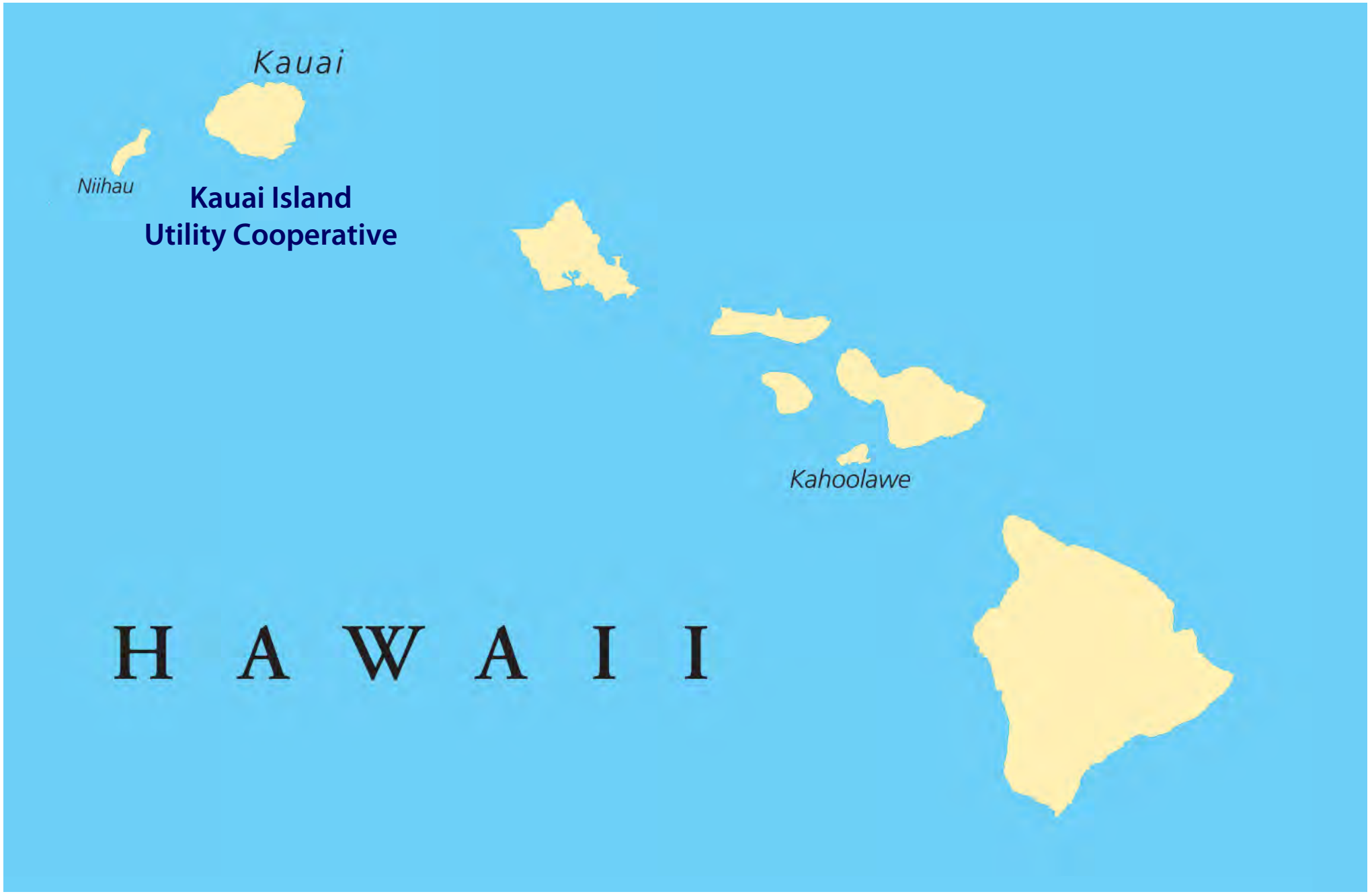
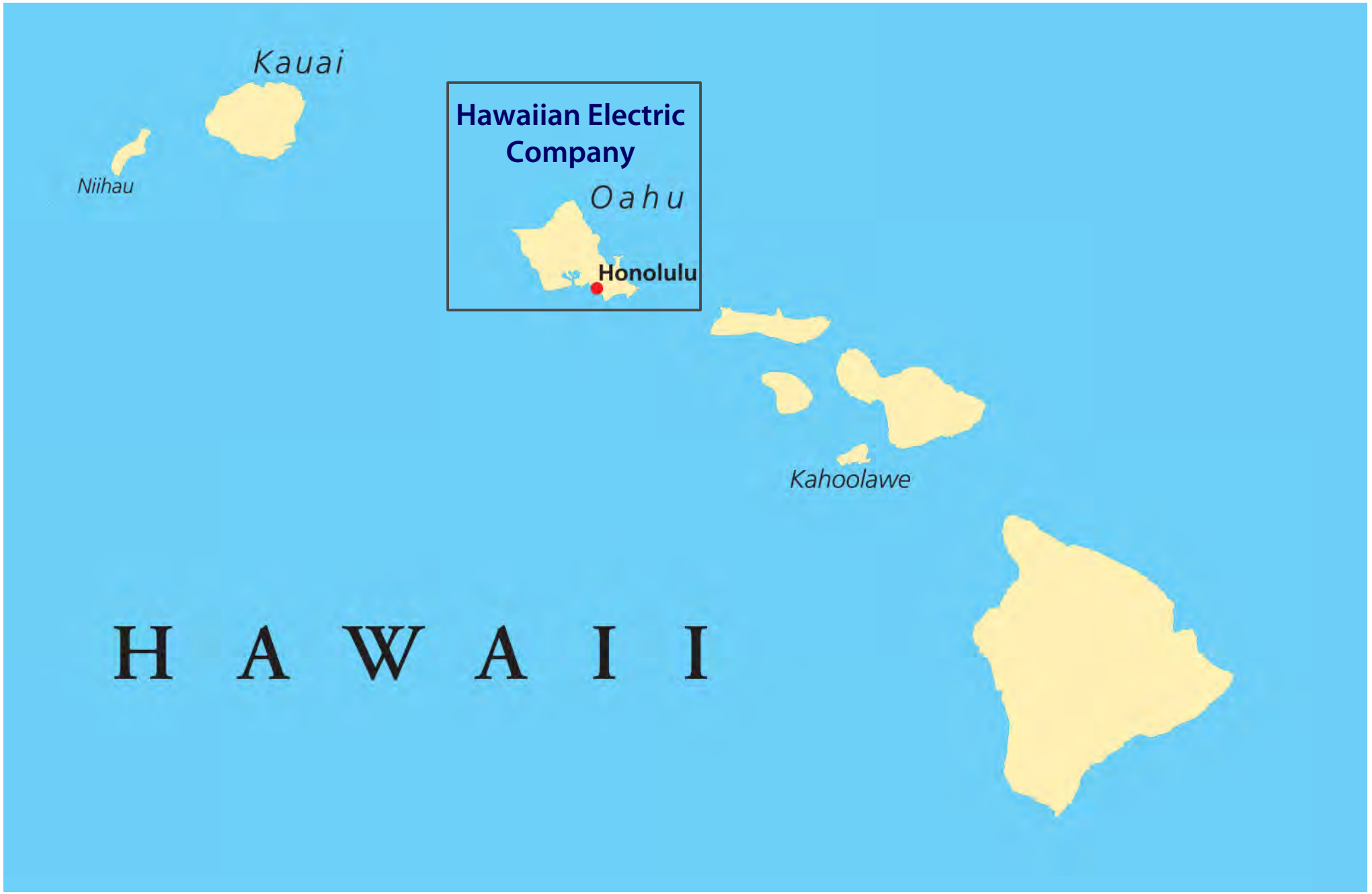
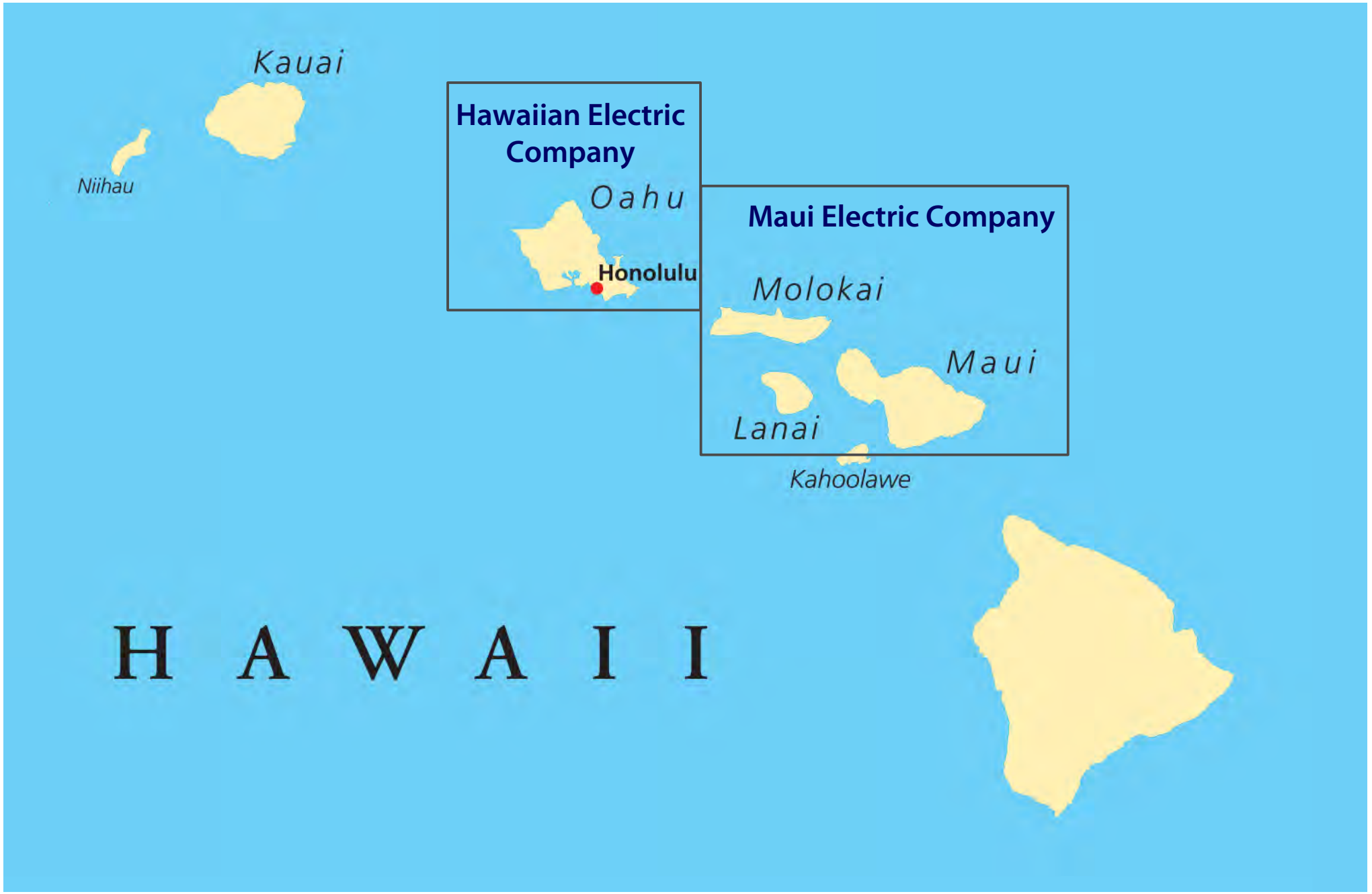
Niihau
Oahu
Honolulu
Molokai
Maui
Lanai
Kahoolawe
HAWAII
Hawaii

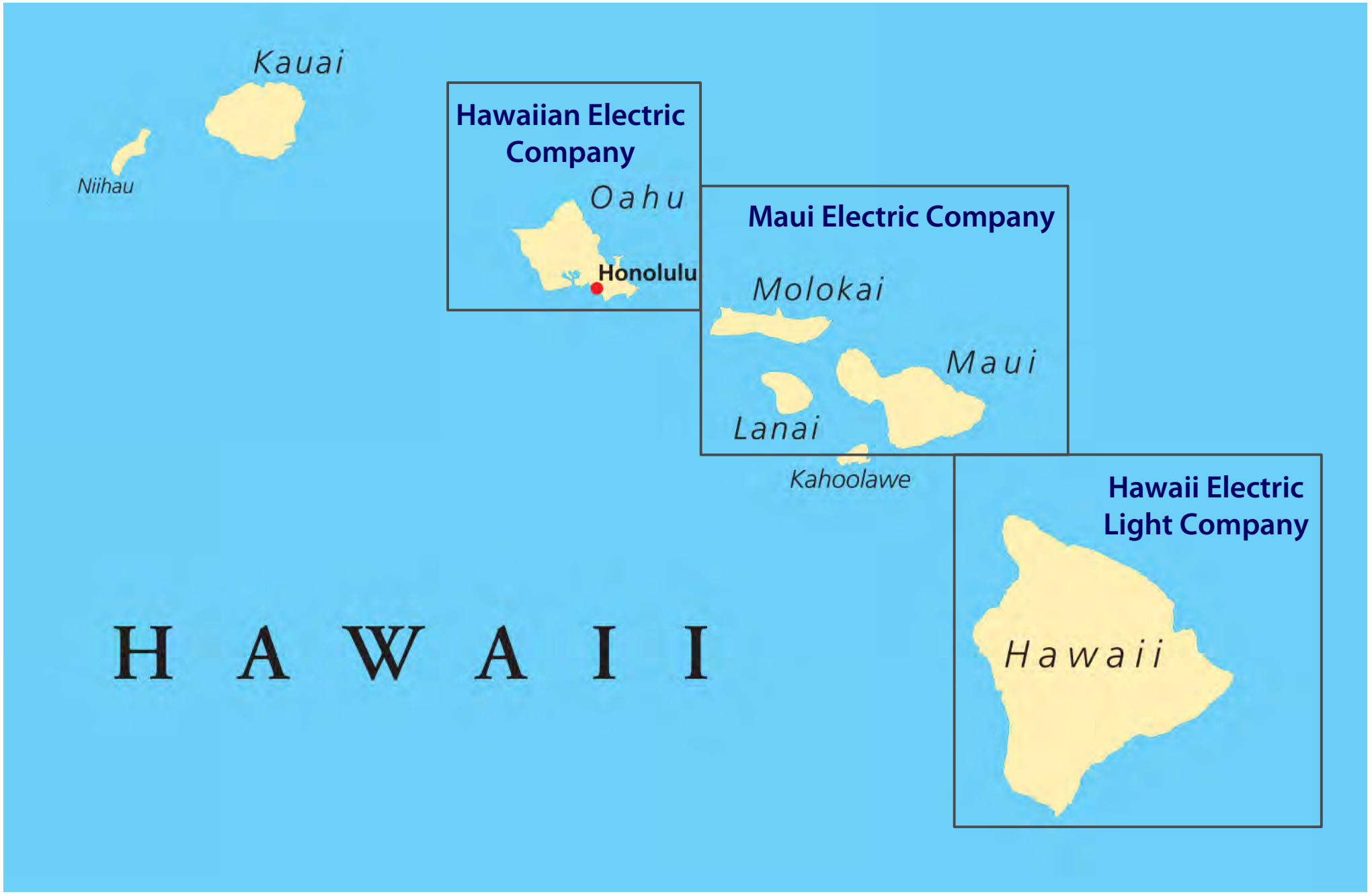

HAWAII

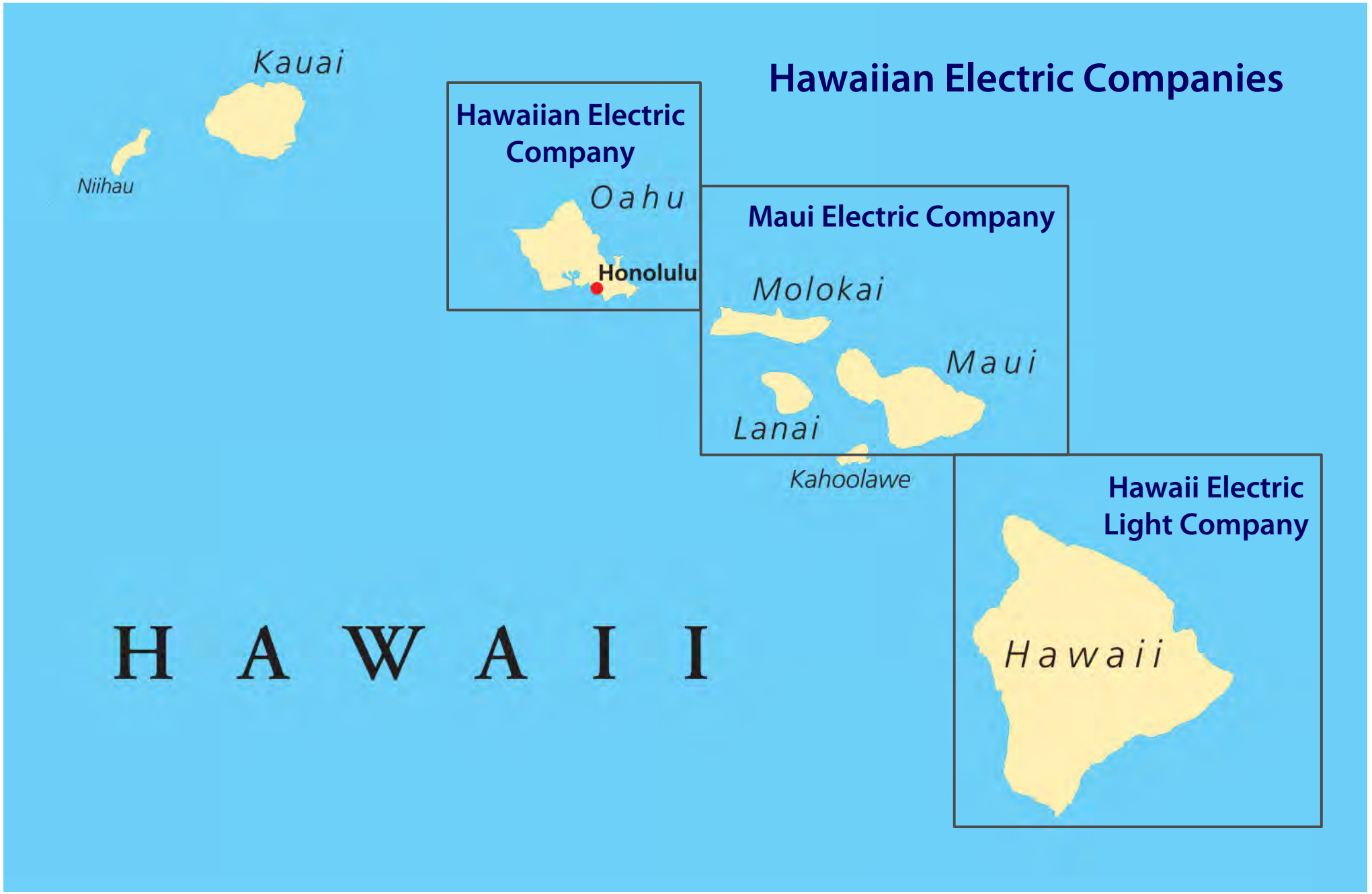

Niihau
Kahoolawe
HAWAII


Kauai
Niihau
Kauai Island
Utility Cooperative
Kahoolawe
HAWAII


Kauai
Niihau
Hawaiian Electric Company
Oahu
Honolulu
Kahoolawe
HAWAII


Kauai
Niihau
Hawaiian Electric Company
Oahu
Honolulu
Maui Electric Company
Molokai
Maui
Lanai
Kahoolawe
HAWAII


Kauai
Niihau
Hawaiian Electric Company
Oahu
Honolulu
Maui Electric Company
Molokai
Maui
Lanai
Kahoolawe
Hawaii Electric Light Company
Hawaii
HAWAII


Hawaiian Electric Companies
Kauai
Niihau
Hawaiian Electric Company
Oahu
Honolulu
Maui Electric Company
Molokai
Maui
Lanai
Kahoolawe
Hawaii Electric Light Company
Hawaii
HAWAII

# Five Independent Island Grids

# Five Independent Island Grids

| | Firm MW | + RE MW | Firm RE MW | DG-PV |
|---|---|---|---|---|
| Hawaiian Electric | 1,700 | 230 | 181 | 8.2% |
| | 50 | 28 + 8 | 8 | (2017) |

# Five Independent Island Grids

| | Firm MW | + RE MW | Firm RE MW | DG-PV |
|---|---|---|---|---|
| Hawaiian Electric | 1,700 | 230 | 181 | 8.2% |
| | 50 | 28 + 8 | 8 | (2017) |
| Hawai'i Electric Light | 242 | 165 | 38 | 10.8% |

# Five Independent Island Grids

| | Firm MW | + RE MW | Firm RE MW | DG-PV |
|---|---|---|---|---|
| Hawaiian Electric | 1,700 | 230 | 181 | 8.2% |
| | 50 | 28 + 8 | 8 | (2017) |
| Hawai'i Electric Light | 242 | 165 | 38 | 10.8% |
| Maui Electric | 278 | 116 | 0 | 10.7% |
| | Lanai = 11 MW | | Molokai = 15 MW | |

# Renewable Portfolio Standard

| Milestone | 2009 RPS | 2015 RPS |
|---|---|---|
| 2010 | 10% | – |
| 2015 | 15% | 15% |
| 2020 | – | 30% |
| 2025 | 25% | – |
| 2030 | 40% | 40% |
| 2040 | – | 70% |
| 2045 | – | 100% |

# Renewable Portfolio Standard

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|---|---|---|
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| 2015 | 15% | 15% |
| 2020 | – | 30% |
| 2025 | 25% | – |
| 2030 | 40% | 40% |
| 2040 | – | 70% |
| 2045 | – | 100% |

| Year End | Attained RPS |
|---|---|
| 2010 | 9.5% |
| 2011 | 12.0% |
| 2012 | 13.9% |
| 2013 | 18.2% |
| 2014 | 21.3% |
| 2015 | 23.2% |
| 2016 | 25.8% |

# Renewable Portfolio Standard

| Milestone | 2009 RPS | 2015 RPS |
|---|---|---|
| 2010 | 10% | – |
| 2015 | 15% | 15% |
| 2020 | – | 30% |
| 2025 | 25% | – |
| 2030 | 40% | 40% |
| 2040 | – | 70% |
| 2045 | – | 100% |

| Year End | Attained RPS |
|---|---|
| 2010 | 9.5% |
| 2011 | 12.0% |
| 2012 | 13.9% |
| 2013 | 18.2% |
| 2014 | 21.3% |
| 2015 | 23.2% |
| 2016 | 25.8% |

***"Hawaii is the Silicon Valley of clean energy. Hawaiian Electric has played a key role in building this reputation and encouraging innovation."***

*Brian Ryan, Vector Limited*

*New Zealand Energy Excelerator Global Partner*

# Got it!

# The Trail Ahead

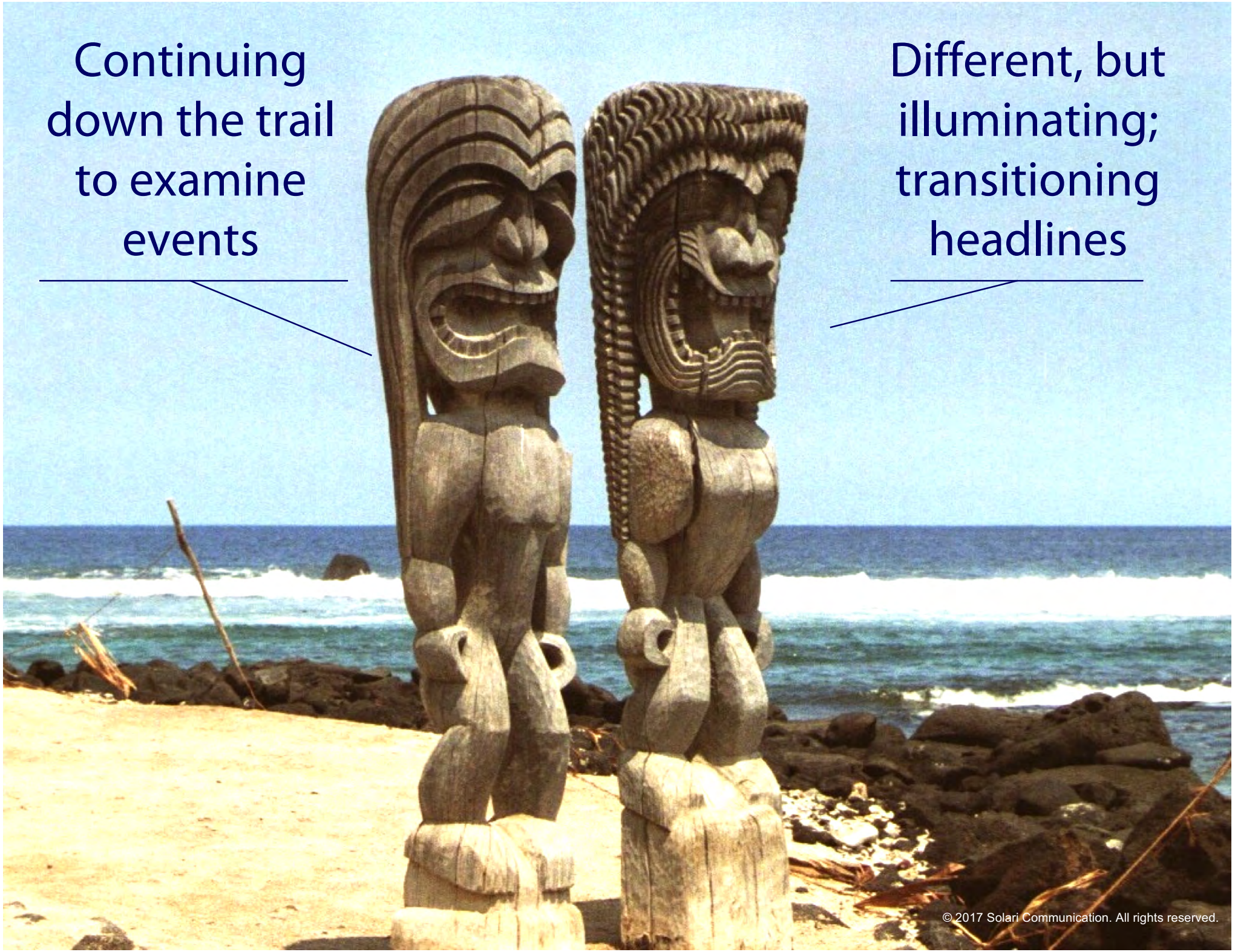
## Hawaiian Electric Case Study:

- About Hawaiian Electric
- Tale of Four Resource Plans

Continuing down the trail to examine events

Continuing down the trail to examine events

Different, but illuminating; transitioning headlines



# External Factors

- Entire PUC changed
- New Governor (2014) loudly opposes “merger” and LNG
- New PUC tries to control IRP content and results

# IRP: 2013

**2011**

**Mar** — Order announcing IRP 2013; with an updated IRP Framework

**2012**

**Mar** — Order starting IRP 2013

**Jun to…** — IRP based on scenario planning; deadline = 365 days:

- Independent Entity & 68-person Advisory Board
- 17 Principal Issues
- Statute: 25% RPS by 2020; 40% RPS by 2030
- Twelve monthly AG meetings
- Seven additional unplanned technical sessions

**2013**

**Jun** — IRP 2013 filed: exceeds RPS, modernizes the grid, adds LNG

**Jul** — IE “cannot certify” IRP 2013

**2014**

**Apr** — IRP 2013 rejected (four months late); writes “Inclinations”

## IRP: 2013

Comprehensive 42-page Executive Summary that followed past formats and outline

IRP casts a wide net: 752-page report (2,212 total)

Detailed every modeled resource plan (about 250)

Comprehensive discussion of results

Separate action plan for each utility

## IRP: 2013 Assessment

- IE wouldn't certify; AG not fully considered; Framework not diligently followed; most Principal Issues not fully addressed
- Executive Summary too long; no clear headline
- No intermediate summaries
- Extremely technical
- Commission sought something different

[Executives wrote the Executive Summary following previous outlines; I wrote most everything else; more later]

# PSIPs: 2014

| | |
|---|---|
| **2013** | |
| **Dec** | HELCO PSIP ordered: 24 items in 4 Component Plans |
| **2014** | |
| **Apr 21** | HELCO files PSP; never ruled on (both before IRP ruling) |
| **Apr 28** | HECO & MECO PSIPs ordered (37/7 & 21/4 Component Plans)<br>• Hawaiian Electric ordered to file four additional plans<br>• All plans: 120-day deadline |
| **Aug** | Three 2014 PSIPs filed; all exceed RPS mandates<br>• Transition to LNG; modernize the grid<br>• Reduce customer bills; respond to all Component Plans |
| **2015** | |
| **Jan** | NextEra files “merger” application |
| **Mar** | Order issued to address “merger” application |
| **Sep** | Over 27,000 pages of IR responses since Order issued |
| **Nov** | 2014 PSIPs mostly rejected; update ordered |

## PSIPs: 2014

Brief 9-page Executive Summary with a headline:
opening paragraph states the PSIP goal and high-level results

PSIPs pared down: 172-page report (412–711 total)

Little detail about modeling process

Focused discussion on results

Separate PSIP for each utility

## PSIPs: 2014 Assessment

- Insufficient analysis—no surprise there
- Process not ″transparent″
- Component Plans not fully addressed
- Financials considered deceptive (real dollars)
- Executive Summary on target; main headline clear
- Narrative becoming simpler
- Conclusions & Recommendations to the point

[I wrote the Executive Summary and most everything else that wasn't submitted last minute]


PSIP:
Apr 2016

**2015**

**Nov 4**

Updated April 2015 PSIPs ordered:

- Initial Statement of Issues & 8 Observations & Concerns
- Revision Plan, Interim PSIP, & Updated PSIP
- 22 intervenors rejected; admitted as participant “Parties”

**Nov 25**

Revision Plan filed; conference schedule outlined

**Dec**

“Merger” hearings begin

**2016**

**Feb**

Interim PSIP filed; new modeling of DER, DR, u-s RE unveiled

**Mar**

“Merger” hearings end; 7,200 transcript pages

**Apr 1**

Updated PSIP filed, work still to be done:

- Exceeds RPS mandates; addresses 7 of 8 O&Cs
- LNG as a transition fuel; 383 MW 3x1 CC
- Comprehensive grid transformation
- Oahu-based utility-scale wind and solar potential
- Results based on “merger” approval

## PSIP: April 2016

Executive Summary (18 pages) focuses on the inclusive nature of attaining 100% renewable generation within 30 years in support of pending “merger”

PSIPs expanded: 284-page report (1,218 total)

Detail discussion about new modeling process

Comprehensive action plans for each utility

It’s a plan;
subject to change as circumstances and assumptions change

## PSIP: April 2016 Assessment

- Never ruled on because PSIP was incomplete, still…
- Too depended on “merger” approval
- LNG as transitional fuel a political issue
- 383 MW 3x1 CC a questionable direction
- Executive Summary a narrative supporting ”merger”
- Main headline is clear, although soft
- Overall narrative simpler

[Executive & myself co-wrote the Executive Summary; again, I wrote most everything else that wasn’t submitted last minute]


PSIP: Dec 2016

| | |
|---|---|
| **2016** | |
| **Apr** | HNEI: Alt Ownership for Electric Utility on Oahu & Hawaii Island |
| **May –Oct** | Several Party conferences & meetings held |
| **Jul** | "Merger" dismissed without prejudice |
| **Aug 16** | Order clarifies Updated PSIP; adds Work Plan & Dec 1 deadline<br>• Six additional issues; Party IRs; Party & HECO SOPs |
| **Aug 26** | Hawaiian Electric Motion for Clarification: never ruled on |
| **Sep** | Work Plan filed; updates assumptions and modeling process |
| **Oct– Nov** | Order: new deadline Dec 23, no utility SOP required |
| **Dec** | Updated Dec PSIP filed:<br>• 52% RPS by 2022; Molokai 100% RE by 2020<br>• No LNG; maximizes DER; modernized the grid |
| **2017** | |
| **Feb** | Party and HECO SOPs filed. And the waiting begins… |

## PSIP: December 2016

Executive Summary follows the pyramid structure

PSIP focused: 186-page report (1,962 total)

Attains 100% RPS in 2040, 5 years ahead of schedule

Detail discussion about a revised modeling process;
uses three tools for duplicative analysis;
all modeled resource plans detailed

One comprehensive action plan under One Company initiative

## PSIP: December 2016 Assessment

- Executive Summary strongest yet
- Overall narrative much simpler
- Main headlines prominent
- Many chapter and appendix summaries
- Strong plan; realities exposed
- Awaiting decision…

[I wrote the Executive Summary, and most everything else that wasn't submitted last minute; more later]

***"I don't view the utility as some kind of enemy to be castigated. We are all in one boat in Hawaii. We will sink or swim together. It doesn't help to demonize the utility. Some of our actions seem harsh, but we are following the rules and doing our job."***

*Randy Iwase, Chair*

*Hawaii Public Utilities Commission*

# Got it!

# The Trail Ahead

## Hawaiian Electric Case Study:

- About Hawaiian Electric
- Tale of Four Resource Plans
- Communicating Your Headline

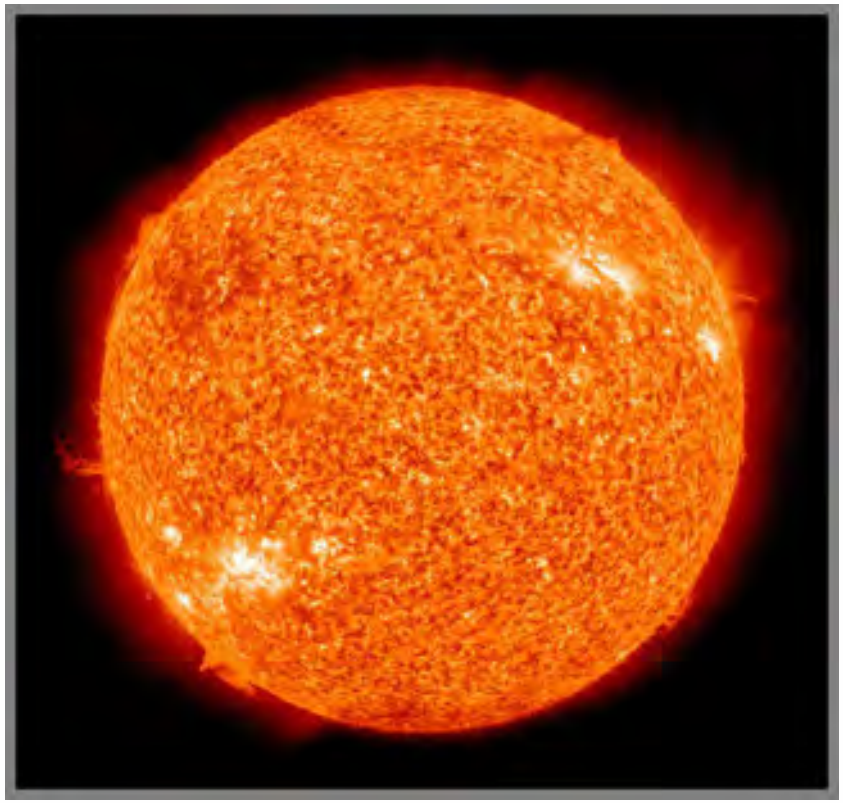
# Headlines and narratives…


First:
Understand Your Audience

# What is this?

# And this?

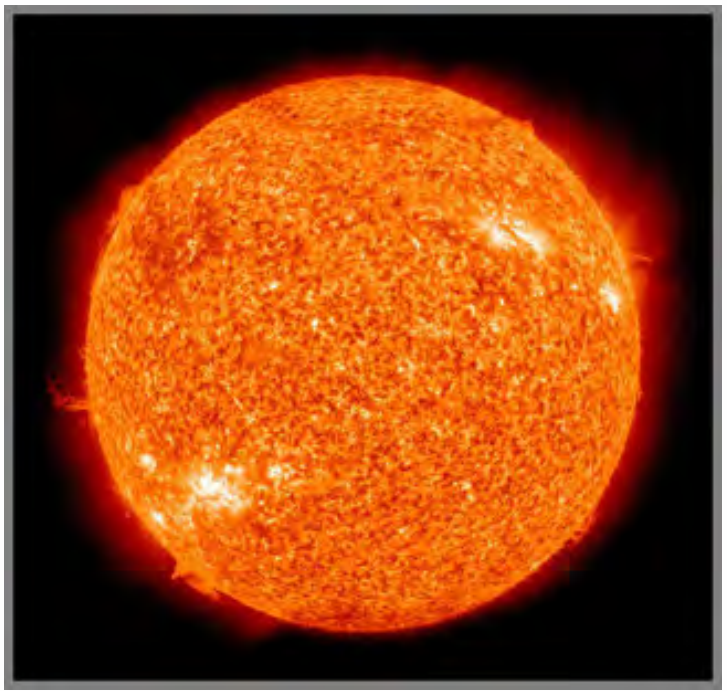
# And this?



# And this too?

But are they really?

# Actually, they are simply symbols



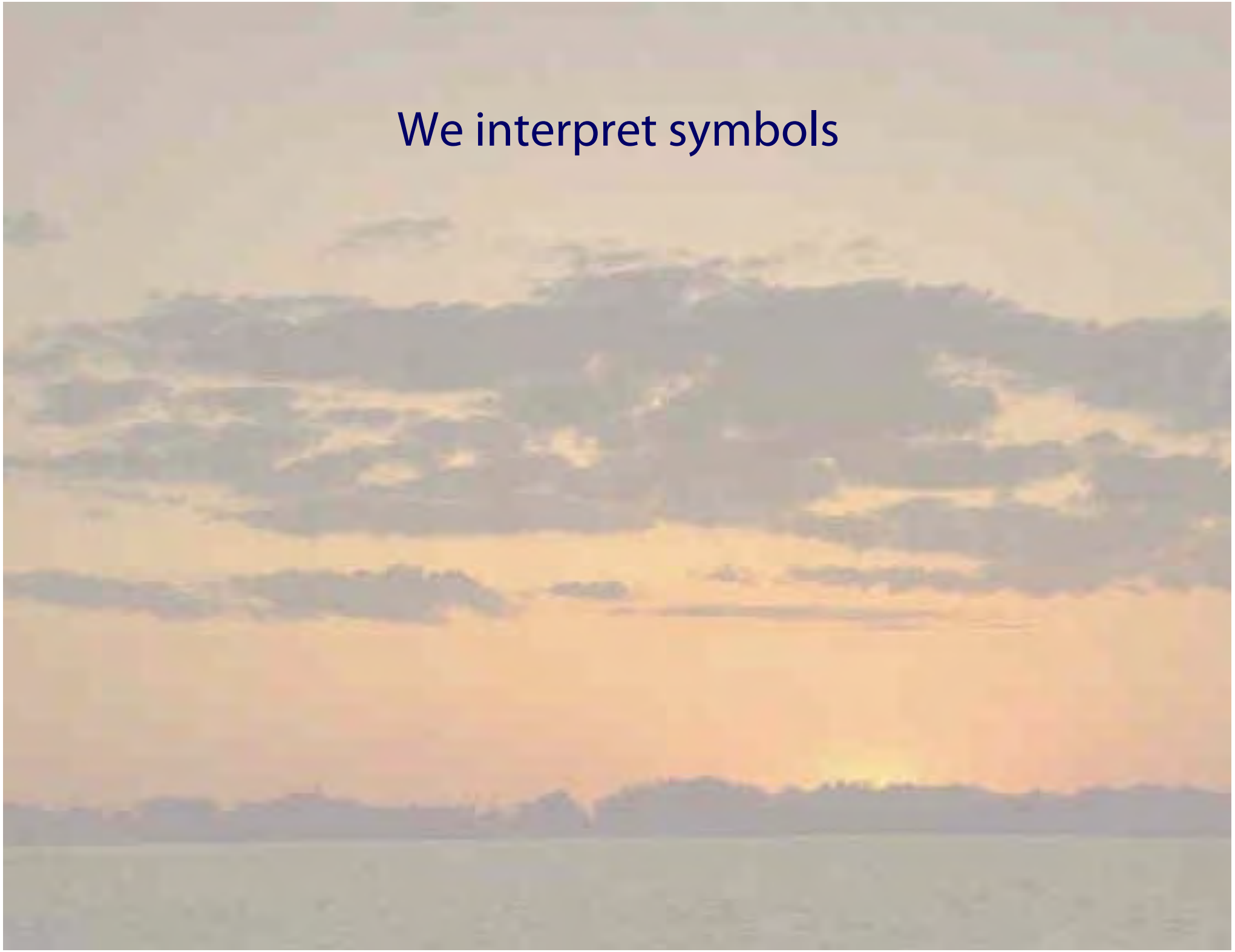
# And so are these

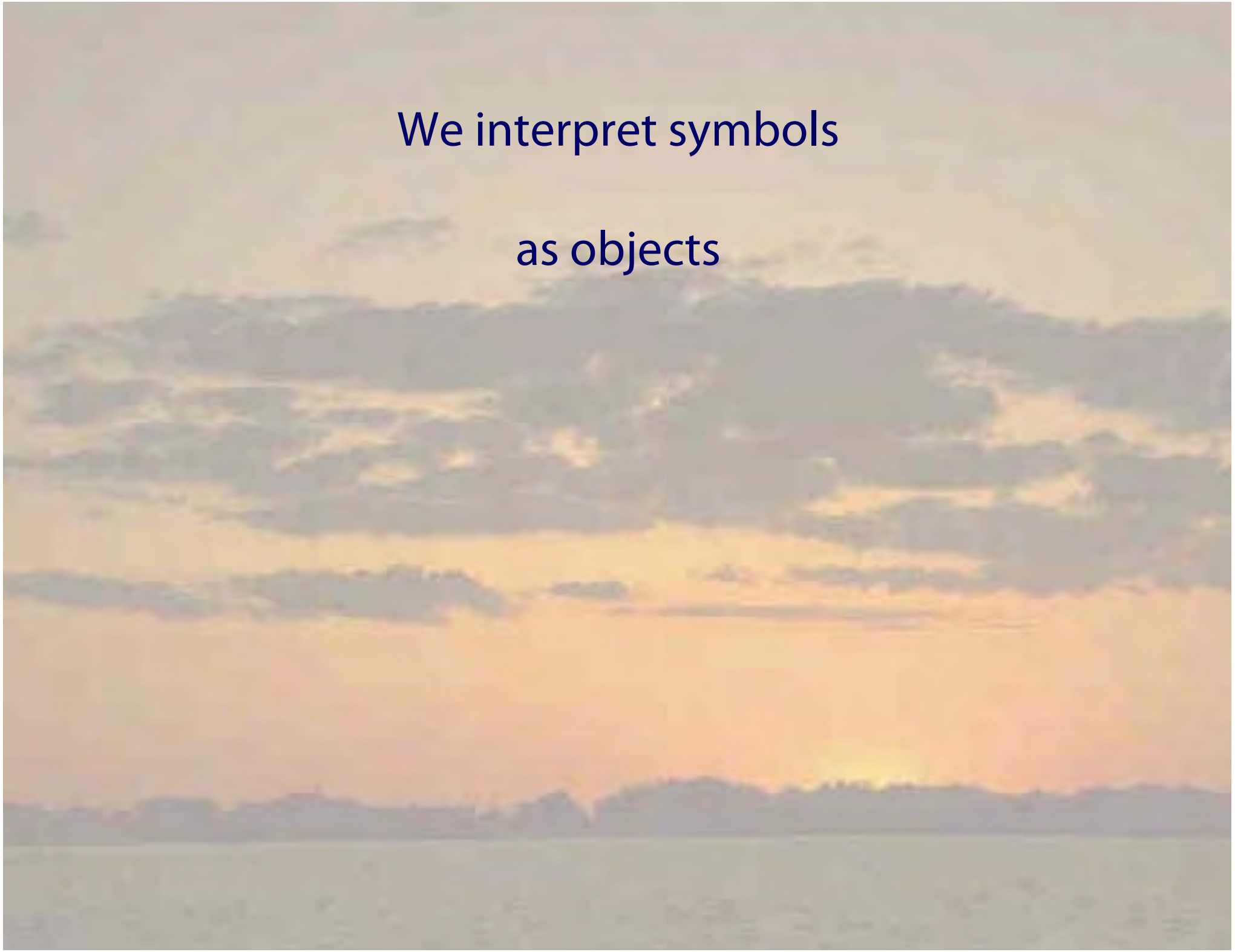
# And so are these

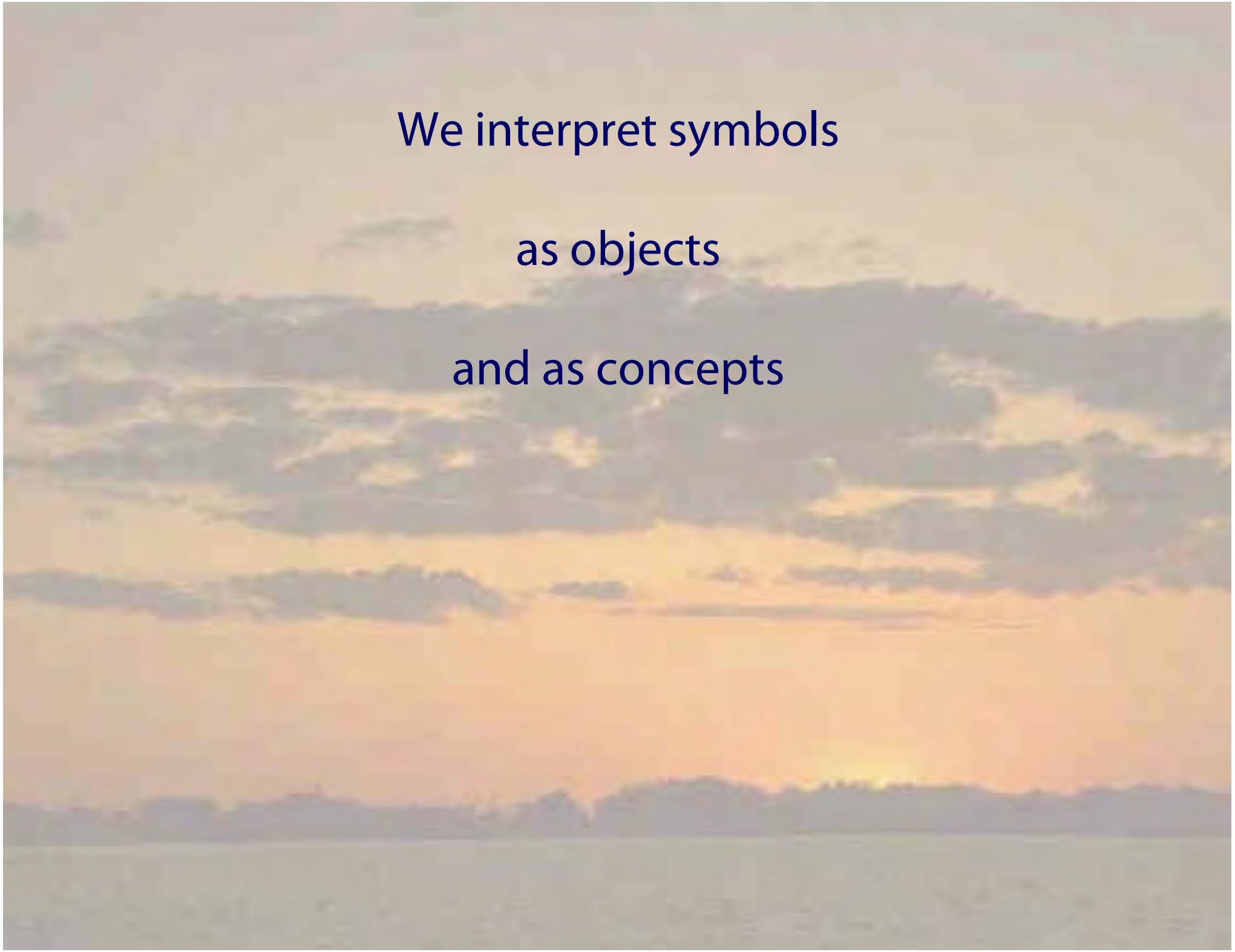
# And so are these

# And so are these

# And so are these


We interpret symbols


We interpret symbols
as objects


We interpret symbols
as objects
and as concepts

# What are these?

# What are these?

# What are these?

# What are these?

# What are these?


Actually, they are symbols too

# Once more, what are these?

Once more, what are these?

Once more, what are these?

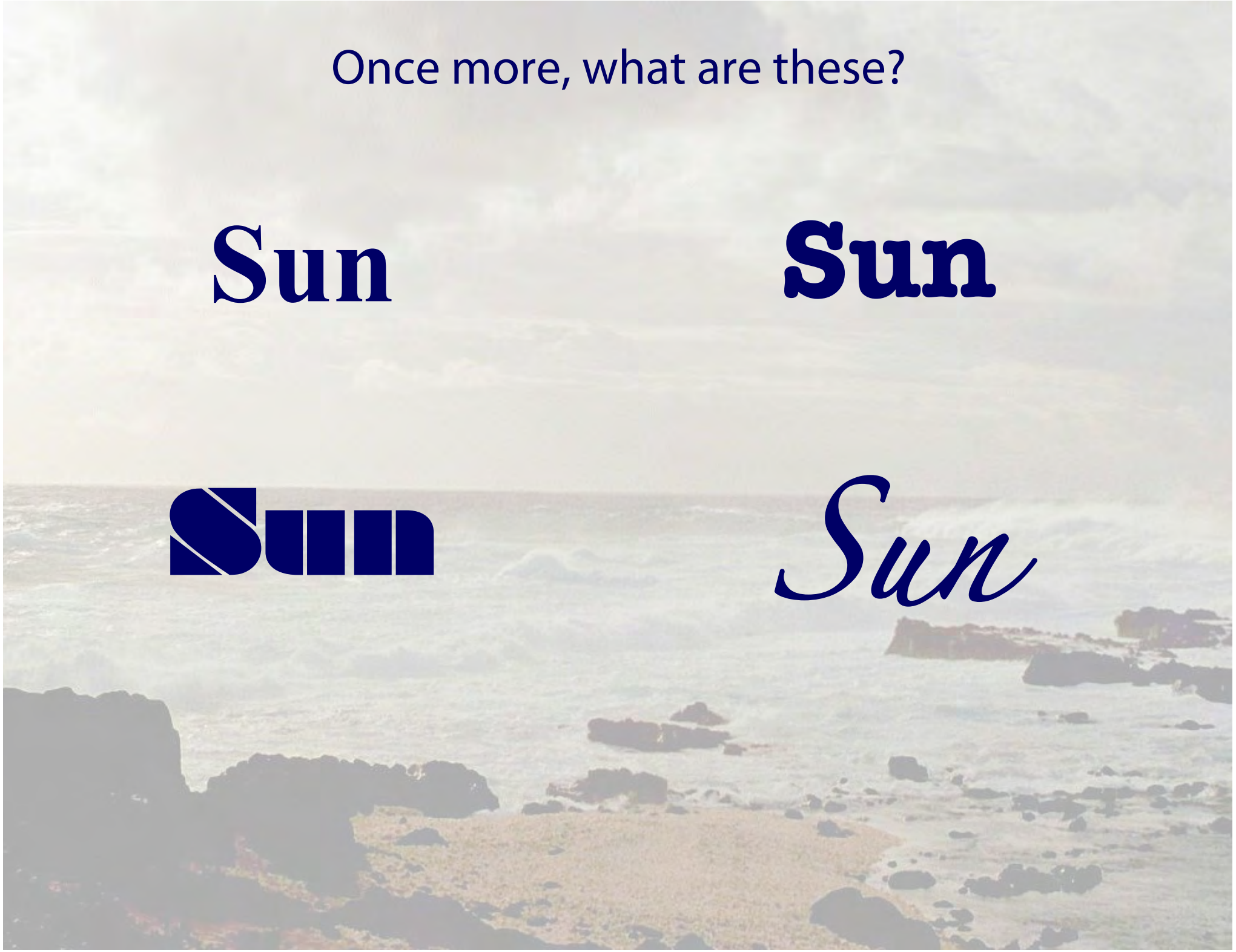
**Sun** **Sun**

Once more, what are these?

Sun

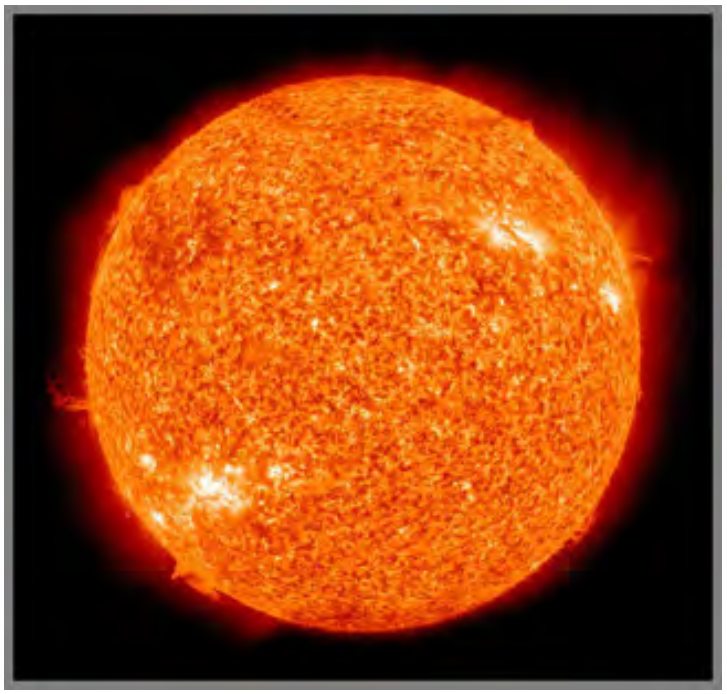
**Sun**

Once more, what are these?




That’s right, they are symbols too

# Just like these



# Okay, one last time: what are these?

Okay, one last time: what are these?

太阳


Okay, one last time: what are these?
太阳
태양

Okay, one last time: what are these?

太阳

태양

شمس

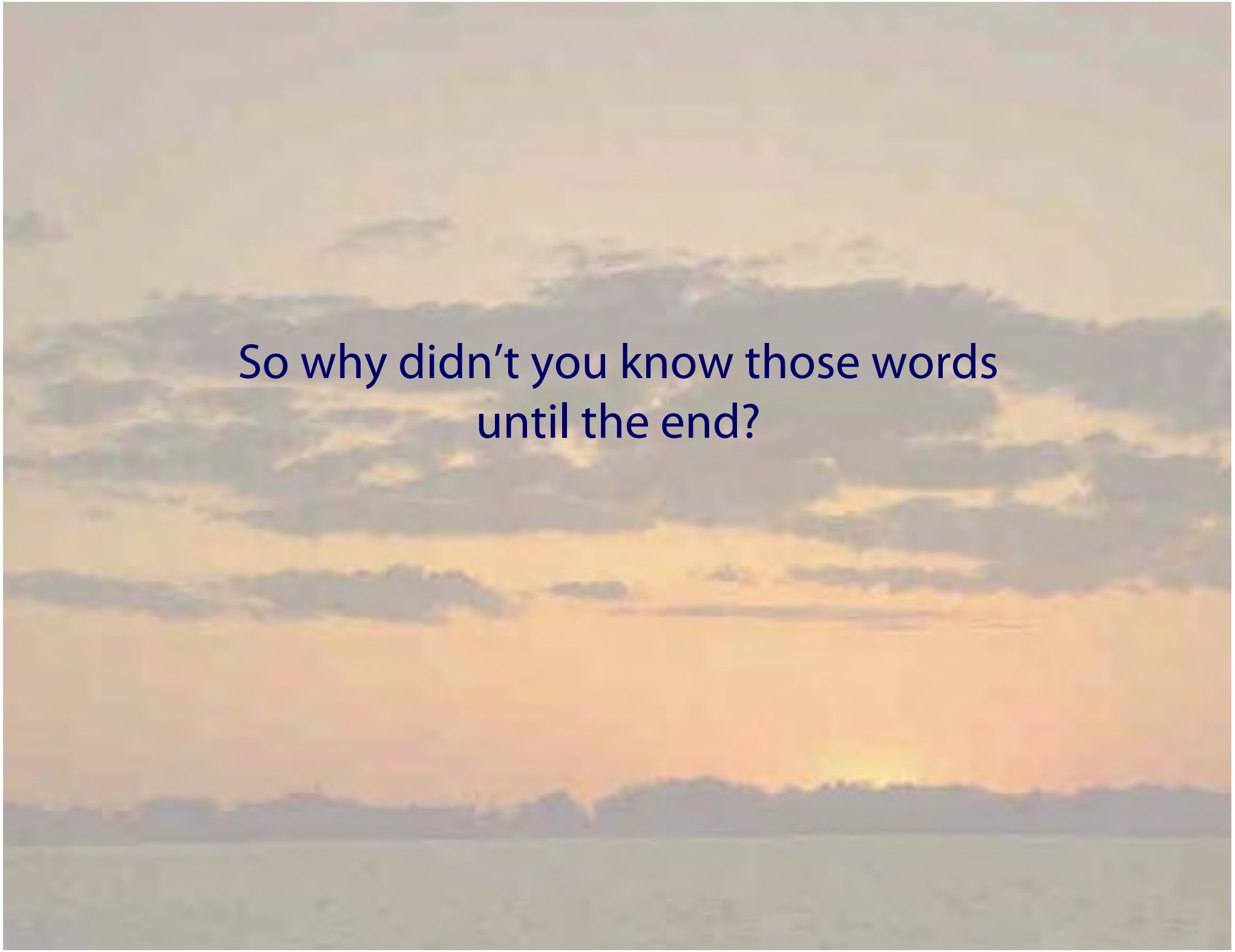
Okay, one last time: what are these?

太阳

태양

شمس

sol


So why didn’t you know those words
until the end?

Your not understanding *those* words

is the same as your audience

not understanding *your* words.


ramp


ramp
baseload


ramp
cycling
baseload


peak
ramp
cycling
baseload


peak
ramp
cycling
baseload
capacity


peak
ramp
contingency
cycling
baseload
capacity


peak
ramp
contingency
cycling
baseload
capacity
frequency

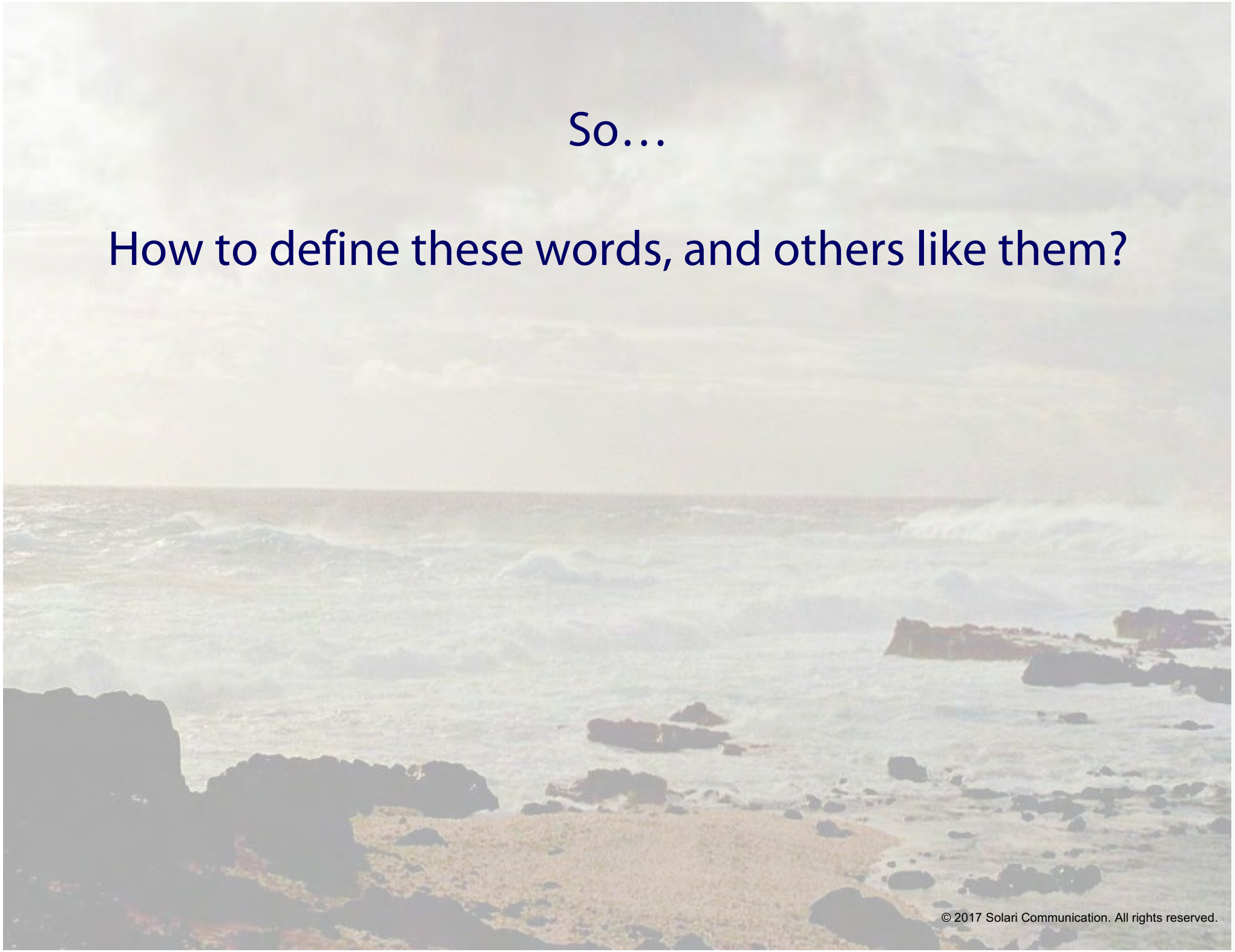

peak
load
ramp
contingency
cycling
baseload
capacity
frequency


peak
load
ramp
contingency
cycling
baseload
capacity
inertia
frequency

# What is cycling?


ANIMATOR

# What is peak?



So…

How to define these words, and others like them?

There are a number of solutions,
each depends on your
writing style guide

# First, don’t use different words

Ramp ≠ Increase

Contingency ≠ incident

# Footnote

# Footnote

# Glossary

Footnote

Glossary

Narrative definition

Footnote

Glossary

Narrative definition

Narrative explanation

# Narrative definition:

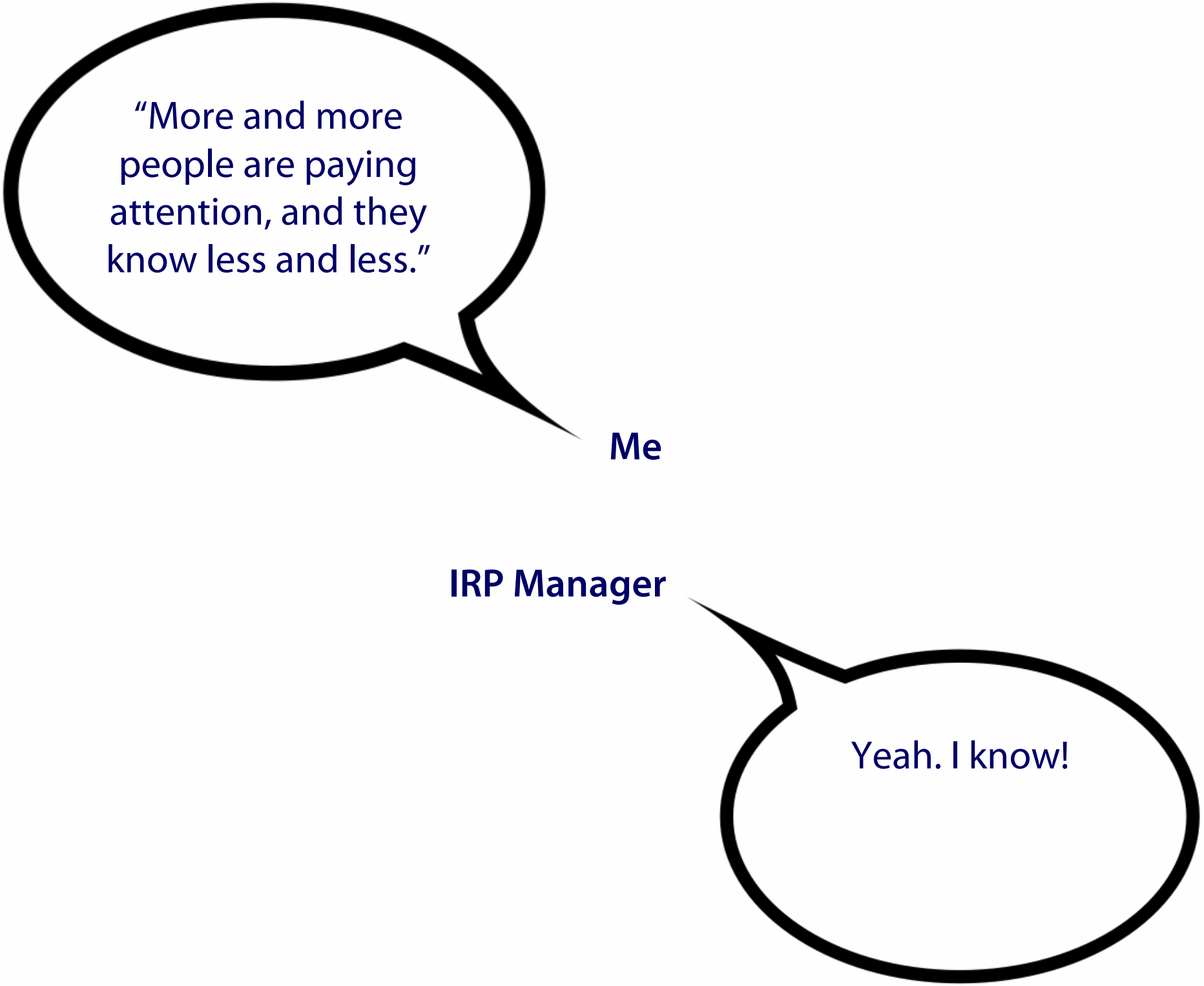
Ramp is the rate that a generator increases or decreases its power output, generally specified in MW per minute.

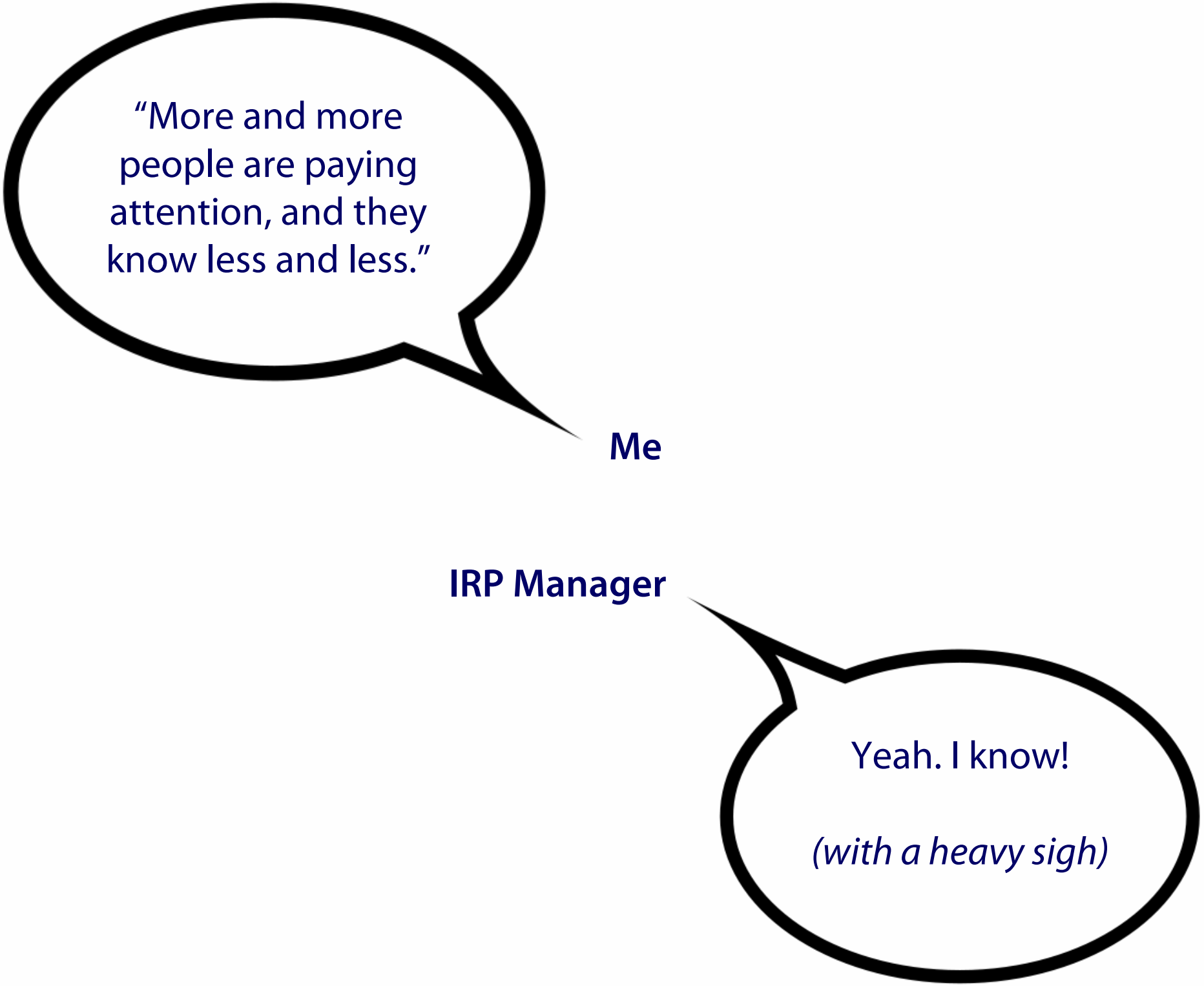
## Narrative explanation:

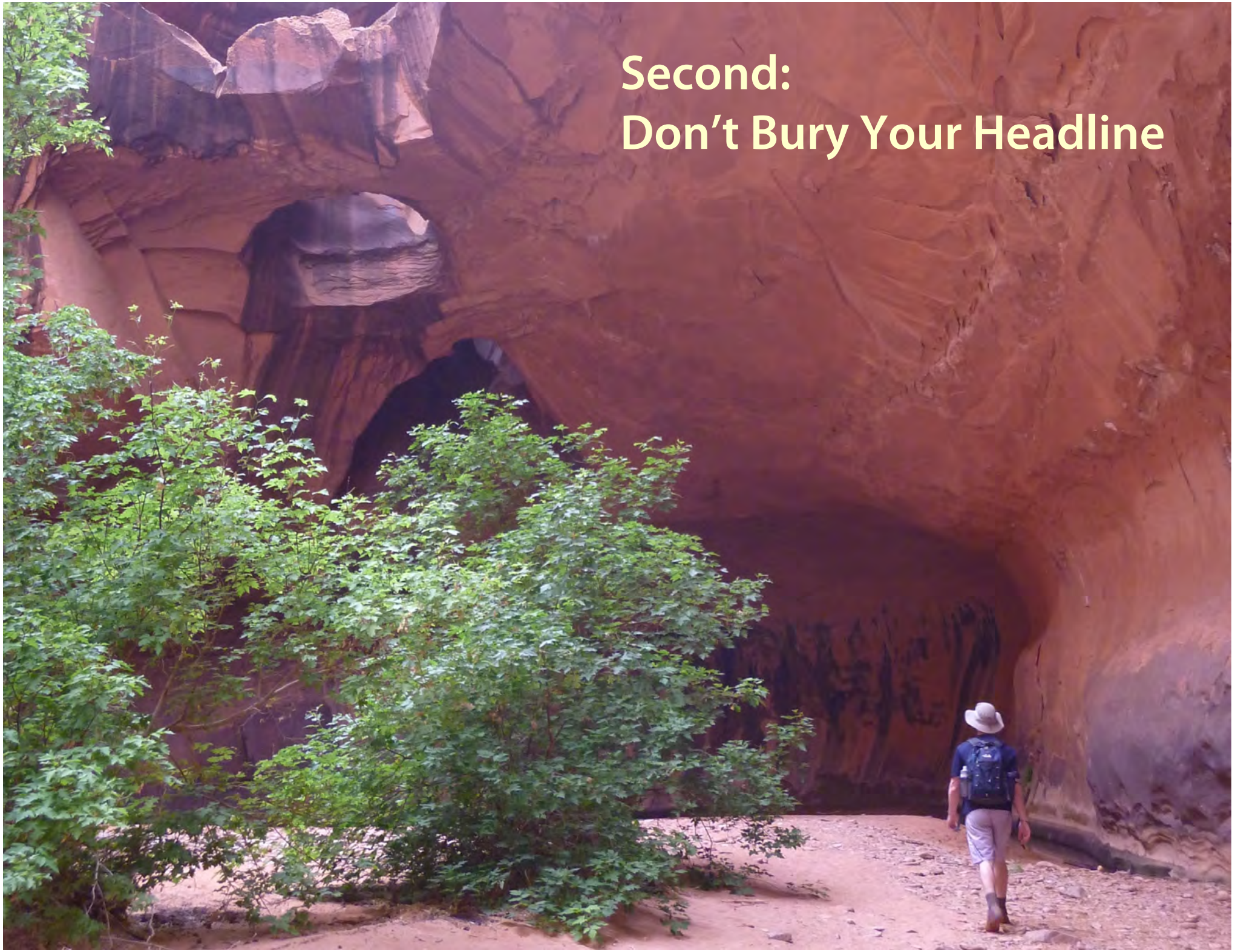
The fast-start generator ramped up to its full power output of 60 MW in only 4 minutes, achieving a ramp rate of 15 MW per minute.


“More and more people are paying attention, and they know less and less.”

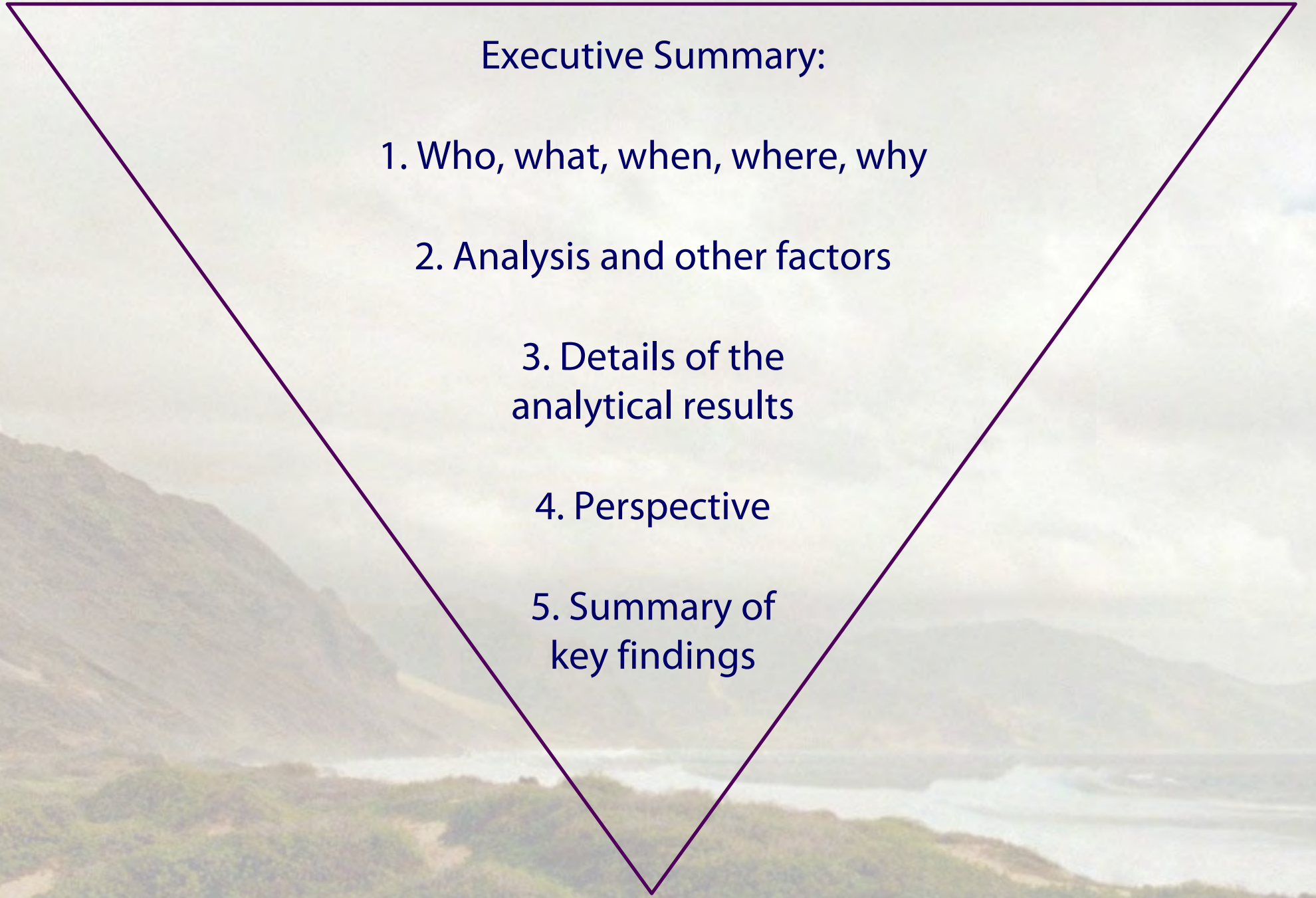
**Me**


"More and more people are paying attention, and they know less and less."
Me
IRP Manager
Yeah. I know!


"More and more people are paying attention, and they know less and less."
Me
IRP Manager
Yeah. I know!
(with a heavy sigh)


Second:
Don't Bury Your Headline

# Typical Information Flow: Burying the Headline



# Example: Burying the Headline

## *IRP 2013 Executive Summary*

- Starts with the known and irrelevant
- First headline: page 7; IRP results: page 17
- Reader: “Where’s the important information?”
- No overarching statement

# Example: Burying the Headline

## *IRP 2013 Executive Summary*

- Starts with the known and irrelevant
- First headline: page 7; IRP results: page 17
- Reader: "Where's the important information?"
- No overarching statement

[btw, I didn't write this]

# 1. Who, what, when, where, why

Hawaiian Electric Company, Hawaii Electric Light Company, and Maui Electric Company [collectively referred to as the "Companies"] have developed the 2013 Integrated Resource Planning (IRP) Action Plan and report in cooperation with the Independent Entity (IE) and the Advisory Group (AG) established for this purpose by the Hawaii Public Utilities Commission (Commission) in accordance with the IRP Framework.[1] (page 1)

Problem: Irrelevant; already known

# 2. Analysis and other factors

The general goal of IRP is to develop an Action Plan that guides how the Companies will meet energy objectives and customer energy needs consistent with State of Hawaii energy policies and goals. The 2013 IRP Objectives were developed with the AG, and are presented below (followed by a bulleted list). (page 1)

Problem: Already known

# 3. Details of the analytical results

Historically, a traditional IRP would assess the new generation resource needs for a nominal 20-year planning period in a fully-regulated market with increasing demand for generation capacity. This is not the case in Hawaii today. Due to high fuel costs, effective energy efficiency programs, customer self-generation of electricity and economic conditions, utility sales and peak loads have declined for several years and are expected to be relatively flat (Stuck in the Middle IRP Scenario) or continue to decline (Blazing a Bold Frontier IRP Scenario) in the future. (page 1)

Problem: While important, it lacks context

# 4. Perspective

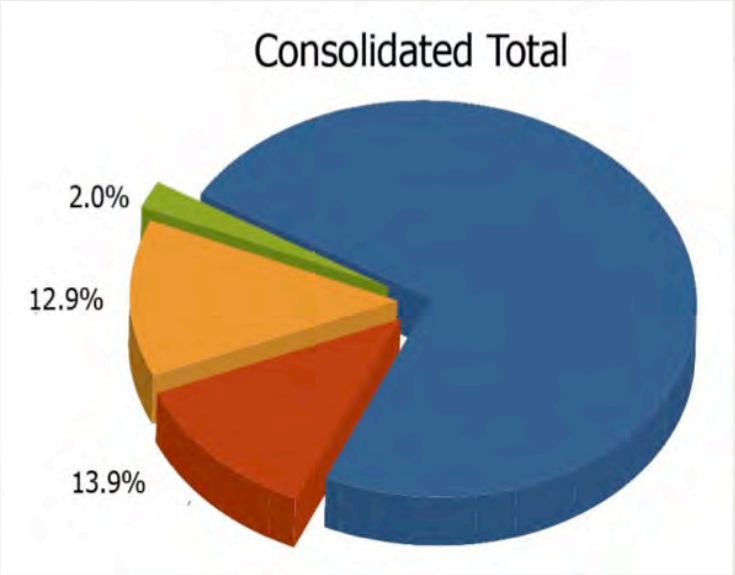
The Companies' goal is to better understand and respond to our customers' preferences and priorities. Our relationship with our customers begins in their homes and their businesses — helping them to conserve energy, to take advantage of energy efficiency and distributed generation options like PV, and to provide them the most information and the greatest control of their electricity use possible through tools such as smart meters and energy education. We also must continue to live up to our responsibility to ensure safe and reliable service for our customers' homes and businesses, in whatever manner and from whatever source our customers choose. (page 2)

Problem: Again, it's important, but not page 2 important.

# 5. Summary of key findings

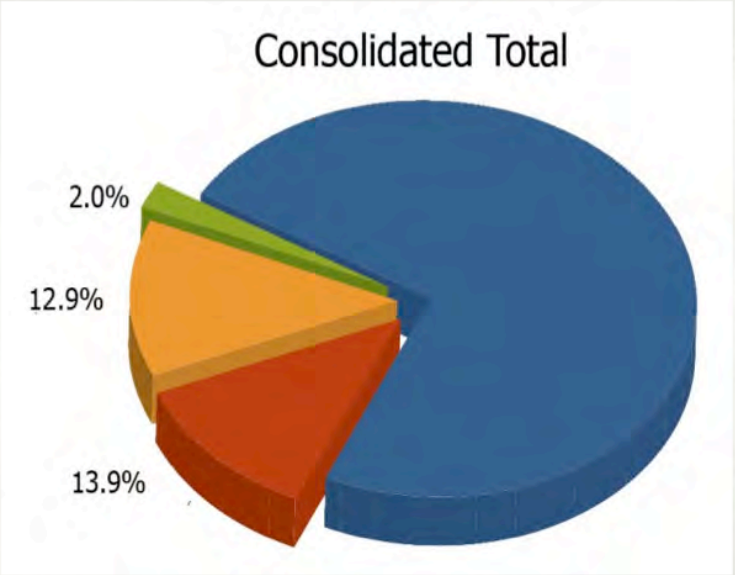
The Companies met a record 13.9% of energy needs from renewable generation in 2012—well ahead of the 12% reported for 2011 & on the way to passing the next clean energy goal of 15% in 2015. (page 7)

Problem: 7 pages to get to a headline



# 5. Summary of key findings

The Companies met a record 13.9% of energy needs from renewable generation in 2012—well ahead of the 12% reported for 2011 & on the way to passing the next clean energy goal of 15% in 2015. (page 7)




Problem: 7 pages to get to a headline

- Grid modernization (page 17)
- Costs and bills (page 22)
- Fairness (page 25)
- Scenarios, resource plans, and action plans (page 27)

Problems: Ten more pages before results; is it even obvious?

# Addressing Audience Needs: Headline First

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# Example: Headline First

## *PSIP: December 2016 Executive Summary*

- Hot item first: exceed RPS
- Actions that exceed RPS + summary details
- Reader gets important information in first 3 pages
- Overarching statement: attaining RPS doable
- That's headline first

# Example: Headline First

*PSIP: December 2016 Executive Summary*

- Hot item first: exceed RPS
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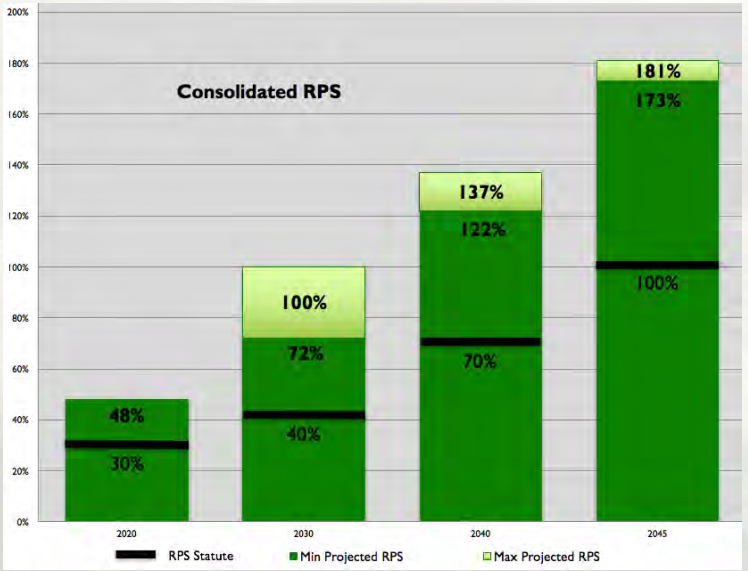
[btw, I did write this]

# 1. Summary of key findings

By implementing the proposed action plan, we will exceed the 2020 RPS mandate of 30%, achieving an estimated 48%, and doubling our 2016 RPS. Under multiple longer-term scenarios, our RPS can be at least 72% by 2030 and reach at least 100% by 2040, ahead of the 2045 deadline. (page 1)



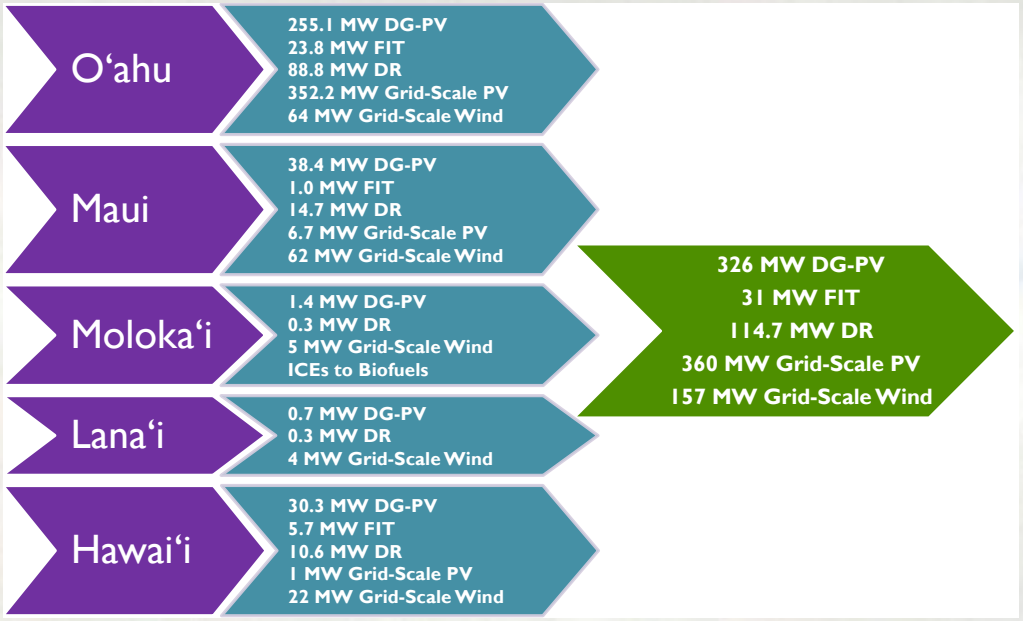
# 2. Perspective

Our PSIP accelerates the pace on the path to 100% renewable energy. The Action Plans:

- Exceed Hawaii's 2020 Renewable Portfolio Standard (RPS) and achieve a consolidated RPS of 52% over the next five years.
- Enable Moloka'i to achieve 100% renewable energy by 2020.
- Maximize distributed energy resources—fairly compensated.
- Make high use of demand response programs.
- Aggressively seek grid-scale renewable resources, leveraging federal tax credits.
- Pursue grid modernization to enable continued integration of renewable energy.
- Preserve long-term flexibility to use emerging technologies and accommodate changing circumstances.
- Reduce operations that use fossil fuels and contribute to global warming. (page 2)

# 3. Details of the analytical results

Here are the renewable generation and customer demand response additions in our proposed near-term action plans. (page 3)



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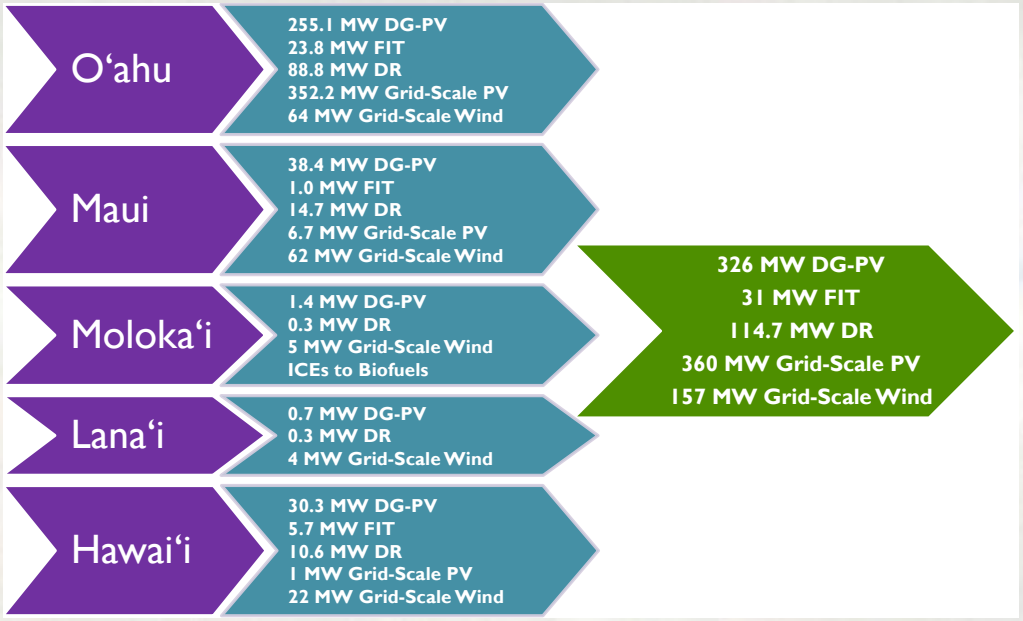



- Seven renewable energy planning principles (page 4)
- Strong DER growth (page 4)
- Grid modernization; costs (page 5)
- Interisland transmission (page 6)

# 4. Analysis and other factors

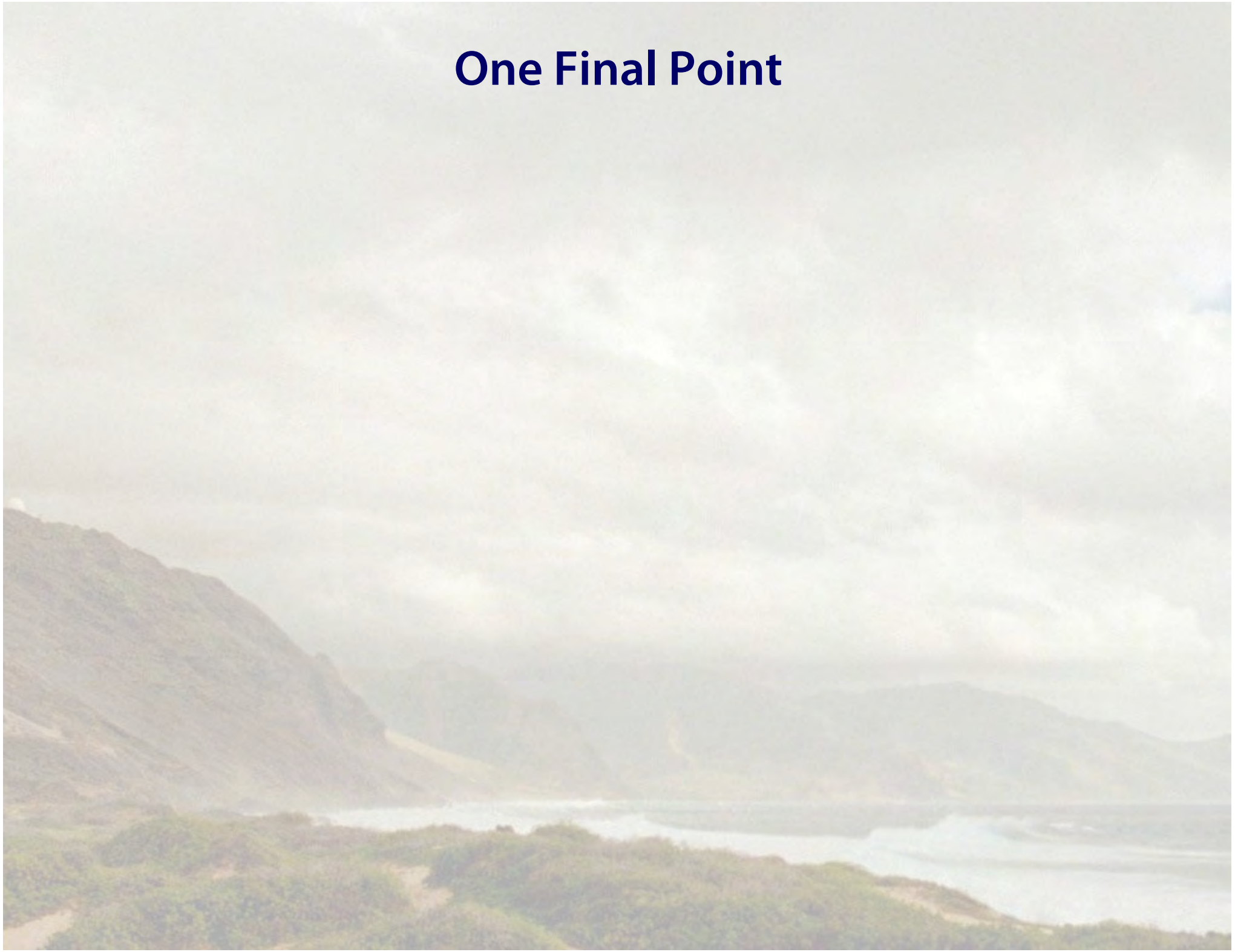
Stakeholder Involvement. We analyzed many scenarios and strategies for attaining our RPS goals. These scenarios included multiple long-term energy scenarios developed by Hawaiian Electric and by PSIP stakeholders. As part of this evaluation, we collaborated with PSIP stakeholders, thoughtfully considering their suggestions and input. Here is a sampling of scenarios from several stakeholders along with our general assessment of those scenarios: (page 7)

[followed by a list of specific input topics]

# 5. Who, what, when, where, why

[omitted]

# One Final Point



# One Final Point

The technical trail is fundamental to resource plans.

# One Final Point

The technical trail is fundamental to resource plans.

The communication trail is also fundamental to resource plans.

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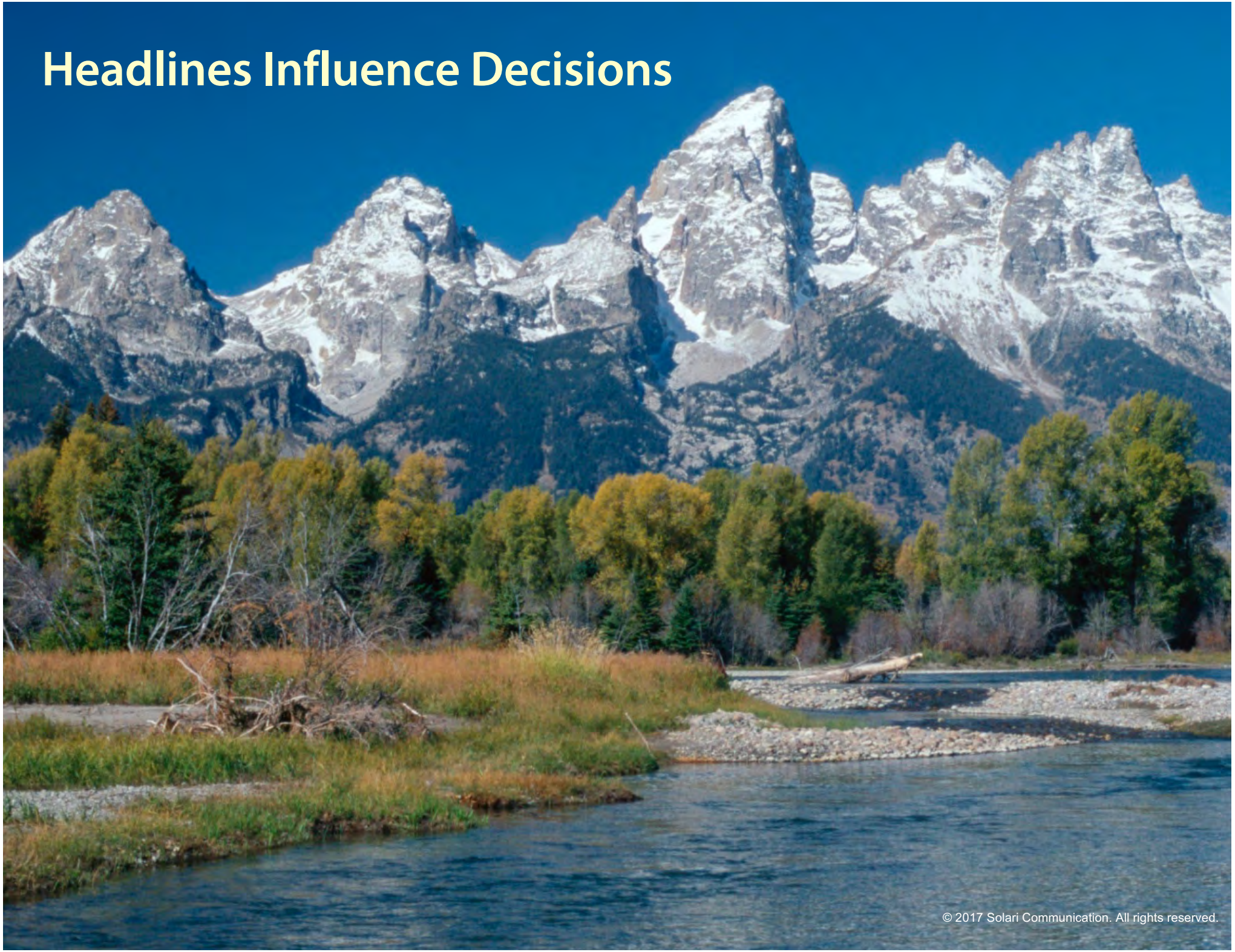
The communication trail is also fundamental to resource plans.

That's the insight we derived over these four resource plans.

# Headlines Influence Decisions



# Got it!

# It’s the End of the Trail!

If you forget everything else,

# Understand your audience

Thank you.

# Rich Maggiani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# Remember:

# *Headlines Influence Decisions*

# Appendix

# Hawaiian Electric Resource Plan Timeline

# External Factors

- Entire PUC changed
- New Governor (2014) loudly opposes “merger” and LNG
- New PUC tries to control IRP content and results

# IRP: 2013

**2011**

**Mar 14**

Order announcing IRP 2013; with an updated IRP Framework:

- Goal and governing principles
- Commission, utility, government, and public roles
- Independent Entity and 68-person Advisory Group
- Planning process and guidelines

**2012**

**Mar 1**

Order starting IRP 2013:

- Deadline: 365 days after Advisory Group formed

**Jun 29**

IE named; Advisory Group formed. Represented are:

- Local businesses and associations
- Legislature
- Environmental groups
- Energy developers
- County officials
- Governmental agencies
- Residents

**2012**

**Jul 19**

More Commission direction:

- Principal Issues and questions to address

**Aug – Dec**

IRP process:

- Monthly day-long Advisory Group meetings
- IRP based on scenario planning: two-day interactive session
- 17 Principal Issues to address
- Statute: 25% RPS by 2020; 40% RPS by 2030

**2013**

**Jan – May**

IRP process:

- Monthly day-long Advisory Group meetings
- 7 additional technical sessions
- 17 Principal Issues to address
- Statute: 25% RPS by 2020; 40% RPS by 2030

**2013**

**Jun 28**

IRP 2013 filed; individual action plans for each utility.

- Exceeds RPS goals
- Lowers customer bills
- Modernizes the grid
- Partially transitions to LNG to lower costs and meet environmental standards
- Addresses rooftop solar expansion

**Jul 29**

Independent Entity "cannot certify" IRP 2013

**Sep 9**

15 intervenors admitted

**Dec 20**

Hawaii Electric Light ordered to file a Power Supply Improvement Plan (PSIP):

- Within 120 days
- Order cites 24 provisions to address in four Component Plans

**2014**

**Apr 21**

Hawaii Electric Light files Power Supply Plan (PSP)

- Never ruled on

**Apr 28**

Four months late, Commission "rejects" IRP 2013 for:

- Not complying with the Framework
- Failing to meaningfully address 13 of 17 Principal Issues

Includes Commission's Inclinations as basis for resource plans; three major sections:

- Creating a 21st century generation system
- Creating modern T&D grids
- Reforming policy and regulatory policies to achieve Hawaii's clean energy future

Two additional orders to continue PSIP process

# PSIPs: 2014

**2014**

**Apr 28**

Hawaiian Electric ordered to file five plans:

- Interconnection Requirements Study: 30 days
- Distribution Circuit Monitoring program: 60 days
- Distributed Generation Interconnection Plan: 120 days
- Integrated Interconnection Queue plan: 120 days
- Power Supply Improvement Plan (PSIP): 120 days addressing 37 provisions within 7 Component Plans

**Apr 28**

Maui Electric ordered to file a Power Supply Improvement Plan: 120 days addressing 21 provisions within 4 Component Plans

**Aug 7**

PSIP docket established

**Aug 26**

Hawaiian Electric, Maui Electric, and Hawaii Electric Light all file individual PSIPs containing some overlapping company-wide information…

**2014**

**Aug 26**

All three filed 2014 PSIPs:

- Exceed RPS mandates
- Transition to LNG
- Upgrade the T&D grid
- Reduce customer bills
- Respond to all Component Plans

**Sep 12**

Public comments invited

**2015**

**Jan 29**

NextEra files “merger” application

**Mar 2**

Order issued to address “merger” application

**Apr – Sep**

NextEra and Hawaiian Electric file over 27,000 pages in response to intervenor and Commission IRs


PSIP:
Apr 2016

**2015**

**Nov 4**

2014 PSIPs mostly rejected; update ordered:

- Initial Statement of Issues outlined
- 8 Observations & Concerns
- Revision Plan by November 25, 2015
- Interim PSIP Update by February 15, 2016
- Updated PSIP by April 1, 2016
- 22 intervenors rejected, but admitted as participant “Parties”

**Nov 25**

Revision Plan filed

**Dec 2**

“Merger” hearings begin

**Dec 11**

One more Party added

**Dec 17**

First stakeholder conference

**2016**

**Jan 7**

First technical conference

**Feb 16**

Interim PSIP Update filed:

- Decision Framework: DER, DR, utility-scale resources
- Party input
- "Merged" utility commits to speeding up RPS attainment

**Mar 8**

Second technical conference

**Mar 11**

"Merger" headings end; 7,200 transcript pages

**Apr 1**

Updated PSIP filed, work still to be done:

- LNG as a transition fuel
- 383 MW 3x1 CC
- Addresses 7 of 8 Observations & Concerns
- Comprehensive grid transformation
- Exceeds RPS mandates
- Oahu-based utility-scale wind and solar potential


PSIP: Dec 2016

**2016**

**Apr 26**

Hawaii Natural Energy Institute publishes "Alternative Ownership for Electric Utility on O'ahu and Hawaii Island"

**May 17**

Second stakeholder conference

**Jun 3**

Public comments invited

**Jun 29**

Third stakeholder conference

**Jul 15**

"Merger" dismissed without prejudice

**Aug 16**

Order to clarify Revised PSIP content:

- Six additional issues to address
- Two more technical conferences
- Work Plan by September 7
- Revised PSIP by December 1
- Party IRs
- Party and Hawaiian Electric SOPs

**2016**

**Aug 26**

Hawaiian Electric Motion for Clarification: never ruled on

**Aug – Oct**

Four additional stakeholder meetings

**Sep 7**

Revised Work Plan filed:

- Updated analysis process using 3 modeling tools
- Updated assumptions
- Updated O‘ahu-sited utility scale wind and solar potential

**Sep 21**

Third technical conference

**Oct 3**

Fourth technical conference

**Oct 17**

Order changing PSIP deadline to December 23

- Extends IR and SOP deadlines
- Removes Hawaiian Electric SOP requirement

**2016**

**Nov 14**

Order extending IR and SOP deadlines

**Dec 23**

Revised PSIP filed:

- Accelerates renewable generation
- 52% RPS by 2022
- No LNG
- Molokai 100% renewable energy by 2020
- Maximizes DER
- Modernizes the grid

**2017**

**Feb 14**

SOPs filed, including a Hawaiian Electric SOP

**…**

And the waiting begins…

Thank you.

# Rich Maggiani


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Writer & Editor

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