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**WHAT'S THE
PROACTIVE
APPROACH?**

- OR -

May 24, 2013
Maui Solar Summit



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**RECENT
RECOMMENDATIONS
RE:
RELIABILITY
RULES,
RENEWABLE
READINESS**

May 24, 2013
Maui Solar Summit

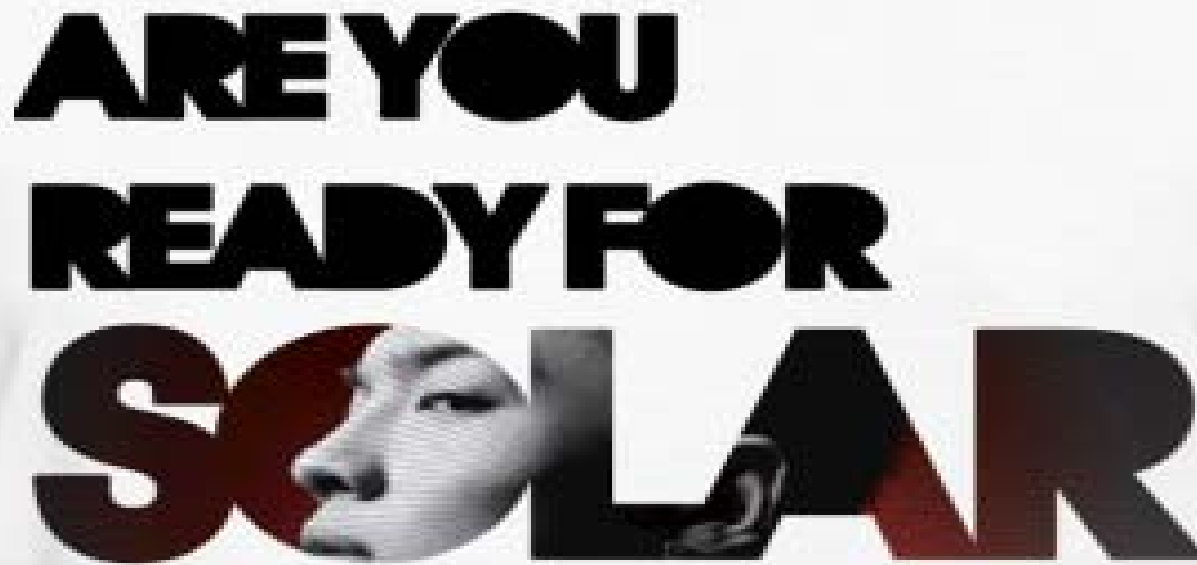
Background & Timeline



- 9/09 PUC Orders “Feed-In Tariffs” Program
- 2/10 HECO “Report on Reliability Standards”
- 4/10 HECO agrees to increase from 10% to 15% of peak
- 8/10 PUC approves RSWG, confirms no moratorium
- 7/11 First RSWG mtg
- 10/11 HECO agrees to rule reform, supplemental review & 50% of daytime minimum
- 10/12 HECO increases to 75% of daytime minimum for <10kw
- 1/13 Final RSWG mtg

Proactive Approach in a Nutshell:

GET READY FOR SOLAR



**ARE YOU
READY FOR
SOLAR**

Overall Goal:

- (1) maintain reliability &
- (2) facilitate interconnection.



Concept:

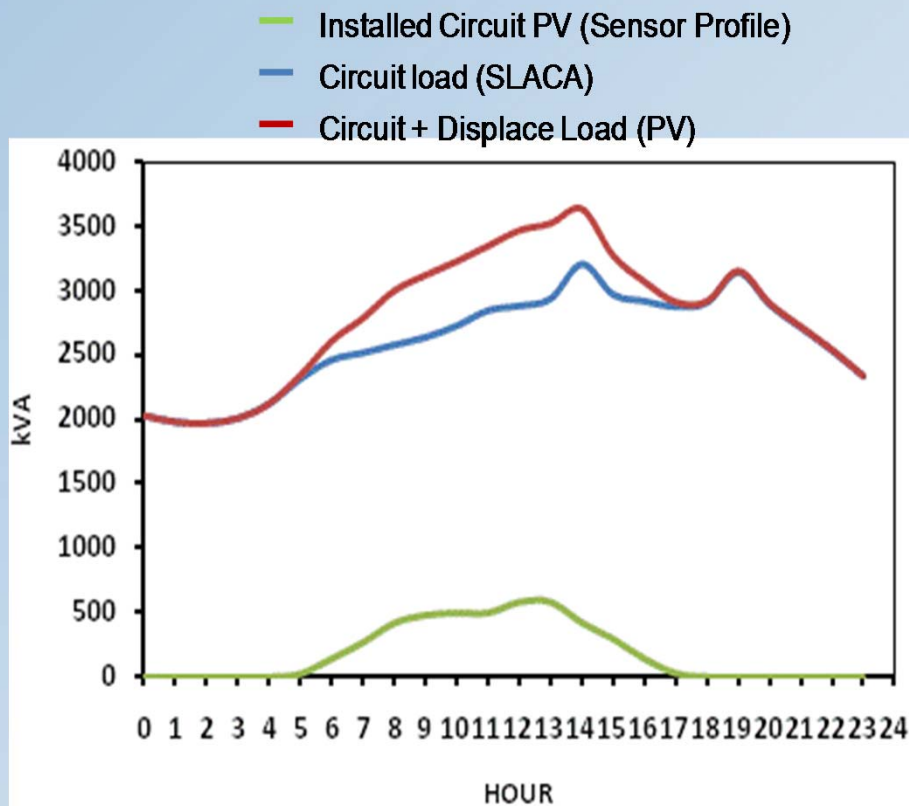


- Integrates utilities' interconnection and distribution planning functions.
- Proactive planning for high penetration, not reactive to specific interconnection requests.
- Enhances, rather than replaces, both interconnection and planning processes.

Tools:



- Enhanced monitoring and modeling of distributed PV by areas (“cluster/node”).



TJD-1 mobile solar irradiance sensors



LM-1 solar availability sensors

Principles:

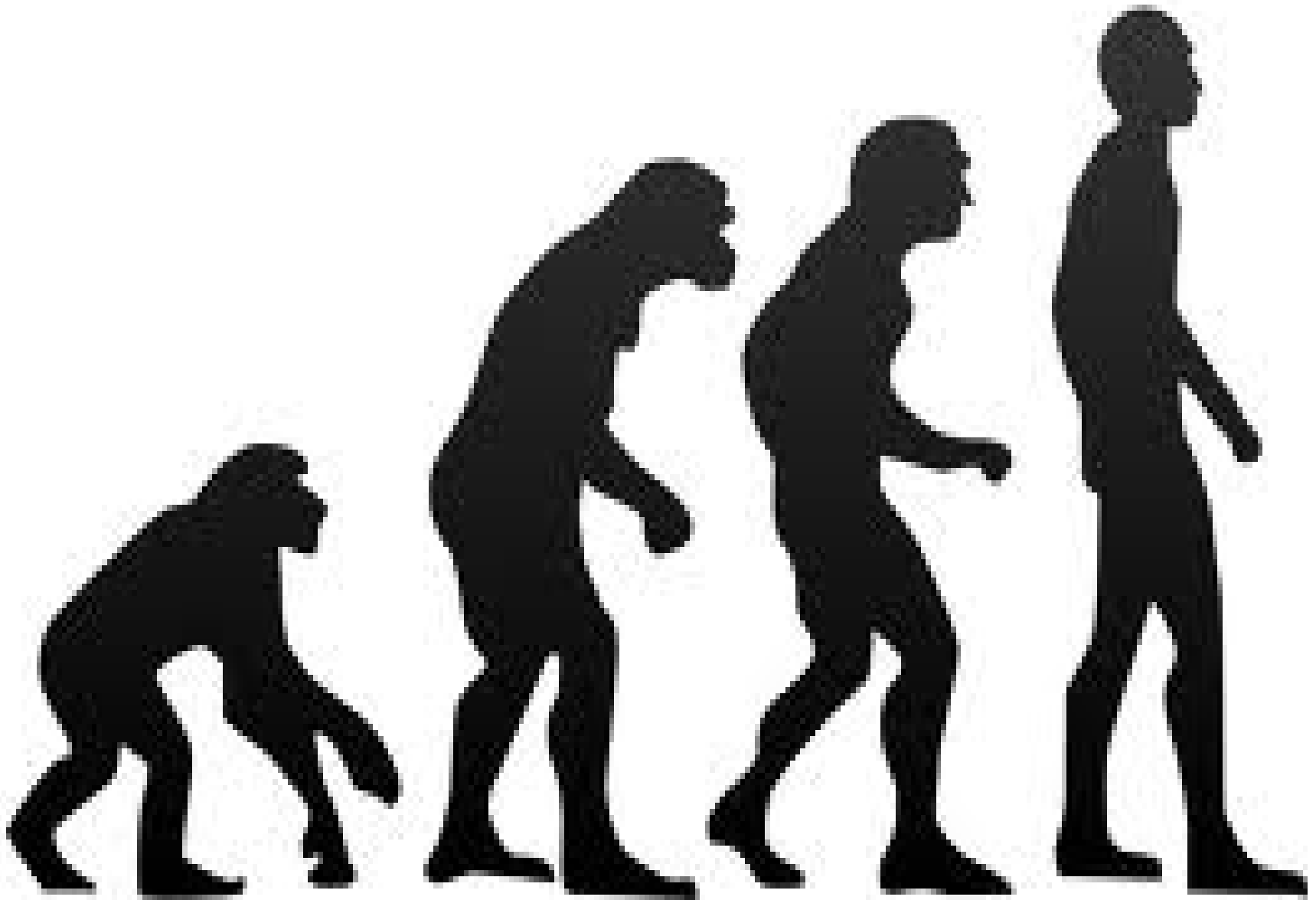


- Visibility: track PV as generation.
- Transparency: pre-identify circuit penetration capabilities and necessary upgrades, narrow issues.
- Efficiency: streamline interconnection, “get ahead of” curve, avoid piecemeal red tape

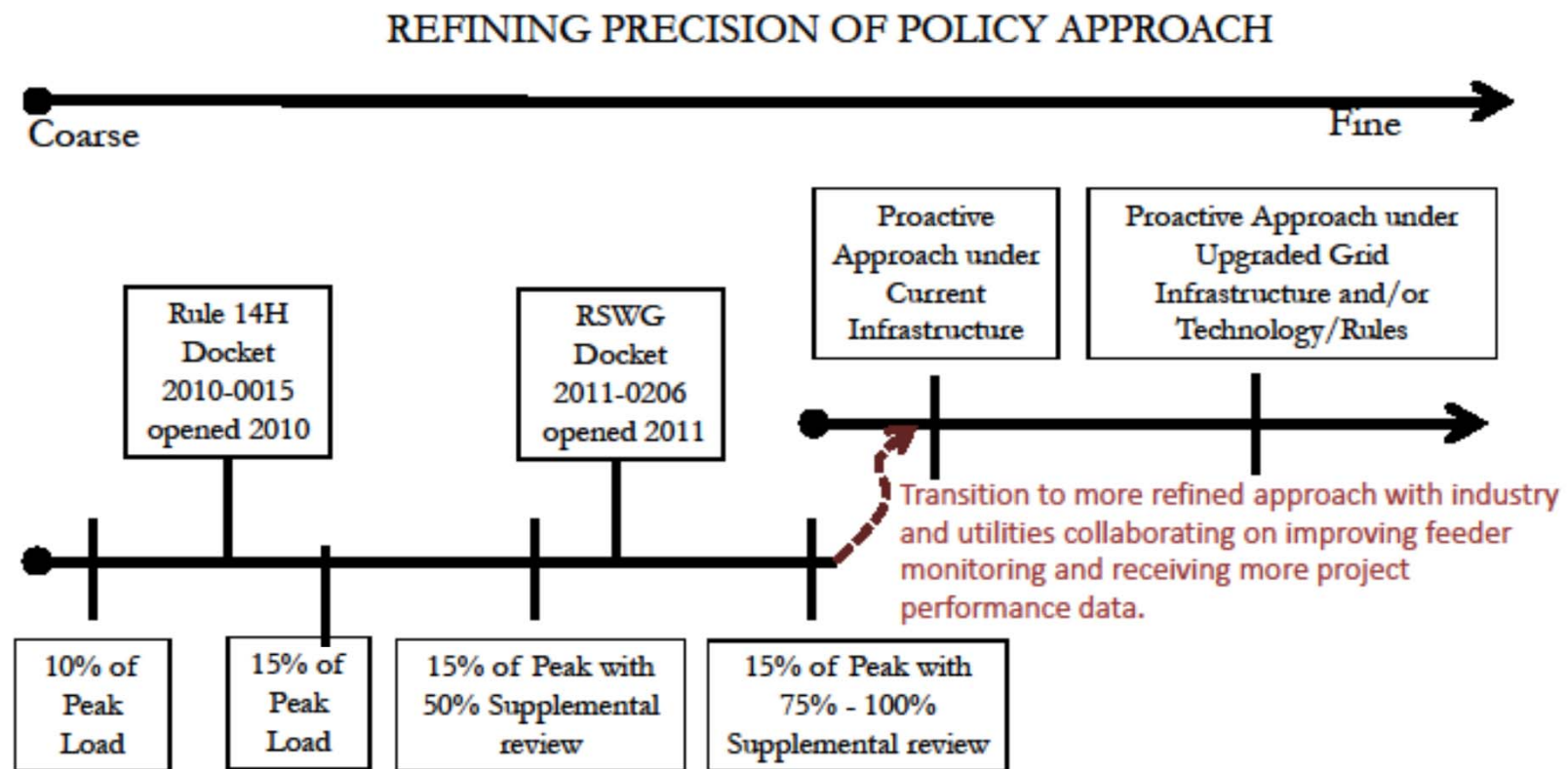
Components & Steps:



- Enhanced Modeling
- Consolidated Queue
- Annual Review of “Base Case”
- Penetration Capabilities & Upgrades
- Online Information



Framework for Understanding the Evolution of DG Interconnection Rules/Guidelines/Standards





Implementation:

- Timing of Rollout:
for MECO, early-‘13 begin, mid-‘14 Maui complete, ‘15 MECO complete.
- Cost-allocation for upgrades
- Fairness for small customer generators
- Commission approvals?

(Potential) Upshot:

- HECO leading-edge, model for nation.
- Evolutionary step towards grid of the future.





(Potential) Upshot:

- All in the implementation: sustained commitment & resources.
- Will not eliminate IRSs, hopefully streamline and cut red tape.
- Addresses only interconnection.
- Fight For Your Right!



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There are two mistakes one
can make along the road to truth.
NOT GOING ALL THE WAY
and not starting.

Buddha

