

THE FIVE FACTORS DEFINING BANKABLE DATA

Minimizing your cost of capital to ensure strong economics for your solar project requires use of a bankable solar resource dataset. The following five factors define bankable solar resource datasets:

1

IS THE DATA VALIDATED AND WIDELY ACCEPTED?



UP-TO-DATE ALGORITHMS

DR. RICHARD PEREZ



Developed solar radiation models that have been incorporated in standard solar energy and daylighting calculation practice around the world

- 200 journal articles, conference papers and technical reports
- Multiple patents in the area of solar photovoltaics-to-grid integration
- Numerous awards including: International Solar Energy Society Farrington Daniels Award, American Solar Energy Society Charles Greeley Abbot Award

TRUSTED BY:



Independent engineering firms



Academic institutions



Industry innovators

V2.2

V2.5

Explicit versioning provides continuity in your processes – so you can revalidate your financial calculations as necessary

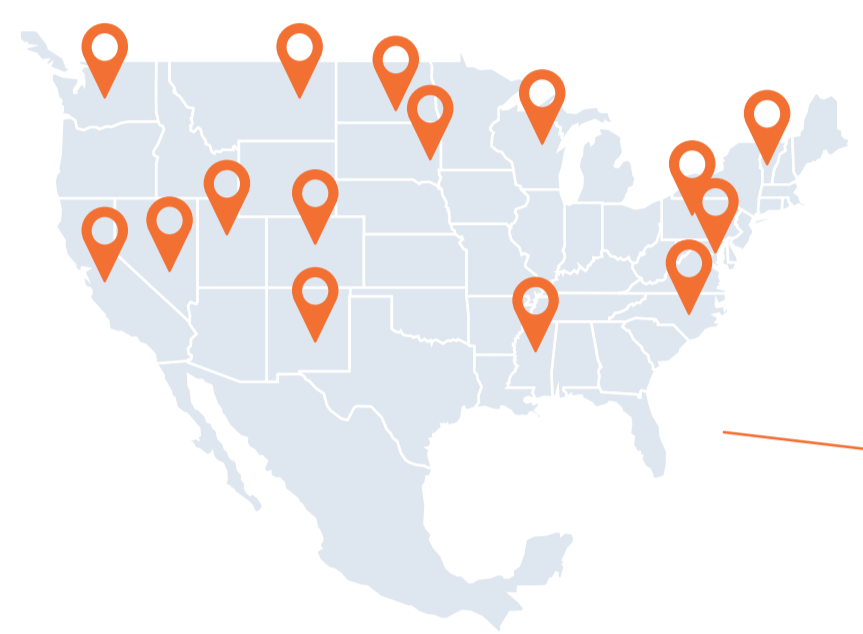
V3.0

MODEL VERSIONING

2

ARE THE UNCERTAINTY RATES KNOWN AND ACCEPTABLE?

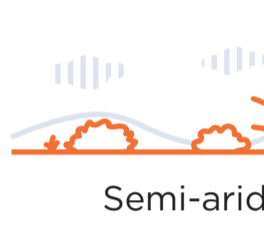
VALIDATED



ACROSS MANY, VARIED SITES



Desert



Semi-arid



Humid continental



Humid sub-tropical



Highland



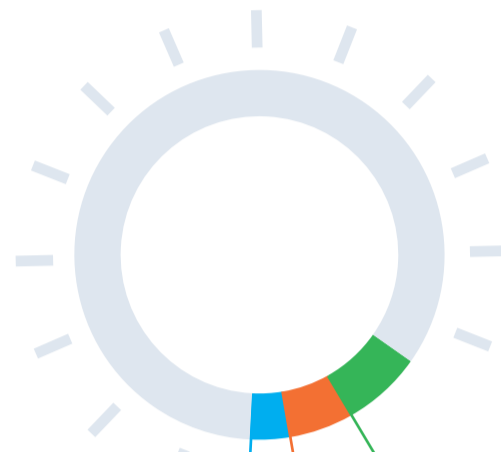
Mediterranean

ACROSS REPRESENTATIVE CLIMATE ZONES



AND MULTIPLE SITE YEARS

TO DEVELOP ACCURACY



PUBLISHED UNCERTAINTY AT

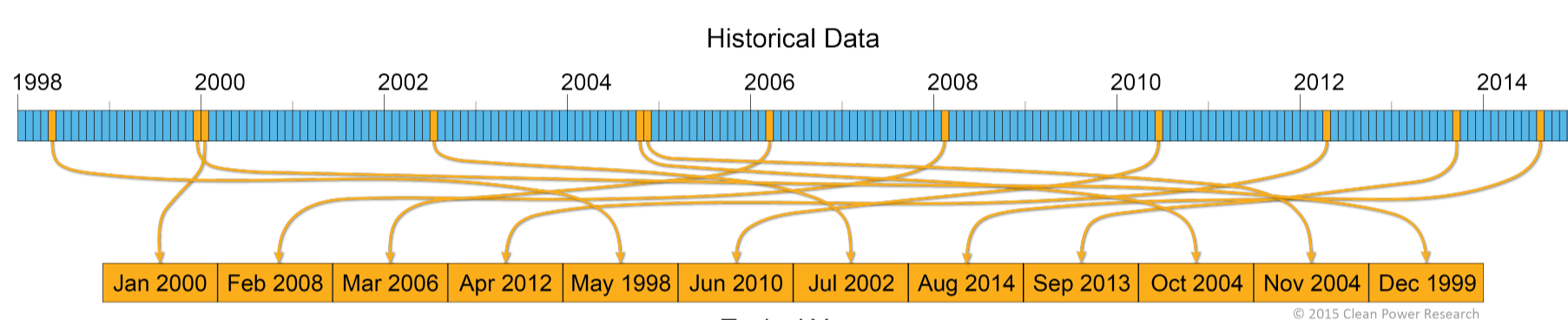
= 95%

CONFIDENCE INTERVAL

Meaning.... 95% of the sites you randomly pick in the coverage territory will be at or below 5% annual uncertainty on GHI energy

3

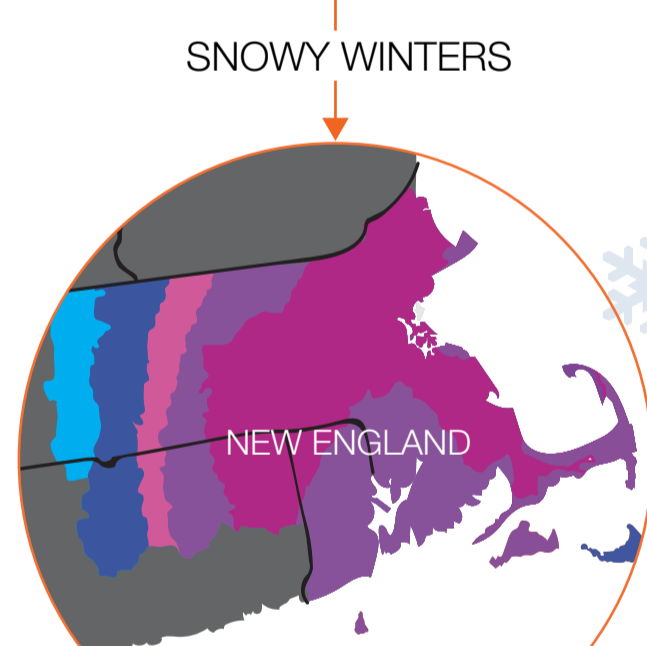
DOES IT HAVE BOTH A LONG HISTORY & CURRENT DATA?



&

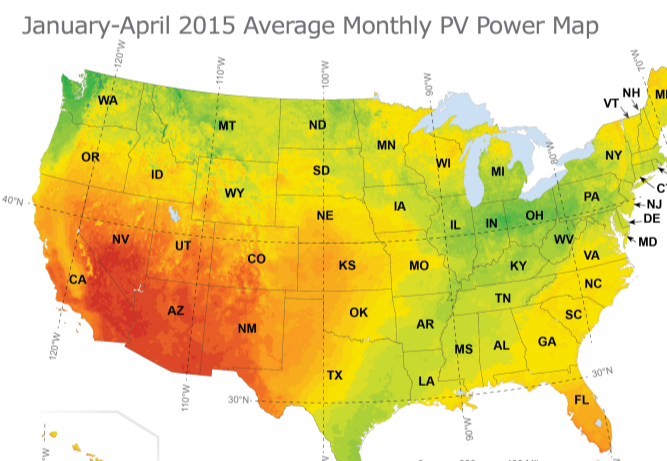
You need a temporally-appropriate representation of the climatology – capturing and adjusting for inter-annual variability

SNOWY WINTERS

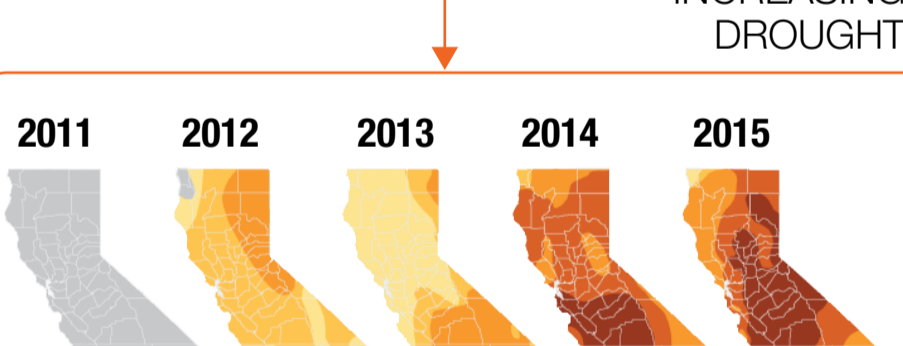


NEW ENGLAND

January-April 2015 Average Monthly PV Power Map

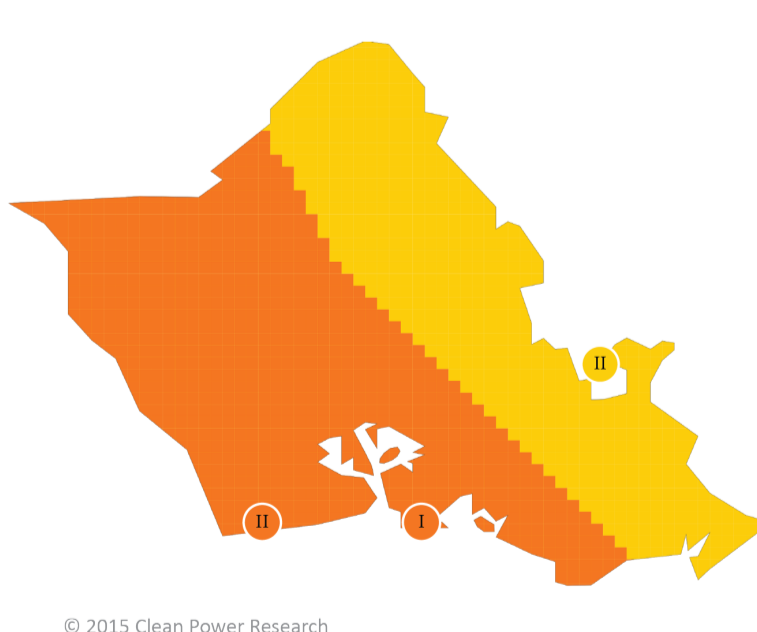


INCREASING DROUGHT



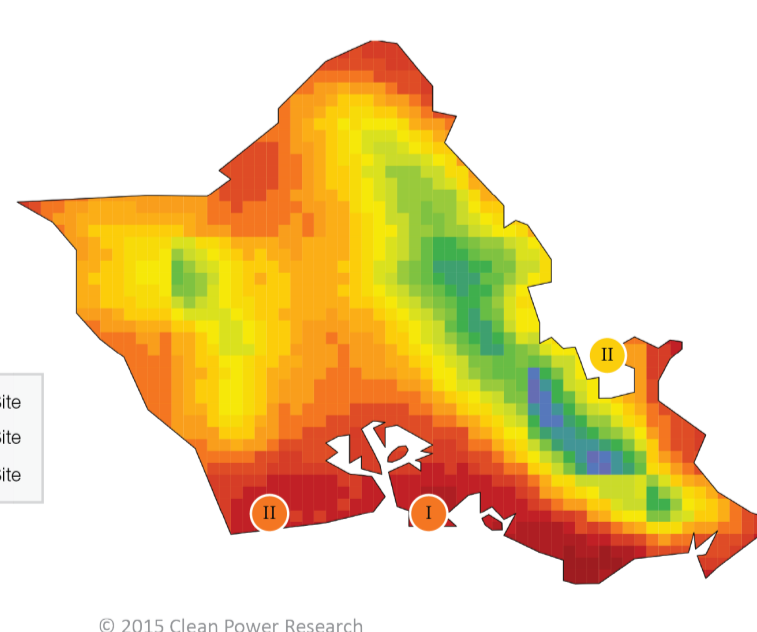
4

IS IT SPATIALLY PRECISE?



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Annual Average GHI (W/m²)

TMY3 Nearest Neighbor Gridded 1 km Annual Average GHI in Oahu, Hawaii



© 2015 Clean Power Research
Annual Average GHI (W/m²)

SolarAnywhere TGY Gridded 1 km Annual Average GHI in Oahu, Hawaii

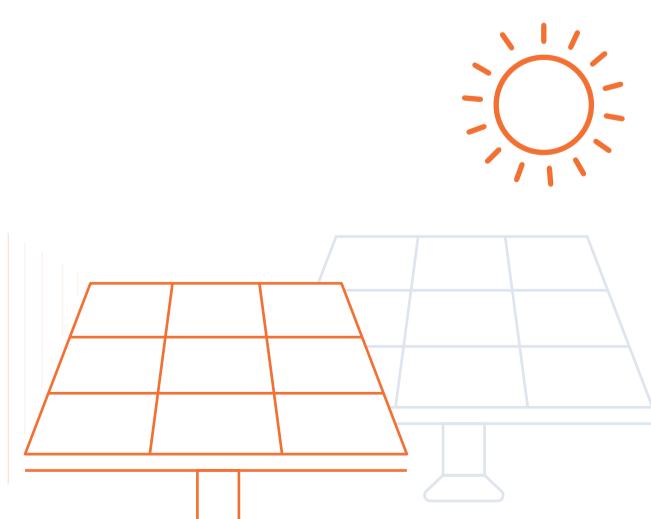
Use weather and irradiance measurements that are representative of the microclimate behavior of your location

Nearby weather stations that aren't co-located with your actual PV project add unknown uncertainty to your financial projections

5

WAS IT BUILT SPECIFICALLY FOR SOLAR APPLICATIONS?

GHI
DNI
DIF
TEMPERATURE
WINDSPEED
ELEVATION



Just what you need – only the meteorological components relevant for your solar applications

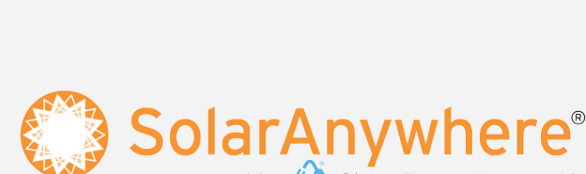


Reduce risk in selecting project locations, and secure the best financing terms. Model long-term energy production and financial performance with confidence. SolarAnywhere provides precise, bankable solar irradiance data; real-time, historical and forecast



Want to learn more or get more details? Great!

[Download a Sample Data File](#)



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