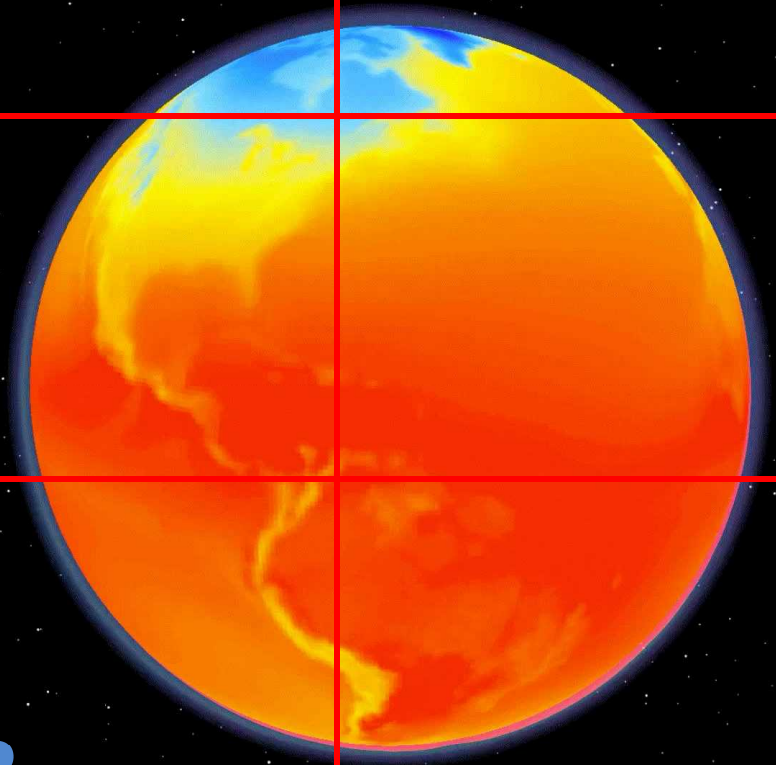
POWER UP!

Making NASA Data Available for Energy Related Societal Benefits







POWER
Prediction Of Worldwide Energy Resource

What do they all have in common?

Peter



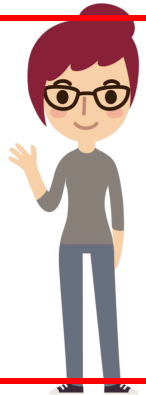
Jill



Joshua



Margaret



Ben



Samantha



SOLARPE

FERRERO

PVSYST

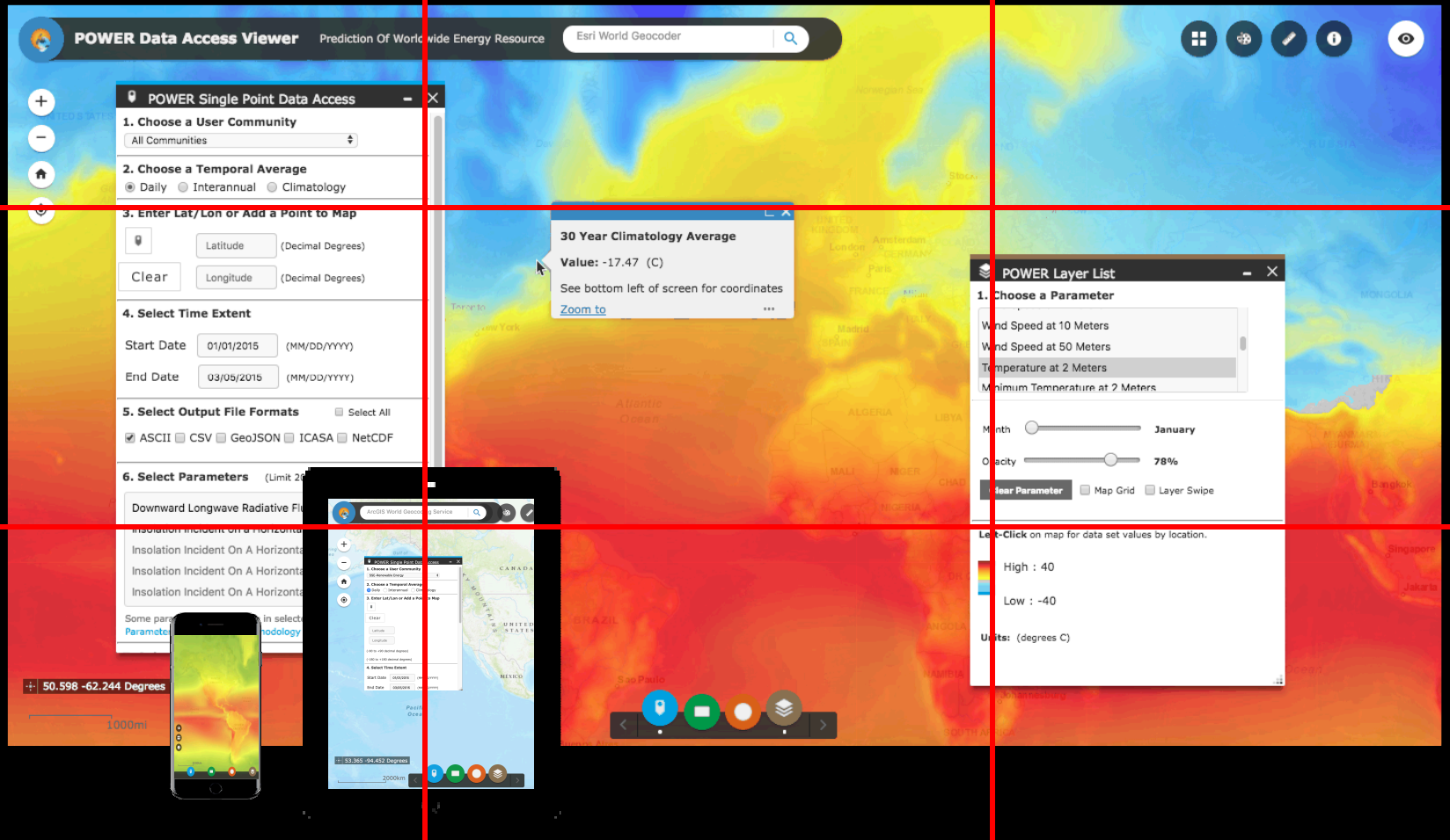
AfricaRice

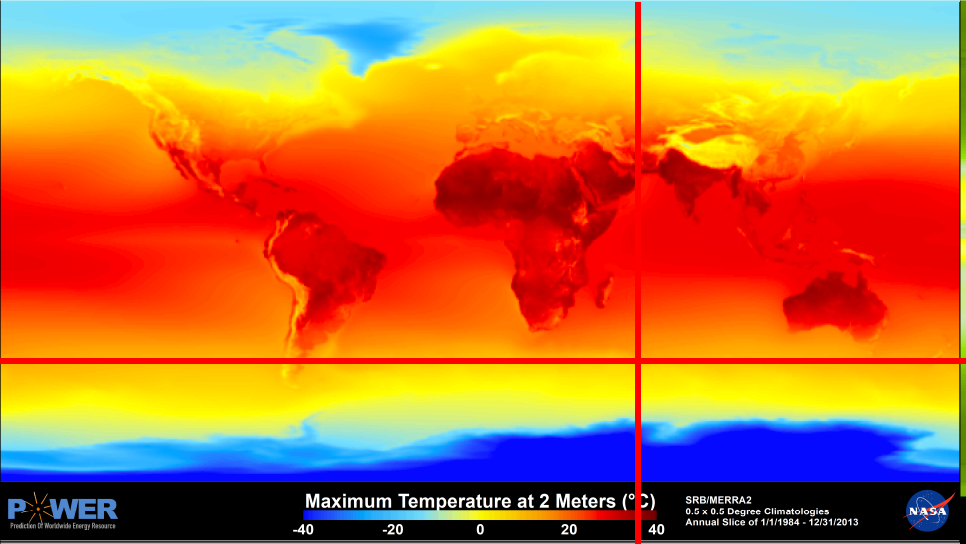
Global Yield Gap Atlas

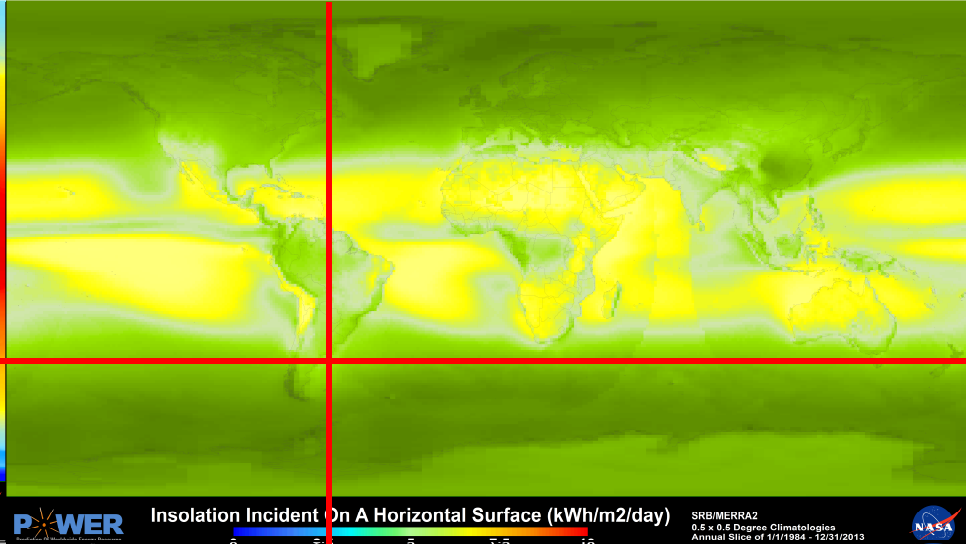
NOKIA

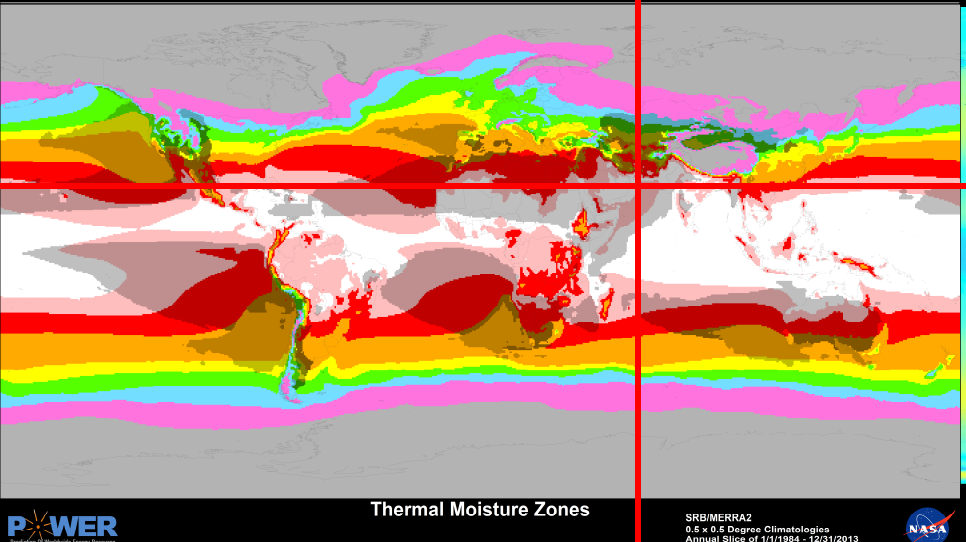
World Agroforestry

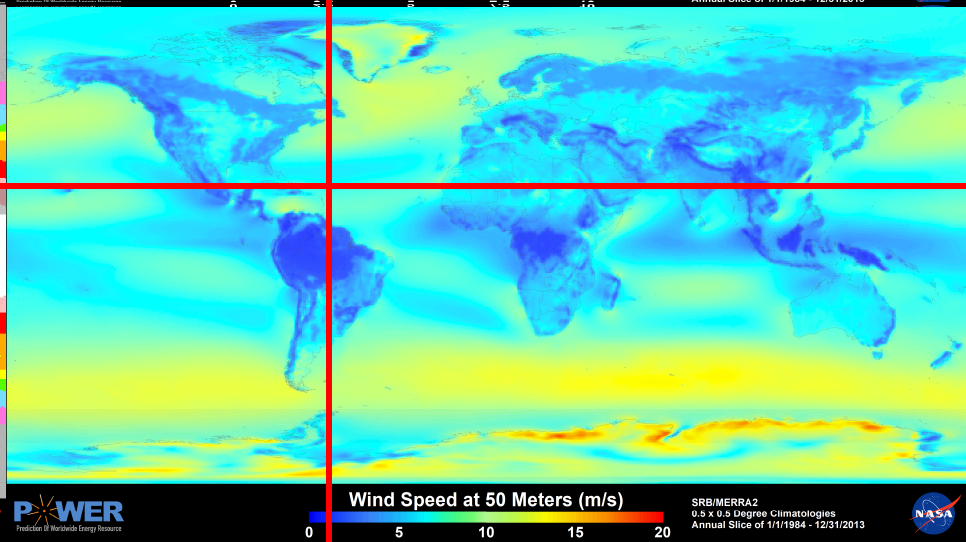
POWER Data Access Viewer

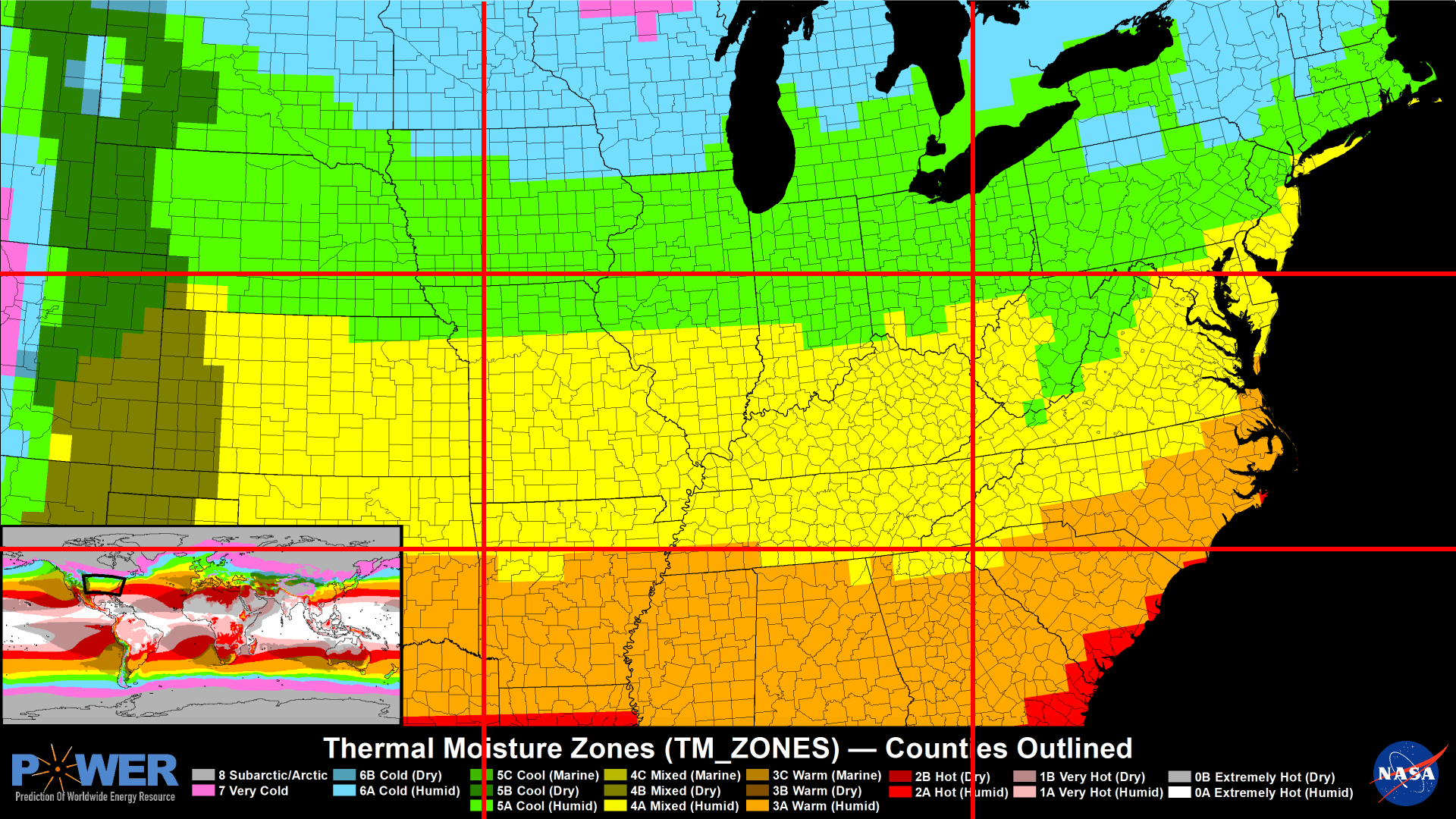



POWER
Prediction Of Worldwide Energy Resource
Maximum Temperature at 2 Meters (°C)
-40
-20
0
20
40
SRB/MERRA2
0.5 x 0.5 Degree Climatologies
Annual Slice of 1/1/1984 - 12/31/2013
NASA

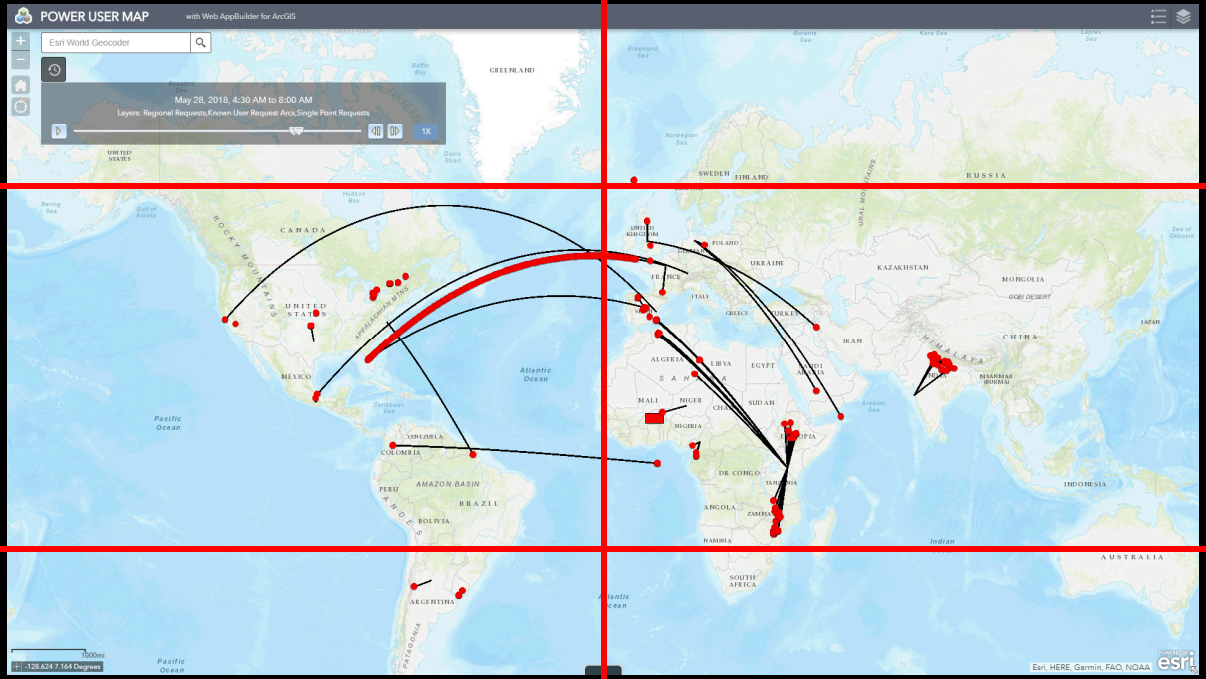

POWER
Prediction Of Worldwide Energy Resource
Insolation Incident On A Horizontal Surface (kWh/m2/day)
SRB/MERRA2
0.5 x 0.5 Degree Climatologies
Annual Slice of 1/1/1984 - 12/31/2013
NASA

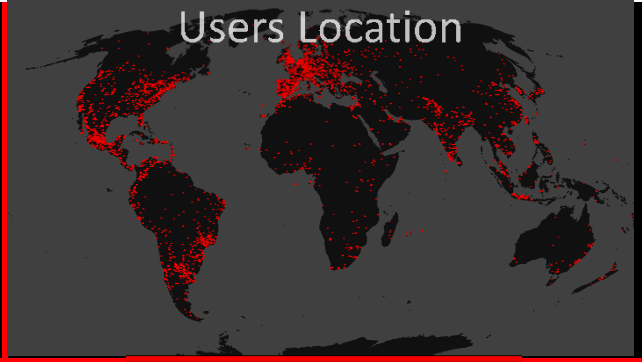

POWER
Prediction Of Worldwide Energy Resource
Thermal Moisture Zones
SRB/MERRA2
0.5 x 0.5 Degree Climatologies
Annual Slice of 1/1/1984 - 12/31/2013
NASA

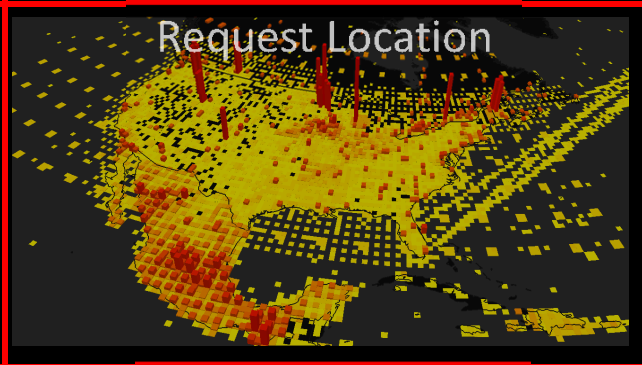

POWER
Prediction Of Worldwide Energy Resource
Wind Speed at 50 Meters (m/s)
0
5
10
15
20
SRB/MERRA2
0.5 x 0.5 Degree Climatologies
Annual Slice of 1/1/1984 - 12/31/2013
NASA

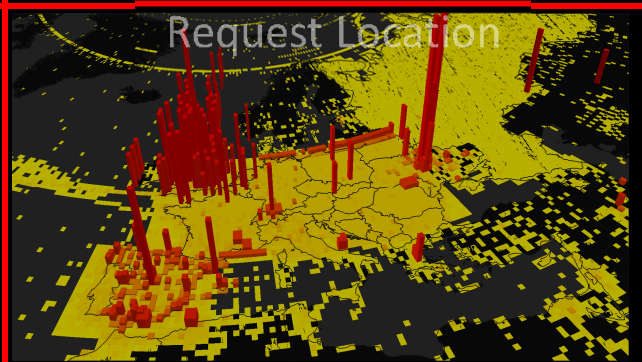

Thermal Moisture Zones (TM_ZONES) — Counties Outlined
POWER
Prediction Of Worldwide Energy Resource
8 Subarctic/Arctic
7 Very Cold
6B Cold (Dry)
6A Cold (Humid)
5C Cool (Marine)
5B Cool (Dry)
5A Cool (Humid)
4C Mixed (Marine)
4B Mixed (Dry)
4A Mixed (Humid)
3C Warm (Marine)
3B Warm (Dry)
3A Warm (Humid)
2B Hot (Dry)
2A Hot (Humid)
1B Very Hot (Dry)
1A Very Hot (Humid)
0B Extremely Hot (Dry)
0A Extremely Hot (Humid)
NASA

POWER User Metrics









Prediction Of Worldwide Energy Resources (POWER)

Integrate improved environmental data, analysis and modeling for enhanced management of energy production and energy efficiency systems.



Geospatially Enabling NASA ES Data For:

Renewable Energy

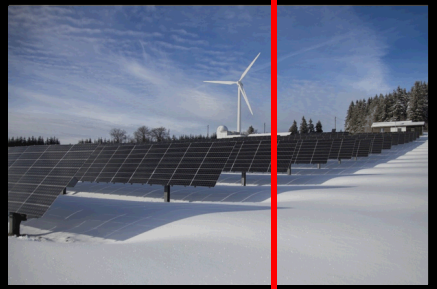
Energy-Efficient Building Design

Biomass Crop Development Industries











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