



Cyprus  
University of  
Technology



Prognosis  
Mapping electricity from PVs

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**DENMARK**  
committed to go  
**100% RENEWABLE**  
BY 2050

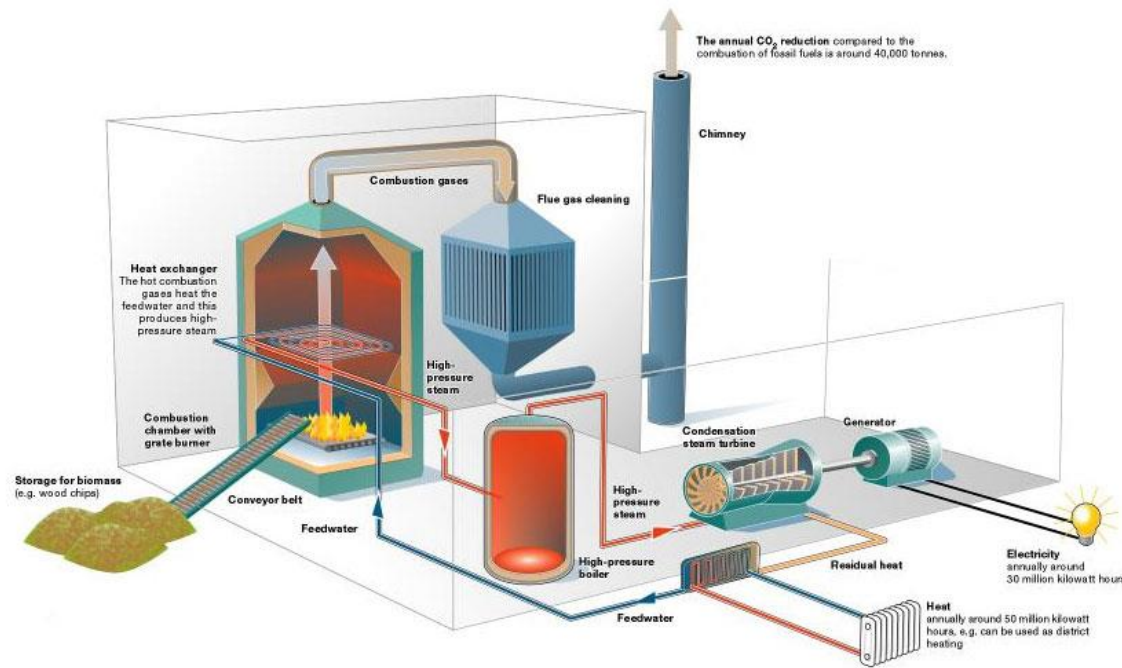
PHOTO CREDIT: SOLARIMPULSE - LICENSED UNDER CC-BY-SA 2.0

 CLIMATECOUNCIL.ORG.AU | crowd-funded science information

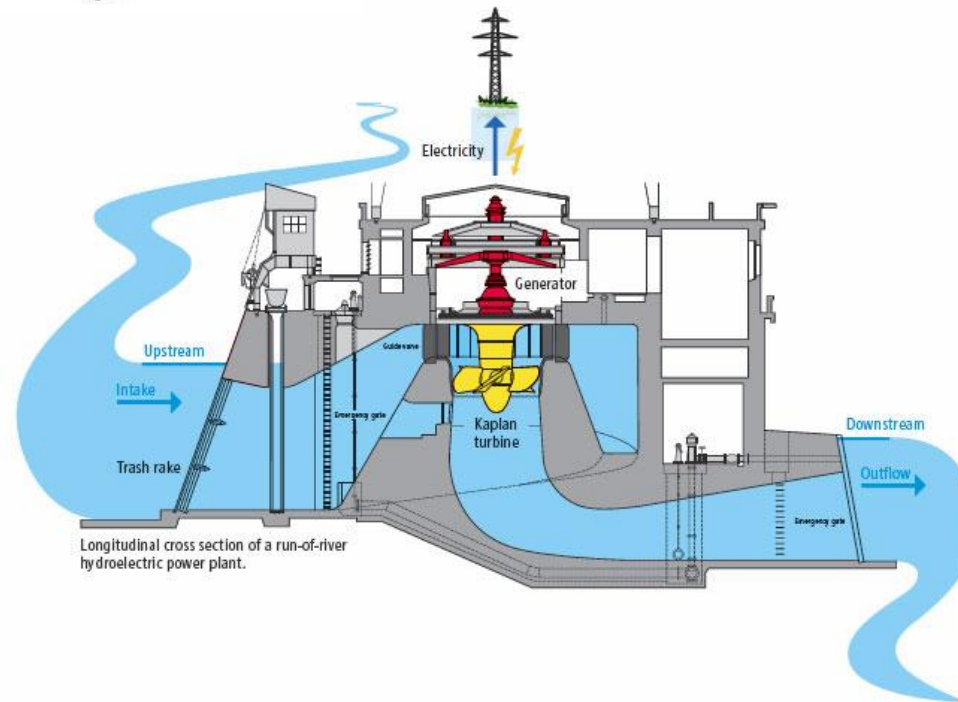




# Biomass Energy



# Hydro Energy





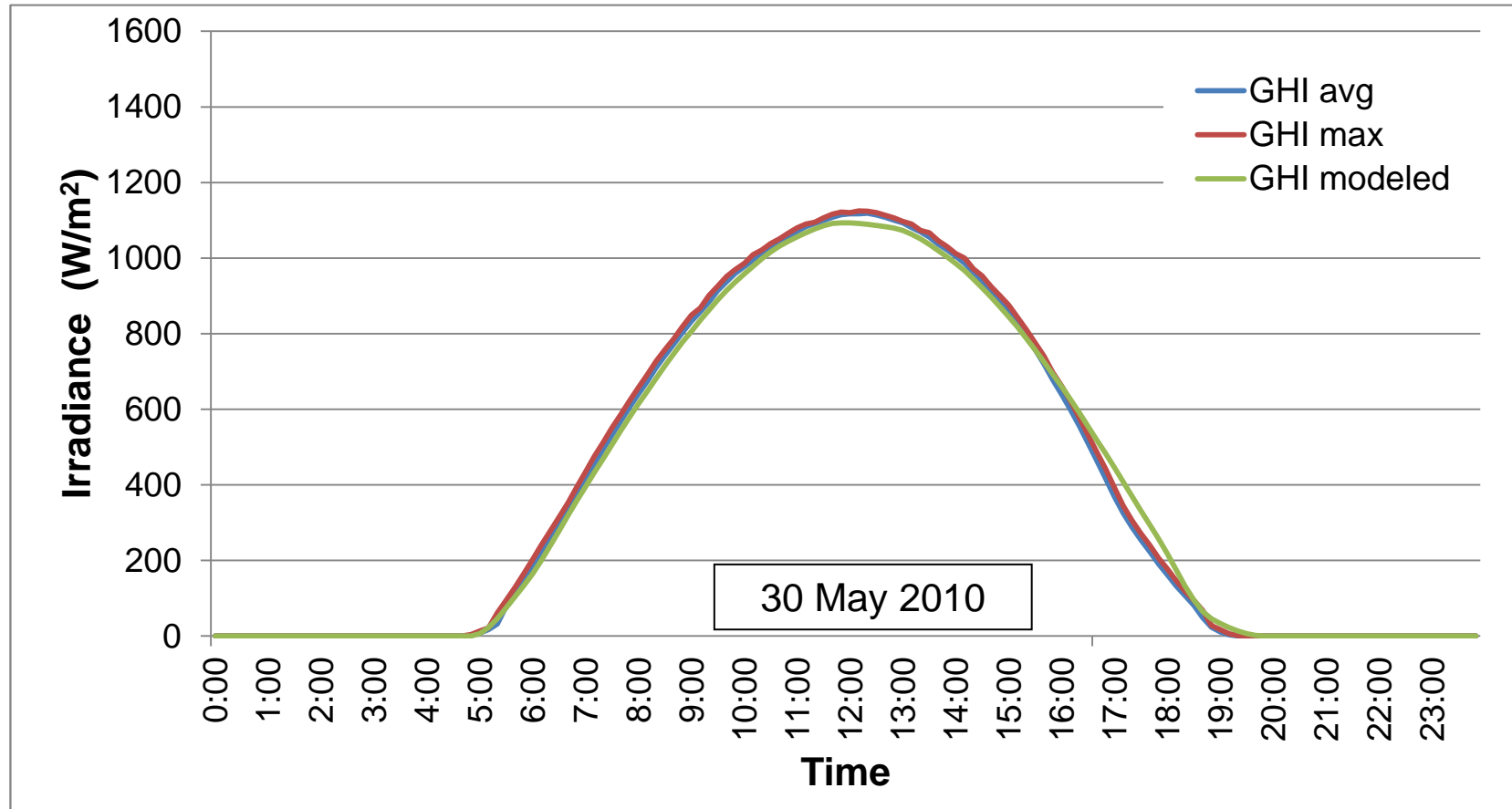
# Solar Energy



# Wind Energy



# Why is variability a problem?

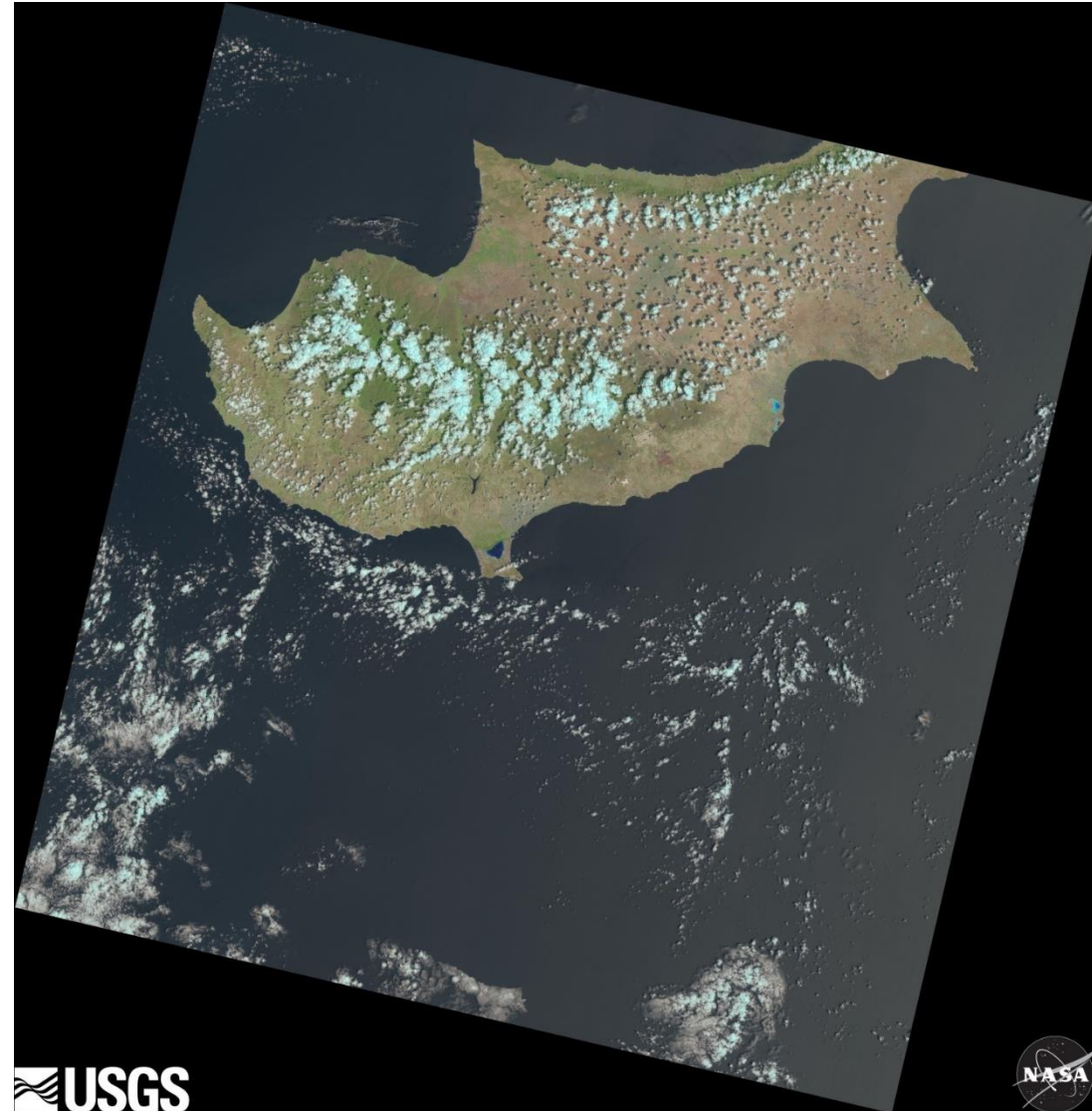


- Transmission System Operators: Grid Stability
- PV owners: Improved Profit Margins

(Renewable Energy, 62 (2014) 459-467)



# Cloud Identification



(Source: <http://www.usgs.gov/>)

# Cloud Identification



(CMS CloudCam II camera, Limassol, Cyprus)

# Cloud Identification



(3rd ICEM, USA (2015))



# Cloud Formation and Movement



(14<sup>th</sup> EMS & 10<sup>th</sup> ECAC, Czech Republic (2014))



Emma Seppälä, Ph.D. @emmaseppala · 17h

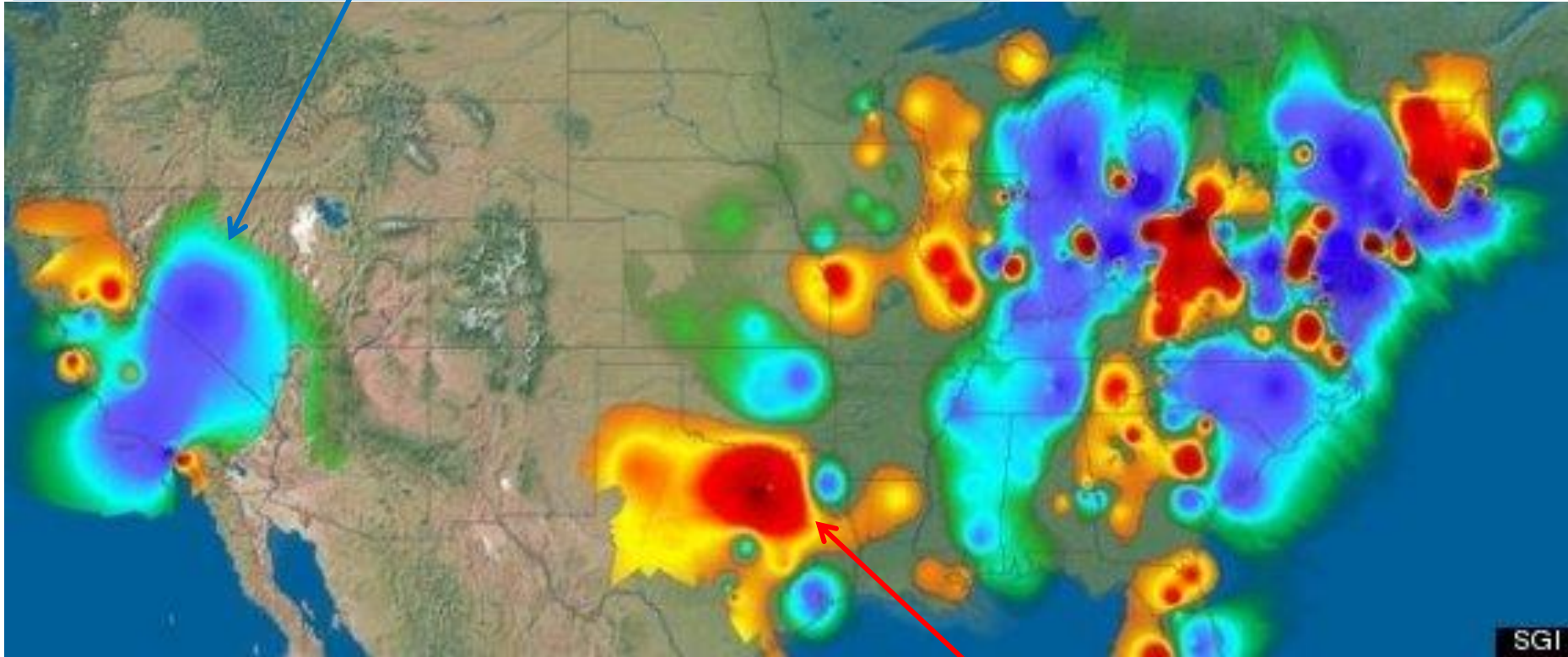
"Be **#happy** for this moment. This moment is your life." ~Omar Khayyam

RETWEETS

12

FAVORITES

20



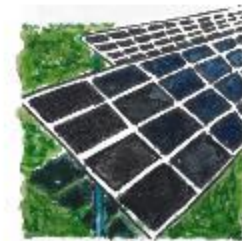
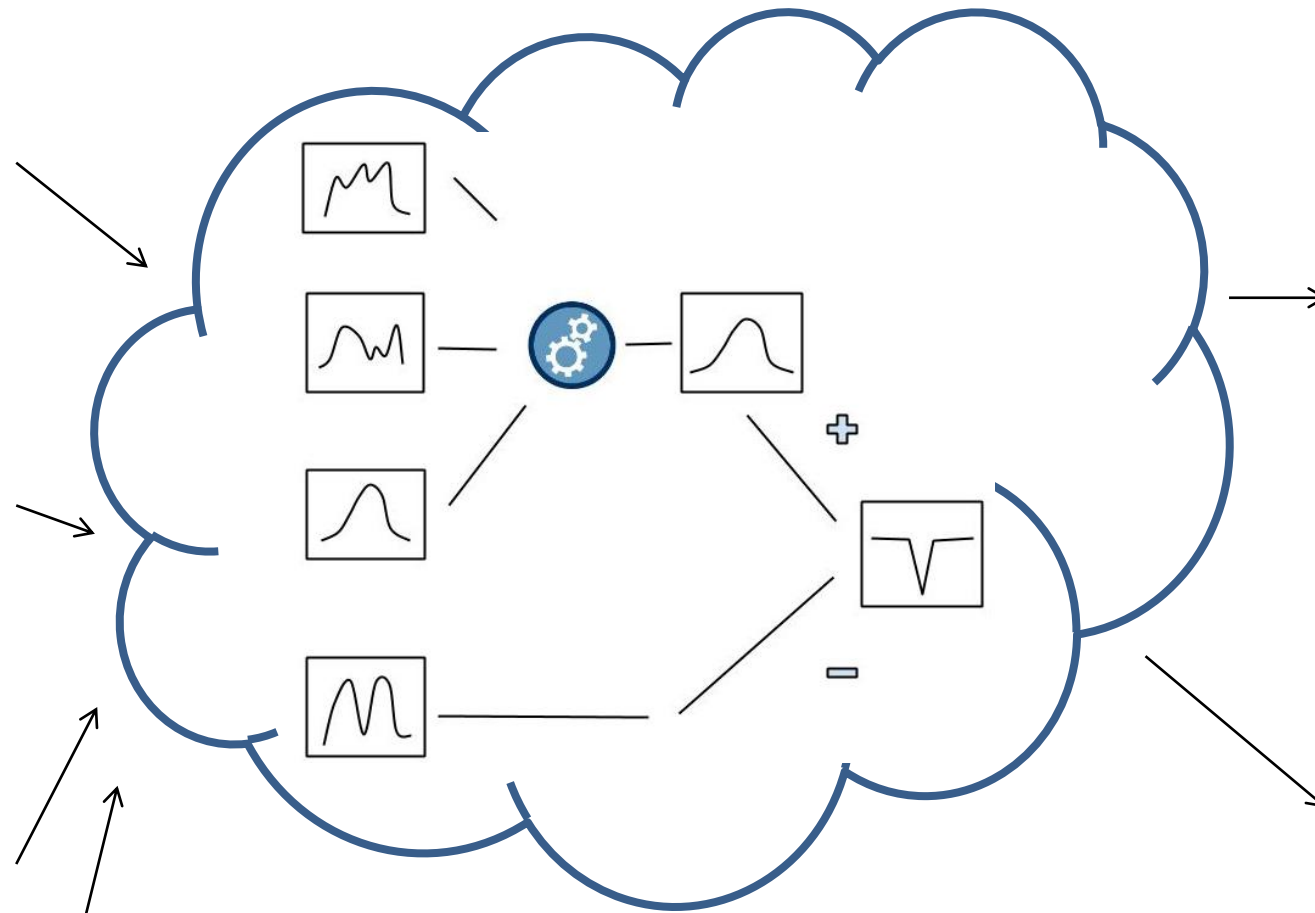
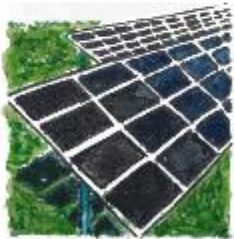
Kieran Kenny @Kieran\_Kenny · 2h

Think it's about time I start looking for a new job... **#PeasantWage** **#unhappy**

FAVORITE

1





**Cloud Computing**  
**Big Data Analytics**  
**Motion Vector Analysis**

(International (PCT) Patent Application No. PCT/EP2016/055889.)



# Thank you for your attention!!



## Contact Details:

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