HARVESTING THE SUN TWICE: CO-USING LAND FOR SUSTAINABLE FOOD AND ELECTRICITY PRODUCTION IN EAST AFRICA

GREG BARRON-GAFFORD



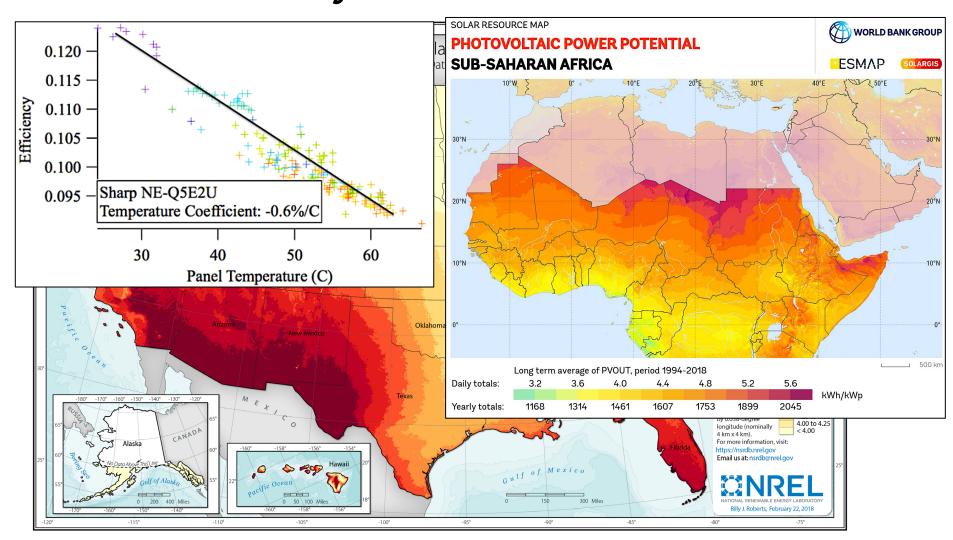
Climate change is pushing our water resources towards a tipping point



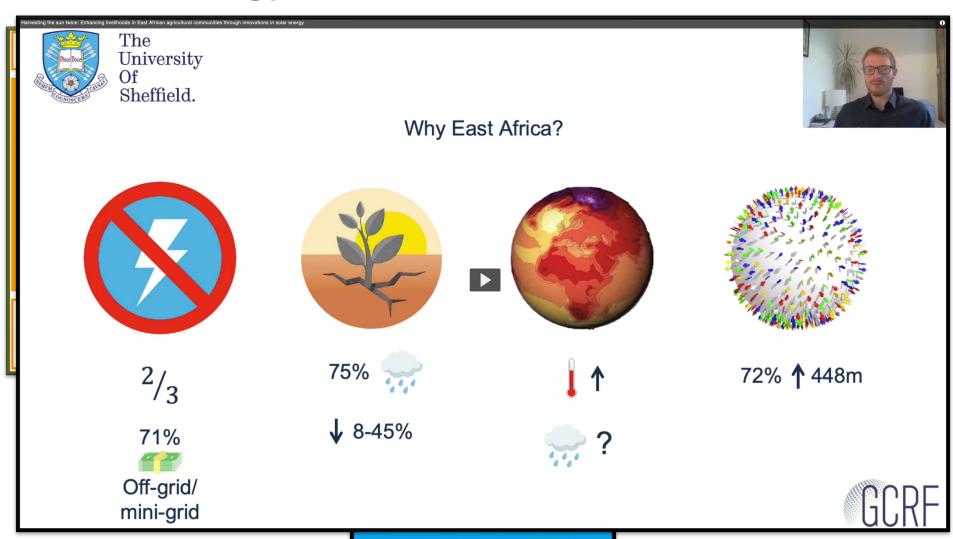
LOW ON WATER, CALIFORNIA FARMERS TURN TO SOLAR

FARMING

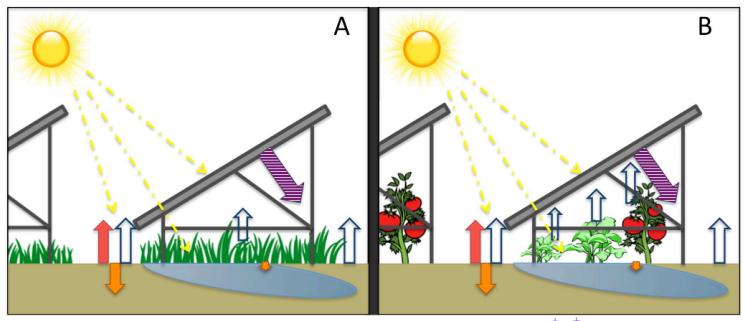
We want increase renewables, but those may also be vulnerable



We must work towards <u>resilient food,</u> <u>energy, and water solutions</u>...

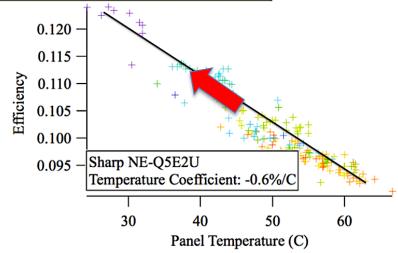


Co-locating agriculture + renewable energy could = food, energy, and water benefits



Create 'agrivoltaics' systems to:

- 1. Adapt food systems to survive drought and temperature stress
- 2. Improve renewable energy production through transpiration
- 3. Ease our dependence on irrigation



Biosphere 2 Agrivoltaics Learning Lab





Global Partnerships:

Harvesting the sun twice: could agrivoltaics enhance energy and food security in East Africa?



Global Partnerships:

Harvesting the sun twice: could agrivoltaics enhance energy and food security in East Africa?



Global Partnerships:

Co-locating Agricultural + Solar Energy Production for a Sustainable Future (Arabah / Arava region)



THANK YOU!

To learn more, please visit:

www.TheSolarFarm.org



