



CURENT Overview

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Knoxville, Tennessee



Northeastern



Rensselaer

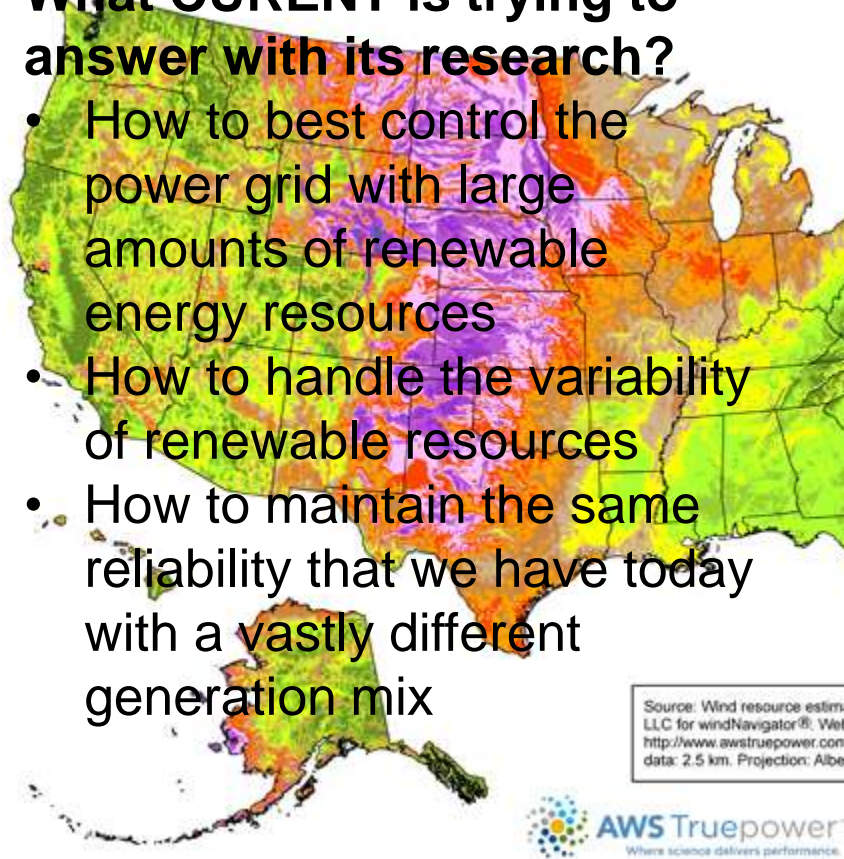
TUSKEGEE

U.S. renewable resources vs. population

Wind Resources in U.S.

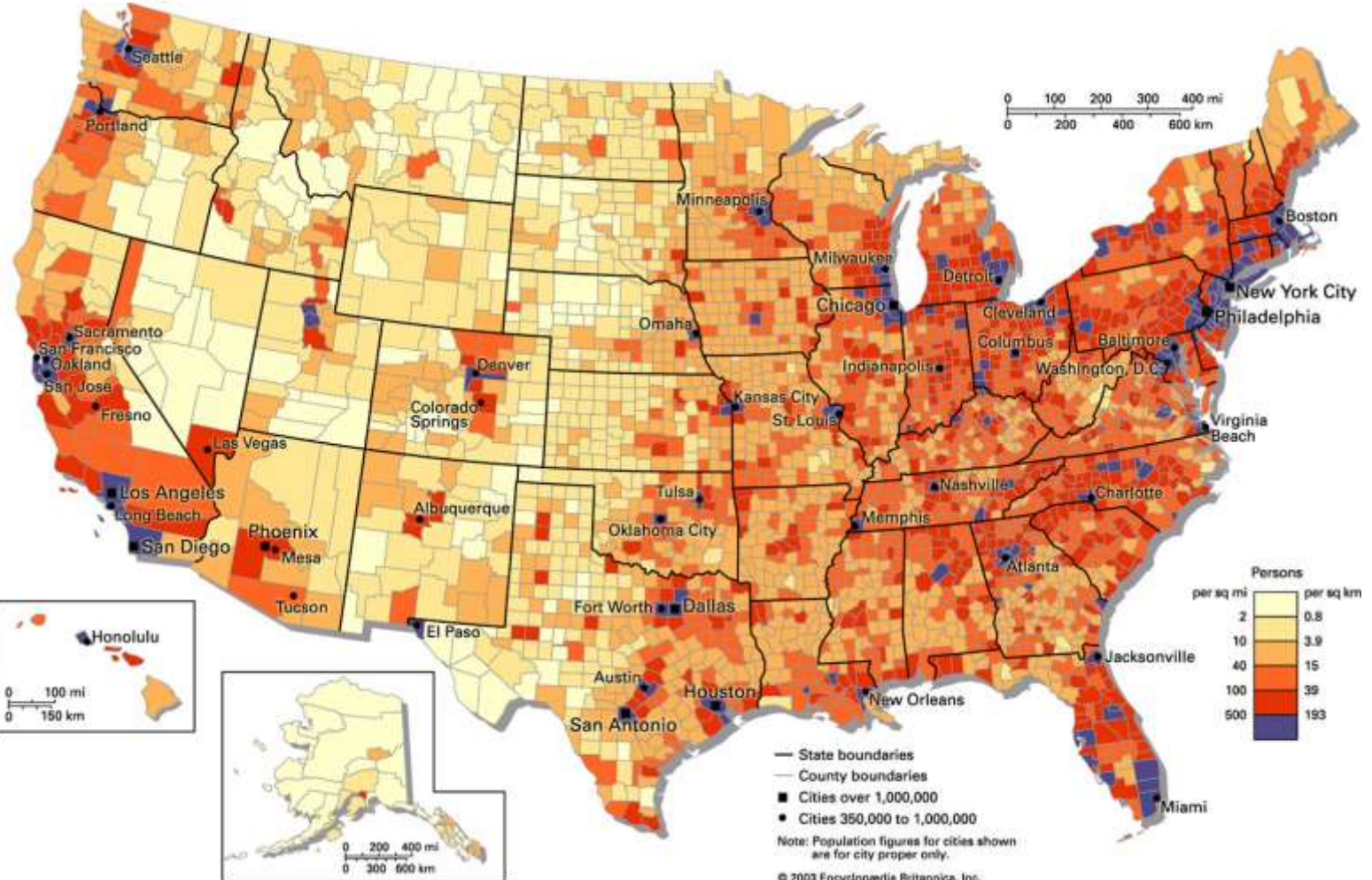
What CURENT is trying to answer with its research?

- How to best control the power grid with large amounts of renewable energy resources
- How to handle the variability of renewable resources
- How to maintain the same reliability that we have today with a vastly different generation mix



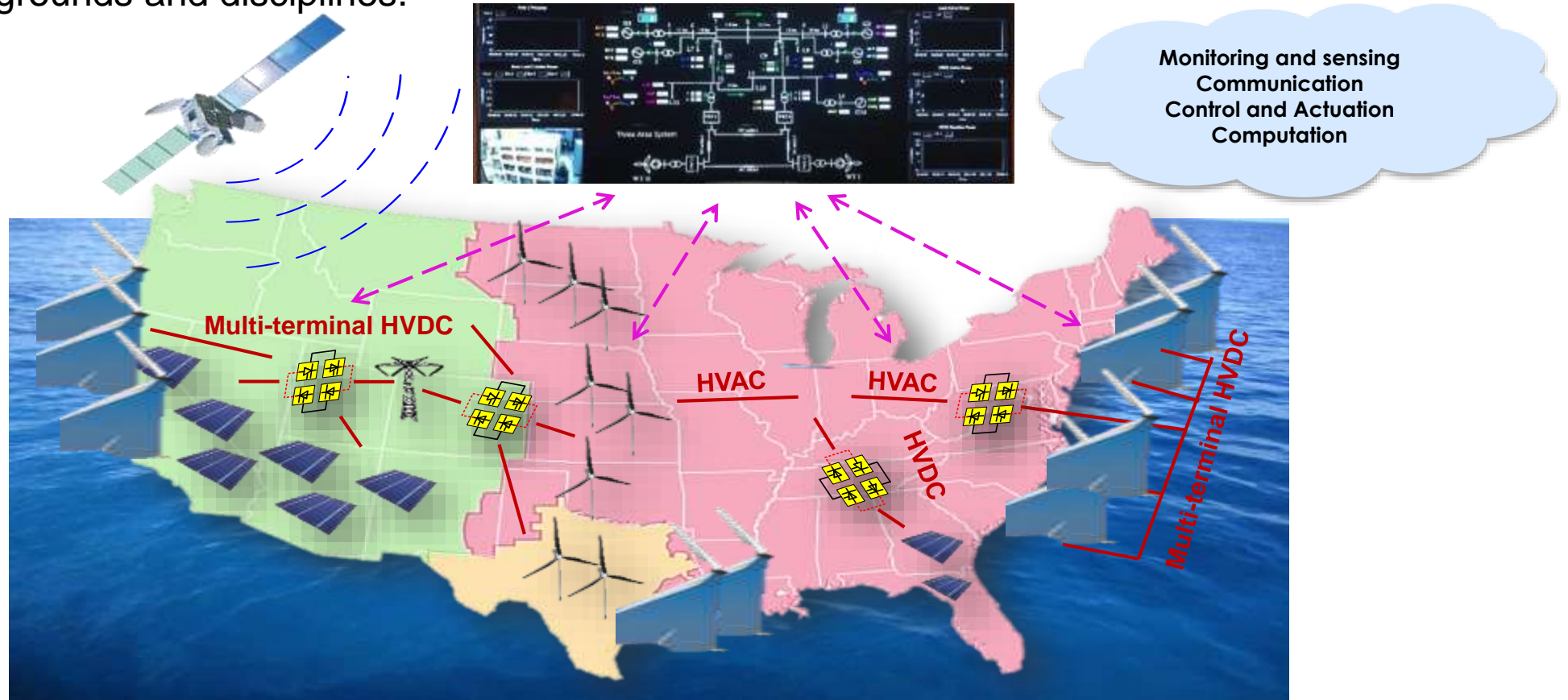
Solar Resources in U.S.

U.S. Population

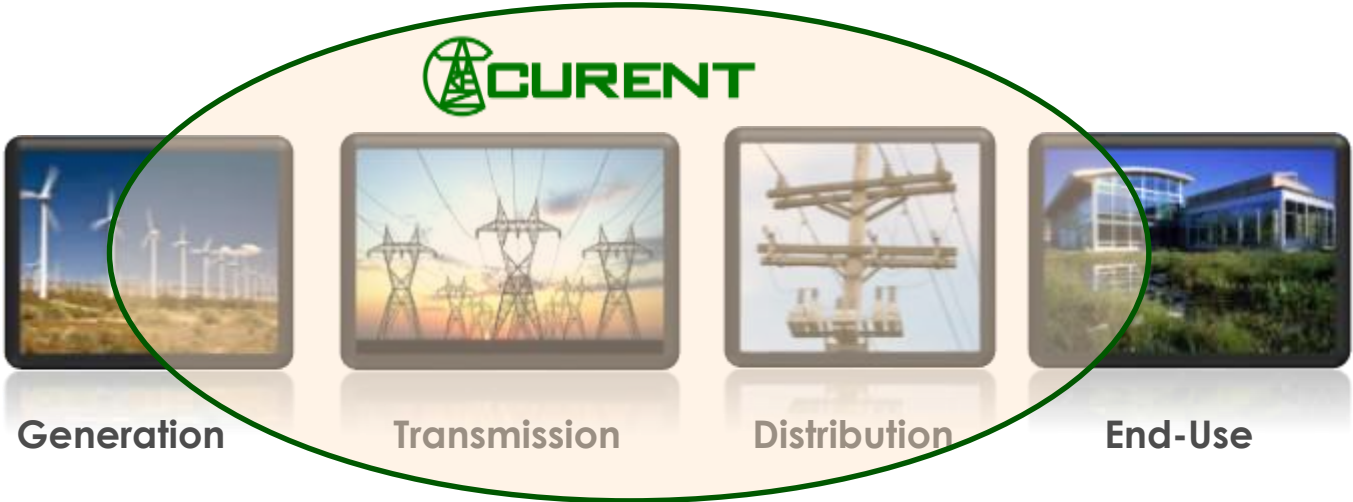


CURRENT Vision

- A nation-wide transmission grid that is fully monitored and dynamically controlled for high efficiency, high reliability, low cost, better accommodation of renewable sources, full utilization of storage, and responsive load.
- A new generation of electric power and energy systems engineering leaders with a global perspective coming from diverse backgrounds and disciplines.



Industry at a Glance



Utilities
RTOs/ISOs



Vendors



Consultants,
Research,
Consortia



Industry Advisory Board



Matthew Gardner
Dominion
Chair



Xiaoming Feng
ABB
Vice Chair



Craig Miller
NRECA
Vice Chair



Goals for Summit

- Interested in learning how other ERCs are approaching sustainability. CURENT is in year 5, so planning for sustainability is a big focus this year.
- Learn more about funding opportunities beyond SECOs. Hopefully, we can go after some of these in the future.
- Marketing and communications best practices from other ERCs that we can adopt.

Acknowledgements



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