

## Center for Global Public Safety Industry Stakeholders' Forum

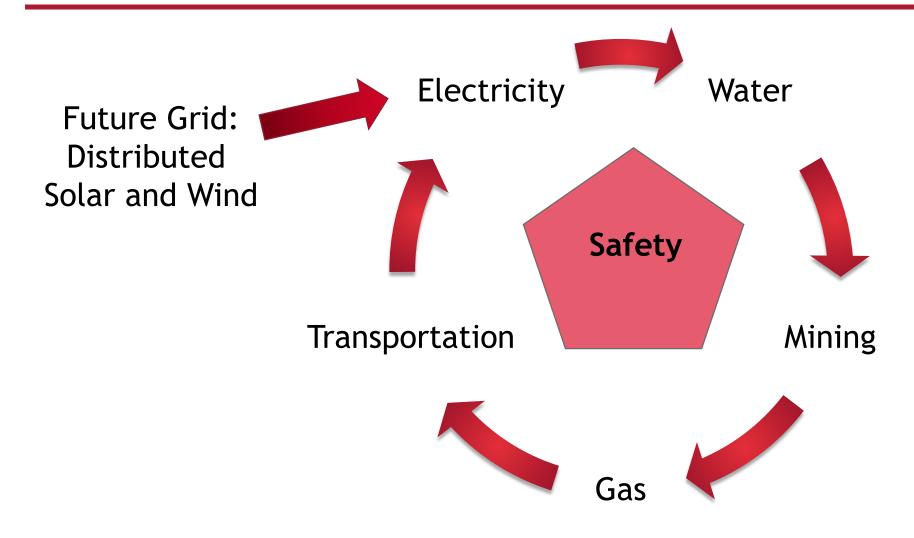
Perspectives on Energy

Michael Ahern March 27, 2019

#### Perspectives on Energy

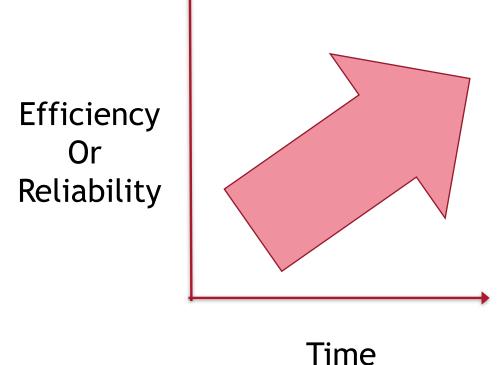
Who would agree with me that Energy Systems Enable our Lives?

#### Interdependence of Energy Systems



#### Research on Energy Systems

Since they are both essential and interdependent, research is being conducted on many fronts to improve their efficiency and reliability



### My Research: Power Grid Cybersecurity

One Defense Advanced Research Projects Agency (DARPA) Initiative is called RADICS - Rapid Attack Detection, Isolation and Characterization Systems

#### **RADICS** includes:

- Enhanced Situational Awareness systems;
- Ability to create new, isolated networks to speed restoration; and
- 3. Forensic systems to detect and characterize the power grid malware.

\*Source: U.S. Department of Defense, Defense Advanced Projects Agency, Program Information, online at: https://www.darpa.mil/program/rapid-attack-detection-isolation-and-characterization-systems

#### WPI Energy Research Group

Now, it's my pleasure to introduce . . .

Mike Timko

Professor of Chemical Engineering

And

Chair, WPI Energy Research Group

# Thank you

