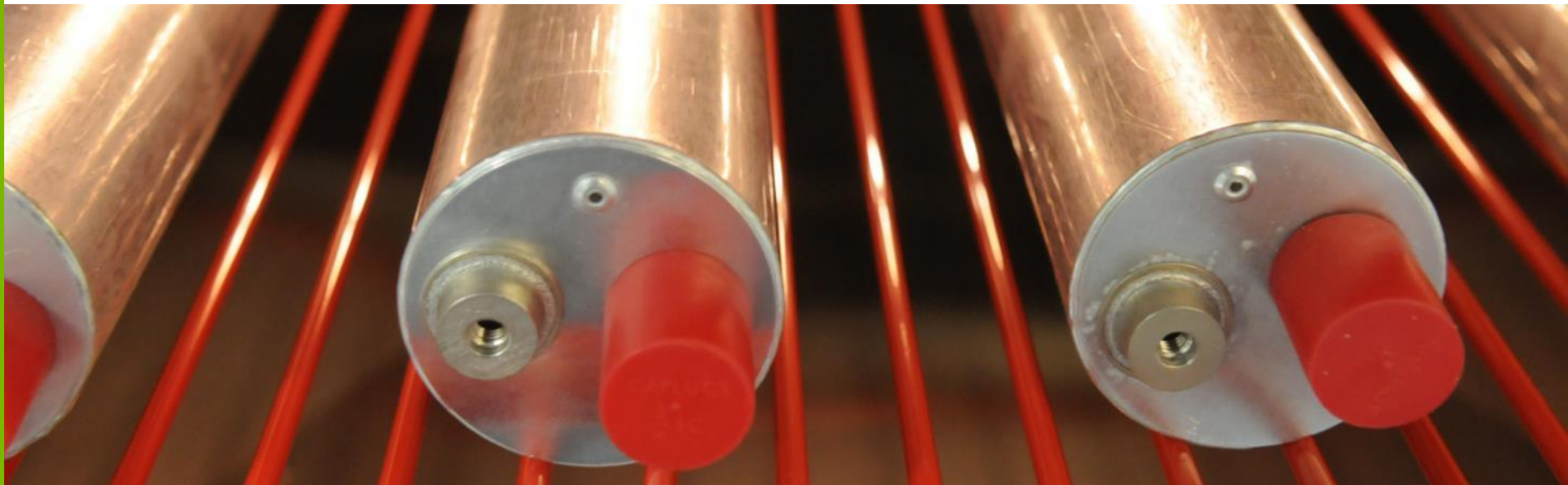


WELCOME – ENERGY STORAGE CONFERENCE



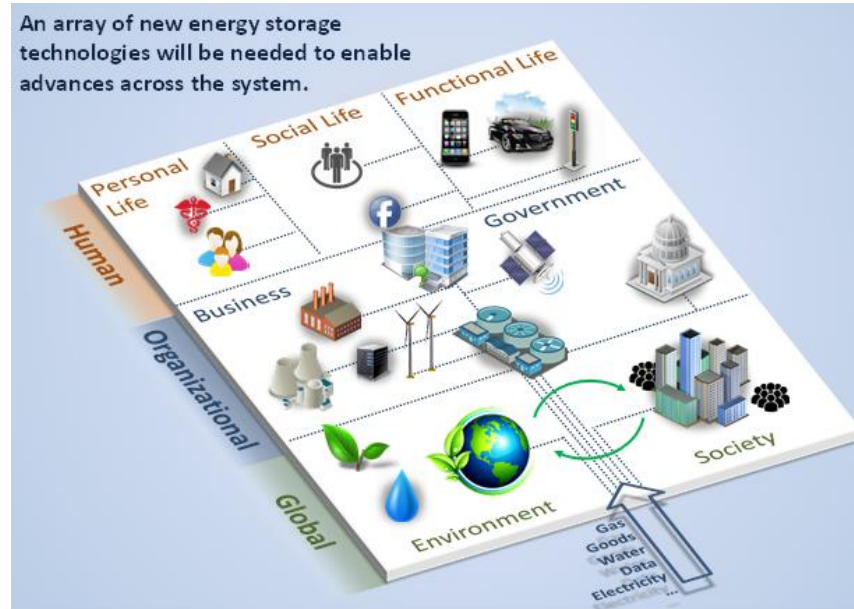
AL SATTELBERGER

Deputy Laboratory Director for Programs & Chief
Research Officer

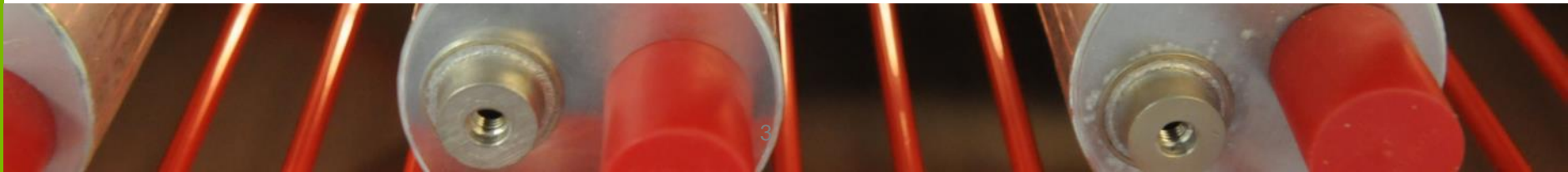
August 31, 2016

Argonne 
NATIONAL LABORATORY

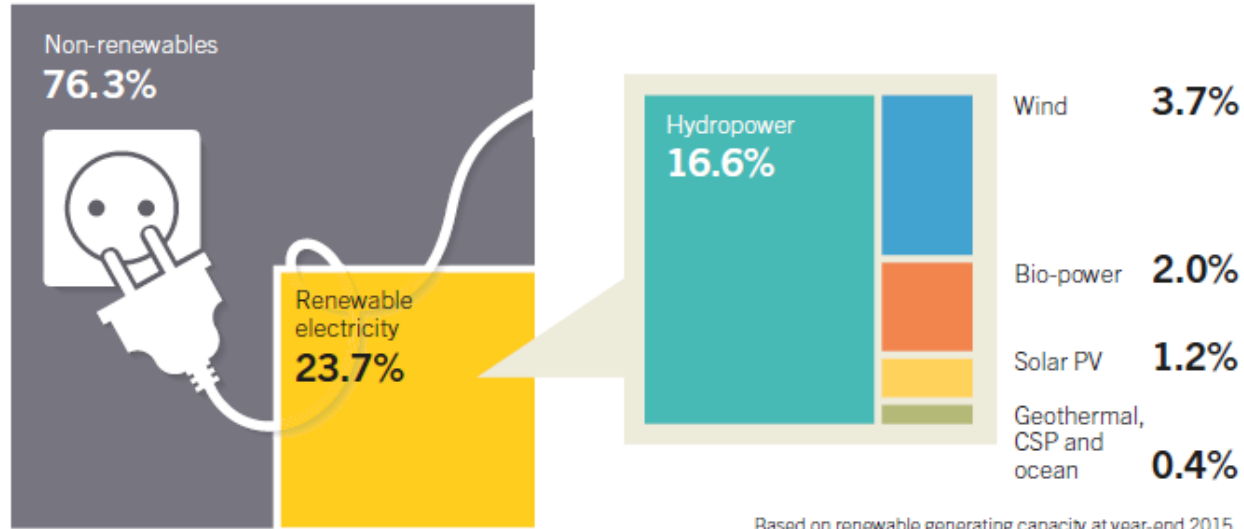
The new reality: Multiple sectors are moving from separate markets into one interconnected system.



An interconnected, *energy intensive* system:
Computing/data are the most rapidly growing
component of energy consumption, now
accounting for about 6% of global energy.



At the same time, renewables continue to force decentralization of energy production.

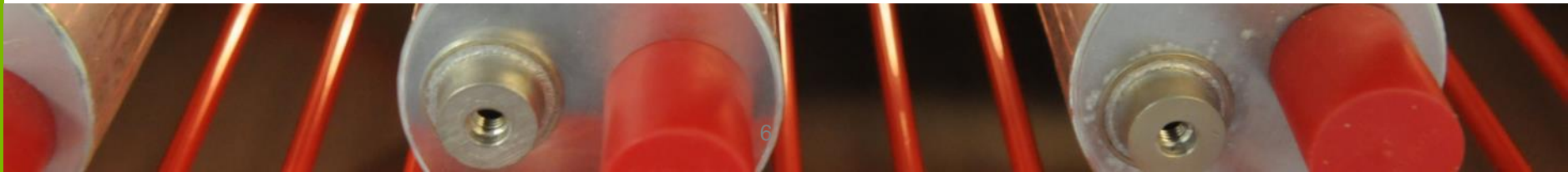


Based on renewable generating capacity at year-end 2015.
Percentages do not add up internally due to rounding.

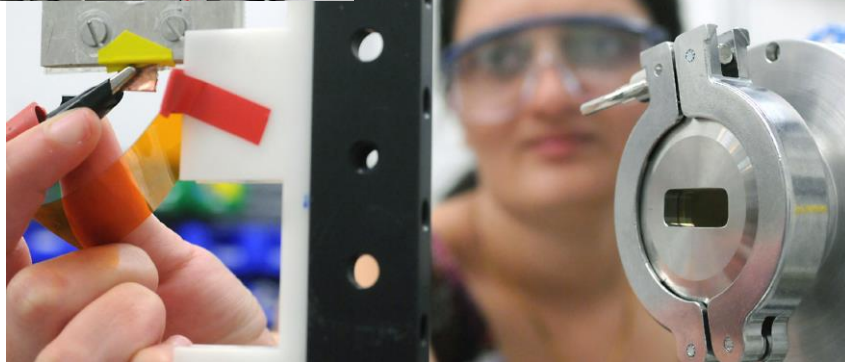
Simultaneous growth in the Internet of Things and use of renewables will enable entirely new markets and systems.



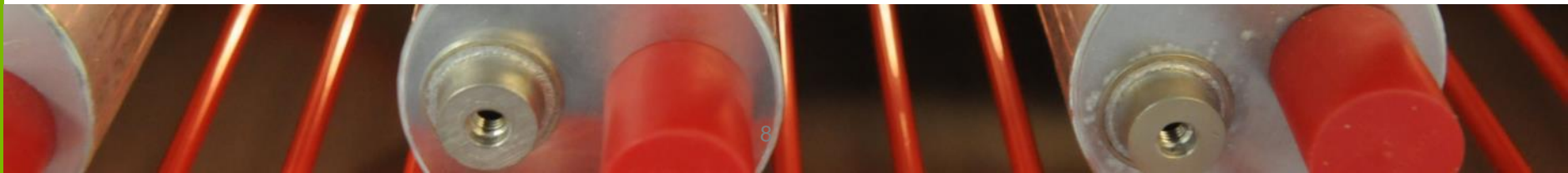
Integrating energy storage into these new systems requires not only technological leaps but also policy, regulatory, and business case innovations.



That's what Argonne does.



Customer-directed markets for energy solutions
will be driven by performance, not cost.



Only a combination of technology, regulatory and marketplace perspectives will produce solutions to meet the challenge.



THANK YOU

