









The Internet allows information to flow to anyone from anywhere.

The Energy Internet is a vast network that will allow efficient distribution of electricity to anyone and from anywhere.

EI will utilize smart sensors, ICT technologies and algorithms to facilitate power supply in real-time, enhance storage applications, and integrate renewable energy into the grid.

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Energy Internet is an online marketplace that transacts in energy (One-to-One, One-to-Many and Many-to-One)

0-to-0: Between individual users for bilateral transactions

O-to-M: One electric utility sells to Many customers

M-to-O: Many customers sell to One electric utility

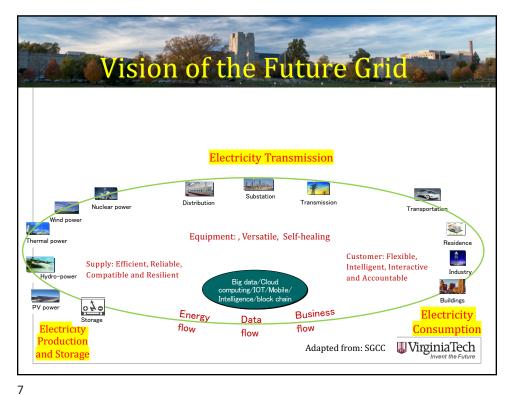


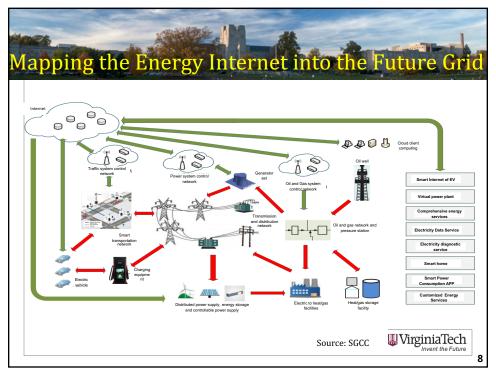


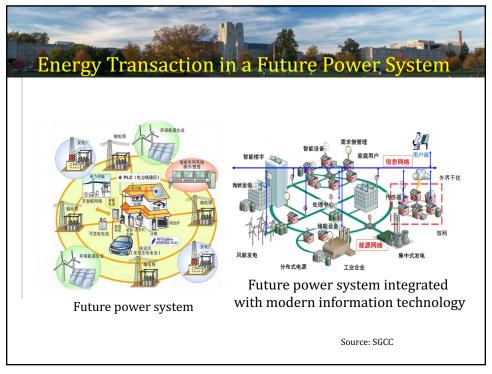
But in the Energy Internet:

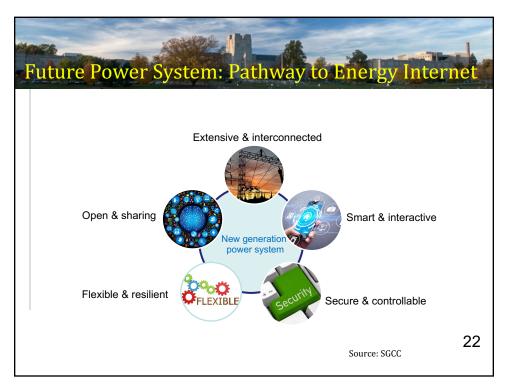
All transactions must be done in real-time All network constraints must be met

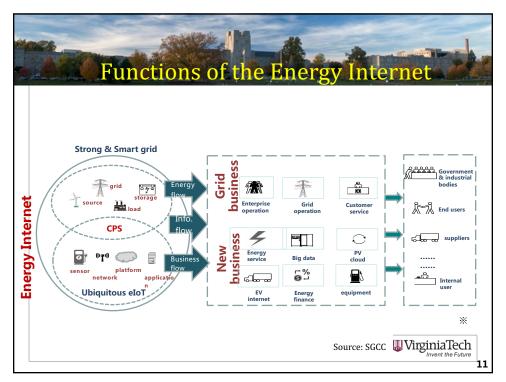


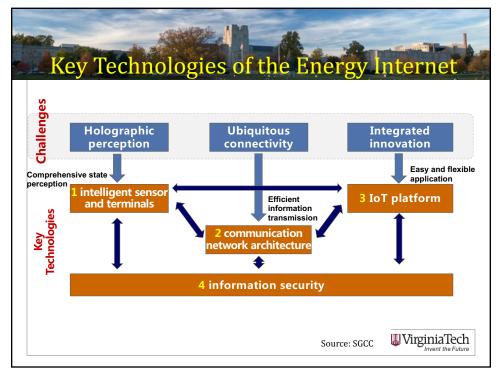


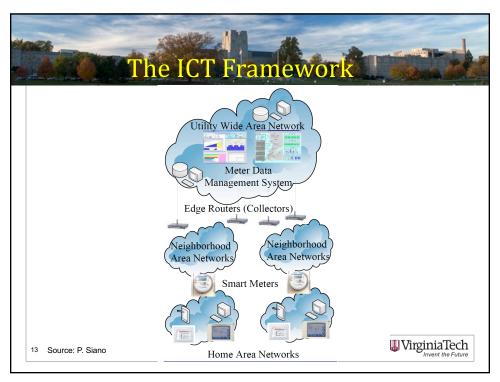


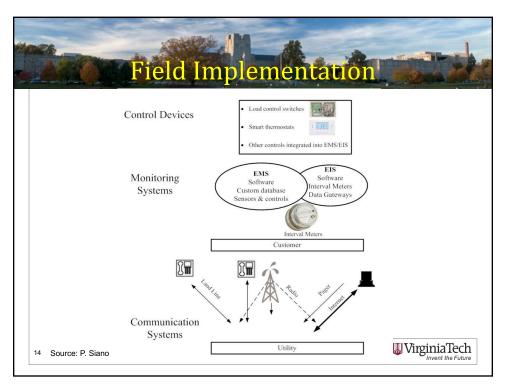


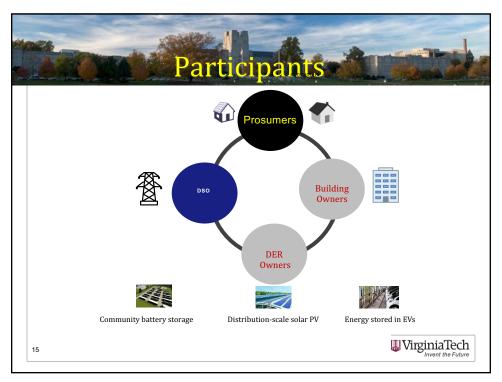


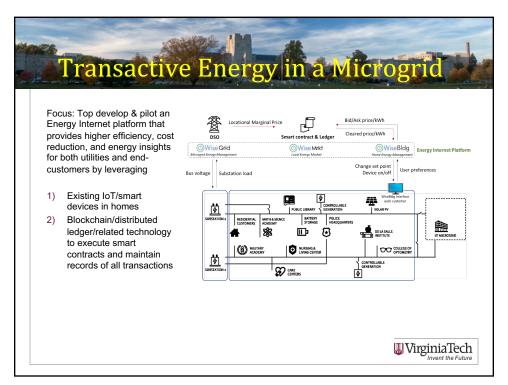


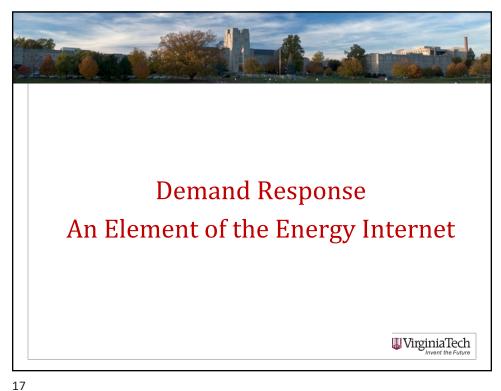


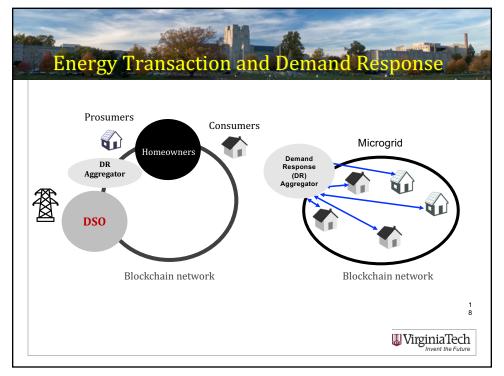














The aim of Demand Response (DR) is to make the load an active participant in balancing electricity supply and demand around the clock via side-by-side competition with supply-side resources.

DR allows loads curtailment in response to changes in the price of electricity over time, or to incentive payments designed to induce lower electricity use at times of high wholesale market prices or when system reliability is at risk (using direct control by the utility or ancillary services markets).

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