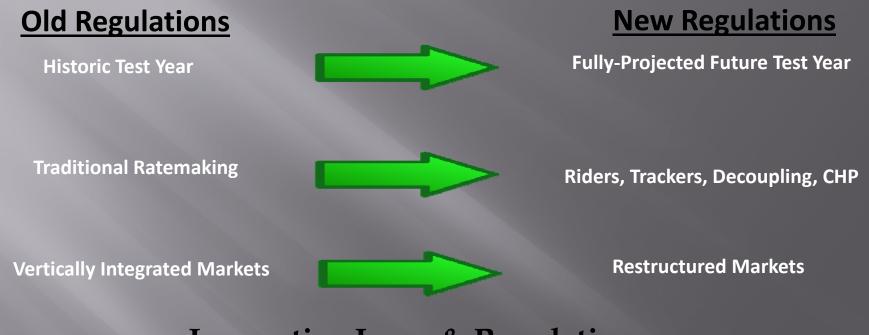
THE FUTURE OF REGULATION



Commissioner Robert F. Powelson Pennsylvania Public Utility Commission

July 23, 2016

A Story of Dynamic Regulation: A Pennsylvania Case Study



Innovative Laws & Regulations

Distribution System Improvement Charge (DSIC)

Marcellus Shale Gas Drilling Impact Fees

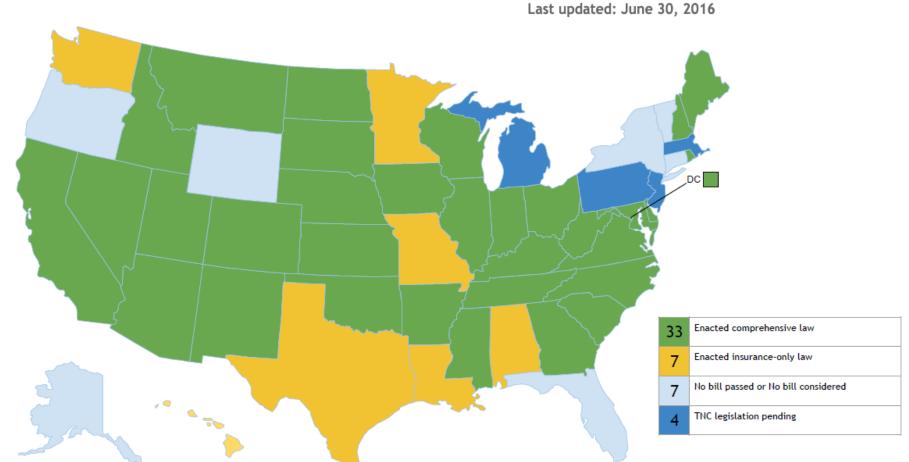
Experimental Authority Operating Certificates for Transportation Network Companies (TNCs)

Driving Forces of Innovation

Driving Force	Innovation
Motor Carrier Competition	Transportation Network Company (TNC) Regulation
Rail Incidents with Crude Oil Shipments	Enhanced Rail Transportation Safety
San Bruno and Allentown Pipeline Explosions	Accelerated Pipeline Replacement and Safety Initiatives
Hurricane Sandy, Polar Vortex, Derecho	Grid Upgrades and Modernization
Increased Customer Interest in Energy Usage Information	Smart Meter Technology

Transportation 2.0

TNC Laws - State by State



*TNC Legislation adopted in PA only applies to the City of Philadelphia

Advancing Pipeline Replacement and Safety

Lessons Learned

San Bruno, Allentown, Texas Eastern Pipeline in Delmont

Increased Emphasis on Pipeline Safety

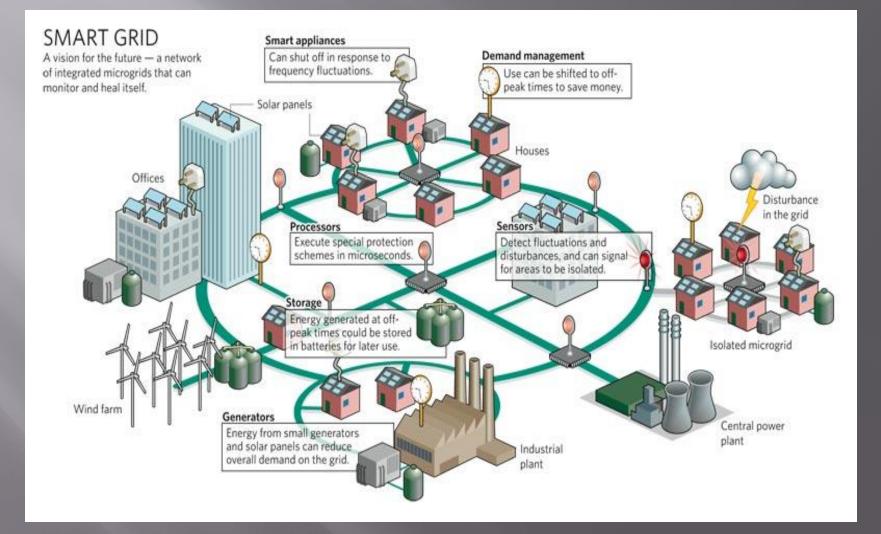
Maintain the protective adequacy of pipeline safety regulations
✓ Reauthorization of the Pipeline Safety Act

✓ East Coast PHMSA Safety Training Facility

Enhanced Infrastructure

 Ensure that necessary resources are available for permitting, planning, and inspection

Smart Grids



Looking to the Future: Disruptive Trends

Energy Storage

Beacon Power Flywheel Energy Storage Facility in PA

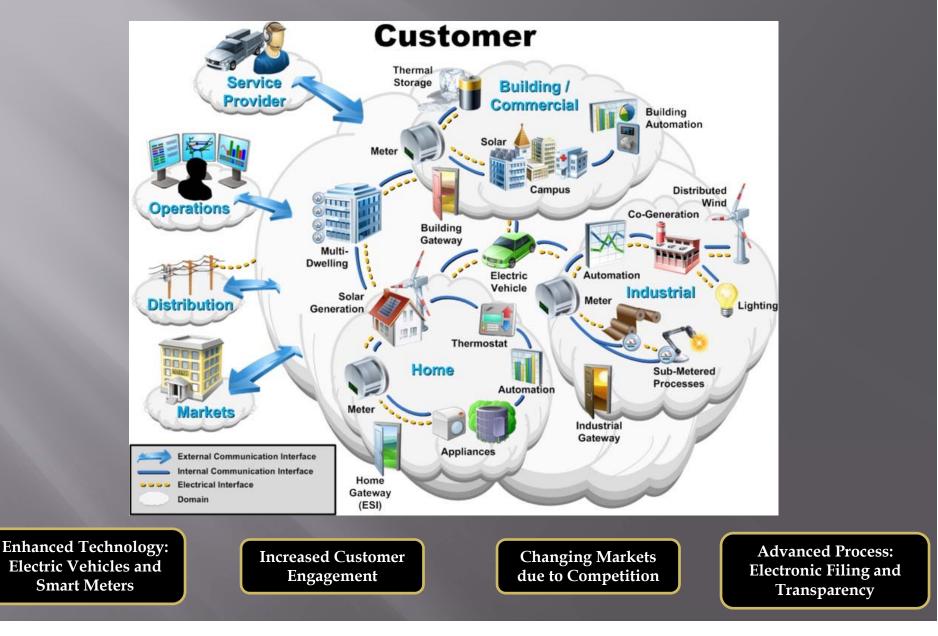
Microgrids

PECO Microgrid Pilot Project in PA

Data Analytics/Internet of Energy

 Opower, C3, Oracle, Aclara, Harris, Siemens/eMeter, Silver Spring Networks and others

A Vision for the Future



THANK YOU