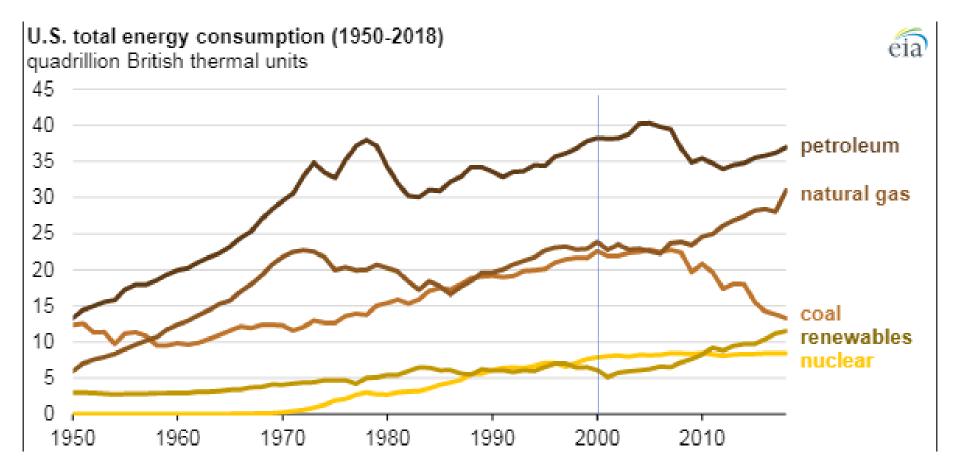
WEST VIRGINIA

ENERGY IN TRANSITION

James Wood Interim Director, Energy Institute West Virginia University

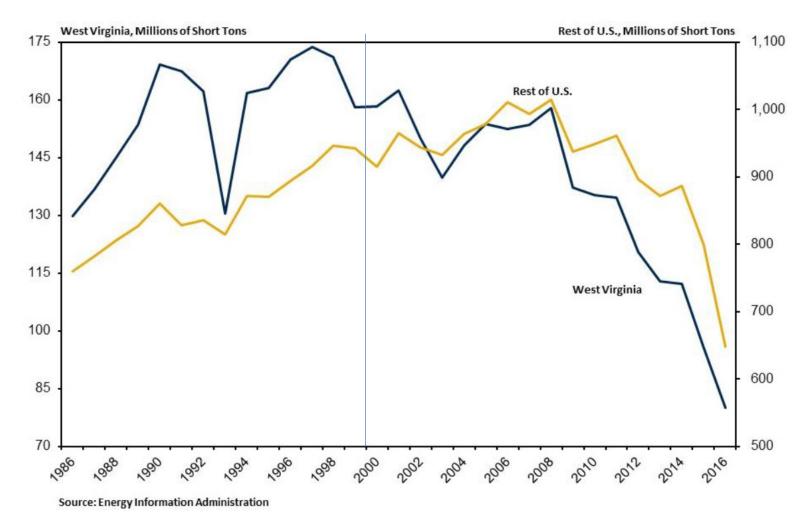




Source: U.S. Energy Information Administration







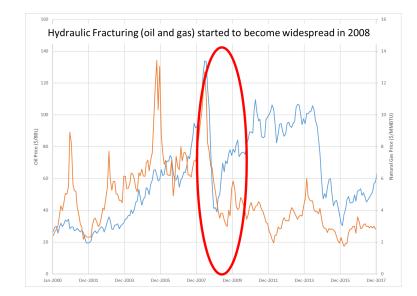
West Virginia University.

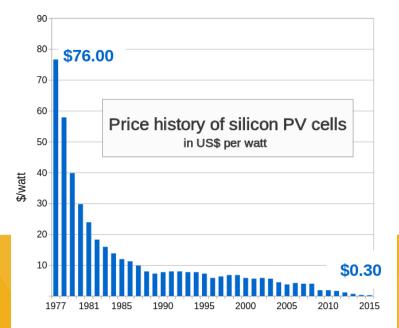
THE IMPACT OF TECHNOLOGICAL CHANGE

We are often slow to understand the impacts of transformational technological change.

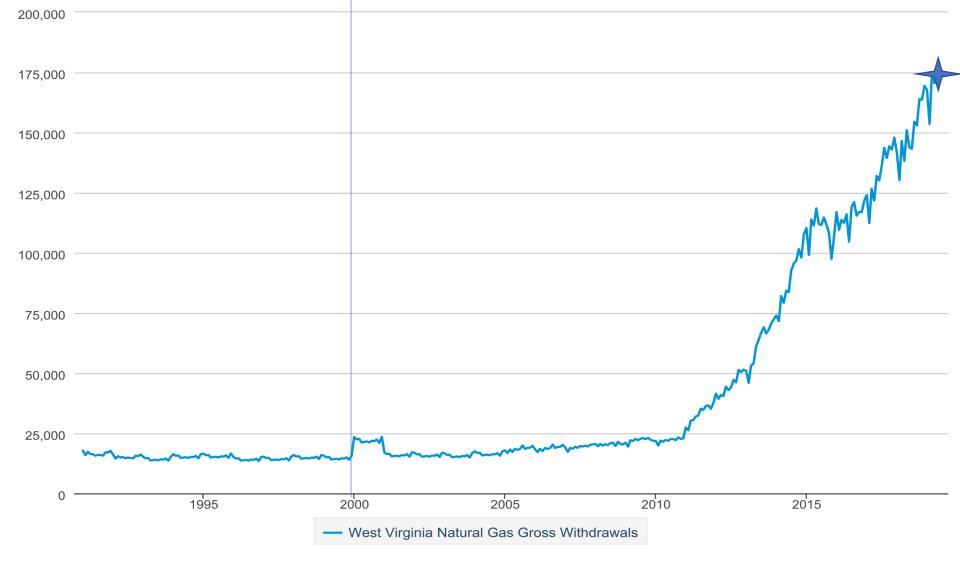
In this decade, we are seeing changes in both fossil and renewable power that were unthinkable in the early 2000s.







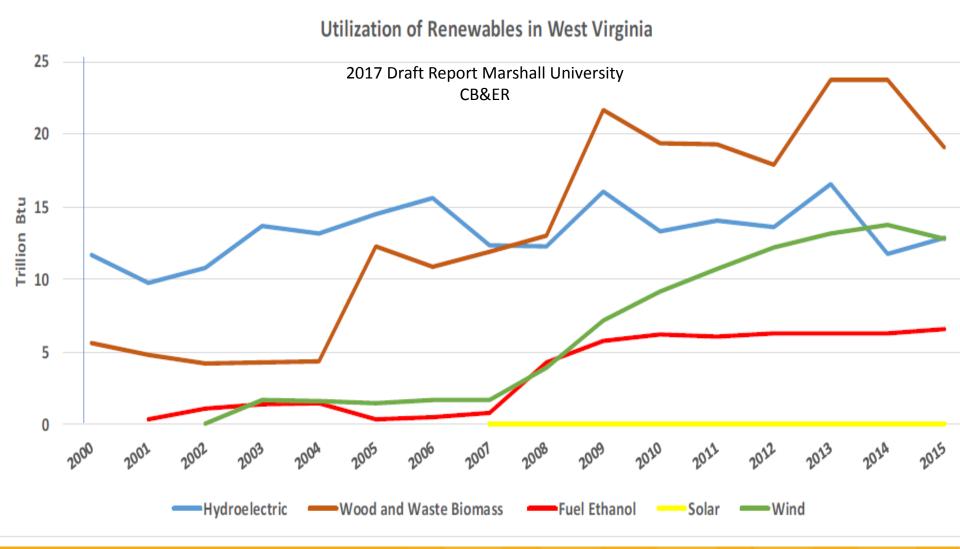
Source: Bloomberg New Energy Finance & pv.energytrend.com





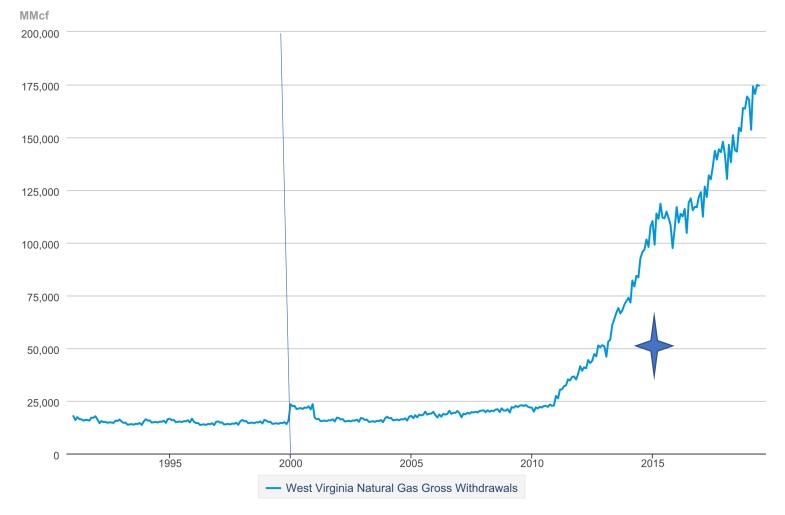
eia Source: U.S. Energy Information Administration





West Virginia University.

Natural Gas Gross Withdrawals and Production





Source: U.S. Energy Information Administration

West Virginia University.

WVU ENERGY INSTITUTE

- Understand the trends in energy and energy technology
- Play a relevant role in expanding WVU research in the energy sector with special focus on environmental remediation (overall WVU research goal \$60 MM by 2025)
- Promote economic development
- Play a role in expanding WV energy labor force



LEADERSHIP



James Wood Interim Director



Paul Ziemkiewicz Water



Trina Wafle Program Development and Research Services



Samuel Taylor Strategic Partnerships and Technology



Richard Bajura International Outreach





Rare Earth Oxide from AMD

Water Quality Monitoring

• Brownfields Redevelopment



BROWNFIELDS REDEVELOPMENT





Programs supported by this program include Downtown Appalachia, BAD Buildings, Mon River Towns, and Technical Assistance



DEVELOPMENT & RESEARCH SERVICES

- Analytical Laboratory Services
- Program
 Development



 National Alternative Fuels Training Consortium





STRATEGIC PARTNERSHIPS & TECHNOLOGY

- Marcellus Shale Energy & Environmental Energy Laboratory (MSEEL)
- Energy Geosciences
- The Nature Conservancy





OUR NEWEST PARTNERSHIP



INTERNATIONAL OUTREACH

- U.S. China Clean Energy Research Center-Advanced Coal Technology Consortium
- U.S. China Energy Center
- International Collaboration: Iceland; Colombia; China; Israel, India, Paraguay; Japan; Mexico





OUR PARTNERS

- Federal and state agencies
- West Virginia communities
- Industry
- Government labs
- Universities



STATE EXAMPLES

- Governor's
 Downstream
 Jobs Task Force
- West Virginia
 Forward



• WV DEP – Special Reclamation Fund Advisory Council

West Virginia University.

National Energy Dechoology Faboratory

- Research Partnership to Secure Energy for America
- National Coal Council
- Oak Ridge
 Associated Universities
- Congressional Testimony





THERE'S POWER IN PARTNERSHIP

