The Appalachian Coal Economy

John Deskins, Ph.D.

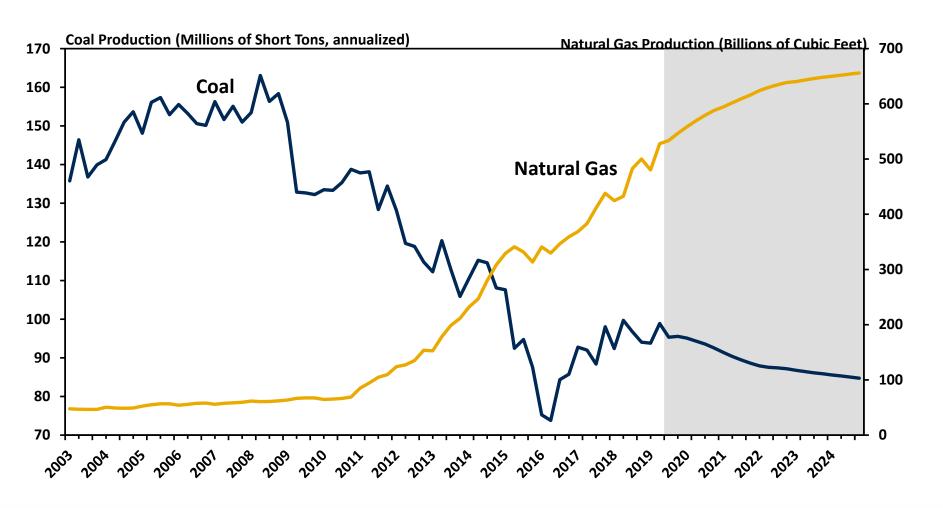
Pittsburgh Coal Conference

Bureau of Business & Economic Research
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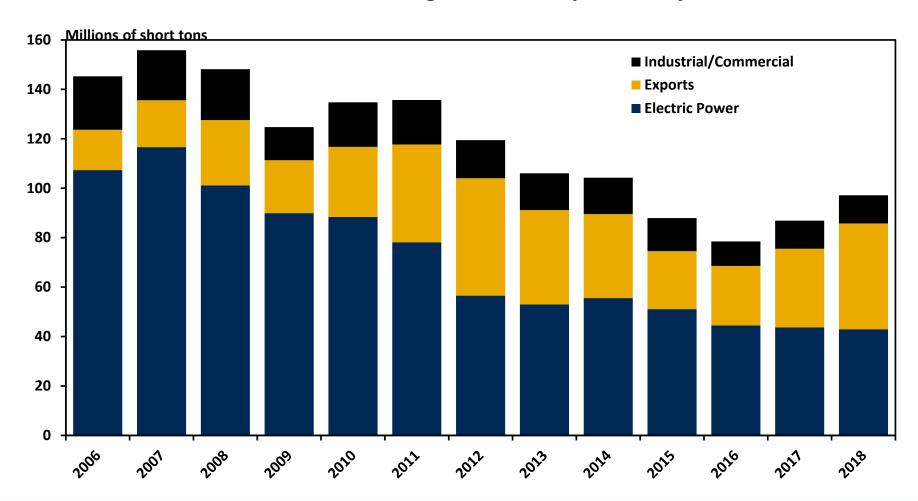
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West Virginia Coal and Natural Gas Output



Distribution of West Virginia Coal Shipments by End User

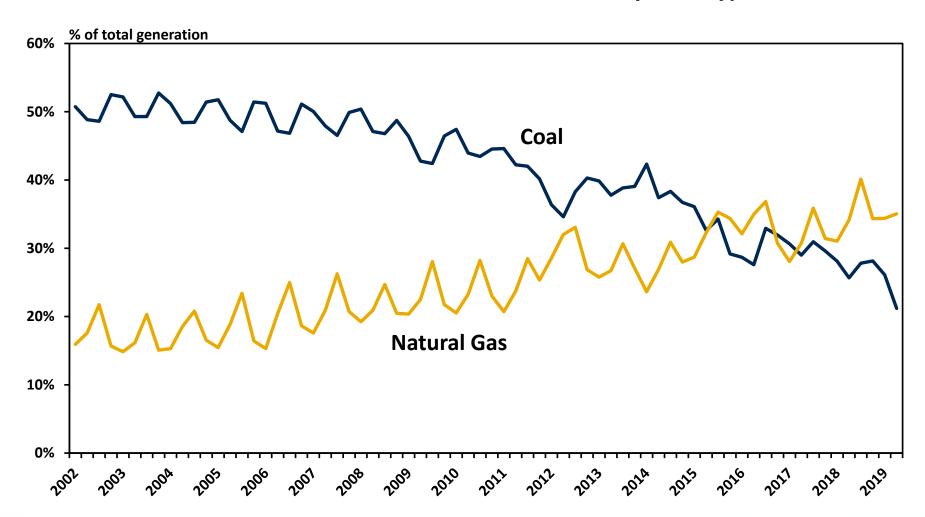




Key Drivers of Decline

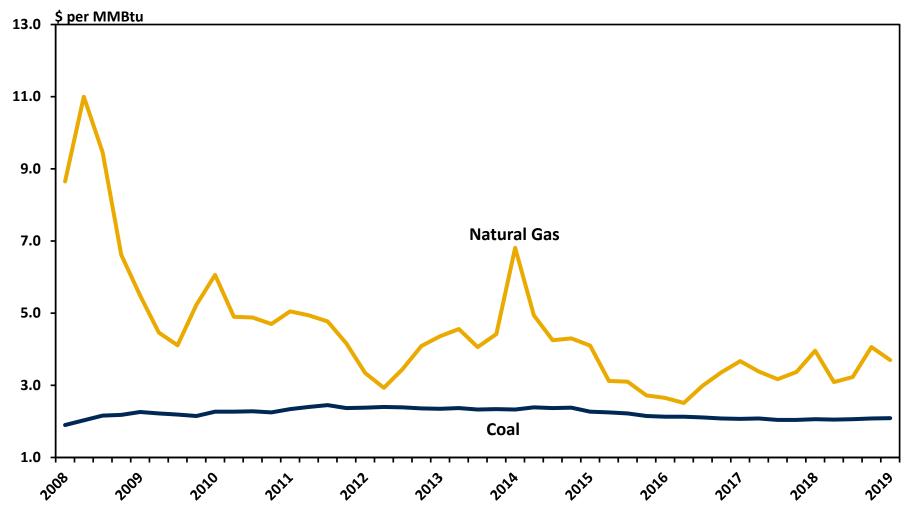
- Environmental Regulatory Climate
- Natural Gas Boom
- International Demand

Share of US Electric Power Generation by Fuel Type





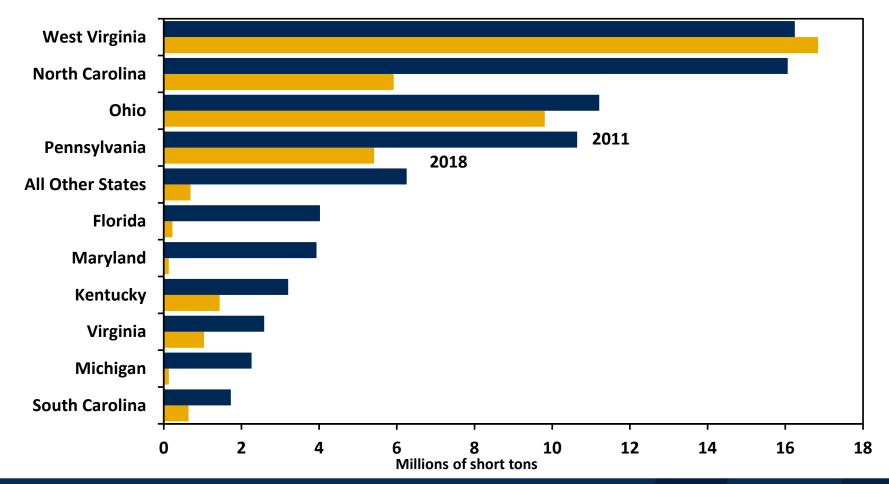
Price of Natural Gas and Coal Paid by Utilities



Source: US Energy Information Administration

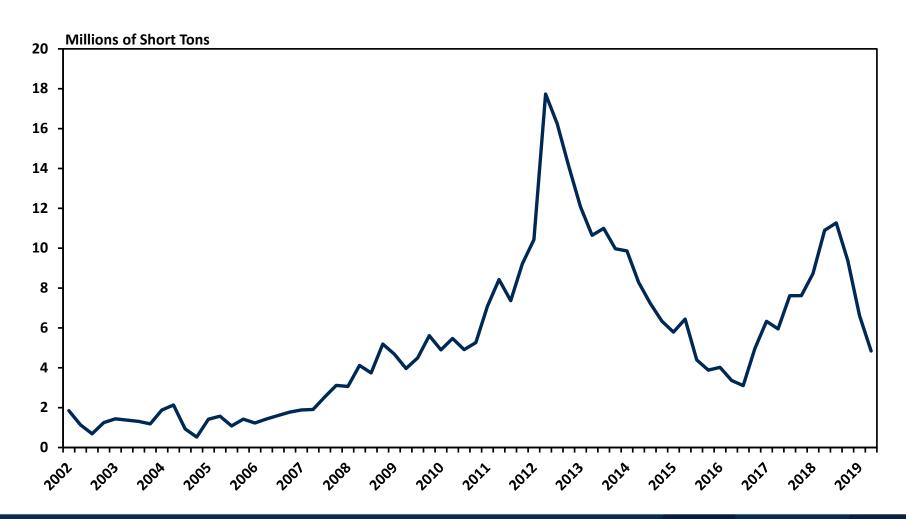


West Virginia Coal Shipments to Electric Power Plants by Destination State



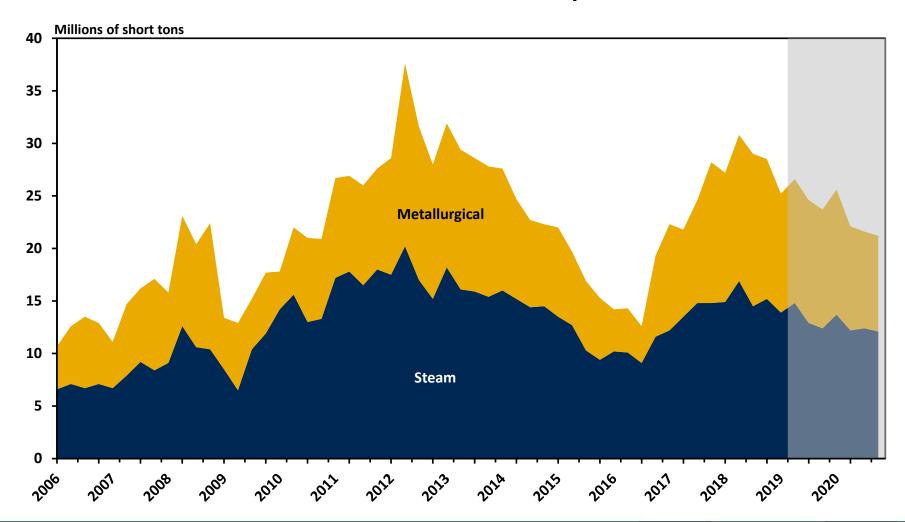


Coal Exports from West Virginia





US Steam and Met Coal Exports





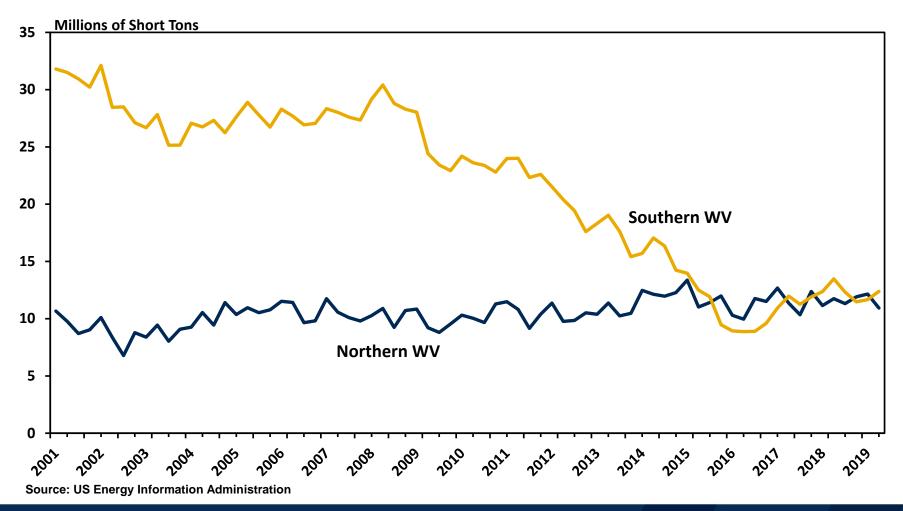
Leading Export Markets for WV Coal

Country	2012	2015	2018
India	4,025	2,976	9,944
Netherlands	6,022	3,690	6,939
Rest of World	12,644	3,641	5,984
Ukraine	1,539	2,459	4,372
Brazil	3,032	2,660	3,374
Morocco	1,710	163	3,187
Italy	4,435	2,039	2,291
Canada	1,674	1,829	1,937
UK	3,552	1,907	1,934
Egypt	336	187	1,768
Turkey	2,787	850	1,561
South Korea	3,227	460	1,180
France	2,503	599	1,139

Note: Figures in thousands of short tons

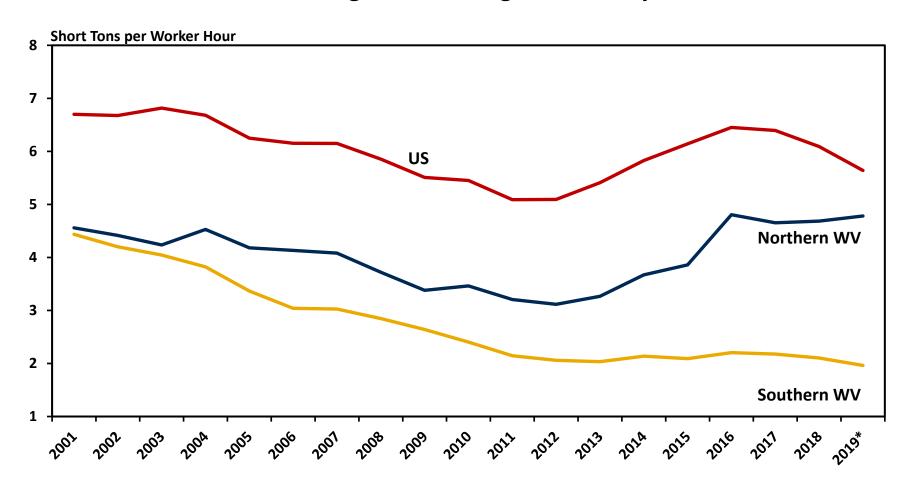


West Virginia Regional Coal Production



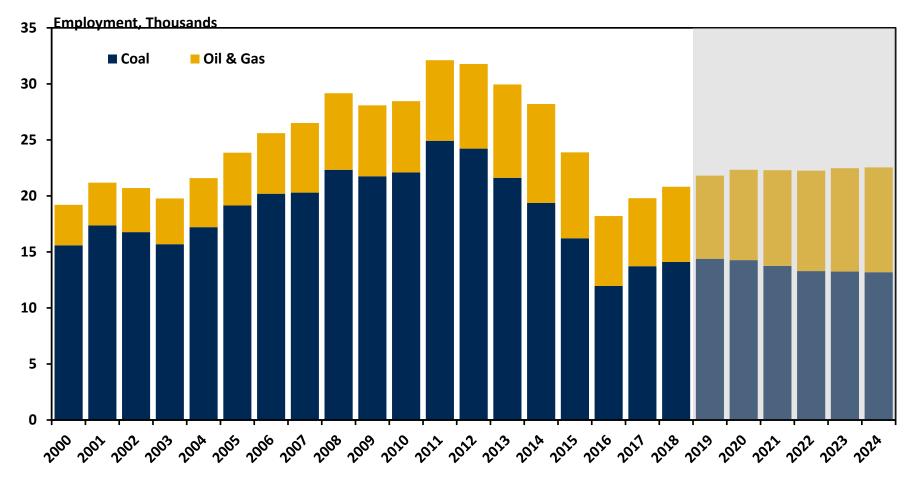


Average Coal Mining Productivity



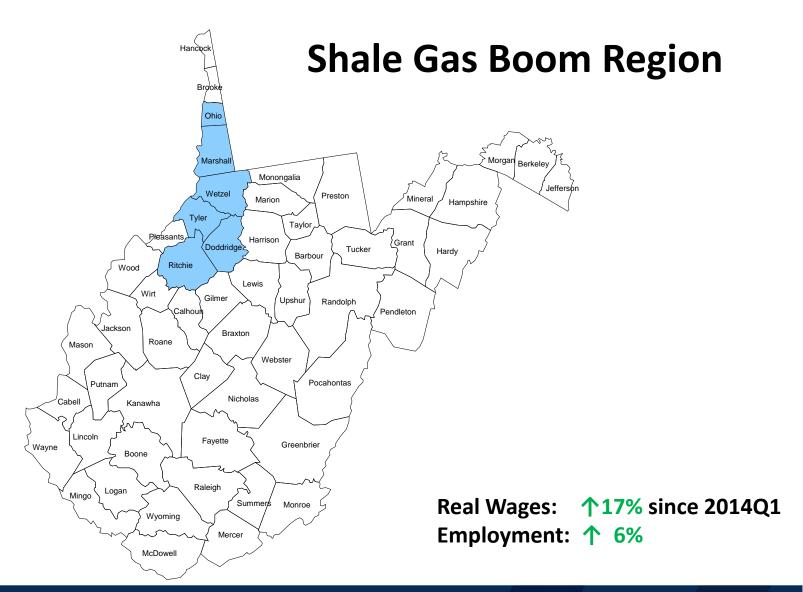


West Virginia Energy Sector Employment

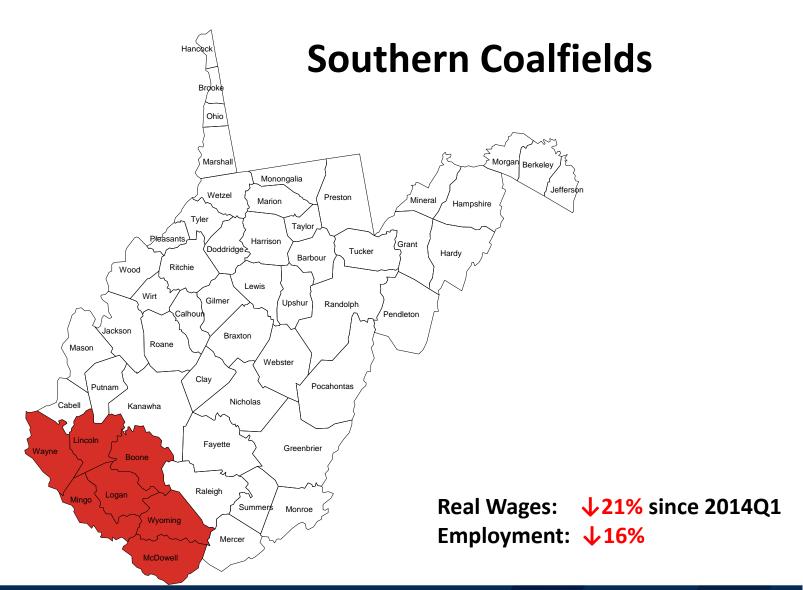


Source: US Bureau of Labor Statistics; WVU BBER Econometric Model



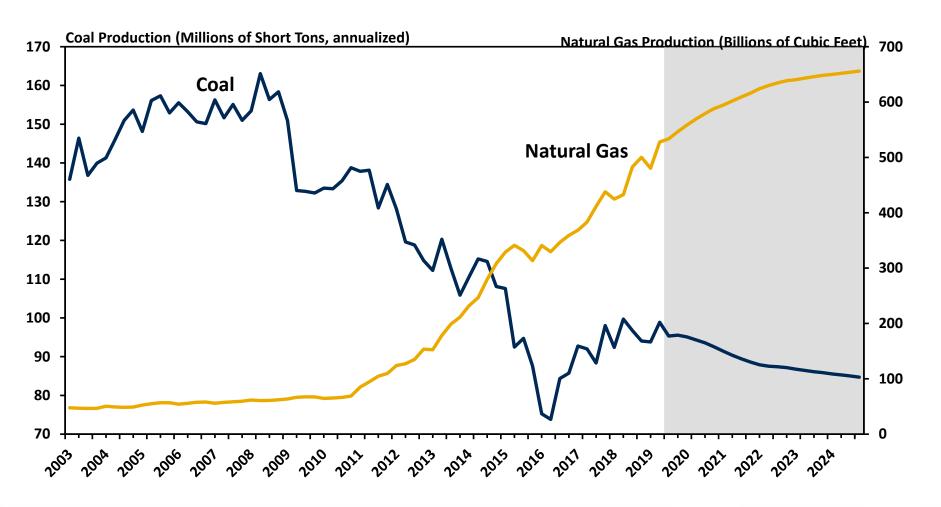






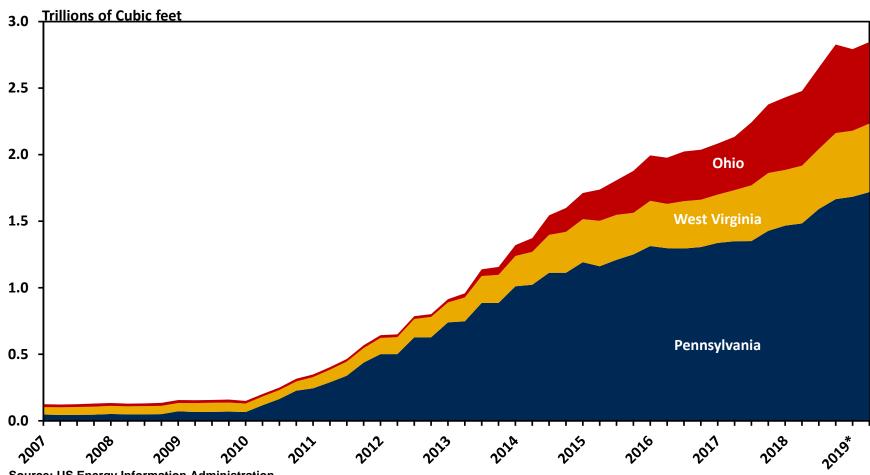


West Virginia Coal and Natural Gas Output





Natural Gas Production In Marcellus/Utica States



Source: US Energy Information Administration *Note: 2019 Q2 Estimated from partial data.

