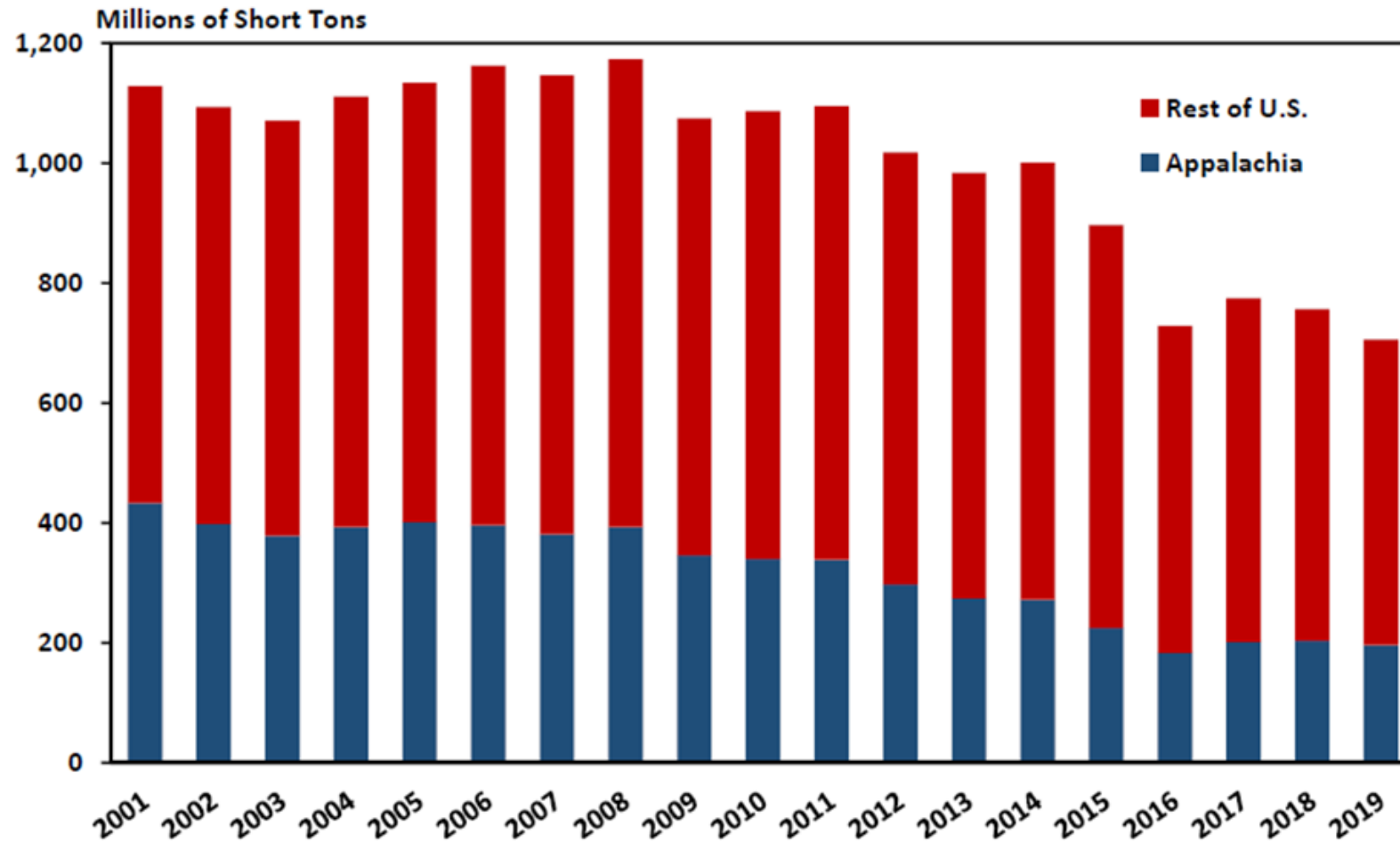




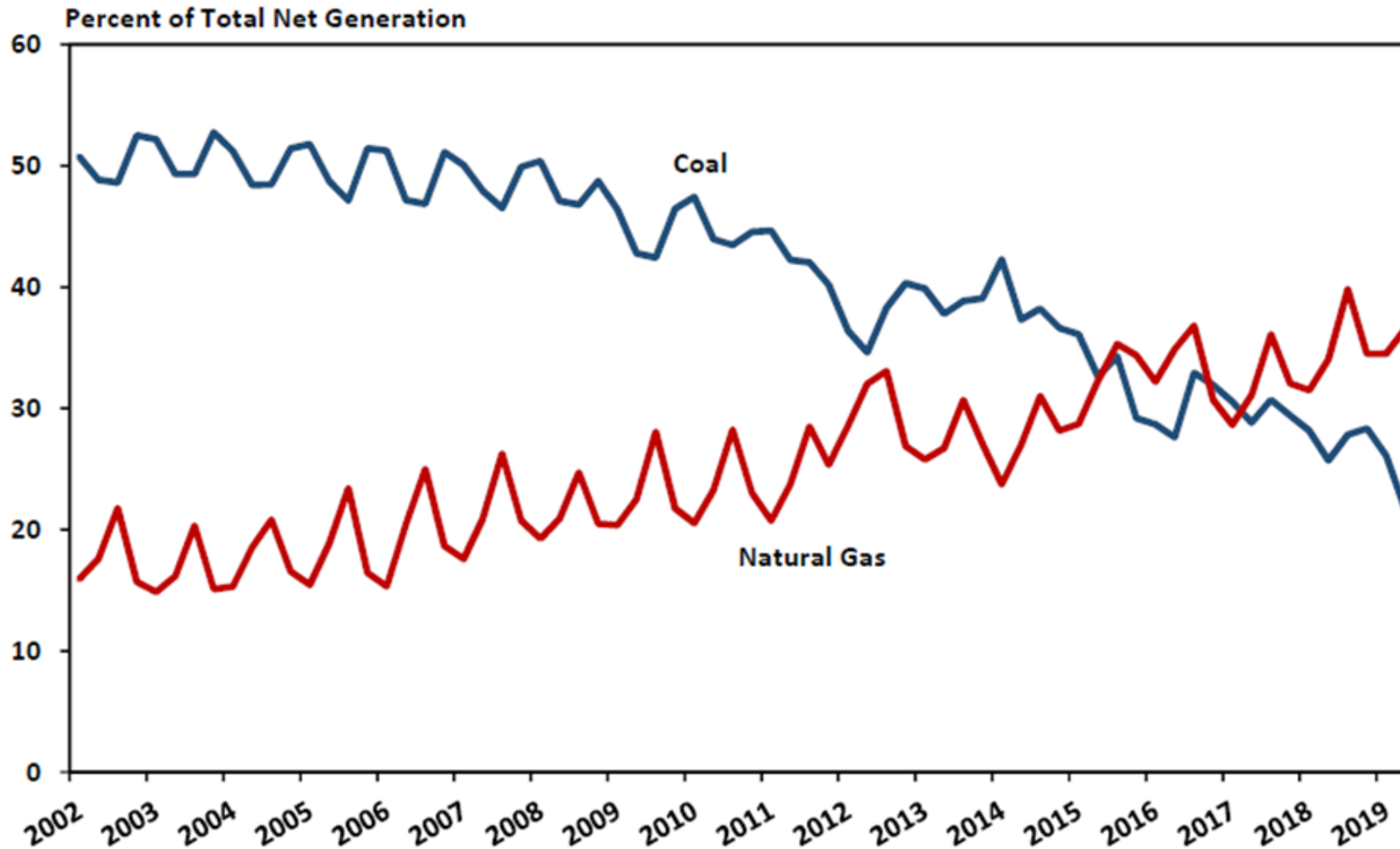
February 2, 2021

Understanding & Demonstrating Coal Impact on POWER Applications

Figure 1: Coal Mining Production, Appalachia and the Rest of United States



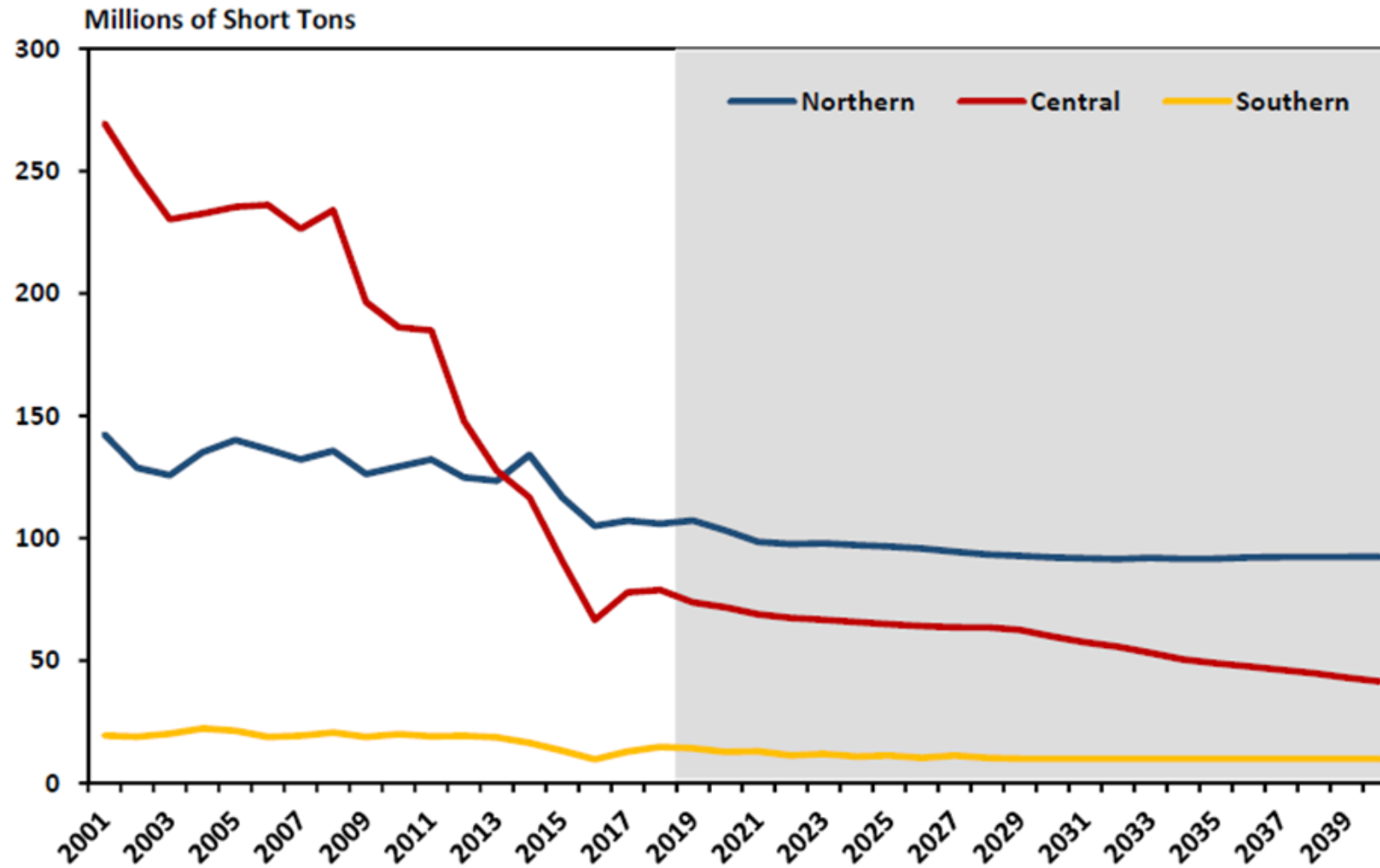
Source: U.S. Mine Safety and Health Administration (MSHA)



Source: U.S. Energy Information Administration (EIA)

Note: Quarterly data.

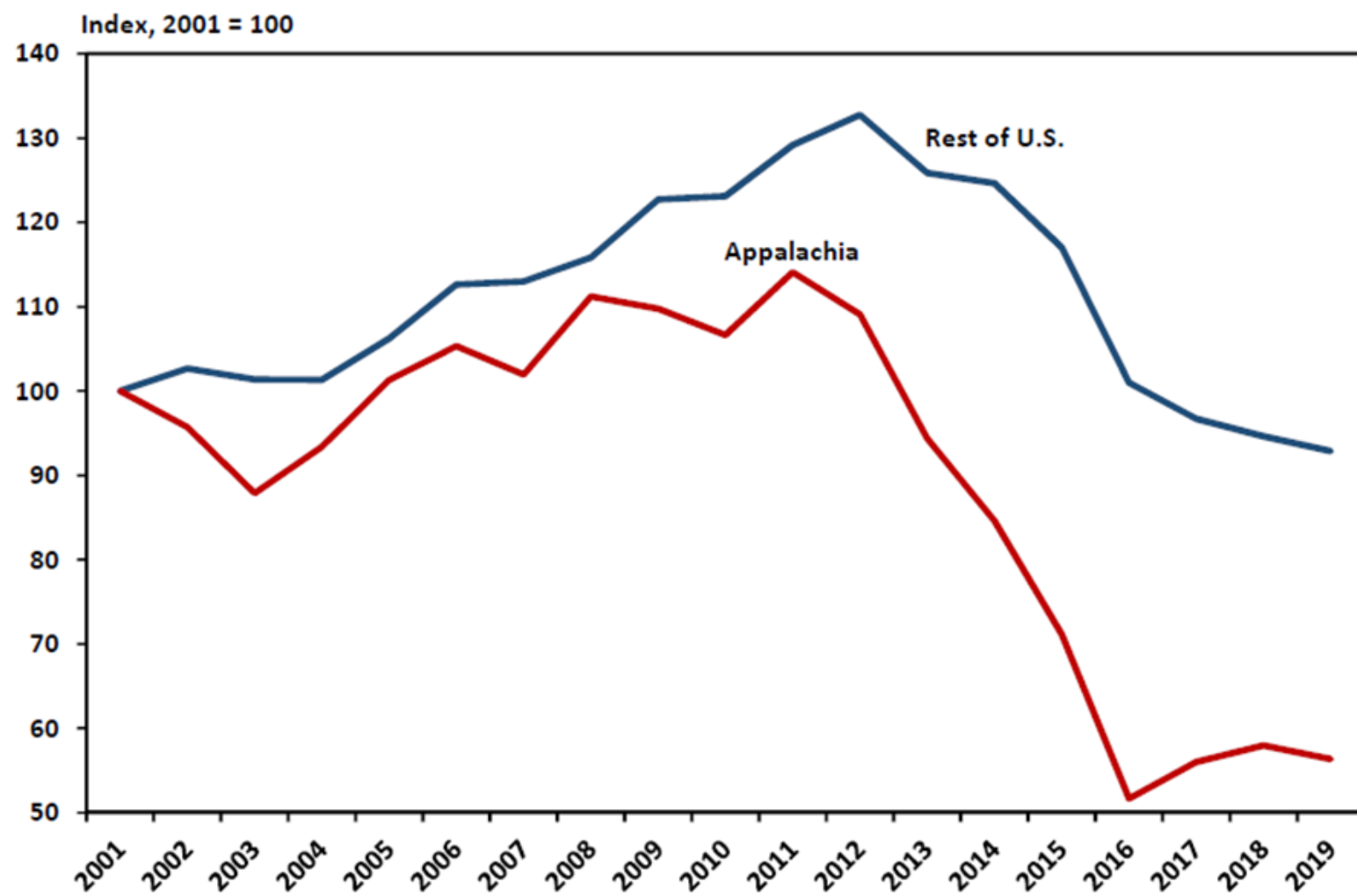
Figure 9: Coal Production Forecast, Individual Appalachian Coal Basins



Sources: U.S. Energy Information Administration; WVU Bureau of Business & Economic Research

Note: Shaded area indicates forecast.

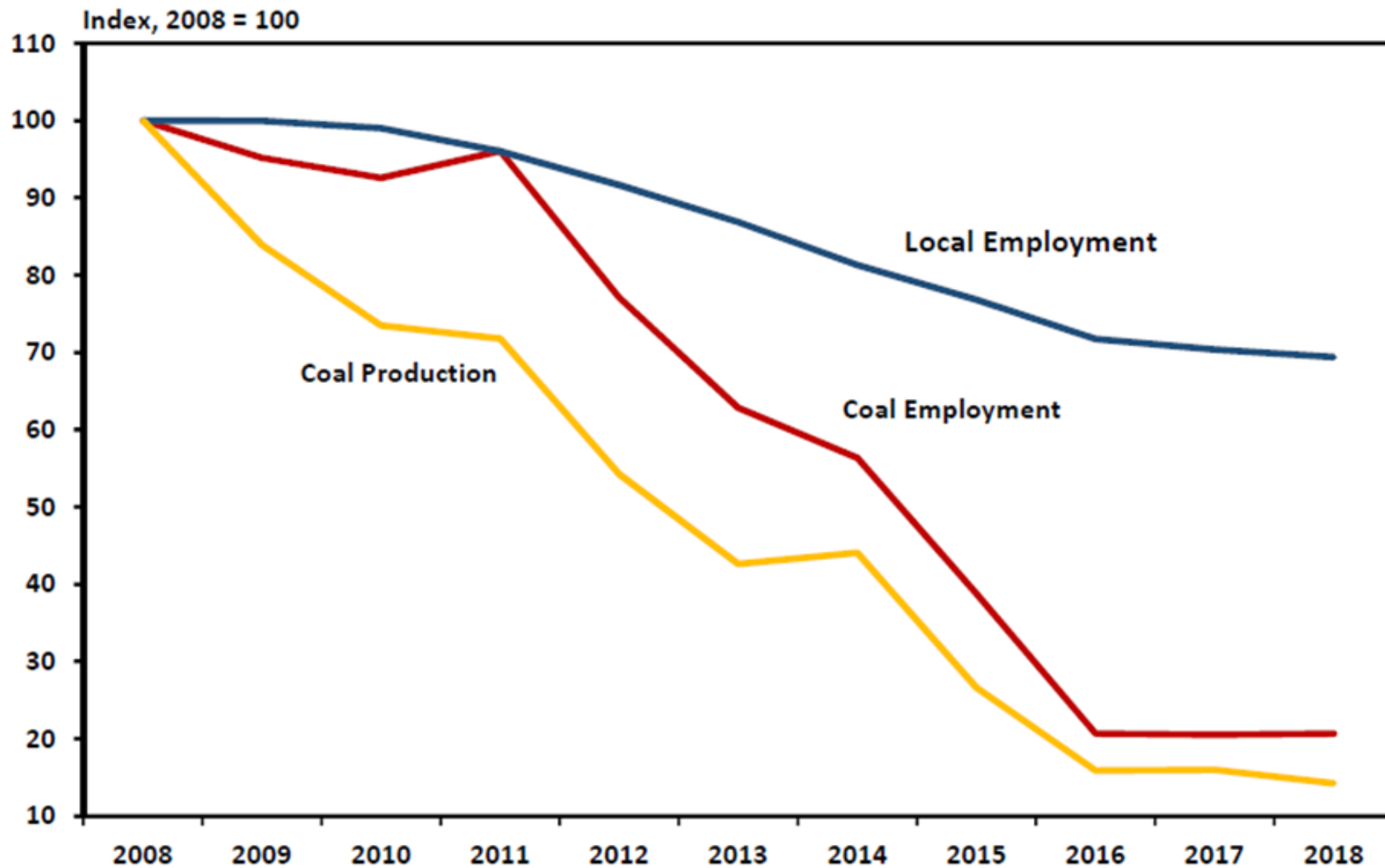
Figure 15: Coal Mining Employment, U.S. and Appalachia



Sources: U.S. Energy Information Administration

Note: 2019 numbers are estimated based on the MSHA's 2019 coal employment data.

Figure 21: Various Economic Performance Metrics—Boone County, West Virginia



Source: U.S. Mine Safety and Health Administration; U.S. Bureau of Labor Statistics

**But I already
know this!**

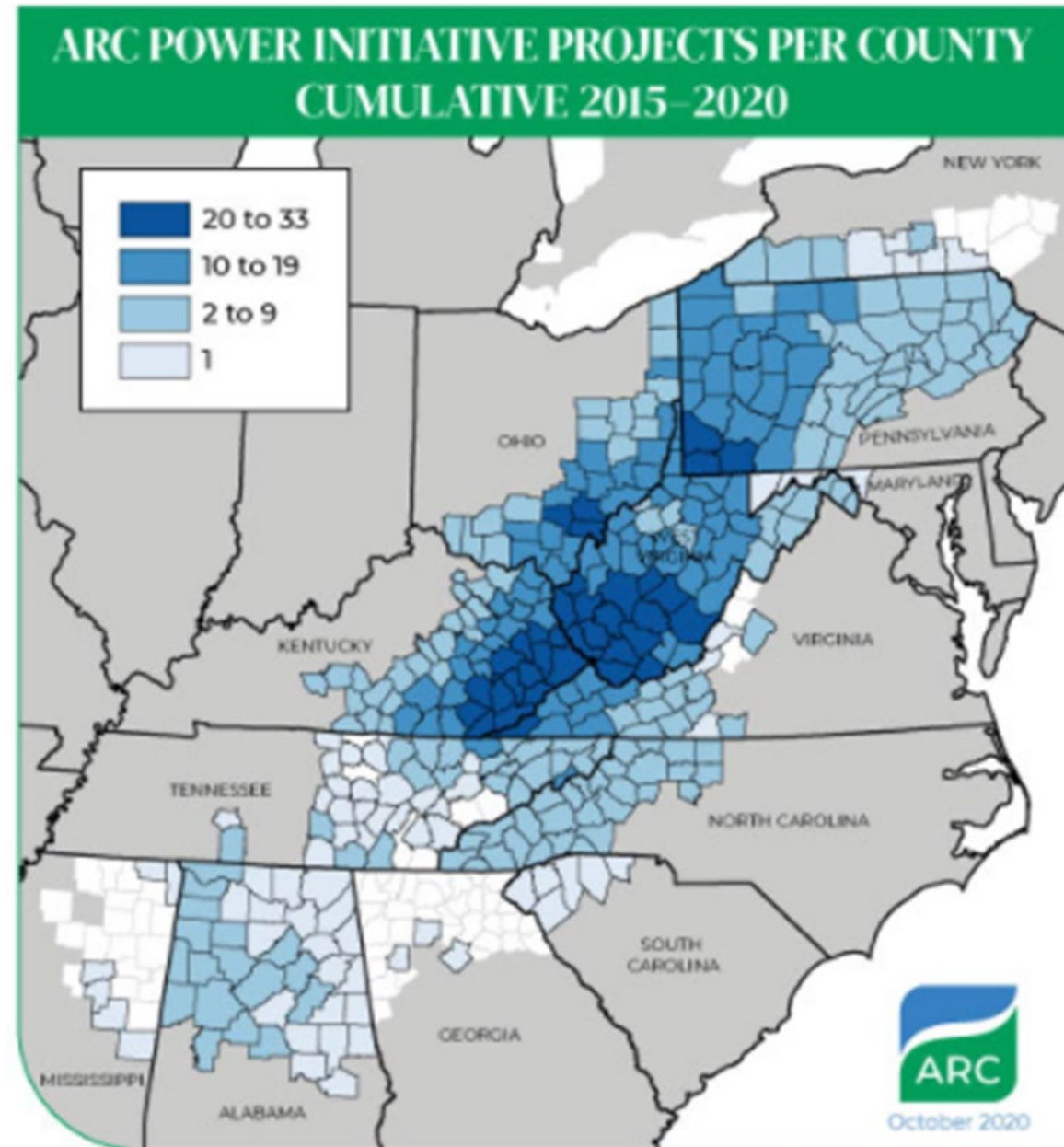
**How do I
demonstrate the
impact the coal
industry has had on
my community?**

Eligibility criteria for POWER

Documentation of Economic Impact Eligible POWER projects must be located within and targeted to communities or regions that **have been recently** impacted, or can reasonably demonstrate that they **will be impacted** in the near future, by **coal-mining** or **coal-power plant** employment loss, or employment loss in the **supply-chain** or logistics industries of either.

**Where have
POWER grants
gone?**

353 counties!



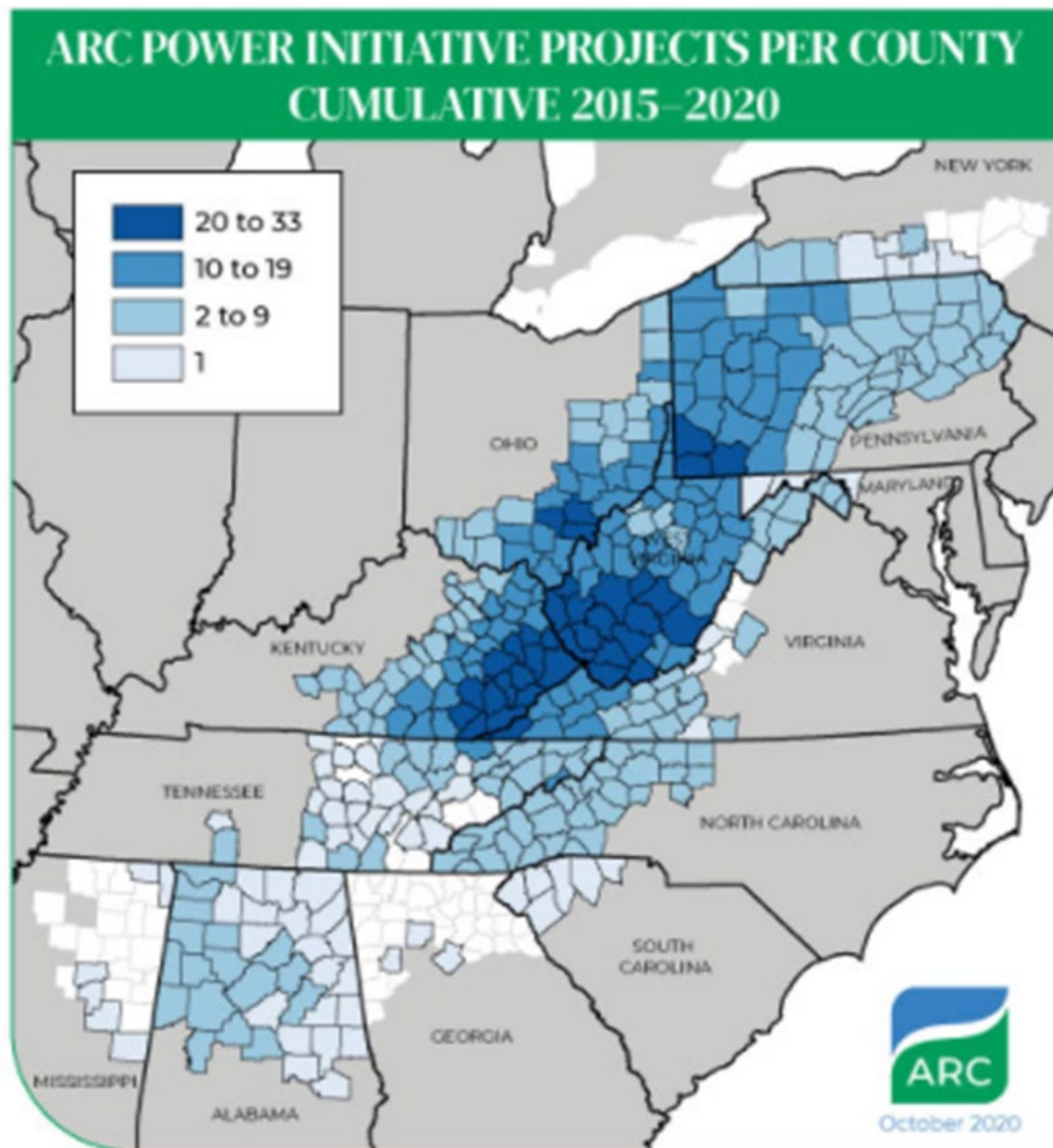
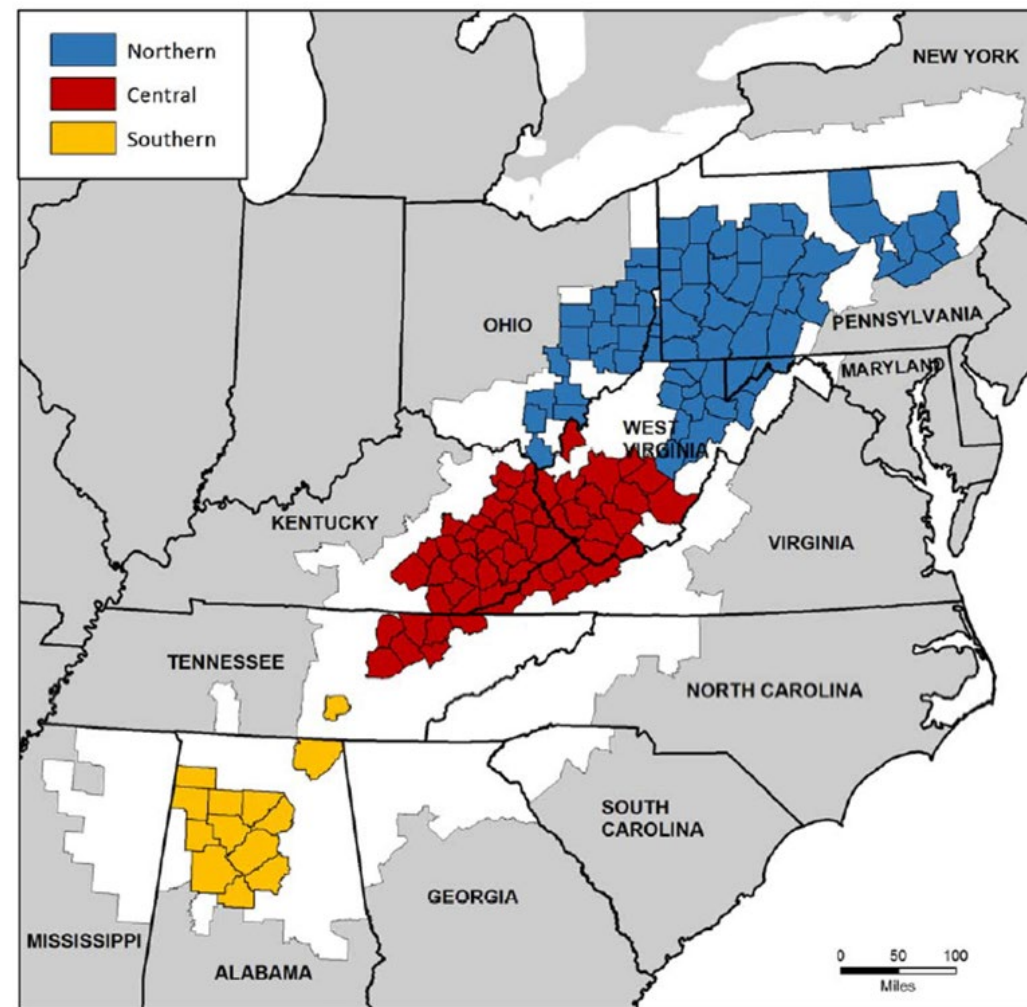


Figure 6: Coal Producing Regions in Appalachia



Source: U.S. Energy Information and Administration (EIA)

Note: The figure includes only counties that, based on MSHA data, have non-zero coal production or more than 10 coal-mining jobs from 2005 through 2019. Two Mississippi coal-mining counties are by EIA definition not part of the Appalachian coal-producing regions and as a result are excluded from the analysis.

Changes to FY2021 POWER scoring

Coal impact section now worth 15 points (up from 10 points)

Coal impact data (10 points)

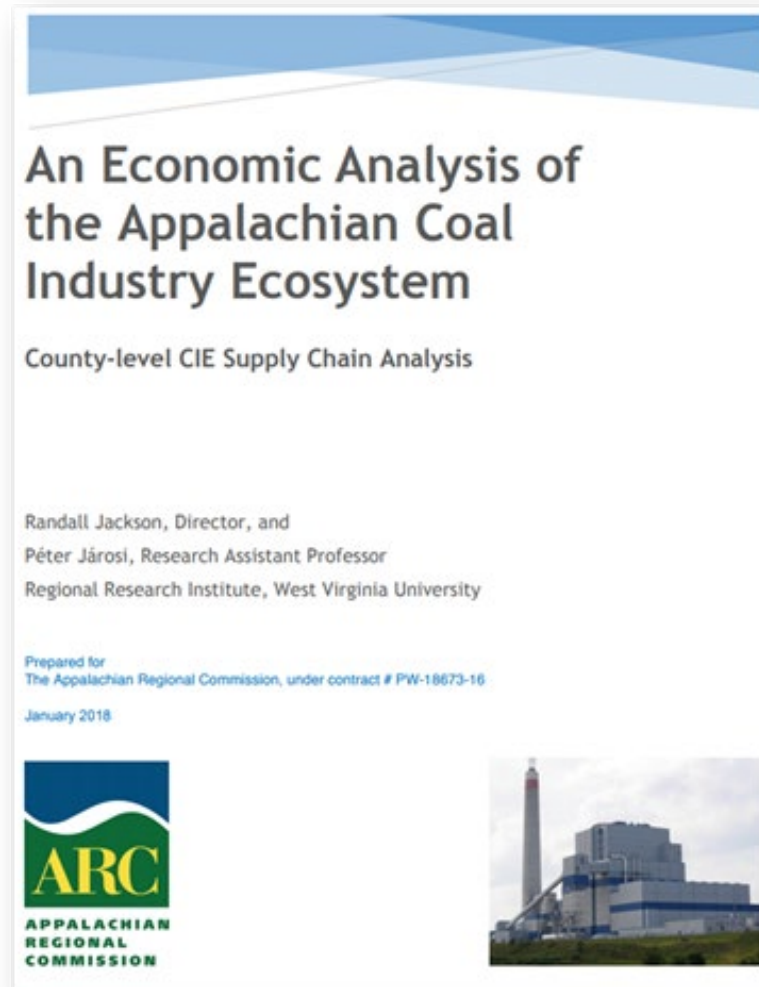
Coal impact narrative (5 points): Provide a written narrative of how the proposed project area has been impacted by the decline of the coal economy

Coal impact data (10 points)

Good news / bad news: this part is out of your control!

State	County	Coal Mining Employment Decline	Supply Chain Impact	Supply Chain Dependence	Supply Chain Risk
WV	Barbour	No	Low	High	High
WV	Berkeley	No	Low	Low	Low
WV	Boone	Yes	High	High	High
WV	Braxton	No	Low	High	High
WV	Brooke	Yes	High	Low	Low
WV	Cabell	No	High	High	High
WV	Calhoun	No	High	High	High
WV	Clay	Yes	High	High	High

Coal impact data (10 points) – supply chain analysis

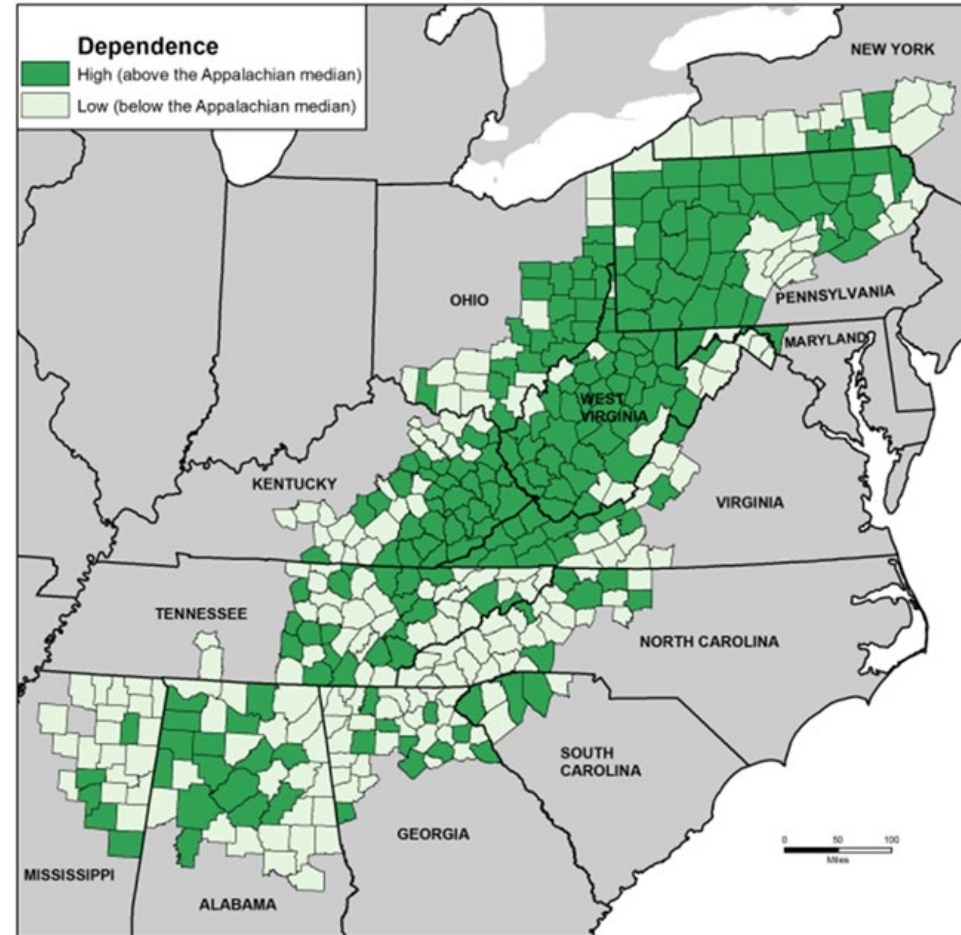


Coal impact data (10 points) – supply chain analysis

Coal Dependence

The extent to which a county's economy is based on coal – including miners, and all industries throughout supply chain and linked within supply chain.

Figure 3: Map of Coal-Dependent Counties, 2015



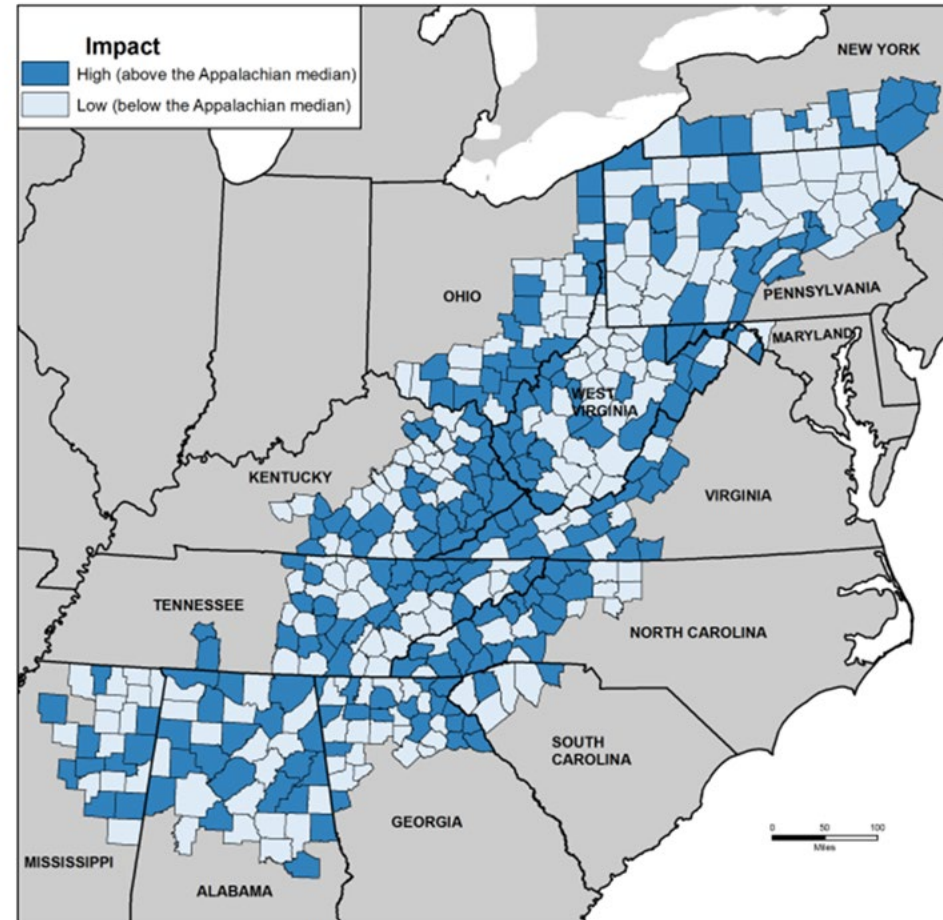
Data Sources: Bureau of Labor Statistics and Bureau of Economic Analysis

Coal impact data (10 points) – supply chain analysis

Coal Impact

Notes how coal industry-related employment was impacted between 2005-2015.

Figure 6: Map of CIE Impacted Counties



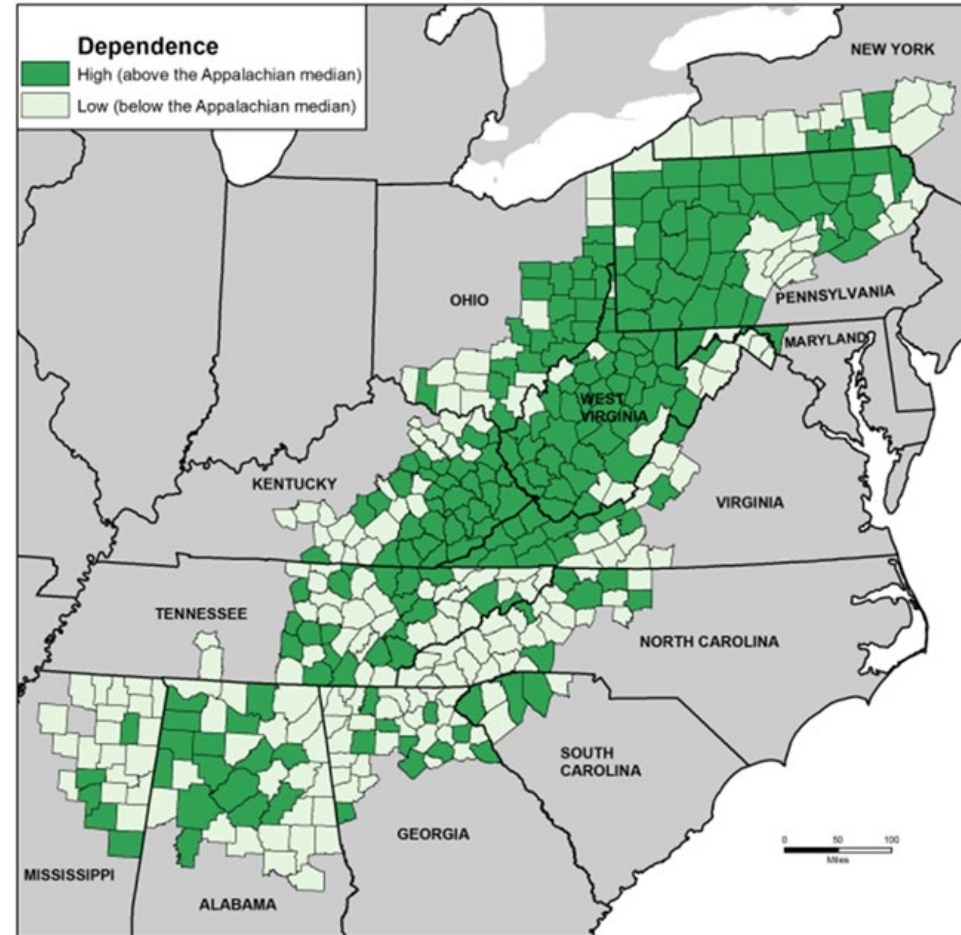
Data Sources: Bureau of Labor Statistics and Bureau of Economic Analysis

Coal impact data (10 points) – supply chain analysis

Risk

Counties at risk for experiencing economic hardship should the decline in the coal industry continue.

Figure 3: Map of Coal-Dependent Counties, 2015



Data Sources: Bureau of Labor Statistics and Bureau of Economic Analysis

Coal narrative (5 points)

But! – You do control this part. And you can:

- Include additional data points
 - Unemployment, labor force participation, poverty, population declines, other industry-specific employment changes, substance abuse, etc.
- Cite media coverage, studies, etc.
 - Stories about the community, school closures, declining opportunities elsewhere in the local economy
- Context is key
 - Provide the reviewers with a glimpse into your community and get at:
 - **(1) Why the funding is needed in the community**
 - **(2) How the project will respond to the particular difficulties it's facing**

Using ACS data from ARC's Chartbook

THE APPALACHIAN REGION: A DATA OVERVIEW FROM THE 2014-2018 AMERICAN COMMUNITY SURVEY Chartbook

Kelvin Pollard
Linda A. Jacobsen
Population Reference Bureau

Prepared for the Appalachian Regional Commission
Under Contract #CO-19792-19
June 2020

The authors wish to thank Keith Witt of ARC
for his support and guidance.



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Full Report

The Appalachian Region: A Data Overview from the 2014-2018 American Community Survey – pdf 51.57 MB

Related Files

Data Overview from 2014-2018 ACS – Tables

Data Overview from 2014-2018 ACS – Data

[All Report Maps](#) (Zip file: 21 MB; includes 96 PNG files, approximately 250 KB each, and 1 TXT file)

Data Snapshots: Population, Education, Employment, Income and Poverty, and Computer and Broadband Access in Appalachia

Data Sources: American Community Survey, 2014–2018; U.S. Census Bureau 2018 Population Estimates



Using ACS data from ARC's Chartbook (cont.)

	Civilian Labor Force Participation Rate (ages 25-64), 2014-2018	Change in Civilian Labor Force Participation Rate (ages 25-64), 2009-2013 to 2014-2018	Unemployment rate (ages 25-64) 2014-2018	Poverty rate (individuals, ages 18-64), 2014-2018	Household median income, 2014-2018	Percent of population with a disability, 2014-2018
Boone County, West Virginia	49.9	-7.1	8.5	24.4	\$38,642	28.5
West Virginia (entire state)	67.5	-0.5	5.5	18.2	\$44,921	19.5

Using ACS data from ARC's Chartbook (cont.)

	Civilian Labor Force Participation Rate (ages 25-64), 2014-2018	Change in Civilian Labor Force Participation Rate (ages 25-64), 2009-2013 to 2014-2018	Unemployment rate (ages 25-64) 2014-2018	Poverty rate (individuals, ages 18-64), 2014-2018	Household median income, 2014-2018	Percent of population with a disability, 2014-2018
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West Virginia (entire state)	67.5	-0.5	5.5	18.2	\$44,921	19.5
Appalachian Region	73	-0.3	4.8	15.4	\$49,747	16.1
United States	77.6	-0.2	4.8	13.2	\$60,293	12.6

Providing additional context

Johnson City Press

CSX closure ends more than 100 years of railroad operations in Erwin

Sue Guinn Legg Oct 14, 2015 Updated Jul 3, 2020

MANY other ways to show impact!

- Additional datasets and data points
 - ARC economic status
 - ARC research reports at [ARC.gov](https://arc.gov)
 - **Also help shape and inform project development!**
 - [Healthinappalachia.org](https://healthinappalachia.org)
 - [Overdosemappingtool.norc.org](https://overdosemappingtool.norc.org)
 - Other publicly available data
 - BEA, ACS, BLS, EIA, MSHA, BIA
- News stories, research reports, state-level reports
 - Context, context, context!

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