February 2, 2021

Understanding & Demonstrating Coal Impact on POWER Applications
Figure 9: Coal Production Forecast, Individual Appalachian Coal Basins

- **Northern**
- **Central**
- **Southern**

**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

Index, 2001 = 100

Rest of U.S.

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 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!

<table>
<thead>
<tr>
<th>State</th>
<th>County</th>
<th>Coal Mining Employment Decline</th>
<th>Supply Chain Impact</th>
<th>Supply Chain Dependence</th>
<th>Supply Chain Risk</th>
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<tbody>
<tr>
<td>WV</td>
<td>Barbour</td>
<td>No</td>
<td>Low</td>
<td>High</td>
<td>High</td>
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<tr>
<td>WV</td>
<td>Berkeley</td>
<td>No</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
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<tr>
<td>WV</td>
<td>Boone</td>
<td>Yes</td>
<td>High</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>WV</td>
<td>Braxton</td>
<td>No</td>
<td>Low</td>
<td>High</td>
<td>High</td>
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<tr>
<td>WV</td>
<td>Brooke</td>
<td>Yes</td>
<td>High</td>
<td>Low</td>
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<tr>
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<tr>
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<tr>
<td>WV</td>
<td>Clay</td>
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<td>High</td>
<td>High</td>
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</table>
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.
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.
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.
Using ACS data from ARC’s Chartbook (cont.)

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<td>Boone County, West Virginia</td>
<td>49.9</td>
<td>-7.1</td>
<td>8.5</td>
<td>24.4</td>
<td>$38,642</td>
<td>28.5</td>
</tr>
<tr>
<td>West Virginia (entire state)</td>
<td>67.5</td>
<td>-0.5</td>
<td>5.5</td>
<td>18.2</td>
<td>$44,921</td>
<td>19.5</td>
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<td>5.5</td>
<td>18.2</td>
<td>$44,921</td>
<td>19.5</td>
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<tr>
<td>Appalachian Region</td>
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<td>-0.3</td>
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<td>United States</td>
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<td>4.8</td>
<td>13.2</td>
<td>$60,293</td>
<td>12.6</td>
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</table>
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
    - Also help **shape and inform project development**!
  - Healthinappalachia.org
  - Overdosemappingtool.norc.org
  - Other publicly available data
    - BEA, ACS, BLS, EIA, MSHA, BIA

- News stories, research reports, state-level reports
  - Context, context, context!
Where have POWER grants gone?

353 counties!