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The POWER Initiative: Energy Transition as Economic Development

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The POWER Initiative: Energy Transition as Economic Development

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Julie M. Lawhorn
Analyst in Economic
Development Policy

With the decline of the U.S. coal industry, managing the economic effects of energy transition has become a priority for the federal government. The Partnerships for Opportunity and Workforce and Economic Revitalization (POWER) Initiative, and the broader POWER Plus Plan of which it was a part, represent the U.S. government's efforts to ease the economic effects of energy transition in coal industry-dependent communities in the United States, and especially in Appalachia. Launched in 2015 by the Obama Administration as a multi-agency effort utilizing various existing programs, the POWER Plus plan received partial backing through appropriations for Fiscal Year 2016 (FY2016) to the Appalachian Regional Commission, the Economic Development Administration, and for abandoned mine land reclamation.

While certain proposed provisions of POWER Plus were never enacted or funded, other elements of the POWER Initiative have continued under the Trump and Biden Administrations. Continuing programs include the Assistance to Coal Communities program (now part of the Assistance to Energy Communities initiative) within the Economic Development Administration, the POWER Initiative under the Appalachian Regional Commission (the only program to retain the original branding), and a funding program for abandoned mine land reclamation. Of these efforts, the Appalachian Regional Commission's POWER Initiative is the largest of the initiative's economic development programs, having funded over \$487 million in projects since it was first launched. The Appalachian Regional Commission's POWER Initiative is regionally targeted to declining coal communities in Appalachia, unlike the Economic Development Administration's Assistance to Coal Communities (now the Assistance to Energy Communities) program, which has a national scope. To date, the initiative has reportedly leveraged approximately \$1.85 billion of private investment into the Appalachian regional economy. This report provides background on the origins, development, and activities of the POWER Initiative.

Contents

Introduction	1
Background	1
The POWER+ Plan	2
The POWER Initiative	3
POWER Elements in the Current Administration	4
The EDA Assistance to Coal Communities (ACC) Program	4
Abandoned Mine Land Economic Revitalization (AMLER) Reclamation Program.....	5
The ARC’s POWER Initiative.....	6
About the ARC	6
Scope and Activities	7
Funding History	9
Policy Considerations.....	11
Concluding Notes	12

Figures

Figure 1. Map of the Appalachian Regional Commission.....	6
Figure 2. Distribution of ARC POWER Initiative Projects, 2016-2024 (to date)	9

Tables

Table 1. POWER+ Plan, FY2015 Roll Out.....	3
Table 2. ARC POWER Initiative Appropriations, FY2016-FY2024 and FY2025 Request.....	10
Table 3. ARC POWER Initiative Grant Awards, FY2016-FY2024	10

Contacts

Author Information.....	14
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Introduction

The U.S. Energy Information Administration (EIA) has forecast U.S. coal production to decline through 2050, with the sharpest reduction to occur by the mid-2020s.¹ Consequently, the coal industry's decline has contributed to economic distress in coal-dependent communities, including increased unemployment and poverty rates.²

In response, the Obama Administration launched the Partnerships for Opportunity and Workforce and Economic Revitalization (POWER) Plus Plan, which addressed the coal sector's decline through funding for (1) economic stabilization, (2) social welfare efforts, and (3) environmental efforts. The economic elements were organized within the POWER Initiative, a multi-agency federal initiative to provide economic development funding and technical assistance to address economic distress caused by the effects of energy transition principally in coal communities. Although the initiative began as a multi-agency effort as part of the POWER Plus Plan, the POWER Initiative currently operates as a funded program administered by the Appalachian Regional Commission (ARC) in its 423-county service area.

This report considers the background of the POWER Initiative and the broader effort of which it was originally a part, the POWER Plus Plan. It broadly surveys the state of POWER elements in the current administration, including elements of the initiative in the Economic Development Administration (EDA), the ARC, and funded efforts for abandoned mine land reclamation. The Appalachian Regional Commission's POWER Initiative program is the largest of these, and the only program to retain the POWER Initiative branding. This report considers its scope and activities as well as its funding history.

The POWER Initiative is supported by Congress as reflected by consistent annual appropriations. The POWER Initiative may also be of interest to Congress as an economic development program that actively facilitates and eases the repercussions of energy transition in affected communities in Appalachia. More broadly, in light of the projected continued decline of the coal industry, as well as proposals to address greenhouse gas (GHG) emissions from hydrocarbon combustion, congressional interest in programs to address economic dislocations as a result of energy transition is likely to accelerate.

Background

The POWER Initiative was launched in 2015 as a multi-agency federal effort to provide grant funding and technical assistance to address economic and labor dislocations caused by the effects of energy transition—principally in coal communities around the United States.³ The POWER Initiative was a precursor to a broader effort known as the POWER Plus Plan (dubbed POWER+

¹ U.S. Energy Information Administration, *Annual Energy Outlook 2023: With Projections to 2050*, November 2022, Total Coal Production, reference case, <https://www.eia.gov/outlooks/aeo/data/browser/#/?id=1-AEO2023&cases=ref2023&linechart=ref2023-d020623a.6-1-AEO2023&ctype=linechart&sourcekey=0> and <https://www.eia.gov/outlooks/aeo/narrative/index.php>.

² Eric Bowen et al., *An Overview of the Coal Economy in Appalachia*, Appalachian Regional Commission, January 2018, https://www.arc.gov/assets/research_reports/CIE1-OverviewofCoalEconomyinAppalachia.pdf.

³ The White House, Office of the Press Secretary, "FACT SHEET: The Partnerships for Opportunity and Workforce and Economic Revitalization (POWER) Initiative," press release, March 27, 2015, <https://obamawhitehouse.archives.gov/the-press-office/2015/03/27/fact-sheet-partnerships-opportunity-and-workforce-and-economic-revitaliz>.

by the Obama Administration).⁴ This latter plan was launched using preexisting funds, and was intended to develop an array of grant programs across multiple agencies to facilitate energy transition and ameliorate the negative effects of that transition. Most legislative elements of the POWER+ Plan were carried out under existing authorities rather than new legislation. Certain features continue to be active—particularly elements of the POWER Initiative within the ARC and the EDA.

The POWER+ Plan

The POWER+ Plan was organized to address three areas of concern:

1. economic diversification and adjustment for affected coal communities;
2. social welfare for coal mineworkers and their families, and the accelerated clean-up of hazardous coal abandoned mine lands; and
3. tax incentives to support the technological development and deployment of carbon capture, utilization, and sequestration technologies.⁵

The POWER+ Plan was proposed in the FY2016 President’s Budget as a multi-agency approach to energy transition.⁶ As proposed, the POWER+ Plan involved the participation of the Department of Labor (DOL), the Appalachian Regional Commission (ARC), the Small Business Administration (SBA), the Economic Development Administration (EDA), the Department of Agriculture (USDA), the Environmental Protection Agency (EPA), the Department of the Treasury, the Department of Energy (DOE), the Corporation for National and Community Service, and the Department of the Interior (DOI). The FY2016 President’s Budget requested approximately \$56 million in POWER+ Plan grant funds as follows:

- \$20 million for the DOL;
- \$25 million for the ARC;
- \$6 million for the EDA; and
- \$5 million for the EPA.

In addition, a portion of USDA rural development funds—\$12 million in grants and \$85 million in loans—were aligned to POWER+ Plan priorities. Also, the plan sought \$1 billion for

⁴ The White House, Office of the Press Secretary, “FACT SHEET: Administration Announces New Workforce and Economic Revitalization Resources for Communities through POWER Initiative,” press release, October 2015, <https://obamawhitehouse.archives.gov/the-press-office/2015/10/15/fact-sheet-administration-announces-new-workforce-and-economic>.

⁵ U.S. Office of Management and Budget (OMB), *Investing in Coal Communities, Workers, and Technology: The POWER+ Plan*, The President’s Budget: Fact Sheets on Key Issues Fiscal Year 2016, February 2, 2015, https://obamawhitehouse.archives.gov/sites/default/files/omb/budget/fy2016/assets/fact_sheets/investing-in-coal-communities-workers-and-technology-the-power-plan.pdf.

⁶ The POWER+ Plan involved a number of existing programs and initiatives administered by the participating agencies, and did not have an appropriations line item unto itself. An OMB fact sheet describes the specific funding measures proposed in the new budget among the participating agencies: OMB, *Investing in Coal Communities, Workers, and Technology: The POWER+ Plan*, The President’s Budget: Fact Sheets on Key Issues, Fiscal Year 2016, February 2, 2015, https://obamawhitehouse.archives.gov/sites/default/files/omb/budget/fy2016/assets/fact_sheets/investing-in-coal-communities-workers-and-technology-the-power-plan.pdf. These funding requests were reflected in the FY2016 White House budget proposal: OMB, *Fiscal Year 2016 Budget of the U.S. Government: Appendix*, February 2, 2015, <https://www.govinfo.gov/content/pkg/BUDGET-2016-APP/pdf/BUDGET-2016-APP.pdf>. See also The White House, Office of the Press Secretary, “FACT SHEET: Administration Announces New Workforce and Economic Revitalization Resources for Communities through POWER Initiative,” press release, October 2015, <https://obamawhitehouse.archives.gov/the-press-office/2015/10/15/fact-sheet-administration-announces-new-workforce-and-economic>.

abandoned mine land reclamation and an additional \$2 billion for carbon capture and sequestration technology investments.⁷

The POWER Initiative

The Obama Administration described the POWER Initiative as a “down payment” on the POWER+ Plan, and focused on the Plan’s economic development elements using existing funding sources (**Table 1**).⁸ Those existing funding sources (or “Targeted Funds” in **Table 1**) refer to funds that were set aside by the respective federal executive agency in support of the POWER+ Plan in FY2015. These funding amounts are only those funds made available initially, and do not account for additional appropriations or set-asides made available as the program progressed. The EDA was initially designated as the lead agency for the POWER Initiative, with significant funding elements from the ARC, SBA, and DOL. While led by the EDA, POWER Initiative grants were determined by the individual awarding agency. Grants were divided into two funding streams: (1) planning grants; and (2) implementation grants.

The POWER Initiative was announced in March 2015, with the first tranche of grants awarded in October 2016.⁹ With the exception of certain parts of the POWER Initiative and funding for reclaiming abandoned mine land (AML), broad elements of the POWER+ Plan were not enacted by Congress. Since the end of the Obama Administration, the ARC is the only federal agency with a POWER Initiative-designated program.

Table 1. POWER+ Plan, FY2015 Roll Out
as announced in March 2015

Agency	Program / Activity	Targeted Funds
Department of Commerce, Economic Development Administration	Assistance to Coal Communities, Economic Adjustment Assistance, and Partnership Planning	\$15 million
Department of Labor, Employment and Training Administration	Dislocated Worker National Emergency Grants	\$10-20 million
Small Business Administration	Regional Innovation Clusters and Growth Accelerators	\$3 million
Appalachian Regional Commission	Technical Assistance and Demonstration Projects	\$0.5 million

Source: The White House, Office of the Press Secretary, “FACT SHEET: The Partnerships for Opportunity and Workforce and Economic Revitalization (POWER) Initiative,” press release, March 27, 2015, <https://obamawhitehouse.archives.gov/the-press-office/2015/03/27/fact-sheet-partnerships-opportunity-and-workforce-and-economic-revitaliz>.

⁷ OMB, *Investing in Coal Communities, Workers, and Technology: The POWER+ Plan*, The President’s Budget: Fact Sheets on Key Issues, Fiscal Year 2016, February 2, 2015, https://obamawhitehouse.archives.gov/sites/default/files/omb/budget/fy2016/assets/fact_sheets/investing-in-coal-communities-workers-and-technology-the-power-plan.pdf.

⁸ The White House, Office of the Press Secretary, “FACT SHEET: The Partnerships for Opportunity and Workforce and Economic Revitalization (POWER) Initiative,” press release, March 27, 2015, <https://obamawhitehouse.archives.gov/the-press-office/2015/03/27/fact-sheet-partnerships-opportunity-and-workforce-and-economic-revitaliz>.

⁹ The White House, Office of the Press Secretary, “FACT SHEET: Administration Announces New Workforce and Economic Revitalization Resources for Communities through POWER Initiative,” press release, October 2015, <https://obamawhitehouse.archives.gov/the-press-office/2015/10/15/fact-sheet-administration-announces-new-workforce-and-economic>.

Notes: The EPA, USDA, Department of the Treasury, Department of Energy, the Corporation for National and Community Service, and the Department of Interior were also noted as participating agencies, but did not initially contribute funding. Targeted funds refers to funds that were set aside by the respective federal agency in support of the POWER+ Plan in FY2015. These funding amounts are only those funds made available initially, and do not account for additional appropriations or set-asides made available as the program progressed.

POWER Elements in the Current Administration

As of FY2024, the POWER Initiative exists solely as a funded program of the ARC, and is no longer a multi-agency initiative. However, certain other elements originally included in the POWER+ Plan and the POWER Initiative continue to receive appropriations and continue to be active, but they are not designated as such. These elements are discussed below.

The EDA Assistance to Coal Communities (ACC) Program¹⁰

The EDA continues to receive appropriations for its Assistance to Coal Communities (ACC) program. The ACC program was a grant-making element launched as a part of the EDA's role in the POWER Initiative.

In FY2024, \$75 million was designated for the ACC program as part of appropriations to the EDA.¹¹ The FY2024 appropriations represented the tenth consecutive fiscal year of funding for the ACC program, and reflected 650% growth from approximately \$10 million appropriated in FY2015. (See CRS Report R46991, *Economic Development Administration: An Overview of Programs and Appropriations (FY2011-FY2024)*, by Julie M. Lawhorn).¹²

¹⁰ Following the initial implementation of the ACC program, EDA continued to allocate funding to coal-impacted communities. In FY2021, EDA allocated 10% (\$300 million) of the \$3 billion appropriation from the American Rescue Plan Act (ARPA, P.L. 117-2) to coal-impacted communities through the Coal Communities Commitment (CCC). The set-asides were made to the Build Back Better Regional Challenge (BBBRC) and Economic Adjustment Assistance Challenge (EAAC). The *Initial Report to the President on Empowering Workers Through Revitalizing Energy Communities* (April 2021), developed by President Biden's Interagency Working Group (IWG), also recommended focused federal investments for coal-impacted communities. According to EDA, the CCC builds on this report. See EDA, "Coal Communities Commitment," <https://eda.gov/arpa/coal-communities/>. The IWG's report is available at https://netl.doe.gov/sites/default/files/2021-04/Initial%20Report%20on%20Energy%20Communities_Apr2021.pdf, with a follow-up report issued by the IWG in April 2023 at <https://energycommunities.gov/wp-content/uploads/2023/04/IWG-Two-Year-Report-to-the-President.pdf>.

¹¹ See the Consolidated Appropriations Act, 2024, P.L. 118-42 and the accompanying explanatory statement, printed in the March 5, 2024, *Congressional Record*, p. S1399, <https://www.congress.gov/118/crec/2024/03/05/170/39/CREC-2024-03-05.pdf>.

¹² The Trump Administration's FY2017 Budget sought to eliminate the ACC program. See U.S. Department of Commerce, *Economic Development Administration: Fiscal Year 2017 Congressional Budget Request*, February 9, 2016, pp. 36-38, <http://www.osec.doc.gov/bmi/budget/FY17CBJ/EDA%20FY%202017%20Congressional%20Submission%202-8-16%20OMB%20cleared%20508%20Compliant.pdf>. Subsequent Trump Administration Budget requests proposed eliminating the EDA entirely, including the ACC program. For FY2018, the Trump Administration requested \$30 million in funding for the EDA to enable the "orderly closeout" of the agency: OMB, *Budget of the U.S. Government Fiscal Year 2018: Appendix*, May 23, 2017, pp. 181-183, <https://www.govinfo.gov/content/pkg/BUDGET-2018-APP/pdf/BUDGET-2018-APP.pdf>. In FY2019, the EDA was also proposed for termination, and approximately \$15 million was requested to enable its closeout: OMB, *Budget of the U.S. Government Fiscal Year 2019: Appendix*, February 12, 2018, pp. 182-183, <https://www.govinfo.gov/content/pkg/BUDGET-2019-APP/pdf/BUDGET-2019-APP.pdf>. In the Trump Administration's budget request for FY2020, \$30 million was requested for the EDA's closeout: OMB, *Budget of the U.S. Government Fiscal Year 2020: Appendix*, March 18, 2019, pp. 178-180, <https://www.govinfo.gov/content/pkg/BUDGET-2020-APP/pdf/BUDGET-2020-APP.pdf>. In the Trump Administration's budget request for FY2021, \$32 million was requested for the EDA's closeout; see OMB, *Budget of the U.S. Government Fiscal Year 2021: Appendix*, February 10, 2020, pp. 191-192, (continued...)

While the ACC program is an active outgrowth of the POWER Initiative and POWER+ Plan, it is no longer associated with the POWER Initiative and instead is identified as a separate initiative administered through the EDA's Economic Adjustment Assistance (EAA) program.¹³ Because it is administered as EAA funding, ACC investments may only be used for projects located in, or substantially benefiting, a community or region that meets EDA distress criteria.

EDA economic distress is defined as

- “An unemployment rate that is, for the most recent 24-month period for which data are available, at least one percentage point greater than the national average unemployment rate;
- Per capita income that is, for the most recent period for which data are available, 80 percent or less of the national average per capita income; or
- A Special Need, as determined by EDA.”¹⁴

Abandoned Mine Land Economic Revitalization (AMLER) Reclamation Program

One objective of the POWER+ Plan was to provide federal funding for the cleanup and reclamation of abandoned coal mining sites to facilitate economic and community development. While certain legislative proposals for these purposes were never enacted,¹⁵ Congress has approved annual funding since FY2016 for economic development grants to states for Abandoned Mine Land (AML) reclamation activities. The Office of Surface Mining Reclamation and Enforcement (OSMRE) within the Department of the Interior is the federal office responsible for administering Abandoned Mine Land reclamation activities in coordination with eligible states and tribes.¹⁶ Initially, OSMRE referred to this program as the “AML Pilot Program.” Later, the program was renamed as the *Abandoned Mine Land Economic Revitalization (AMLER) Program*. Congress has provided funding for the AMLER through annual appropriations from the General Fund of the U.S. Treasury since FY2016. For additional information about funding for abandoned

<https://www.govinfo.gov/content/pkg/BUDGET-2021-APP/pdf/BUDGET-2021-APP.pdf>. For a summary of EDA appropriations, see CRS Report R46991, *Economic Development Administration: An Overview of Programs and Appropriations (FY2011-FY2024)*, by Julie M. Lawhorn.

¹³ The White House, Office of the Press Secretary, “FACT SHEET: The Partnerships for Opportunity and Workforce and Economic Revitalization (POWER) Initiative,” press release, March 27, 2015, <https://obamawhitehouse.archives.gov/the-press-office/2015/03/27/fact-sheet-partnerships-opportunity-and-workforce-and-economic-revitaliz>.

¹⁴ 13 C.F.R. §301.3. For additional information about area eligibility and measures of economic distress in EDA programs, see CRS In Focus IF12074, *Areas of Economic Distress for EDA Activities and Programs*, by Julie M. Lawhorn.

¹⁵ See, for example, The Miners Protection Act, first introduced in 2015 as S. 1714. Versions of this bill, with the same scope and effect, have been reintroduced in the years since. For example, in the 116th Congress, the Revitalizing the Economy of Coal Communities by Leveraging Local Activities and Investing More (RECLAIM) Act of 2016, H.R. 4456, was introduced but was not enacted.

¹⁶ Funding launched in FY2016 was notable for providing grants for economic development purposes. Previously, grants had been made available to eligible states and tribes to address the hazards and environmental degradation posed by abandoned mine sites under the Surface Mining Control and Reclamation Act (SMCRA) of 1977 (P.L. 95-87). For more information on the AML economic development program, see Office of Surface Mining Reclamation and Enforcement, *Report on Abandoned Mine Land Reclamation Economic Development Pilot Program (AML Pilot Program) for FY 2016–FY2018*, April 19, 2019, https://www.osmre.gov/programs/AML/2016_2018_Annual_Report_AML_Economic_Development_Pilot_Program.pdf. See also Office of Surface Mining Reclamation and Enforcement, *Reclaiming Abandoned Mine Lands*, <https://www.osmre.gov/programs/aml.shtm>.

mine reclamation, see CRS In Focus IF11352, *The Abandoned Mine Reclamation Fund: Issues and Legislation in the 117th Congress*, by Lance N. Larson.

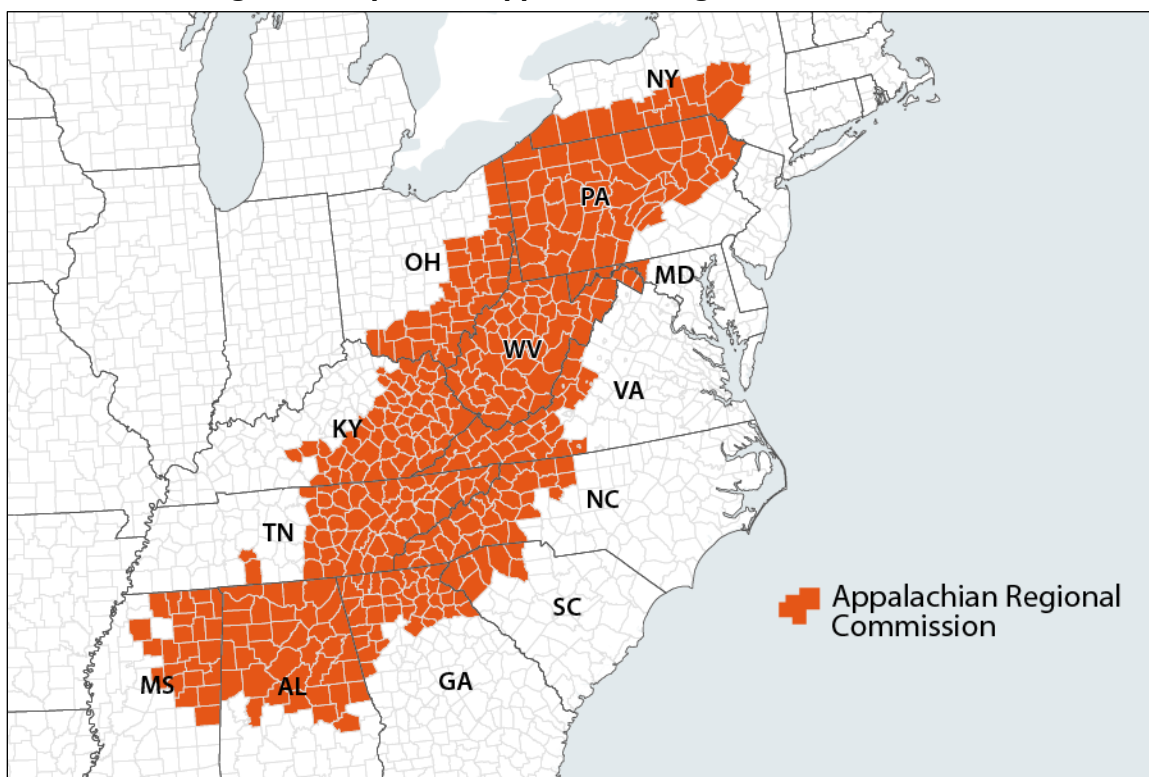
The ARC's POWER Initiative

The Appalachian Regional Commission (ARC) is the only federal agency that continues to receive regular appropriated funding for energy transition activities under the POWER Initiative designation.¹⁷ While the POWER Initiative was launched as a multi-agency effort, only the ARC chose to designate its contributions as the POWER Initiative.

About the ARC

The ARC was established in 1965 to address economic distress in the Appalachian region (40 U.S.C. §14101-14704).¹⁸ The ARC's jurisdiction spans 423 counties in Alabama, Georgia, Kentucky, Ohio, New York, Maryland, Mississippi, North Carolina, Pennsylvania, South Carolina, Tennessee, Virginia, and West Virginia (**Figure 1**).

Figure 1. Map of the Appalachian Regional Commission



Source: Compiled by CRS using data from and Esri Data and Maps and the Appalachian Regional Commission.

¹⁷ It should be noted that while the ARC is generally classified as an independent federal agency, the federal regional commissions and authorities are unique in that although they are federally chartered organizations and draw on federal appropriations for their operations and activities, they are generally understood to be partnerships between the constituent states and the federal government. The vast majority of their staff and leadership are not federal employees. For more information, see CRS Report R45997, *Federal Regional Commissions and Authorities: Structural Features and Function*, by Julie M. Lawhorn.

¹⁸ Appalachian Regional Development Act of 1965, as amended, P.L. 89-4.

The ARC is a federal-state partnership, with administrative costs shared equally by the federal government and member states, while economic development activities are federally funded through appropriations. Thirteen state governors and a federal co-chair oversee the ARC. The federal co-chair is appointed by the President with the advice and consent of the Senate.¹⁹

Scope and Activities

The ARC's POWER Initiative program prioritizes federal resources to projects and activities in coal communities that exhibit elements that

- produce multiple economic development outcomes (e.g., promoting regional economic growth; job creation; and/or employment opportunities for displaced workers);
- are specifically identified under state, local, or regional economic development plans; and
- have been collaboratively designed by state, local, and regional stakeholders.²⁰

In FY2024, as in prior years, the ARC funded two classes of grants as part of the POWER Initiative: (1) implementation grants, with awards of up to \$2 million (with the exception for broadband deployment and broadband as a service (BaaS) projects, which can have awards of up to \$2.5 million),²¹ and (2) planning grants, with awards of up to \$50,000. For FY2024, \$65 million in grant funding was made available for the POWER Initiative (see **Table 2**), of which one-third was reserved for broadband projects.²²

POWER investments are subject to the ARC's grant match requirements, which are linked to the Commission's economic distress hierarchy.²³ Those economic distress designations are, in descending order of distress

- distressed (80% funding allowance, 20% grant match);²⁴

¹⁹ For more information about the ARC and the other federal regional commissions and authorities, see CRS Report R45997, *Federal Regional Commissions and Authorities: Structural Features and Function*, by Julie M. Lawhorn. See also, in summarized form, CRS In Focus IF11140, *Federal Regional Commissions and Authorities: Overview of Structure and Activities*, by Julie M. Lawhorn. For more information about administrative expenses, see CRS In Focus IF12165, *Federal Regional Commissions and Authorities: Administrative Expenses*, by Julie M. Lawhorn.

²⁰ Appalachian Regional Commission (ARC), Partnerships for Opportunity and Workforce and Economic Revitalization (POWER) Initiative: Federal Fiscal Year (FY) 2024 Notice of Solicitation of Applications, pp. 6-8, <https://www.arc.gov/wp-content/uploads/2024/01/POWER-2024-NOSA.pdf>.

²¹ According to the FY2024 POWER RFP, to qualify for the broadband deployment funding, at least 65% of the broadband project's budget "must be directed to the physical deployment of broadband infrastructure." If more than 35% of proposed funds are directed to activities not directly associated with deployment of broadband infrastructure, then applicants may apply for funding under the guidelines for implementation projects and will not qualify for broadband deployment funding. See ARC, POWER, FY2024 NOSA, pp. 7-9, 29, <https://www.arc.gov/wp-content/uploads/2024/01/POWER-2024-NOSA.pdf>.

²² ARC, POWER, FY2024 NOSA, pp. 7-9, <https://www.arc.gov/wp-content/uploads/2024/01/POWER-2024-NOSA.pdf>.

²³ ARC, *County Economic Status and Distressed Areas in Appalachia*, <https://www.arc.gov/classifying-economic-distress-in-appalachian-counties/>.

²⁴ The ARC uses an index-based classification system to compare each county within its jurisdiction with national averages based on: (1) three-year average unemployment rates; (2) per capita market income; and (3) poverty rates. These factors are calculated into a composite index value for each county, which are ranked and sorted into designated distress levels. Each distress level corresponds to a given county's ranking relative to that of the U.S. as a whole. These designations are defined as, in descending order: distressed counties, or those with values in the "worst" 10% of U.S. (continued...)

- at-risk (70%);
- transitional (50%);
- competitive (30%); and
- attainment (0% funding allowance).

Special allowances at the discretion of the commission may reduce or discharge matches, and match requirements may be met with other federal funds when allowed.

POWER investments are also aligned to the ARC's strategic plan. The current strategic plan, adopted in October 2021, prioritizes five investment goals:

1. entrepreneurial and business development;
2. workforce development;
3. infrastructure development;
4. natural and cultural assets; and
5. leadership and community capacity.²⁵

Given its programmatic breadth, POWER investments may link to any one of these investment goals. POWER investment determinations are made according to annual objectives outlined in the request for proposals, as well as broader investment priorities, which are fostering entrepreneurial activities; developing industry clusters in communities; building a competitive workforce; and broadband.²⁶

According to the ARC,²⁷ over \$484 million in investments have been made since 2015 through 564 projects in 365 counties across the ARC's service area, leveraging an estimated \$1.85 billion of private investment. **Figure 2** is a representation of the ARC's POWER Initiative projects tallied by state (for 2016-2024 (to date)).

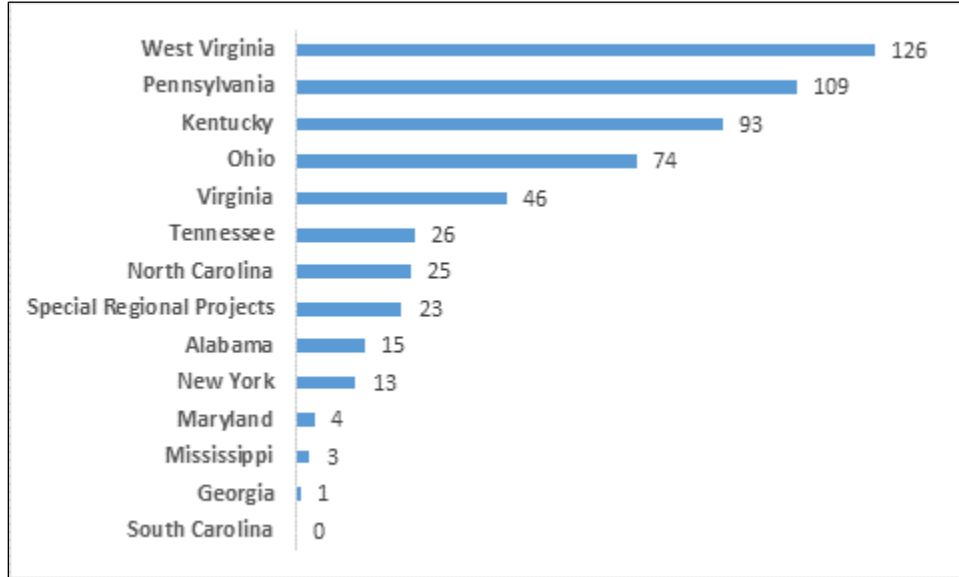
counties; at-risk, which rank between worst 10% and 25%; transitional, which rank between worst 25% and best 25%; competitive, which rank between "best" 25% and best 10%; and attainment, or those which rank in the best 10%. See ARC, *Distressed Designation and County Economic Status Classification System*, <https://www.arc.gov/distressed-designation-and-county-economic-status-classification-system/>.

²⁵ ARC, *Appalachia Envisioned: A New Era of Opportunity*, *ARC Strategic Plan for Fiscal Years 2022–2026*, <https://www.arc.gov/strategicplan/>.

²⁶ ARC, POWER, FY2024 NOSA, pp. 6-8, <https://www.arc.gov/wp-content/uploads/2024/01/POWER-2024-NOSA.pdf>.

²⁷ ARC, ARC's Partnerships for Opportunity and Workforce and Economic Revitalization (POWER) Initiative, accessed October 24, 2024, <https://arc.gov/grants-and-opportunities/power/>.

Figure 2. Distribution of ARC POWER Initiative Projects, 2016-2024 (to date)
by state (and one additional category)



Source: Data retrieved from ARC website (<https://www.arc.gov/wp-content/uploads/2024/10/POWER-Award-Summaries-by-State-as-of-October-2024.pdf>) on October 24 2024 and tabulated by CRS.

Notes: Special Regional Projects are those projects that are undertaken to provide regional benefits, and may include collaboration with organizations outside of the ARC’s service area. Data reflect the number of awards announced by ARC as of October 2024. ARC reported 564 projects funded during the FY2016-FY2024 period. Project totals in **Figure 2** vary from ARC project totals because they do not include certain regional research, evaluation, and technical assistance projects supported by POWER funding.

Funding History

While the POWER Initiative does not receive appropriations separate from that of the ARC as a whole, congressional intent is signaled in House Appropriations Committee reports, which specify amounts to be reserved for the POWER Initiative. In committee report language, it is generally described as activities “in support of the POWER+ Plan” or “in support of the POWER Initiative.”²⁸

Table 2 shows appropriations set aside for the POWER Initiative from FY2016 to FY2024 and the FY2025 requested amounts, as well as the amounts of annual and supplemental appropriations for ARC as a whole.

²⁸ See, for example: U.S. Congress, House Appropriations, *Energy and Water Appropriations Bill, 2019*, Report to accompany H.R. 5895, 115th Cong., 2nd sess., 2019, H.Rept. 115-697 (Washington: GPO, 2019), p. 159; and the explanatory statement accompanying the Energy and Water, Legislative Branch, and Military Construction and Veterans Affairs Appropriations Act, 2019 (P.L. 115-244), printed in the September 10, 2018, *Congressional Record* (p. H8038), vol. 164, no. 150, <https://www.congress.gov/115/crec/2018/09/10/CREC-2018-09-10-pt1-PgH7946-2.pdf>.

Table 2. ARC POWER Initiative Appropriations, FY2016-FY2024 and FY2025 Request

in millions (\$)

	Appropriations reserved for POWER	Appropriations for the ARC as a whole
FY2016	\$50	\$146
FY2017	\$50	\$152
FY2018	\$50	\$155
FY2019	\$50	\$165
FY2020	\$50	\$175
FY2021	\$55	\$180
FY2022	\$65	\$395
FY2023	\$65	\$400
FY2024	\$65	\$400
FY2025 Request	\$65	\$200

Source: Data compiled and tabulated by CRS from data provided by ARC and from committee reports associated with the following annual appropriations bills: P.L. 114-113 (FY2016); P.L. 115-31 (FY2017); P.L. 115-141 (FY2018); P.L. 115-244 (FY2019); P.L. 116-94 (FY2020); P.L. 116-260 (FY2021); P.L. 117-103 (FY2022); P.L. 117-328 (FY2023); and P.L. 118-42 (FY2024). The FY2022-FY2024 amounts include \$200 million from Division J, Title III of the Infrastructure Investment and Jobs Act (IIJA, P.L. 117-58) which provided advance appropriations for the ARC in each fiscal year from FY2022 through FY2026. The amount requested for FY2025 is from ARC *FY2025 Performance Budget Justification* (see <https://www.arc.gov/wp-content/uploads/2024/03/FY-2025-ARC-Budget-Congressional-Justification.pdf>).

To date, the ARC received approximately \$1.6 billion in requests for POWER Initiative grant funding from FY2016 to FY2024 (**Table 3**). This suggests that there was unmet demand for the POWER Initiative in the Appalachian region alone (the ARC's service area, as depicted in **Figure 1**).

Table 3. ARC POWER Initiative Grant Awards, FY2016-FY2024

	# Applications	Amount of Funding Requested by Applicants	Awarded Funds
FY2016-FY2017	216	\$280 million	\$91 million
FY2018	231	\$329 million	\$49 million
FY2019	140	\$120 million	\$47 million
FY2020	174	\$164 million	\$45 million
FY2021	188	\$173 million	\$57 million
FY2022 ^a	167	\$153 million	\$77 million
FY2023	181	\$170 million	\$54 million
FY2024	170	\$179 million	\$68 million

Source: Data provided by the ARC and tabulated by CRS.

Notes: For FY2016 and FY2017, funding was combined into a single pot and awarded accordingly. In FY2021, the Commission voted to recommend 26 projects totaling \$28,440,625 from the FY2021 cycle for funding in FY2022.

- a. The FY2022 “Awarded Funds” amount reflects the amount of funding announced as of August 18, 2022.

Policy Considerations

The Energy Information Administration (EIA) projects that coal production overall will continue to decline due to several factors such as environmental regulations, aging coal infrastructure, and the growth of renewable energy sources.²⁹ In particular, the EIA forecasts “U.S. coal-fired generation capacity will decline sharply by 2030 to about 50% of current levels.”³⁰ By 2050, coal is projected to decline to 1-8% of U.S. electricity generation, nuclear is projected to account for 11-12%, renewables (i.e., wind, solar) 40-69%, and natural gas 11-31%, according to EIA projections.³¹

Coal’s decline is a function of market forces, particularly its higher cost relative to natural gas and renewable energy options.³² In the future, under current policies, coal’s cost disadvantage is expected to continue, and could be accelerated if policies are adopted to reduce GHG emissions that contribute to climate change.³³ Even with federal incentives to invest in carbon capture, utilization, and storage as a means to mitigate fossil fuel-related emissions, coal may still not be competitive in many situations. As a result of falling demand, noncompetitive coal producers and their communities are expected to face continued economic dislocation.

Should it wish to broaden or intensify federal efforts to address energy transition in local communities, Congress may have several options. In the past, Congress has demonstrated bipartisan interest in the federal government providing assistance to populations adversely affected by the ongoing energy transitions. It has done so through its appropriations for the ARC’s POWER Initiative, the EDA’s ACC program, and the AMLER investments.³⁴ In combination with evidence of unmet demand for federal assistance, as measured by unfunded requests to the ARC (**Table 3**), Congress may consider reviewing the balance among needs, appropriations, and effectiveness of past efforts. For additional information on recent federal programs for coal communities, see CRS Report R47831, *Federal Economic Assistance for Coal Communities*, by Julie M. Lawhorn et al.

Congress could conduct a review of the POWER Initiative and the efficacy of its performance and resources. This potential review suggests some particular considerations:

²⁹ U.S. Energy Information Administration, *Annual Energy Outlook 2023: With Projections to 2050*, November 2022, Total Coal Production, reference case, <https://www.eia.gov/outlooks/aeo/data/browser/#/?id=1-AEO2023&cases=ref2023&linechart=ref2023-d020623a.6-1-AEO2023&ctype=linechart&sourcekey=0>; U.S. Energy Information Administration (EIA), “EIA Projects Coal Capacity Will Decrease in Our Annual Energy Outlook 2023,” May 11, 2023, <https://www.eia.gov/todayinenergy/detail.php?id=56460#>; and EIA, “Nearly a Quarter of the Operating U.S. Coal-Fired Fleet Scheduled to Retire by 2029,” November 7, 2022, <https://www.eia.gov/todayinenergy/detail.php?id=54559>.

³⁰ EIA, “EIA Projects Coal Capacity Will Decrease in Our Annual Energy Outlook 2023,” May 11, 2023, <https://www.eia.gov/todayinenergy/detail.php?id=56460#>.

³¹ The range of estimates in the generating capacity projections reflects different assumptions associated with a High Zero-Carbon Technology Cost (High ZTC) case and a Low Zero-Carbon Technology Cost (Low ZTC) case. EIA, “EIA Projects Coal Capacity Will Decrease in Our Annual Energy Outlook 2023,” May 11, 2023, <https://www.eia.gov/todayinenergy/detail.php?id=56460#>.

³² Howard Gruenspecht, *The U.S. Coal Sector: Recent and Continuing Challenges*, Brookings Institution, January 2019, <https://www.brookings.edu/research/the-u-s-coal-sector/>.

³³ See, for example, Ed Crooks, “U.S. Coal Output Forecasted to Fall Despite Trump Revival Efforts,” *Financial Times*, January 26, 2019, <https://www.ft.com/content/5c31c480-2036-11e9-b126-46fc3ad87c65>.

³⁴ See, for example: U.S. Congress, House Natural Resources, Energy and Mineral Resources, *Climate Change: Preparing for the Energy Transition*, 116th Cong., 1st sess., February 12, 2019, House Event 108873.

- **Geography:** While the ACC is available for the nation as a whole, the ARC’s POWER Initiative is restricted to the ARC’s service area in the Appalachian region. Congress may consider expanding the POWER Initiative to be available more broadly across the nation, or in a more targeted fashion as demonstrated by the ARC’s program. Alternatively, funding could be made available nationwide to any eligible coal community, such as through other federal regional commissions and authorities and/or EDA regions.
- **Funding:** Projections of U.S. coal production (cited earlier) suggest that the ongoing transition in U.S. energy systems may lead to further localized economic distress without the development of new regional opportunities. Congress may consider the level of funding for POWER Initiative programs in the context of those economic needs. Funding levels could be tied to the overall scale of the challenge, allocated to areas with the greatest need, and made in consideration of data-driven evaluations of the program effectiveness. In assessing scale, Congress may consider macroeconomic factors as well as social and environmental policy objectives.
- **Energy Type:** Congress may also consider expanding the POWER Initiative and/or related programs beyond the coal industry to other energy industries or regions perceived to be in decline.³⁵ For example, since FY2020, Congress has directed the EDA to allocate economic adjustment assistance funding to support transition efforts in nuclear closure communities. Congress may consider policies to support economically distressed communities impacted by other changes in the fossil fuel industry as well. Congress may also consider other public policy goals, such as reducing GHGs, to assist in promoting renewable energy types and carbon capture technologies.

Should Congress consider such efforts, the ARC’s POWER Initiative program could serve as a potential model to be scaled or replicated as needed. In addition, other models have also been proposed in bills introduced in the 116th-118th Congresses that would assist coal communities in transition.³⁶

Concluding Notes

Although the POWER+ Plan was not enacted in its entirety, some of its legacy programs continue to receive annual appropriations and remain active. The persistence of such programs suggests support among many policymakers for federal efforts to rectify, or at least attenuate, economic distress as a consequence of energy transition. More broadly, these mechanisms could also be purposed to facilitate federal resources for other related issues, such as related to ecological/environmental resilience and adaptation. For instance, were Congress to pursue policy

³⁵ See Martha T. Moore, *Nuclear Plant Closures Bring Economic Pain to Cities and Towns*, Pew Trusts, September 5, 2018, <https://www.pewtrusts.org/en/research-and-analysis/blogs/stateline/2018/09/05/nuclear-plant-closures-bring-economic-pain-to-cities-and-towns>.

³⁶ For example, in the 166th Congress, H.R. 315 included provisions “To amend the Surface Mining Control and Reclamation Act of 1977 to authorize partnerships between States and nongovernmental entities for the purpose of reclaiming and restoring land and water resources adversely affected by coal mining activities before August 3, 1977, and for other purposes”; H.R. 4142, “To rebuild the Nation’s infrastructure, provide a consumer rebate to the American people, assist coal country, reduce harmful pollution, and for other purposes.” In the 117th Congress, H.R. 5376 included provisions to provide assistance to assistance to energy and industrial transition communities, including coal, oil and gas, and nuclear transition communities.

efforts reflective of broadening concern for climate issues,³⁷ a POWER Initiative-type program could be developed to also facilitate energy transition from fossil fuel-based energy sources to a mix of renewables and other alternatives.

The POWER Initiative, as originally conceived or in its current form as a program of the ARC, has not been evaluated by the U.S. Government Accountability Office (GAO) or other research organization for its effectiveness as either a mechanism for alleviating community economic distress caused by the declining coal industry, or economic development more broadly. One recent GAO report mentioned the Assistance to Coal Communities program, but did not seek to analyze its activities or efficacy.³⁸ Similarly, older GAO reports exist that feature the Abandoned Mine Land Reclamation program (prior to its current configuration),³⁹ and the Appalachian Regional Commission,⁴⁰ but may be of limited relevance when evaluating current programming, including more recent activities such as the POWER Initiative. Meanwhile, a number of anecdotal and media reports appear to tout the POWER Initiative's success and viability.⁴¹ The ARC, for its part, reports that the POWER Initiative has invested over \$484 million in over 564 projects in 365 counties across Appalachia since 2015. According to the ARC, those investments are "projected to create or retain more than 54,000 jobs, and leverage more than \$1.85 billion in additional private investment."⁴²

ARC completed four evaluations of the POWER Initiative. The FY2019 evaluation (Year 1) focused on early impacts, challenges, opportunities, and technical assistance needs associated with the implementation grants funded in or prior to FY2018.⁴³ The FY2020 evaluation (Year 2) covered additional topics such as projects designed to address the impacts of substance use disorder (SUD); community capacity in counties in which multiple POWER projects have been implemented; and multistate projects. The FY2020 evaluation also evaluated early results of closed POWER projects.⁴⁴ The FY2021 evaluation (Year 3) reported on indicators of change from the individual, business, and community levels.⁴⁵ The FY2022 evaluation (Year 4) reported

³⁷ See H.Res. 112.

³⁸ U.S. Government Accountability Office, *Economic Adjustment Assistance: Federal Programs Intended to Help Beneficiaries Adjust to Economic Disruption*, GAO-19-85R, March 5, 2019, pp. 13-14, <https://www.gao.gov/products/GAO-19-85R>.

³⁹ U.S. Government Accountability Office, *Department of the Interior, Office of Surface Mining Reclamation and Enforcement: Abandoned Mine Land Program*, GAO-09-208R, November 26, 2008, <https://www.gao.gov/products/GAO-09-208R>.

⁴⁰ U.S. Government Accountability Office, *Economic Development: Limited Information Exists on the Impact of Assistance Provided by Three Agencies*, RCED-96-103, April 3, 1996, <https://www.gao.gov/products/RCED-96-103>.

⁴¹ See, for example: Brittany Patterson, *Portal 31: How A Closed Mine Opened New Prospects For One Coal Town*, WFPL.org, November 11, 2019, <https://wfpl.org/portal-31-how-a-closed-mine-opened-new-prospects-for-one-coal-town/>; and "A \$1.5M Shot in the Arm for Workforce Development," *Independent Herald*, November 12, 2019, <https://www.ihoneida.com/2019/11/12/shot-arm-workforce-development/>.

⁴² ARC, *ARC's POWER Initiative*, <https://www.arc.gov/grants-and-opportunities/power/>.

⁴³ ARC, Chamberlin and Dunn, *Success Factors, Challenges, and Early Impacts of the POWER Initiative: An Implementation Evaluation*, October 2019, <https://www.arc.gov/report/success-factors-challenges-and-early-impacts-of-the-power-initiative-an-implementation-evaluation/>.

⁴⁴ ARC, Chamberlin and Dunn, *POWER Initiative Evaluation: Factors and Results of Project Implementation*, September 2020, <https://www.arc.gov/report/power-initiative-evaluation-factors-and-results-of-project-implementation/>.

⁴⁵ ARC, Chamberlin and Dunn, *POWER Initiative Evaluation: The POWER of Change Stories of Results for Individuals, Businesses, and Communities*, September 2021, <https://www.arc.gov/report/power-initiative-evaluation-the-power-of-change/>.

closed projects and analysis of the longer-term impacts of POWER grants.⁴⁶ The evaluations highlight the varying scales of implementation and the range of activities supported by POWER Initiative awards (e.g., infrastructure, planning, broadband, workforce development, substance use disorder, or a combination of activities). Additionally, the evaluations note that POWER projects may have a range of timelines for implementation, which impacts the evaluators' ability to uniformly measure outcomes.

Author Information

Julie M. Lawhorn
Analyst in Economic Development Policy

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⁴⁶ ARC, Chamberlin and Dunn, *POWER Initiative Evaluation: The POWER of Evaluation*, September 2022, <https://www.arc.gov/report/power-initiative-evaluation-the-value-of-power/>.