



U.S. DEPARTMENT OF
ENERGY

Office of
Policy

Supporting the Energy Asset Transition

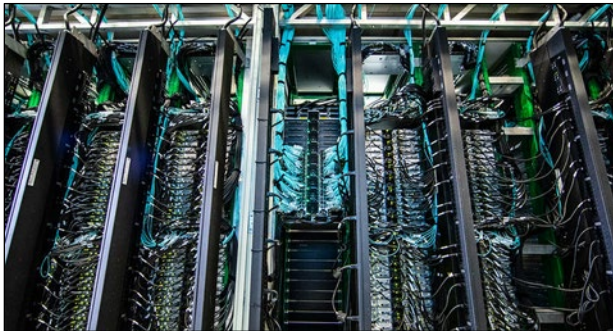
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November 14, 2024



A Critical Opportunity

- Leveraging existing energy infrastructure and assets can promote **new energy generation, manufacturing, emerging industries, and community revitalization**
 - Nearly 30% of the nation’s coal plants are projected to retire by 2035
 - Since 2010, >155 plants have already retired



Reinvestment:

Idled assets can be harnessed to meet our climate goals – while simultaneously reinvesting in the diverse communities across every state that have powered our economy for over a century.



Valuable Assets:

These sites have valuable benefits for new investments – like grid interconnection, transportation access, water rights, permits, and a local trained workforce.



Brownfields Redevelopment:

Repurposing these sites is an opportunity to restore industrial sites, clean up contamination, and avoid the need to convert green fields into industrial sites.

Retired Energy Assets

Coal Power Plant Redevelopment Visualization Tool - Beta

MAP LEGEND

Coal Plants with Retirements between 2015-2030

◆

180

Coal Power Plants

155

Retired

25

with planned retirement

Note: presented statistics, tables and charts are updated based off the map extent and selected

Average Distance from Coal Plants to nearby Energy & Transportation Infrastructure

Substation |

◀ 3 of 180 ▶

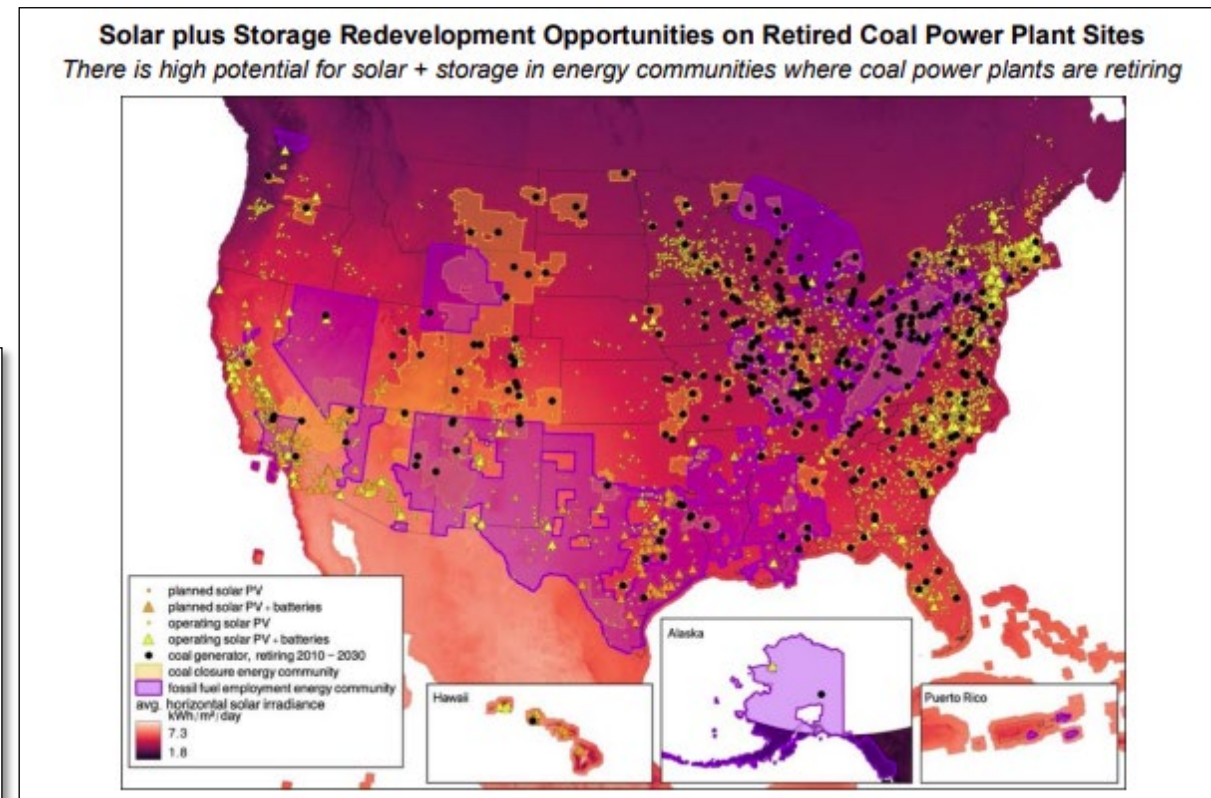
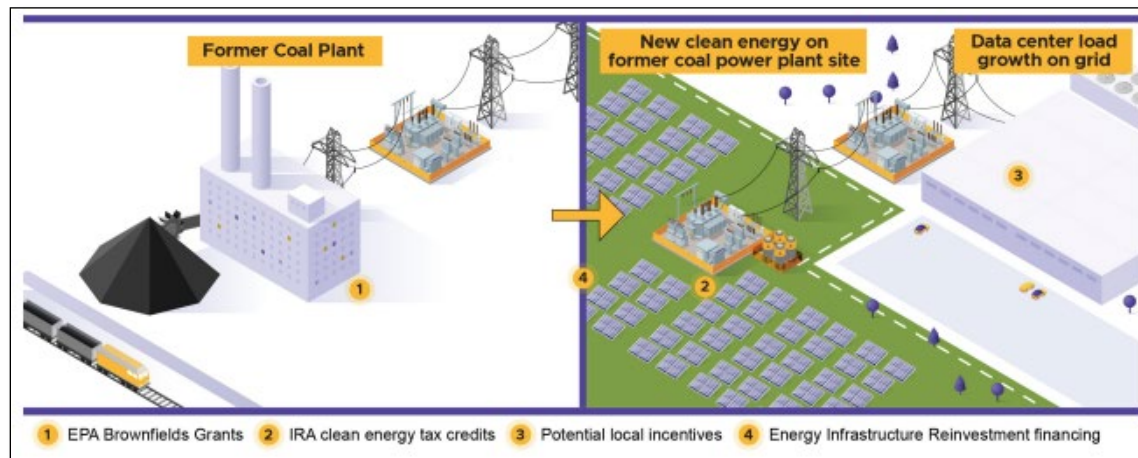
Plant Record Details:

G G Allen Plant, Gaston County, NC

| | |
|--|-----------------------------|
| Plant Name | G G Allen |
| Total Plant Capacity (MW) | 713 |
| Plant Sector | Electric Utility |
| First Coal Generator Retirement Date | February 28, 2021 |
| Last Coal Generator Retirement Date | November 30, 2021 |
| Brownfield ID | ACRES135805 |
| Brownfield Name | HISTORIC THRIFT MILL |
| Distance to Closest Brownfield (miles) | 7 |
| Brownfield Report URL | View |
| Control Area | DUK |
| Closest Power Plant Name | DE Solar 10240 Old Dowd Rd |
| Distance to Closest Power Plant (miles) | 4 |
| Electric Transmission Line (ETL) Manager | DUKE ENERGY CAROLINAS, LLC |
| ETL Type | AC; OVERHEAD |
| ETL Status | IN SERVICE |
| ETL - Max Voltage | 100 |
| Petroleum Terminal Name | AIRPORT GROUP INTERNATIONAL |

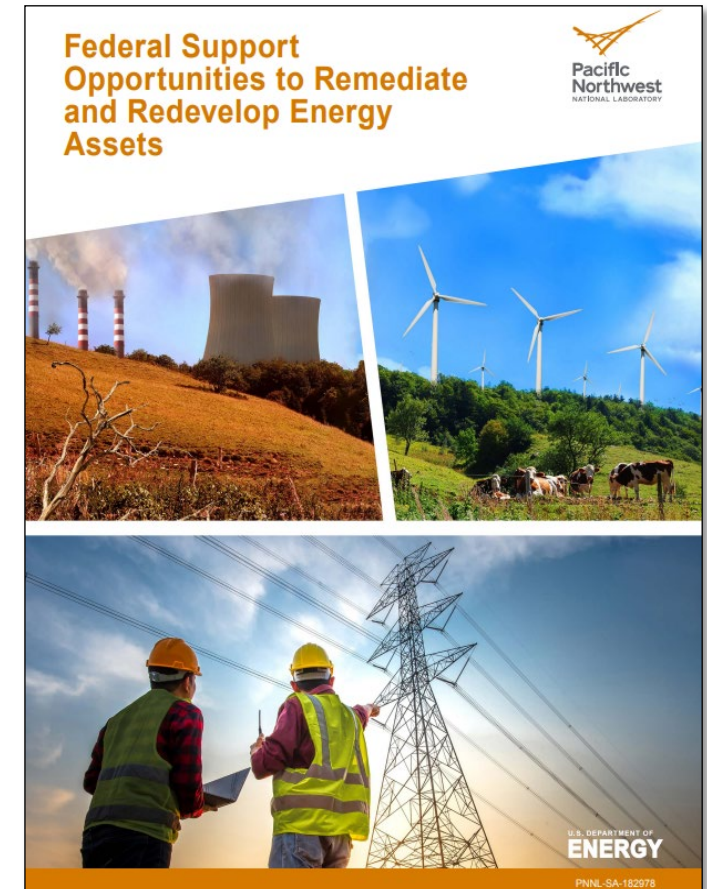
Federal Investment Opportunities

- IRA Tax Credits
- Energy Communities Tax Credit Bonus
- Loan Programs Office Energy Infrastructure Reinvestment program

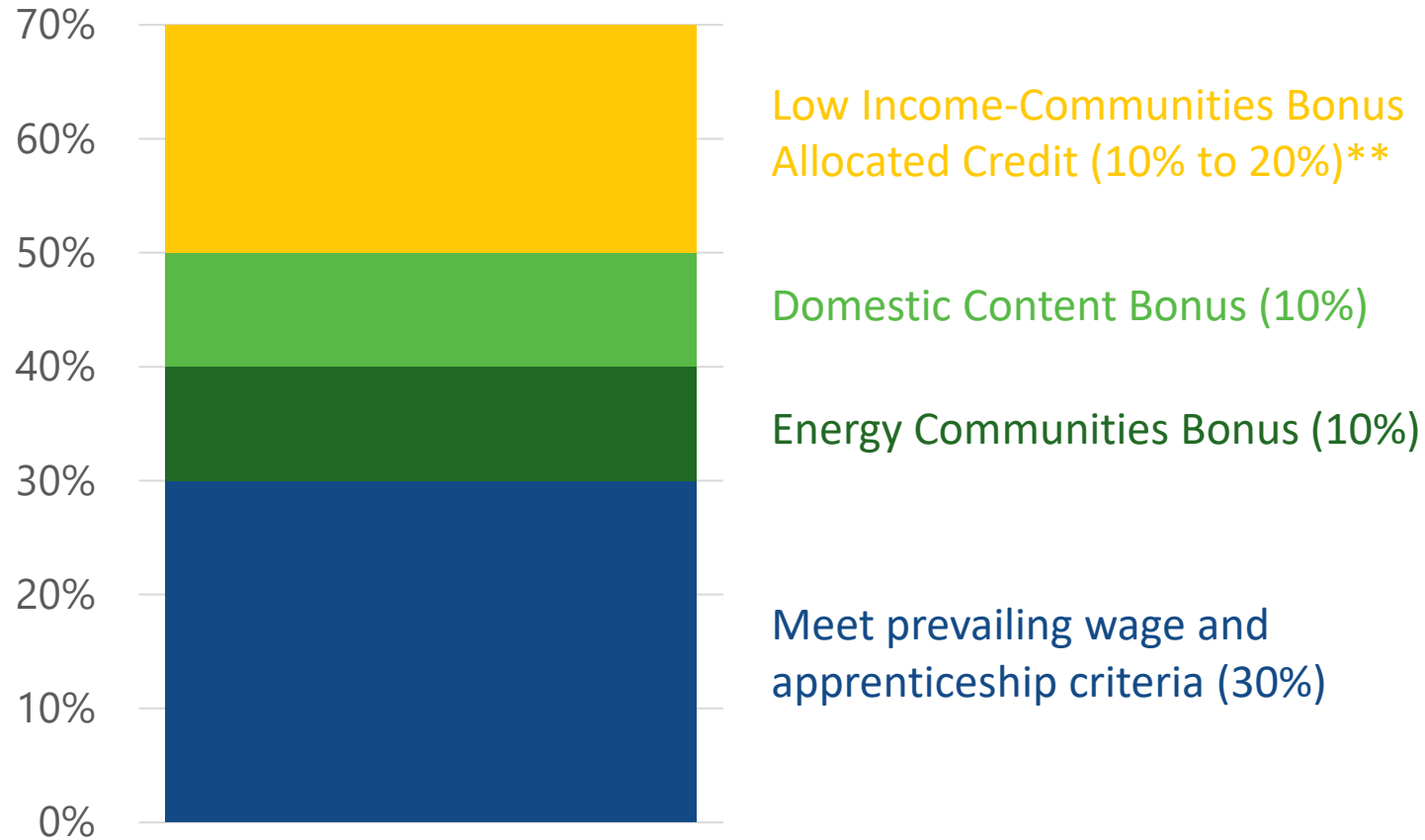


Resources Supporting Coal-to-X

- [Fact sheets](#) that guide developers and community members on the process of selecting and redeveloping a plant site for a particular end-use
 - Coal-to-nuclear
 - Coal-to-solar (plus storage)
 - Coal-to-wind (plus storage)
 - Coal-to-EV manufacturing
 - Coal-to-data centers
- Builds on previous DOE [report](#) on how the Loan Programs Office's Energy Infrastructure Reinvestment program, EPA Brownfields Grants, and IRA tax credits can help redevelop or repurpose energy asset infrastructure
- Purpose is to jumpstart conversations around which redevelopment options are the best match for a given site and community and help energy communities navigate these redevelopment options



Tax Credits and Stacking



Tax credit bonuses can stack with the underlying tax credit creating significant opportunity for eligible projects.

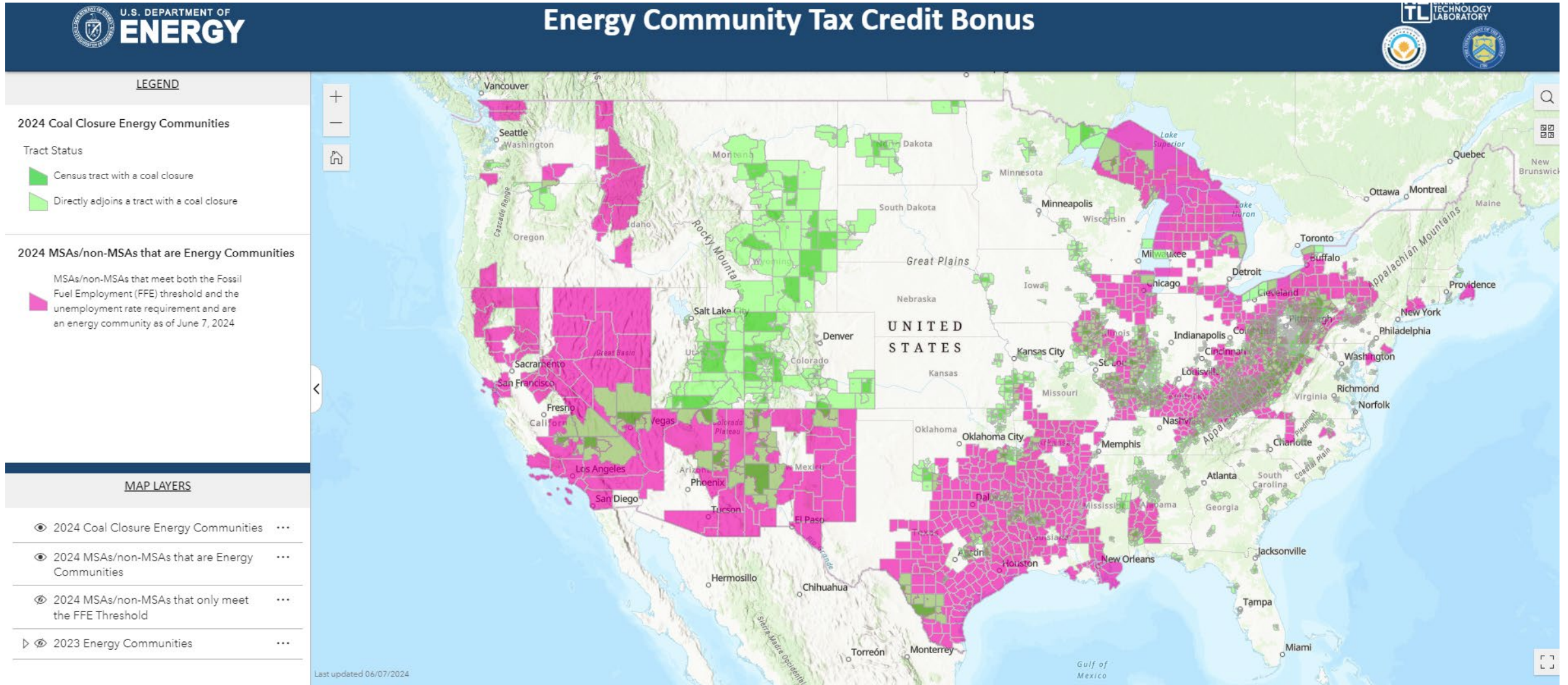
Example: 1 MW community solar facility costing \$1 million could earn a **70% tax credit** worth \$700,000 if eligible for all applicable tax credit and bonuses

If it is owned by an applicable tax-exempt entity, this could be a **direct cash payment** from the IRS

*Credit is 5x lower if not meeting prevailing wage and apprenticeship criteria

**48(e) tax credits are limited and allocated by DOE in coordination with IRS through an application process

Energy Communities Tax Credit Bonus



DOE Loans, Grants, and Technical Assistance

- [Loan Programs Office Energy Infrastructure Reinvestment Program](#)
 - Financing for projects that retool, repower, repurpose, or replace energy infrastructure that has ceased operations or upgrade operating energy infrastructure to avoid, reduce, utilize, or sequester air pollutants or greenhouse gas emissions
- [Capacity Building for Repurposing Energy Assets](#)
 - Planning grant to help local communities across the country create a roadmap toward repurposing existing energy assets
- [Clean Energy to Communities \(C2C\)](#)
 - In-Depth Partnership (3-year program, applications close June 14)
 - Expert Match (40-60 hours of expert TA, rolling applications)
 - Peer Learning Cohorts (6 months of peer-learning groups and expert guidance, applications for July 2024 cohort close April 30)
- [SOLVE IT Prize](#)
 - The Solutions for Lasting, Viable Energy Infrastructure Technologies (SOLVE IT) Prize aims to empower communities to identify and implement innovative clean energy solutions in a way that works for their unique needs and challenges.
 - Over three phases, competitors will work with communities to develop a credible path forward on clean energy projects that help address local challenges, with winners receiving prize money at the end of each phase
 - Advanced Nuclear Reactors are a specific area of interest
- [Gateway for Accelerated Innovation in Nuclear \(GAIN\)](#)
 - NE Voucher Program and other expert assistance and funding opportunities

Thank you!



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