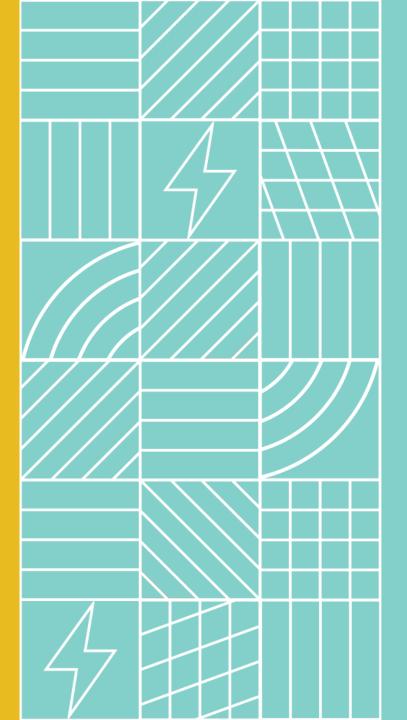
## RURAL ECONOMIC DEVELOPMENT: FEDERAL INVESTMENTS IN CLEAN AND ENERGY EFFICIENCY PROJECTS

Luis Bernal October 2023





#### **DISCLAIMER**

This presentation provides a general overview of the federal financial assistance available for clean energy projects. It does not constitute professional tax advice, legal advice, or other professional financial guidance. It should not be used as the only source of information when making purchasing decisions, investment decisions, tax decisions, or when executing other binding agreements. In addition, presenter's views and remarks should not be construed to represent ARC's views or policies. Mention of trade names or commercial products in the presentation is solely for information purposes and does not imply recommendation or endorsement by ARC or the presenter. The presenter assumes no responsibility or liability for any errors or omissions in the content of this presentation or for the results obtained from the use of this information. The information contained in this presentation is provided on an "as is" basis with no guarantees of completeness, accuracy, usefulness or timeliness and without any warranties of any kind whatsoever, express or implied.

#### **ENERGY IN OUR RURAL AREAS**

States are increasingly concerned with the "rural energy burdens"

Energy burden for rural households is about 33 % higher than the national average.

Energy burden more drastic for low-income rural households (spend an avg. of 9 % of household income on energy)

Electric co-ops serve 92% of the persistent poverty counties in America.

Electric co-ops power over 21.5 million businesses, homes, schools and farms in 48 states.

Electric co-ops added over 900 MW of new renewable capacity in 2022.

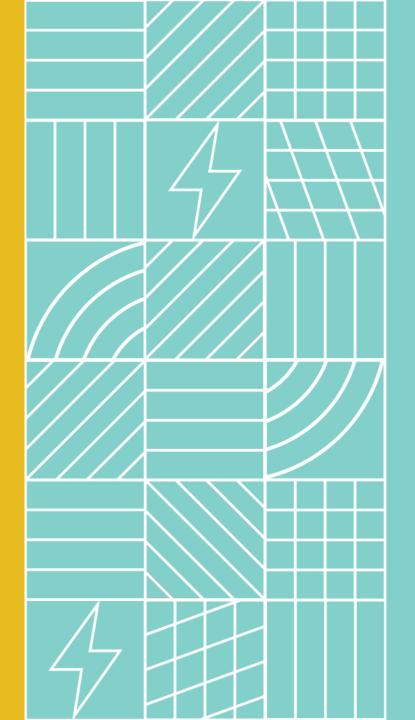
#### LET'S GET TO WORK...

"Energy is a building block of our society and economy...The extent to which we take advantage of the opportunities this transformation presents to localize our energy systems and thereby drive investment into our communities will determine the extent to which the clean energy transformation will create a rural renaissance."

Michelle Moore, Rural Renaissance: Revitalizing America's Hometowns through Clean Power.

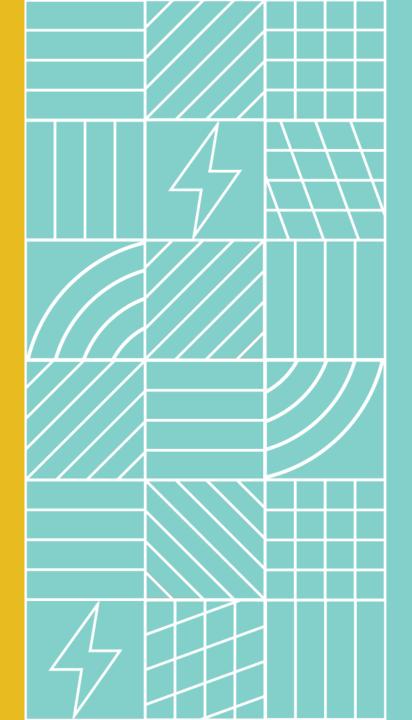
#### IRA FUNDING FOR RURAL DEVELOPMENT

- Up to \$1 billion for RUS loans for renewable energy infrastructure.
  - Loan forgiveness of up to 50% of the loan amount.
  - Eligible entities include electric service providers, including municipals, cooperatives, investor-owned and Tribal utilities.
- Up to \$2.025 billion for the Rural Energy for America Program (REAP)
  - \$303 million set aside for underutilized technologies and technical assistance
- Up to \$500 million in grants for infrastructure improvements to blend, store or distribute biofuels.
  - includes installing, retrofitting or upgrading dispensers for ethanol at retail stations as well as home heating oil distribution centers
- Up to **\$9.7 billion** to offer loans, grants, loan modifications and other financial assistance to support the purchase/deploy renewable energy systems, zero-emission systems and carbon capture systems.
  - Funding also may be used to make energy-efficiency improvements to generation and transmission systems of eligible entities.



# REFERENCES TO FUNDING SOURCES

- Inflation Reduction Act Guidebook- Clean Energy
  - https://www.whitehouse.gov/cleanenergy/inflationreduction-act-guidebook/
- The Interagency Working Group on Coal and Power Plant Communities and Economic Revitalization- Funding Clearinghouse
  - <a href="https://energycommunities.gov/funding-opportunities/all-funding/">https://energycommunities.gov/funding-opportunities/all-funding/</a>
- USDA-Rural Development- Selected Federal Support for Clean Energy by Potential Uses
  - <a href="https://www.rd.usda.gov/media/file/download/usda-federalsupportforcleanenergypotentialuses508-english.pdf">https://www.rd.usda.gov/media/file/download/usda-federalsupportforcleanenergypotentialuses508-english.pdf</a>



# SELECTED FUNDING OPPORTUNITIES

**USDA- Rural Development** 

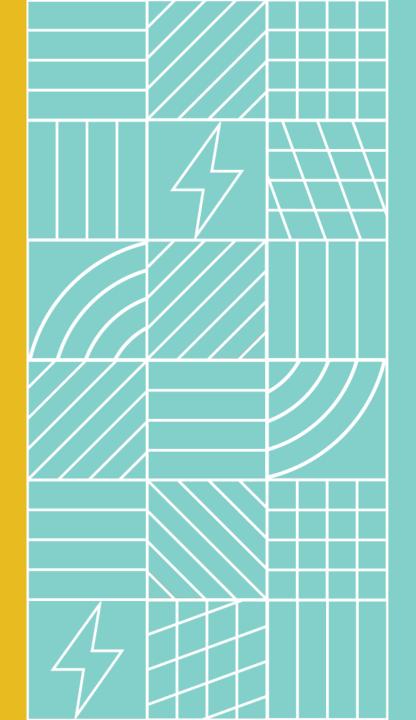
Rural Energy for America Program (REAP) Rural Energy Savings Program (RESP)

Appalachian Regional Commission

Appalachian Regional Initiative for Stronger Economies (ARISE)

US Treasury- Internal Revenue Service Elective Pay (Direct Pay)

# RURAL ENERGY FOR AMERICA PROGRAM



#### REAP

#### What's available?

- -guaranteed loan financing
- -grant funding to agricultural

#### Who can apply?

- -Agricultural producers (at least 50% gross income from agricultural operations)
- -Small businesses- (Must be located in eligible rural areas + meet SBA size standard)

#### What for?

- -purchase & installation of renewable energy systems
- purchase, installation & construction of energy efficiency improvements

#### **HOW REAP FUNDS MAY BE USED?**

#### Renewable energy systems

- Biomass (for example: biodiesel and ethanol, anaerobic digesters, and solid fuels)
- Geothermal for electric generation or direct use
- Hydropower below 30 megawatts
- Hydrogen
- Small and large wind generation
- Small and large solar generation
- Ocean (tidal, current, thermal) generation

#### **Energy Efficiency Improvements**

- High efficiency heating, ventilation and air conditioning systems (HVAC)
- Insulation
- Lighting
- Cooling or refrigeration units
- Doors and windows
- Electric, solar or gravity pumps for sprinkler pivots
- Switching from a diesel to electric irrigation motor
- Replacement of energy-inefficient equipment

Requires energy audit or energy assessment

#### **REAP GRANTS**

#### **Renewable Energy Systems**

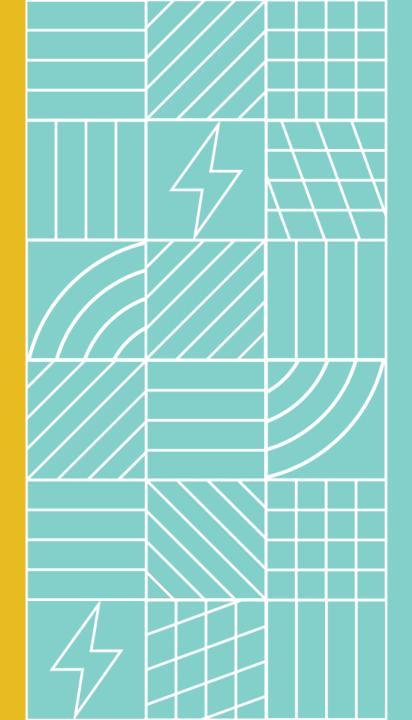
• \$2,500 minimum

• \$1 million maximum

#### **Energy Efficiency**

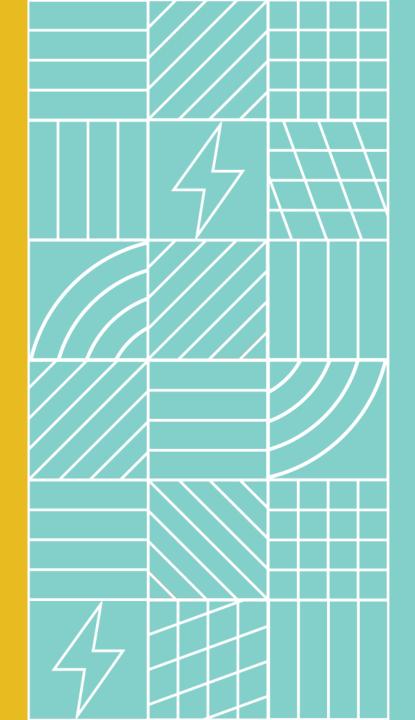
• \$1,500 minimum

• \$500,000 maximum



#### **REAP LOAN GUARANTEES**

- Loan guarantees on loans up to 75 % of total eligible project costs.
- Combined grant and loan guarantee funding up to 75% of total eligible project costs.
- Interest rates are negotiated between the lender and borrower.
- Rates may be fixed or variable.
- Variable interest rates may not be adjusted more often than quarterly.
- There is an initial guarantee fee, currently 1 % of the guaranteed amount.
- There is a guarantee retention fee, currently 0.25 % of the outstanding principal balance, paid annually.
- Applicants must provide at least 25 % of the project cost if applying for loan.



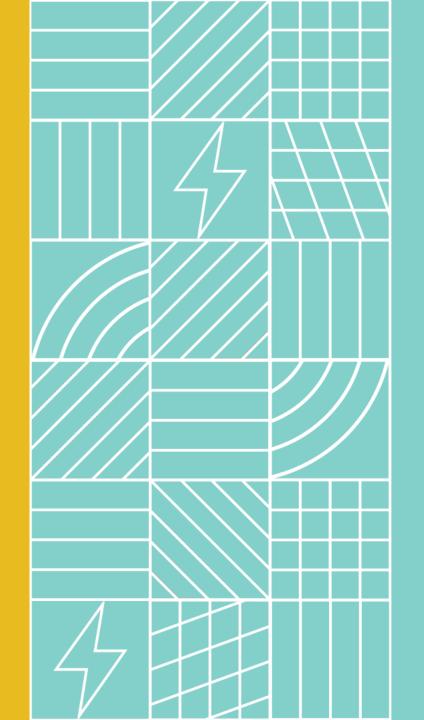
#### **HOW TO APPLY?**

 Contact the Rural Development Energy Coordinator in your state.

https://www.rd.usda.gov/sites/default/files/RBS\_StateEnergyCoordinators.pdf

- Pre-register with the System for Award Management (SAM) and have the UEI
- Loan guarantees contact the state program specialist. Visit also the OneRD Guarantee portal...

https://www.rd.usda.gov/onerdguarantee

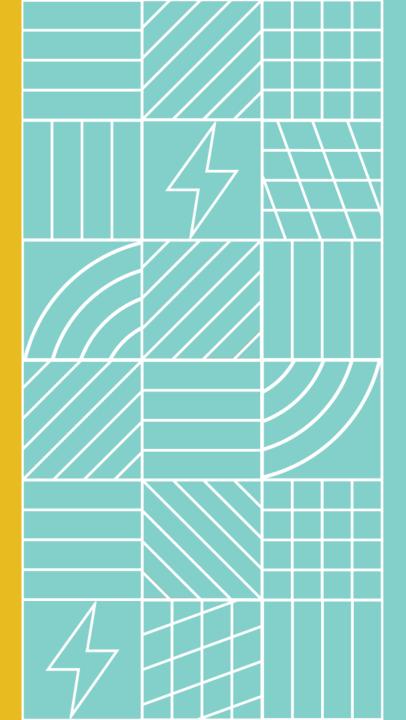


#### **REAP APPLICATION WINDOWS**

- Open for Fiscal Years 2023 & 2024
- Next application windows:

December 31, 2023 March 31, 2024 June 30, 2024 September 30, 2024

# RURAL ENERGY SAVINGS PROGRAM



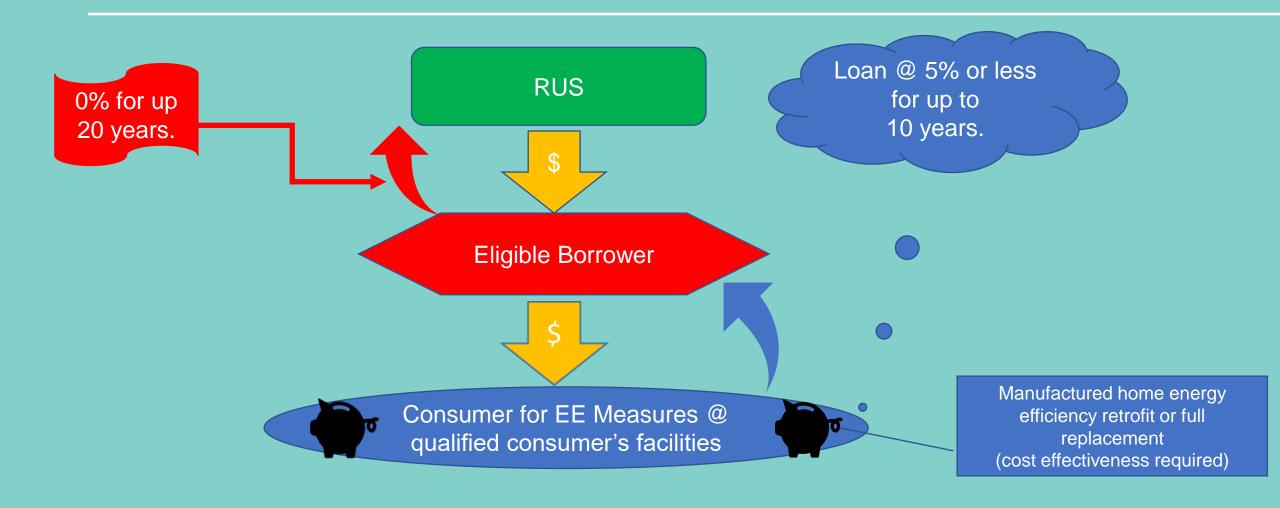
#### **RESP PURPOSE**

• Help **rural** families and small businesses achieve cost savings by providing loans to qualified consumers through eligible entities to implement durable cost-effective energy efficiency measures, energy storage, and renewable energy technologies.

 RUS Direct Loan to Borrowers so that they can relend to their consumers for energy efficiency investments, energy storage and renewable energy technologies.

<sup>\*</sup>Rural means any area that has a population of 50,000 or less inhabitants or any other area designated eligible by statute

#### **RESP OVERVIEW**



#### **KEY ELEMENTS ABOUT RESP**

0% Interest energy efficiency loan program

4% Special Advance

On-Bill financing requirement

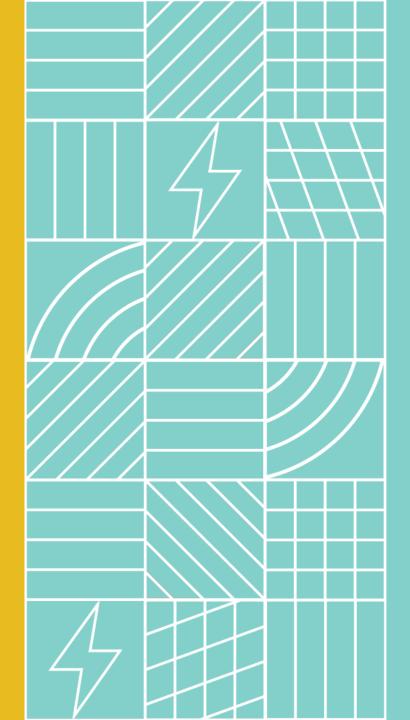
Relending program

0 to 5% interest to consumer

Many states have passed tariff legislation

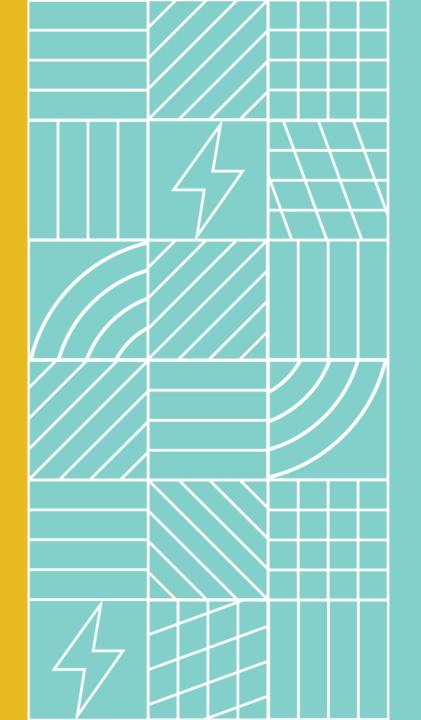
Loan Term- 20 years

End user loan term= 10-year payback period Existing RESP borrowers have very low delinquency rates



# WHO CAN PARTICIPATE IN RESP? (BE A BORROWER)

- any public power district, public utility district, or similar entity, or any electric cooperative that borrowed and repaid, prepaid, or is paying an electric loan made or guaranteed by RUS;
- any entity primarily owned or controlled by 1 or more entities described above; or
- any other corporations, states, territories, and subdivisions and agencies thereof; municipalities; people's utility districts; and cooperative, nonprofit, limited-dividend, or mutual associations that provide or propose to provide eligible purposes under RESP, including energy efficiency, renewable energy, energy storage or energy conservation measures and related services, improvements, financing, or relending



# WHO ARE THE NEW TYPES OF APPLICANTS?

Green Banks

Municipalities

State Sponsored EE non-profit entities



# **ELIGIBLE ACTIVITIES**

#### (ENERGY EFFICIENCY MEASURES)

Lighting Improvements (Residential and commercial)

**HVAC Systems** 

**Building Envelope Improvements** 

Water Heaters

Compressed Air Systems

Motors

Boilers, Dryers, Heaters and process related equipment

**Energy Audits** 

On or Off Grid Renewable Energy Systems

**Energy Storage Devices** 

Energy Efficient Appliance Upgrades (fixed to real property)

Irrigation or Water and Waste Disposal System Efficiency Improvements

Replacement of Manufactured Homes

Electric Vehicle Chargers in behind the meter applications

Other Approved Activities and investments directly related to Energy Efficiency Implementation

#### **RESP-PROGRAM ACTIVITY**

	States	Loan Amount	No. of Loans
1	Arkansas	116,500,000	6
2	California	250,000	1
3	Colorado	101,500,000	5
4	Georgia	4,500,000	1
5	Hawaii	20,000,000	1
6	Indiana	1,650,000	2
7	Maryland	4,900,000	1
8	Massachusetts	4,900,000	1
9	Michigan	2,800,000	2
10	Montana	200,000	1
11	North Carolina	6,200,000	2
12	Ohio	3,500,000	2
13	Oklahoma	12,000,000	1
14	Oregon	17,000,000	4
15	Pennsylvania	1,000,000	1
16	South Carolina	15,500,000	2
17	Tennessee	5,000,000	1
18	Texas	35,000,000	2
19	Vermont	40,000,000	1
20	Virginia	13,093,000	3
21	Washington	81,800,000	5
22	Wisconsin	1,300,000	2
	Grand Total	488,593,000	47

2017-2023

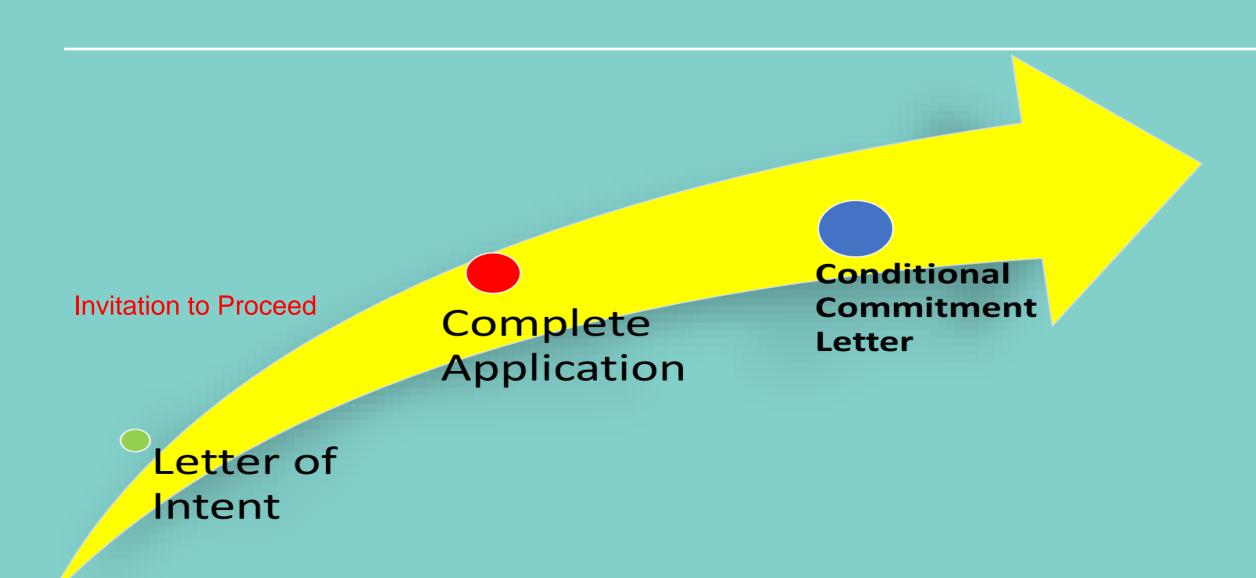
- 47 Loans
- 22 States
- Average loan size: \$10,395,596

### ELIGIBLE ACTIVITIES (ENERGY EFFICIENCY MEASURES)

- Lighting Improvements (Residential and commercial)
- HVAC Systems
- Building Envelope Improvements
- Water Heaters
- Compressed Air Systems
- Motors
- Boilers, Dryers, Heaters and process related equipment
- Energy Audits

- On or Off Grid Renewable Energy Systems
- Energy Storage Devices
- Energy Efficient Appliance Upgrades (fixed to real property)
- Irrigation or Water and Waste Disposal System Efficiency Improvements
- Replacement of Manufactured Homes
- Electric Vehicle Chargers in behind the meter applications
- Other Approved Activities and investments directly related to Energy Efficiency Implementation

#### **RESP APPLICATION PROCESS**



#### LETTER OF INTENT

#### Project Description (5 pages max.)

- Official name, legal status, SAMMI number, RUS affiliation, if any
- Identify service territory
- Contact information of the individual that will be the point of contact with RUS.
- Net assets value, other financial information for 3 previous years
- If request is greater then \$5 Million, include evidence of key performance indicators for past 5 years.

- Description of service to be provided
- Identify staff or contractors for EE program, with credentials
- Implementation Plan
- Marketing strategy
- Relending process
- Schedule of sources and uses of funds
- Brief description of the processes and procedures for EE verification or cost reduction
- List of EE measures to be implemented

# REPRESENTATIVE SUCCESSFUL LOAN APPLICATIONS

Small Business EE Program

- Microloans to eligible small commercial customers to implement EE improvements
- Loan sizes from \$5,000-\$100,000
- RUS borrower works with a partner for loan processing, underwriting, closing, and servicing but loan approval remains with the RUS borrower.

#### Loan terms:

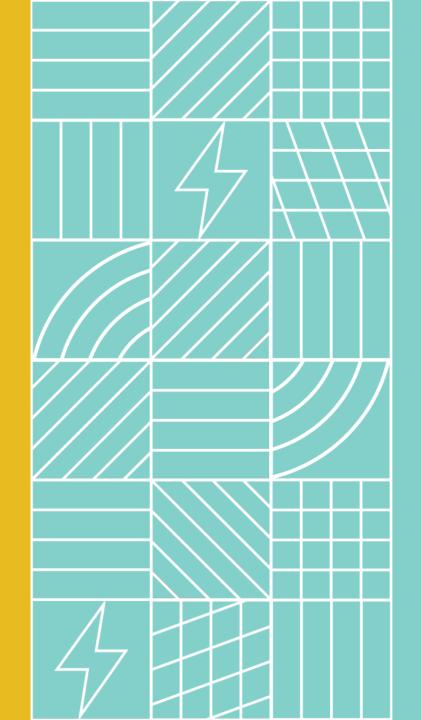
- oNot to exceed 10 years
- ○3% fixed interest rate
- o25% equity of eligible project costs
- o15% minimum energy savings
- supported by energy audit
- 60 days estimated timeframe for closing the loans with the RUS borrower's consumer.

# On-Bill Tariffed Financing

- It is optional and voluntary for the electric cooperative's members.
- Available to residential, small commercial members of the electric cooperative and to the building owner of any structure occupied by an existing co-op rental member.
- The electric cooperative recovers the cost of the investments in EE measures through a monthly charge assigned to the meter at the location where the upgrades were installed until the cost is recovered. Future occupants will pay for the upgrades until the cost is recovered.
- Project size: \$1,000-\$25,000
- The charge for energy efficiency investments is considered an essential part of the consumer's bill for electric service.

## Residential EE Program

- Implemented by a non-profit on behalf of several participating electric cooperatives
- Loan loss reserve: 1%
- Loan size to qualified consumers approx.
   \$10,000 @ 3% annual rate.
- Loans will be made to homeowners & renters with the consent of their landlord.
- Loan payments are recovered by on-bill charges on the electric bills.
- Energy savings tracked for each unit comparing pre and post retrofit energy use. (Baseline is then weather normalized).
- If a preliminary screening shows the electric coop member would likely benefit from EE investments, then an energy audit is performed, and a set of EE recommendations are provided to the member.



#### **KEY REFERENCES IN USDA**

Rural Development State Directors:

https://www.rd.usda.gov/contact-us/state-offices

Electric Program Contact Information:

https://www.rd.usda.gov/programs-services/all-programs/electric-programs

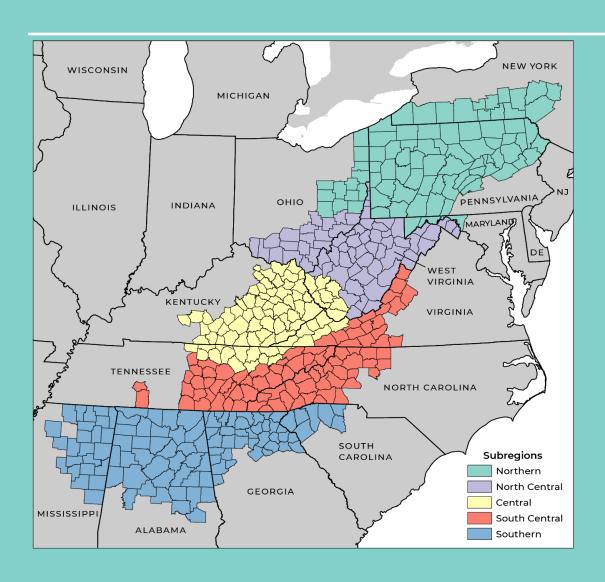
Electric Program General Field Representatives (GFR's):

https://www.rd.usda.gov/contact-us/electric-gfr

# APPALACHIAN REGIONAL INITIATIVE FOR STRONGER ECONOMIES (ARISE)

Appalachian Regional Commission Program

#### **ARISE- ARC GRANT PROGRAM**



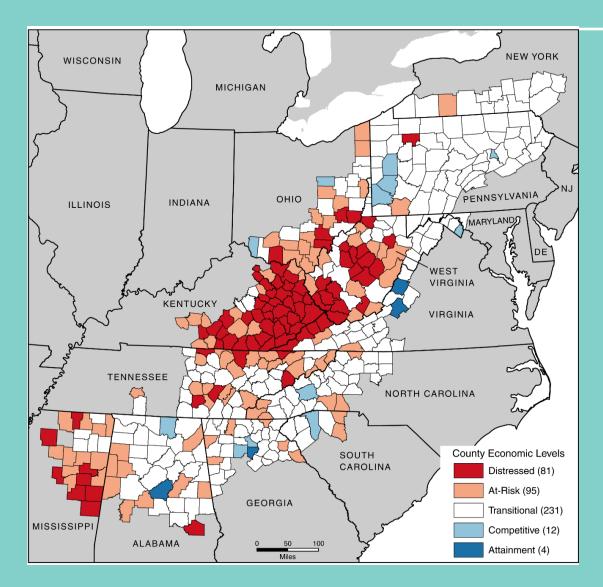
Funded with <u>The Infrastructure Investment and Jobs Act</u> (IIJA) of 2021, which provided the ARC with \$200 million per year for five years.

ARC launched ARISE to strengthen Appalachian business and industry, and to grow and support the development of new economic opportunities across multiple states.

- 1.) building businesses,
- 2.) building workforce ecosystems,
- 3.) building infrastructure,
- 4.) building regional culture and tourism, or
- 5.) building leaders and community capacity.

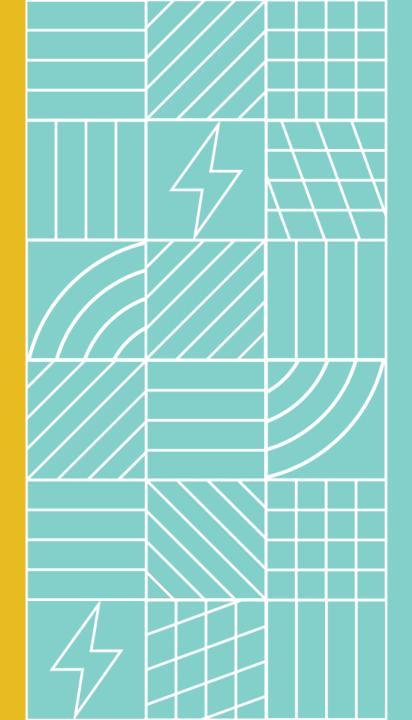
Only available in the Appalachian Region.

## **ARC- COUNTY ECONOMIC STATUS, FY 2022**



ARC's five county economic status designations are based on three indicators: three-year average unemployment rates, per capita market income, and poverty rates.

- **Distressed:** The most economically depressed counties, ranking in the worst 10% of the nation's counties. In FY 2019, 81 Appalachian counties are designated as distressed.
- At-risk: Counties at risk of becoming distressed.
- **Transitional**: Counties transitioning between at-risk and competitive status.
- Competitive: Counties that are able to compete in the national economy but don't rank in the highest 10% of the nation's counties.
- Attainment: The economically strongest counties, ranking in the best 10% of the nation's counties.



## MATCH REQUIREMENTS

(MATCH RATES ARE DETERMINED BY COUNTY ECONOMIC STATUS DESIGNATIONS)

County Designation	Max ARC	Min Match
Distressed	80%	20%
At-Risk	70%	30%
Transitional	50%	50%
Competitive	30%	70%
Attainment	0%	100%

#### **ARISE: FUNDING AVAILABILITY**

#### **Planning Grants:**

## Funding Availability × \$10 M

#### **Max Grant Size**

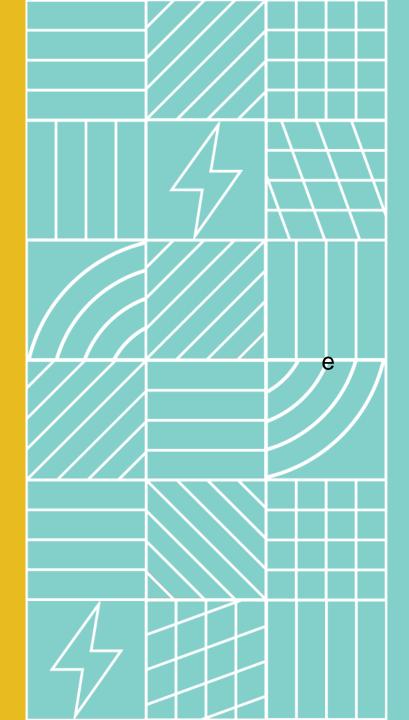
✓ \$500,000

#### **Anticipated Project Length**

✓ Up to one year

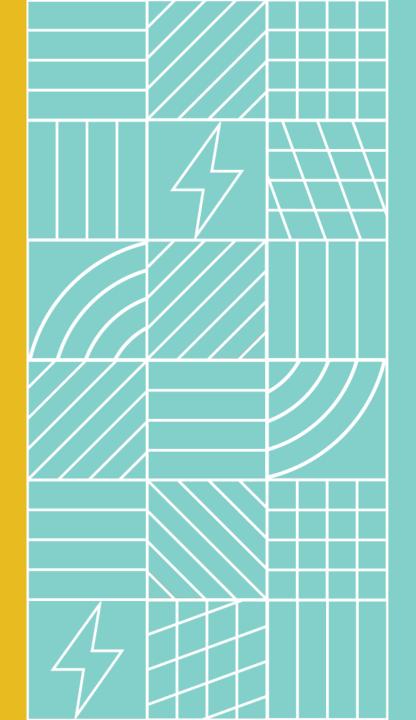
#### Implementation Grants:

- Funding Availability
- ✓ \$63.5 M
- Max Grant Size
- ✓ \$10 M
- Anticipated Project Length
- ✓ Up to five years



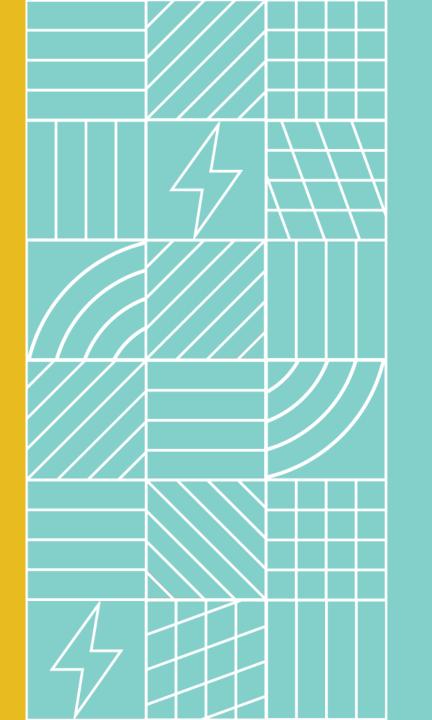
#### **ARISE: WHO IS ELIGIBLE?**

- ✓ Local development districts (LDDs);
- ✓ Indian Tribes or a consortium of Indian Tribes;
- ✓ States, counties, cities, or other political subdivision of a state, including a special purpose unit of a state or local government engaged in economic or infrastructure development activities, or a consortium of political subdivisions;
- ✓ Institutions of higher education or a consortium of institutions of higher education;
- ✓ Public or private nonprofit organizations or associations.



#### **KEY ELIGIBILITY FACTORS**

- ✓ Projects must serve and benefit, at a minimum, two (2) states within a portion of the Appalachian Region.
- ✓ There must be at least two (2) eligible organizations collaborating across more than one Appalachian Region state.
  - At least one (1) partner in each state impacted.



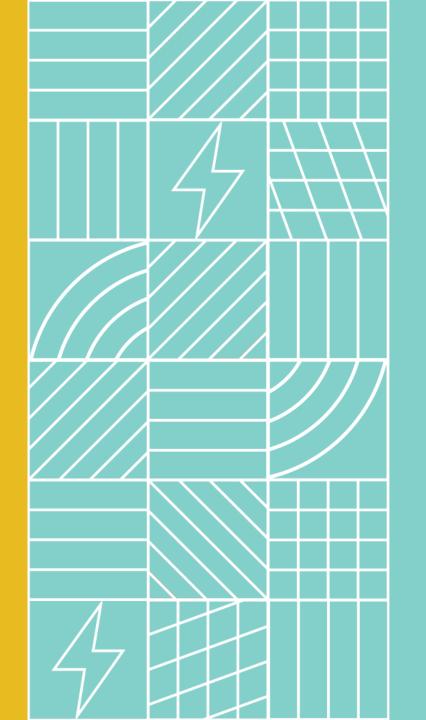
## **INTERESTED IN APPLYING?**

1. Design your Multistate Project

2. Project Summary to State Program Managers

3. Concept Paper

4. Invitation to Apply > Submission



#### **FUNDING AVAILABILITY**

# **Important Dates**

ARC is accepting ARISE concept papers on an ongoing basis. Concept papers will be reviewed in batches every two months starting after the first submittal deadline.

1st round: October 31, 2023

2nd round: December 31, 2023

3rd round: February 29, 2024

4th round: April 30, 2024

5th round: June 30, 2024

#### ARISE: AVAILABLE RESOURCES

**ARISE Frequently Asked Questions** 

**Multistate Collaboration Toolkit** 

**ARISE Application Checklist** 

**ARC Strategic Plan 2022-2026** 

**State Plans and Strategies** 

**State Program Managers** 

www.arc.gov/arise/

www.arc.gov/ariseapplication-information/

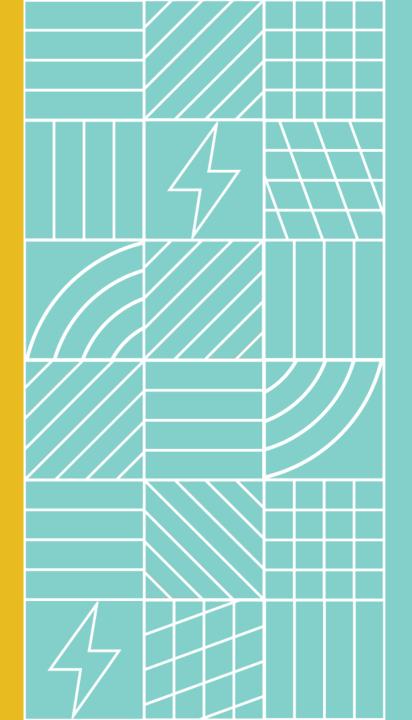


## PARTNERSHIPS FOR OPPORTUNITY AND WORKFORCE AND ECONOMIC REVITALIZATION INITIATIVE (POWER)

- Help communities and regions that have been affected by job losses in coal mining, coal power plant operations, and coal-related supply chain industries due to the changing economics of America's energy production.
- Over \$420 million invested in 507 projects impacting 365 coal-impacted counties since 2015.
- In 2021, a grant awarded for the purpose of implementing the Appalachian Solar Finance Fund.
- ARC plans to release a notice of solicitations of applications in early 2024.

https://www.arc.gov/grants-and-opportunities/power/

# ELECTIVE PAY (IRA)



### **ELECTIVE PAY (DIRECT PAY)**

- Allows applicable entities to benefit from some clean energy tax credits. (Tax-exempt & governmental entities that would otherwise be unable to claim these credits because they do not owe federal income tax)
- Treats the amount of the credit as a payment of tax and refunding any resulting overpayment.
- Certain applicable credits offer higher credit amounts to projects that:
  - 1- pay prevailing wages and use registered apprentices,
  - 2- are located in low-income communities or energy communities, or
  - 3- meet certain domestic content requirements.

#### WHO IS ELIGIBLE FOR DIRECT PAY?

#### **General:**

- 1- Tax-exempt organizations
- 2- States
- 3- Political Subdivisions (local governments)
- 4- Indian tribal governments
- 5- Alaskan Native Corporations
- 6- TVA
- 7- Rural electric cooperatives
- 8- US territories and political subdivisions
- 9- Agencies & instrumentalities of state, local, tribal and US territorial

governments

- Carbon dioxide sequestration (45Q credit)
- Production of clean hydrogen (45V credit)
- Advanced manufacturing production (45X credit)

- Public charities
- Private foundations
- Social welfare organizations
- Labor, agricultural, horticultural organizations
- Business leagues
- Religious or apostolic organizations

Electing taxpayers

### 12 TAX CREDITS ELIGIBLE FOR ELECTIVE PAY

- 1. Energy Credit (48)
- 2. Clean Electricity Investment Credit (48E)
- 3. Renewable Electricity Production Credit (45), 4. Clean Electricity Production Credit (45Y)
- 5. Commercial Clean Vehicle Credit (45W)
- 6. Zero-emission Nuclear Power Production Credit (45U)

- 7. Advanced Manufacturing Production Credit (45X)
- 8. Clean Hydrogen Production Credit (45V), (Form 7210)
- 9. Clean Fuel Production Credit (45Z)
- 10. Carbon Oxide Sequestration Credit (45Q)
- 11. Credit for Alternative Fuel Vehicle Refueling / Recharging Property (30C)
- 12. Qualifying Advanced Energy Project Credit (48C)

### HOW TO APPLY...

Identify Project & Credit project,
place in
service
Determine
tax year

Complete

e tax
return due
date
(tax-exempt
& gov.
entities- 4.5
months
after end of
taxable
year)

Determin

Pre-filing
Registration
(registration #
= 1 clean
energy
property in
one tax year)

4

File tax return (990-T) (remember the registration #)

5

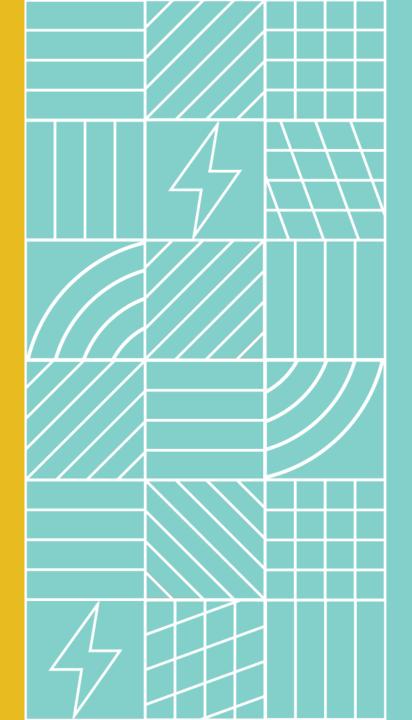
Payment from IRS (after the due date of return)

2

5

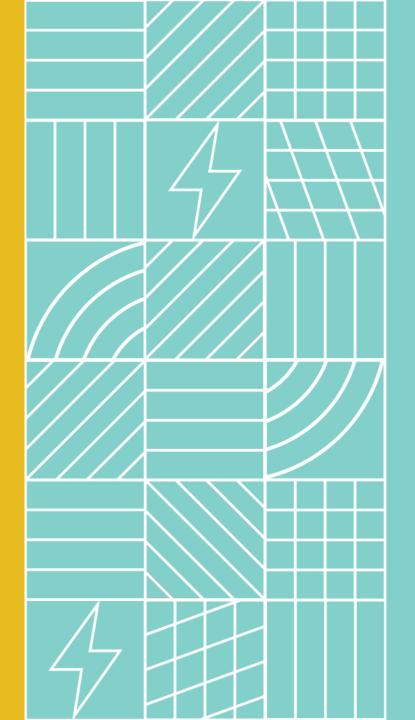
6

### IRA DIRECT PAY TAX CREDIT BONUSES



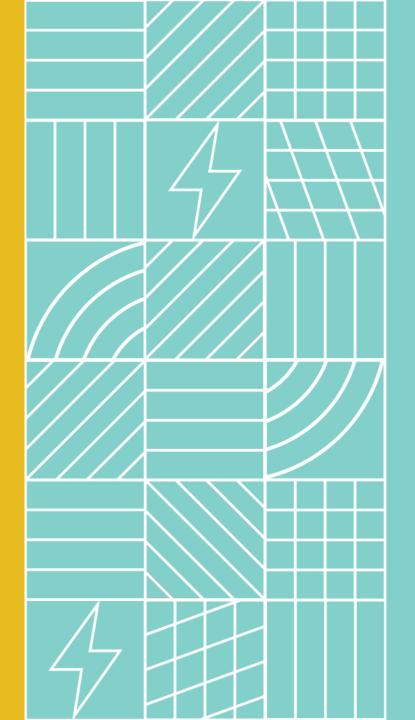
### PREVAILING WAGES & APPRENTICESHIP

- 1. Taxpayers may receive increased tax benefits by meeting prevailing wage and apprenticeship requirements.
  - Section 30C alternative fuel vehicle refueling property credit
  - Section 45 renewable electricity production credit
  - Section 45Q credit for carbon oxide sequestration
  - Section 45V credit for production of clean hydrogen
  - Section 45Y clean electricity production credit
  - Section 45Z clean fuel production credit
  - Section 48 energy credit
  - Section 48C qualifying advanced energy project credit
  - Section 48E clean electricity investment credit
  - Section 179D energy efficient commercial buildings deduction



## DOMESTIC CONTENT BONUS

- 2. It applies to **facilities or projects** built using the required amounts of domestically **produced steel or iron**, and **manufactured products**.
  - Available for certain Production Credits for renewable electricity (§§ 45, 45Y)
  - Available for Investment Credits for renewable energy (§§ 48, 48E)

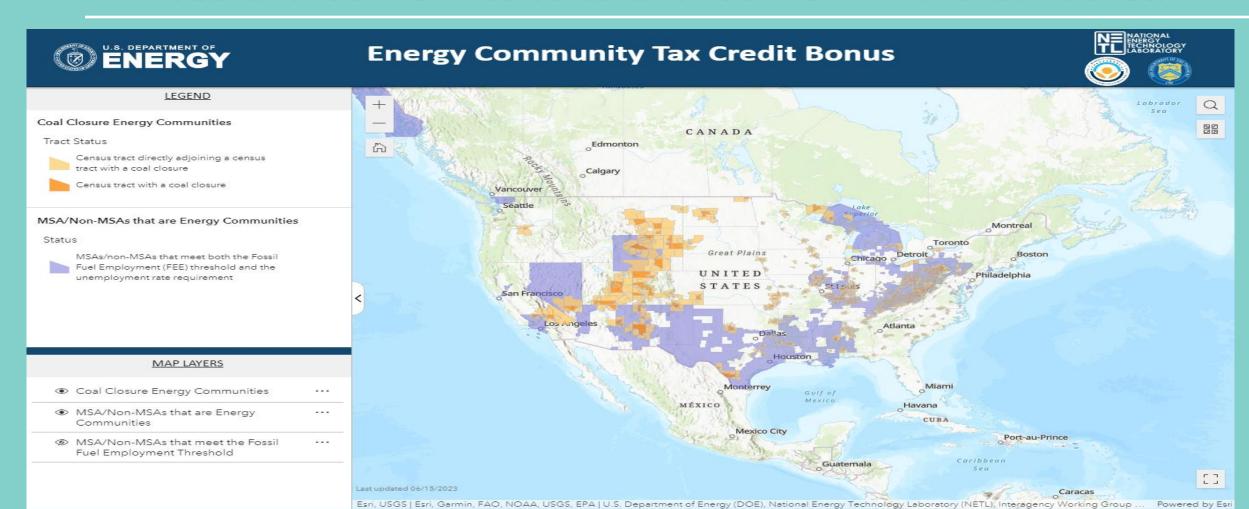


### **ENERGY COMMUNITY BONUS**

- 3. It applies to projects located in historical energy communities
  - areas with closed coal mines or
  - areas with coal-fired power plants.
  - Available to brownfield sites
  - Available to areas that have significant employment
  - Areas with local tax revenues from fossil fuels and higher than average unemployment.

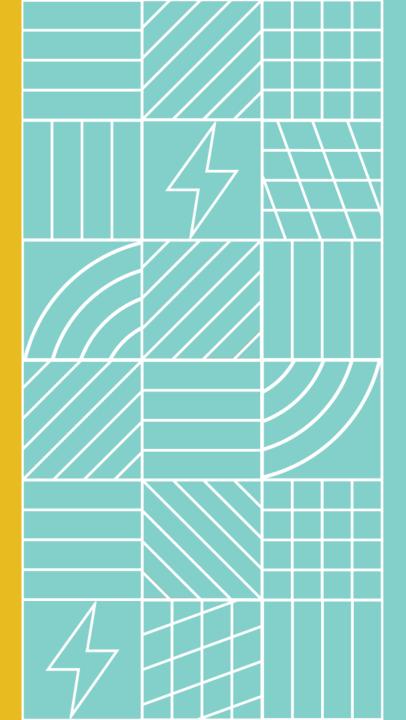
#### TOOL TO IDENTIFY ENERGY COMMUNITIES...

HTTPS://ENERGYCOMMUNITIES.GOV/ENERGY-COMMUNITY-TAX-CREDIT-BONUS/









## LOW-INCOME COMMUNITIES BONUS

4. Provides an increased credit of 10 % points or 20 % points to certain applicable credits that are part of the investment tax credit (§§ 48, 48E) for certain facilities in one of four categories.

- (1) located in a low-income community,
- (2) located on Indian land,
- (3) installed on certain federal housing projects, or
- (4) serving low-income households.

#### RESOURCES

- 1. The Internal Revenue Servicewww.irs.gov/credits-deductions/elective-pay-and-transferability
- 2. The White Housewww.whitehouse.gov/cleanenergy/clean-energy-tax-provisions/
- 3. The Interagency Working Group on Coal and Power Plant Communities and Economic Revitalization-https://energycommunities.gov/funding-opportunities/tax-credits/

### THANK YOU!