

CPAs & BUSINESS ADVISORS

ADOH CLEAN ENERGY SHOP CLASS 101

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PRESENTER





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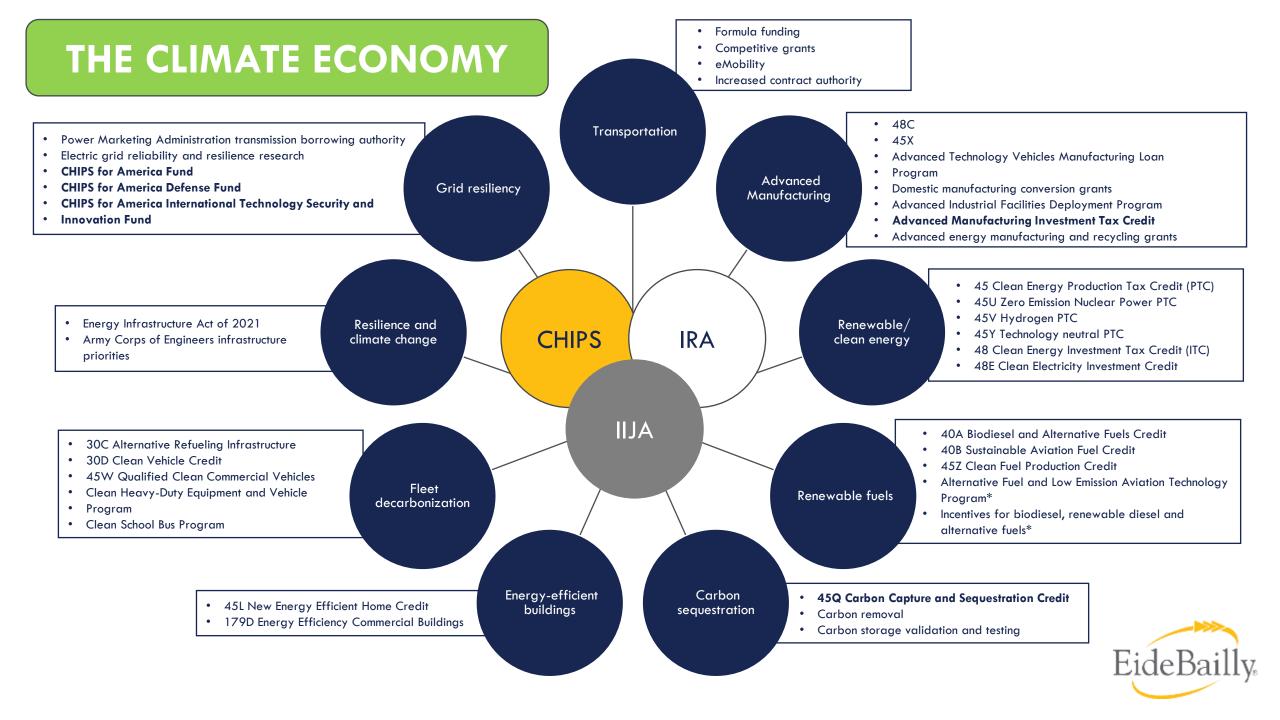
TODAY'S AGENDA

The Climate Economy **Energy Credits & Exempt Organizations Investment Credits Bonus Amounts Production Credits** Monetization Planning Considerations





THE CLIMATE ECONOMY



COME TOGETHER

Leadership

Finance & Accounting Teams

Facility
Engineers &
Design Team

Sustainability Planning

Accounting, Documentation & Verification





ENERGY CREDITS

INFLATION REDUCTION ACT OF 2022 — CLEAN ENERGY ROADMAP

Clean electricity & reducing carbon emissions

Extending/modifying existing credits

- 45 Production tax credit (PTC)
- 48 Energy credit (ITC)
- 45Q carbon capture

New credits

- 48 increase ITC for solar in low-income communities
- 45U Zero emission nuclear power PTC

Clean fuels

Extending/modifying existing credits

- 40, 40A, 6426, 6427 biodiesel, alternative fuels
- 40(b)(6) second generation biofuel

New credits

- 40B/6426/6427 sustainable aviation fuel blender credit
- 45V PTC clean hydrogen

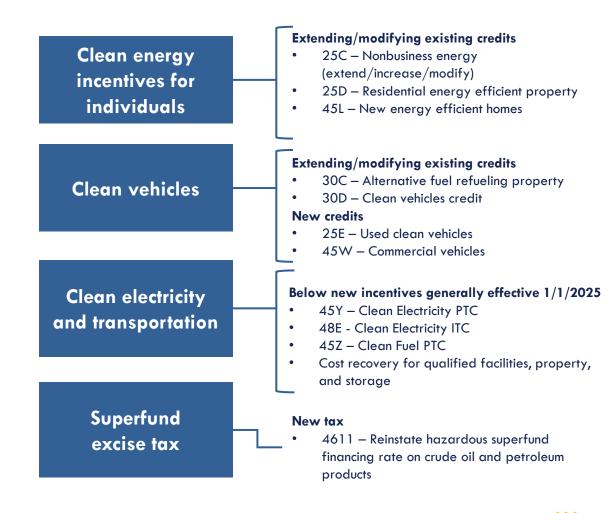
Manufacturing & energy security

Extending/modifying existing credits

- 48C Advanced energy project credit new credit allocation
- 179D Energy efficient commercial buildings

New credits

45X – Advanced manufacturing PTC





INFLATION REDUCTION ACT — MONETIZING CREDITS

Section 6417: Direct Pay

- Eligible for 1st 5 years:
 - 45V Clean Hydrogen
 - 45X Advanced Manufacturing Production
 - 45Q Carbon Oxide Sequestration
- Eligible Entities:
 - Tax-exempt
 - State or political subdivision
 - TN Valley Authority
 - Tribal Government
 - Alaska Native corporation
 - Rural Electrical Co-ops
 - Certain Partnerships and S Corporations

Section 6418: Transferability

- Everyone not listed in 6417
- Transfer for Cash, cannot be resold
- Buyer not eligible for direct pay
- Proceeds not includable as income or expense
- Passive vs Active treatment
- Risk on Transferee
- Consideration for tax insurance instrument





INVESTMENT CREDITS

ENERGY CREDITS

Clean Energy Investment Tax Credit (Section 48)



Investment in equipment that produces energy from alternative sources:

- Solar
- Wind
- Geothermal⁺
- Fuel cells
- Microturbines
- Combined heat and power systems

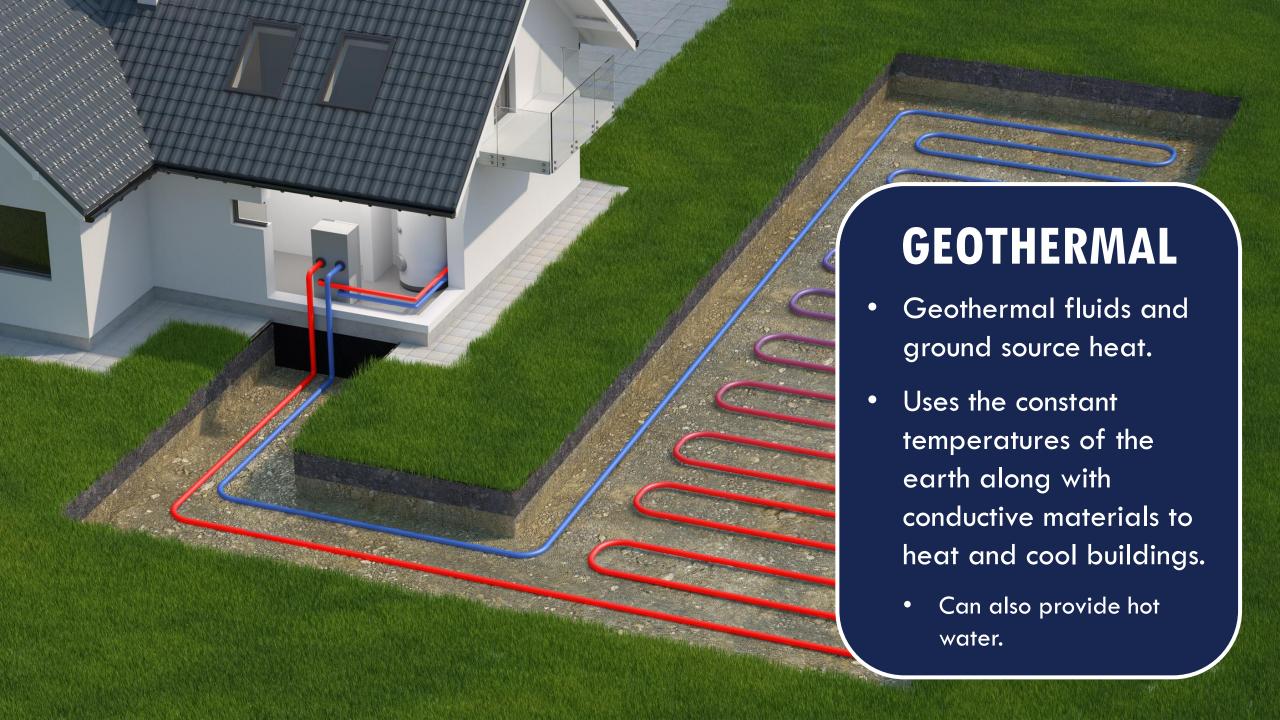
- Equipment that recovers waste energy
- Energy storage
- Biogas
- Microgrid controllers*
- Electrochromic glass*

+ = stays under 2035

^{* =} doesn't generate electricity, no 1 mw, no 48E











ENERGY STORAGE

- Batteries
- Thermal
- Hydrogen
- Mechanical



FUEL CELLS

- Fuel Cells:
 - Hydrogen + Oxygen + Catalyst= Electricity + Heat + Water
- Linear Generator:
 - Hydrogen + Ammonia » Magnets+ Copper Coils » Electricity
- Eligibility:
 - Fuel cell stack assembly with capacity > 0.5kW
 - Linear generator assembly with capacity > 1kW

COMBINED HEAT & POWER (COGENERATION)

- Gas-fired or steam turbine produces electricity; waste heat/steam is recovered and used for heating/cooling.
- An energy efficiency standard of at least 60%.
- 20% or greater must be achieved by the nonprimary source.







WASTE ENERGY RECOVERY

- Converts waste energy (usually heat) into electricity:
 - Ovens, kilns, furnaces, boilers
 - Mechanical motors and engines
 - Exothermic chemical processes
- Typically, industrial applications
- Eligibility:
 - Capacity > 50 MW
- No efficiencies or power management systems required

ELECTROCHROMIC GLASS

- Uses solar energy to illuminate the inside of a structure using fiber-optic distributed sunlight.
- Uses electricity to change light transmittance properties of glass.



MICROGRID CONTROLLERS

- Microgrid Controllers monitor and control the energy resources and loads on a Qualified Microgrid.
- Qualified Microgrid:
 - Generates between 4kW and 20MW.
 - Can operate both in connection with and independent from main grid.









ENERGY CREDITS

Clean Energy Investment Tax Credit

Credit Percentage

- Basic credit = 6%
- If wage rules met = 30%
- If domestic content = + 10%
- In energy community = + 10%
- Additional bonuses for solar and wind with an environmental justice allocation.

Basis Considerations

- Cost Segregation Needed
- Section 263A (UNICAP)
- Interconnected property
- Incremental costs
- Dual use property (TR 1.48-9)
- Basis reduction 50% of credit
- Tax-exempt bonds & Grants

QUALIFIED ENERGY PROPERTY

Clean Electricity Investment Tax Credit (Section 48E)

Investment in equipment that:

- Produces clean electricity
- Greenhouse Gas Emissions rate < 0
- Technology neutral

Investment in energy storage technology:

- Electrical
- Thermal
- Hydrogen



^{*}Placed in service post 12/31/2024.



BONUS AMOUNTS

INFLATION REDUCTION ACT — BONUS AMOUNTS

- Wage and apprenticeship rules for clean energy credits (Notice 2022-61, Final Treasury Regulations);
- Energy community bonus credit (Notice 2024-30, Notice 2023-45, Notice 2023-47, and Notice 2023-29);
- Domestic content bonus credit (Notice 2023-38 and Notice 2024-41); and
- Low-income community energy investment credit (Rev. Proc. 2023-27, Rev. Proc. 2024-19, and T.D. 9979).
- Definitions of energy property and rules (Proposed regulations §1.48-13 and §1.48-14 (REG-132569-17)).

PREVAILING WAGE

PREVAILING WAGE

- Defined by Davis Bacon
- Continuity Requirement
- Maintained by Taxpayer
- Risk maintained by Taxpayer
- One Megawatt Exception
- Beginning of Construction Exception



DOCUMENTATION

- Name & ID Number
- WH Exemptions
- Work Classification
- Hours worked
- Rate of Pay, including Fringe Benefits
- Gross Amounts Earned
- Deductions
- Net Wages Paid

APPRENTICESHIP

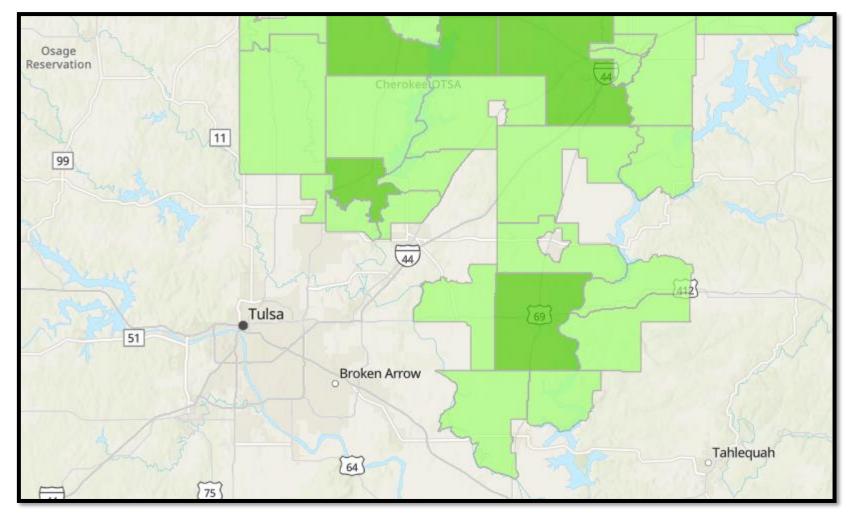
REGISTERED APPRENTICESHIP PROGRAM

Compliance:

- Participation Requirement:
 - 1 in 4 laborers.
- Labor Hours Requirement:
 - 10%-15%.
- Good Faith Effort:
 - Failed to respond within 5 days.
 - Denied Requests.
- Apprenticeship Cure Provision:
 - \$50 x labor hours needed.
 - \$500 if intentional disregard.



ENERGY COMMUNITY



IRA Energy Community Tax Credit Bonus (doe.gov)



- Census tract directly adjoining a census tract with a coal closure.
- Census tract with a coal closure.
- MSAs/non-MSAs that meet both the Fossil Fuel Employment (FEE) threshold and the unemployment rate requirement.



DOMESTIC CONTENT

- §45(b)(9), Notice 2023-38, Notice 2024-41.
- Timely certify to Treasury any "steel, iron, or manufactured product of a component...was produced in the U.S.".
- Manufactured Product of a Component:
 - Must be a component of an applicable project.
 - At least 40% of the total of manufactured products are produced, mined, or manufactured in the U.S.
 - Potential safe harbors, subject to Federal Transit Authority's analysis.
- Guidance mirrors Buy American Act, suggests similar documentation.
- New Safe Harbor for solar, land-based wind, and battery storage.







DOMESTIC CONTENT — PHASE OUT IRC §45(B)(10)

If taxpayer is making a 6417 election, the amount of the credit is 100% of the value of the credit, if the facility:

- Construction begins prior to January 1, 2024, and
- Meets the domestic content requirements under §45(b)(9), or
- Has a maximum net output less than 1 megawatt

The amount of the credit is 90% of the value of the credit, if the facility:

- Construction begins in calendar year 2024 or later
- Does not meet the domestic content requirements under §45(b)(9), or
- Has a maximum net output greater than 1 megawatt, or
- Meets an exception under 45(b)(10)(D).

Exceptions under 45(b)(10)(D)

- Increased Costs Exception 25%
- Non-Availability Exception.



CLEAN VEHICLES & REFUELING INFRASTRUCTURE

ENERGY CREDITS & INCENTIVES

ELECTRIC COMMERCIAL FLEET

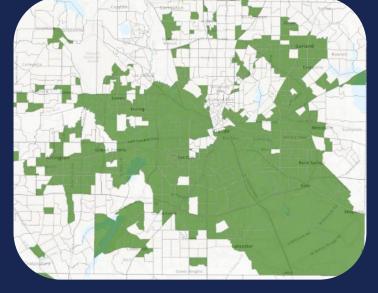
- Section 45W
- 30% of the basis (if not powered by gas/diesel)
 OR
- Incremental cost of vehicle
- Under 14,000 lbs, up to
 \$7,500 per vehicle
- Over 14,000 lbs, up to \$40,000 per vehicle

EV INFRASTRUCTURE

- Section 30C
- Alternative fuel vehicle refueling and charging property
- Located in low-income and non-urban areas
- 6% or 30%
- Up to \$100,000 per charging unit

LOW INCOME AREAS

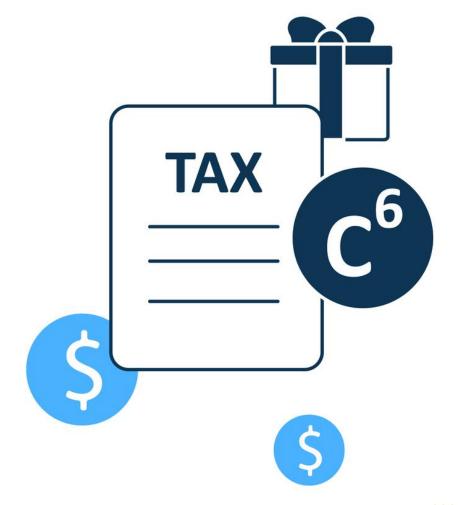
30C Tax Credit Eligibility
Locator (arcgis.com)





MONETIZING THE ENERGY CREDIT

- Registration Process
 - Placed in Service
 - 120 days before filing
- Annual Tax Filings
- Documenting timeline
 - Beginning of Construction
 - Placed in Service
- Recapture risk when energy credits are monetized:
 - Must hold the property for 5 years.







PLANNING CONSIDERATIONS

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DESIGN & PLANNING

- 1. Defining the scope of project, 30% designs.
- 2. Identify qualifying energy property and estimate potential incentives.
- Review and advise on increased percentage requirements.
- Review bids regarding prevailing wage and apprenticeship.
- Collaborate with design team on approach to collect supporting data.
- 6. Understanding financing impacts.

UNDER CONSTRUCTION

- 1. Monitor increased percentage requirements.
- 2. Track and/or review prevailing wage and apprenticeship.
- 3. Assist with any foot faults on increase credit percentages and bonus amounts.
- 4. Review domestic content data.
- 5. Monitor changes to project scope and impacts on incentives.

MOSTLY COMPLETE

- 1. Cost componentization analysis.
- 2. Collect supporting data for increase credit percentage and bonus amounts.
- 3. Application and registration filings.
- 4. Calculations.
- 5. File and claim credits.

QUESTIONS?



THANK YOU!

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