The Inflation Reduction Act

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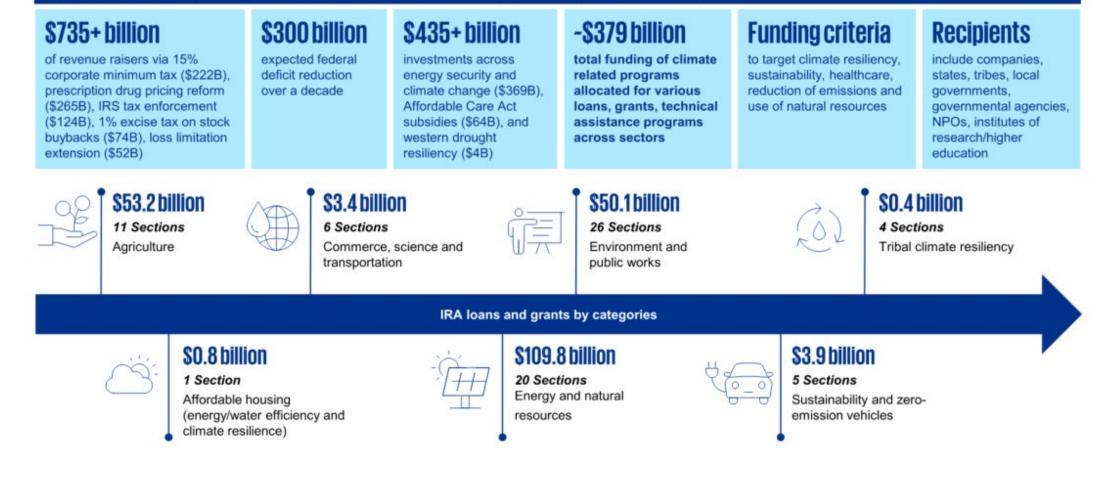
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Inflation Reduction Act (IRA)



The Inflation Reduction Act of 2022 (IRA)

IRA aims at reduction of inflation and funds clean energy investment via loans, grants, tax credits and rebates



The Inflation Reduction Act of 2022 (IRA)

Climate change

IRS tax enforcement

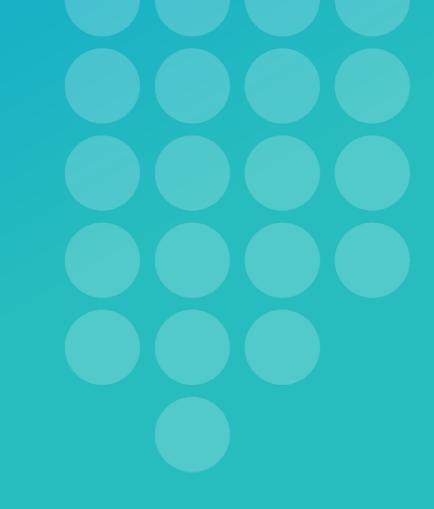
Prescription drug pricing reform

Electrification rebates

Reduce inflation Support for energy communities

Clean vehicles Drought resiliency **Environmental justice** Corporat Alternative refueling property **Clean energy** Superfund inflation Stock buyback revenue Environmental justice DOE loans and grants **Alternative clean fuels** Reduce **Domestic manufacturing**

Direct Pay The part that everyone missed



"Direct Pay"

makes tax-exempt agencies eligible for tax credits that were previously inaccessible without private partners

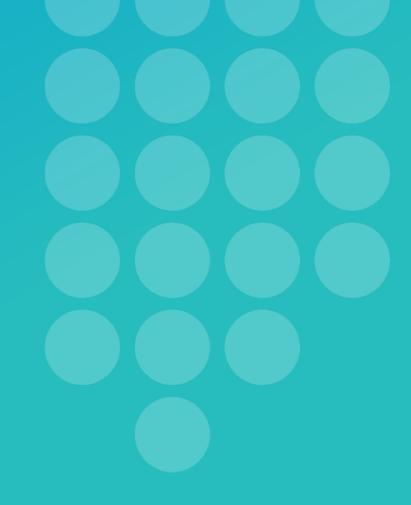
Prior to this direct pay option, tax exempt agencies were ineligible for investment tax credits. The only access to these credits was through public-private partnerships (P3) or power purchase agreements (PPA). In theory these credits were "passed through" in PPA rates (for solar photovoltaics, for example), but these private partners also keep a portion of the profit or revenue.



Note: W&A requirements or domestic content requirements must be met for direct pay [PART 8 – CREDIT MONETIZATION AND APPROPRIATIONS]

Qualified Biogas

Near-Term Extension and Modification to Investment Tax Credit



The near-term Investment Tax Credit has been expanded to include biogas.

Biogas projects that capture gas for sale or productive use are now eligible.



What and When: Investment Tax Credit vs Zero Carbon Electricity Tax Credit

Construction starts after December 31, 2024: Combined heat and power,
solar, energy storage, fuel cells, wind, qualified biogas, microgrid

Electricity produced must have a GHG emissions rate no greater than zero

§ 48 Investment tax credit for projects placed in service after 2022

Zero Carbon Electricity Technology-Neutral ITC for 2025-2032ish

Clean Fuel

Technology-Neutral PTC for 2025-2027

Show me the money

What: Comparison of ITC Rates

-Credit values range from 6% to 50% of eligible project costs based on the following:

- 6% base credit rate for a **qualified** project
- 5x base credit bonus for projects that meet prevailing wage and apprenticeship (PWA) requirements
- 2% base credit bonus for projects meeting domestic content requirements
- 2% base credit bonus for projects located in an "energy community"

Base ITC rate	Enhanced ITC with PWA		Energy Community	Potential Total ITC rate
6%	5x of 6% (or 30% total)	+ 10%	+ 10%	= 50%

"Eligible Costs" – What are eligible costs under the Investment Tax Credit?

Should be eligible

- Anerobic Digesters
- Digester Liners and Covers
- Biogas Process Piping
- Process controls & monitoring systems
- Biogas Production Equipment
- CHP Turbines & Generators
- CHP Heat Recovery Steam Generators
- CHP Process Piping
- CHP Substation Transformer

Maybe eligible

- Electrical Systems
- HVAC Systems
- Water Systems
- Natural Gas Systems
- Sitework Associated to Foundations
- Concrete and Steel

Not eligible

- Buildings
- Site Clearing and Earthwork
- Fencing
- Landscaping
- Security Systems
- Transmission and Distribution Systems

Additional guidance from the IRS is still pending to confirm eligible costs

This table has been prepared based on previous application of the ITC for wind and solar projects

Wage and Apprenticeship Requirements (Construction)

100% prevailing wage for laborers and mechanics



As a percentage of total labor hours

How: ITC Domestic Content Bonus Requirements/ Direct Pay Phase-out

For projects that do not meet the domestic content requirements, elective payment phases out:

- Construction starts before 2024: 100%
- Construction starts in 2024: 90%
- Construction starts in 2025: 85%
- Construction starts after 2025: 0%

*For projects with a maximum net output greater than 1 MW

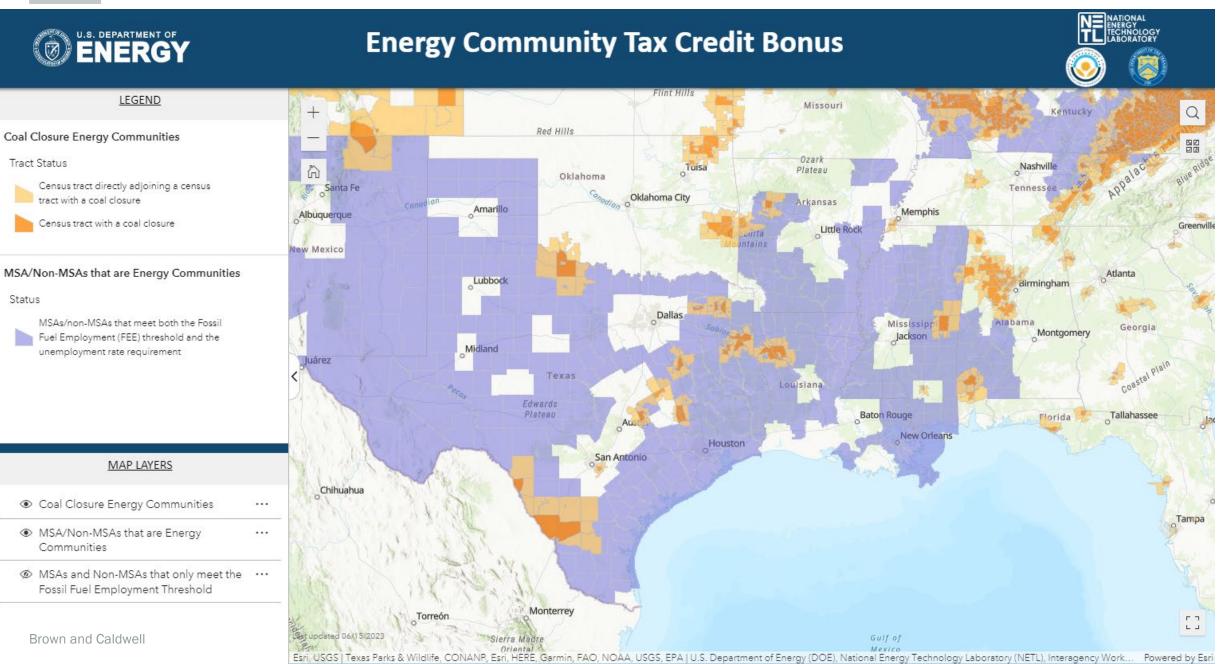
Domestic Content

To meet the domestic content requirement the facility must use 100% domestic iron and steel (structural) and a specified percentage manufactured products, which changes by year:

- 2024: 40%
- 2025: 45%
- 2026: 50%
- 2027 and later: 55%

Where: Energy Communities and Justice40 Initiative

- The IRA advances the Justice40 initiative advancing the development and deployment of clean energy technologies in disadvantaged communities by increasing the ITC:
 - Brownfield sites
 - Communities formerly reliant on coal, oil, or natural gas industries <u>and</u> with an above average unemployment rate
 - Census tract in which after 1999 a coal mine or coal-fired electric generating unit has been retired
 - Low-income communities (wind and solar)
- IRA Energy Communities (arcgis.com)



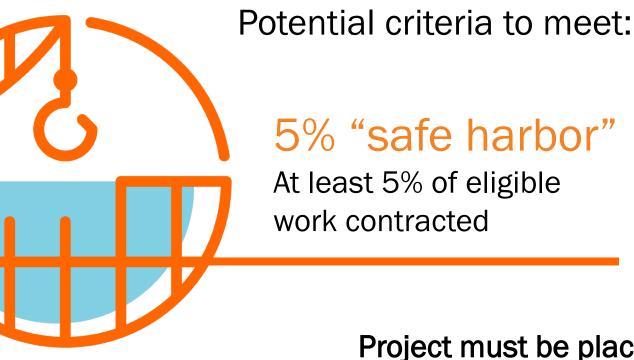
- Coal Closure Energy Communities
- MSA/Non-MSAs that are Energy Communities
- MSAs and Non-MSAs that only meet the ... Fossil Fuel Employment Threshold

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Tract Status

Status

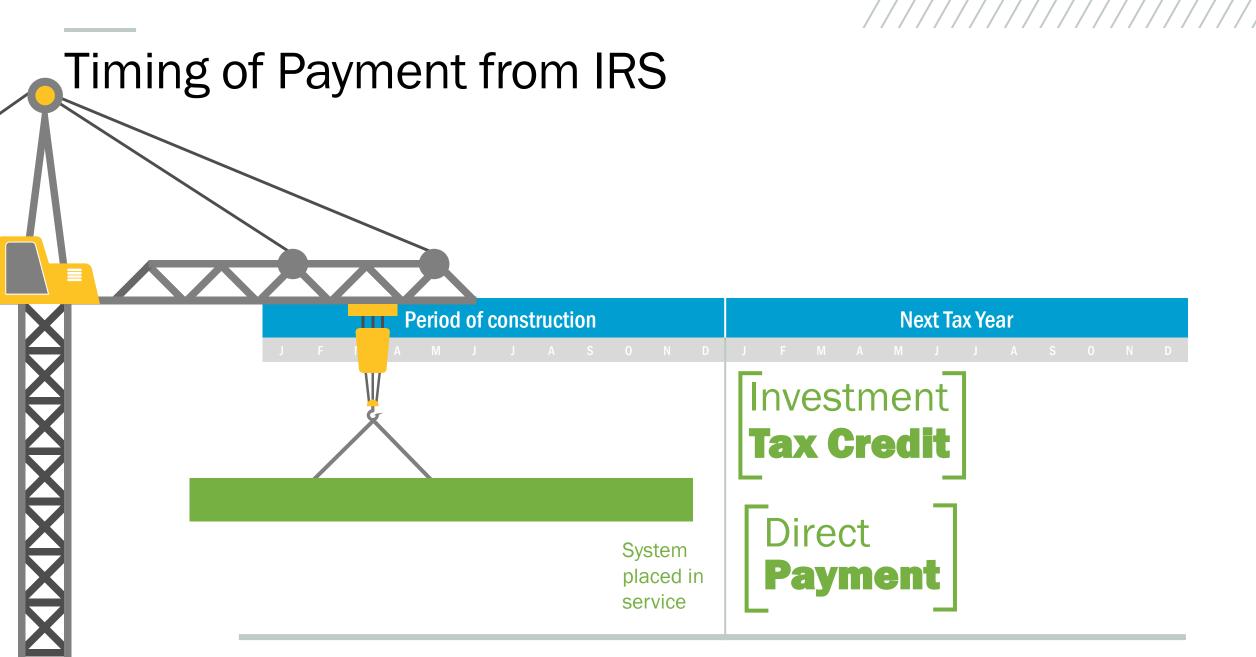
What defines a "before December 31, 2024" construction start?



Physical work test

Cause physical work to commence for eligible work. No minimum dollar amount. Must be pursuant to a binding written contract.

Project must be placed in service within 4 years



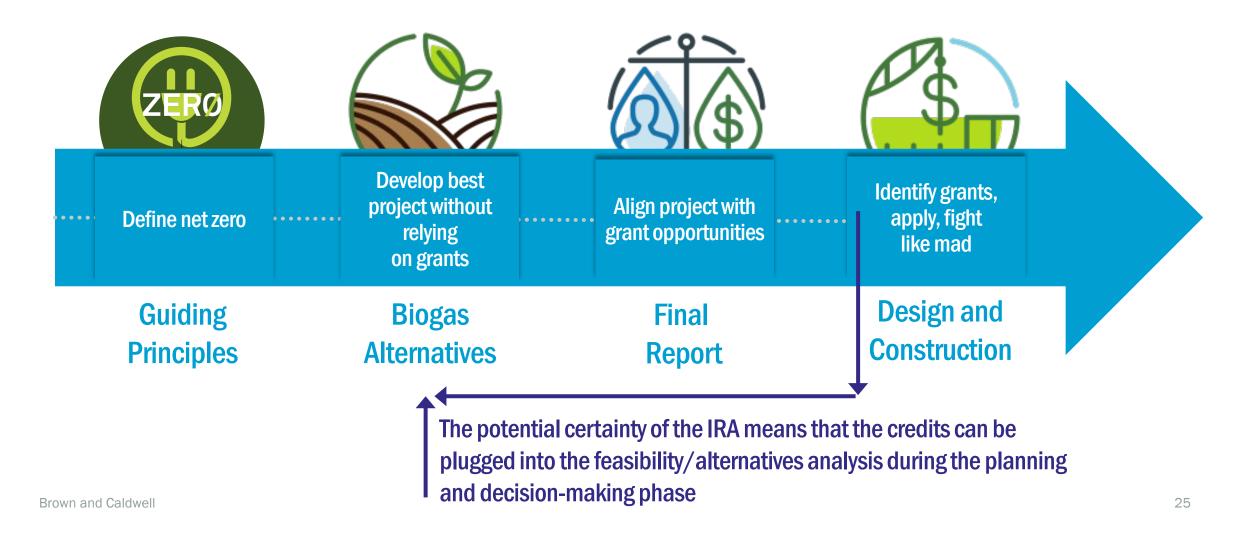
Investment Credit Tax Form (2022)

Line 12hh Worksheet

Use the following worksheet to calculate the amount to be entered on Form 3468, line 12hh. This worksheet is generally applicable for property placed in service after 2022.

	1. Energy storage technology property basis * × 30% 1	
	(0.30)	
Form 3468 Investment Credit Attach to your tax return.	OMB No. 1545-0155 2. Qualified biogas property basis *	
Department of the Treasury Internal Revenue Service Go to www.irs.gov/Form3468 for instructions and the latest information Name(s) shown on return	on. Attachment Sequence No. 174 3. Microgrid controller basis*	
Name(s) shown on return		
Part I Information Regarding the Election To Treat the Lessee as the Purchaser	of Investment Credit Property 4. Domestic content bonus credit **	
If you are claiming the investment credit as a lessee based on a section 48(d) (as in effect on Novem	<u> </u>	
following information. If you acquired more than one property as a lessee, attach a statement showi		
1 Name of lessor:		
2 Address of lessor:	Add the basis in property for the line numbers you entered on line 4a × 2% 4a.	
3 Description of property:	of the worksheet. Enter the total basis amount and multiply by the (0.02)	
4 Amount for which you were treated as having acquired the property		
Part II Qualifying Advanced Coal Project Credit, Qualifying Gasification Project C Energy Project Credit, and Advanced Manufacturing Investment Credit	Credit, Qualifying Advanced 4b. Satisfies requirements in section 45(b)(9)(B). List the line numbers from the Form 3468 used for this calculation.	
Part III Rehabilitation Credit and Energy Credit		
12 Energy credit:	Add the basis in property for the line numbers you entered on line 4b × 10% 4b. of the worksheet. Enter the basis amount and multiply by the (0.10)	
hh Other energy credits and special adjustments (see instructions)	12hh applicable credit rate increase	
	5. Energy communities **	
	5a. Doesn't satisfy requirements in section 48(a)(9)(B). List the line	
	numbers from the Form 3468 used for this calculation.	
	Add the basis in property for the line numbers you entered on line 5a × 2% 5a. of the worksheet. Enter the total basis amount and multiply by the (0.02)	
	applicable credit rate increase	
	5b. Satisfies requirements in section 48(a)(9)(B). List the line numbers	
	from the Form 3468 used for this calculation.	
	Add the basis in property for the line numbers you entered on line 5b × 10% 5b.	
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Why: Taking the uncertainty out of energy projects to move forward with confidence



Project Example - Columbus Bioenergy **COLUMBUS**

Project Scope

- New digesters, rehabilitate existing digesters, HSW receiving station and cogeneration
- Project Schedule
 - Original schedule included phase implementation 2025 2033
 - Combined scope and expedited design phase to 2023 to leverage ITC
- Estimated Construction Cost
 - \$150 \$200 million
- Estimated ITC credit \$75 million
- Evaluating other funding sources and incentives
 - GHGRF, RFS/eRIN

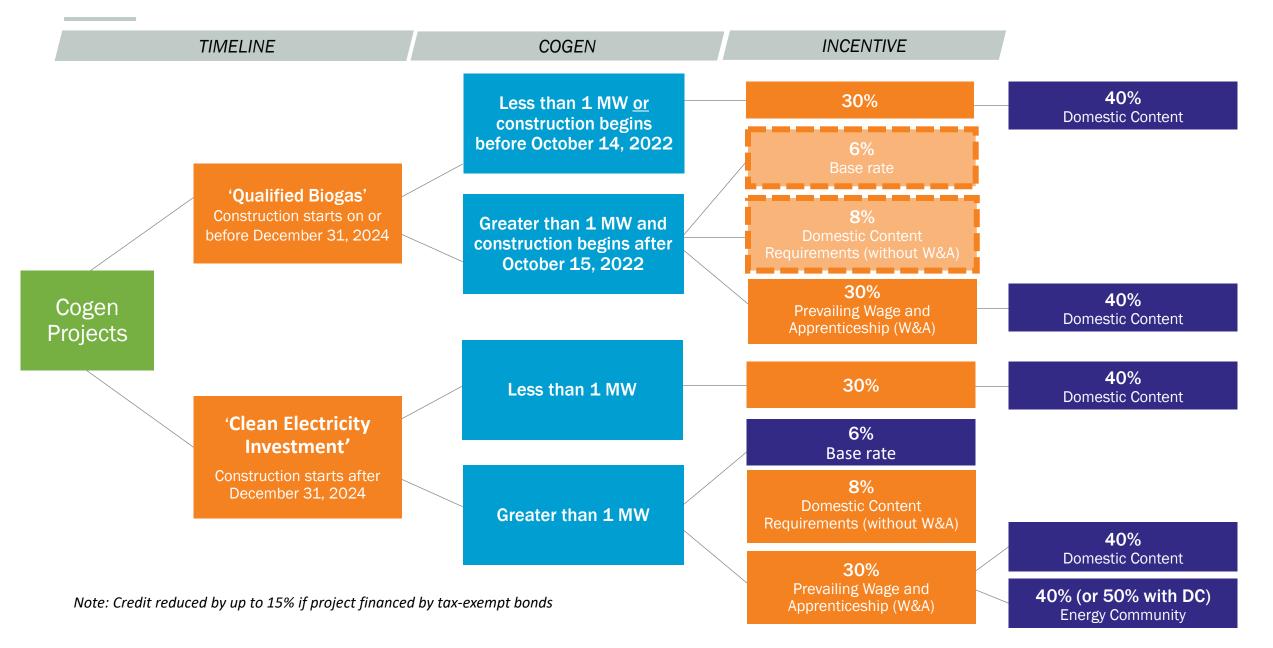
Thank you.

Questions?

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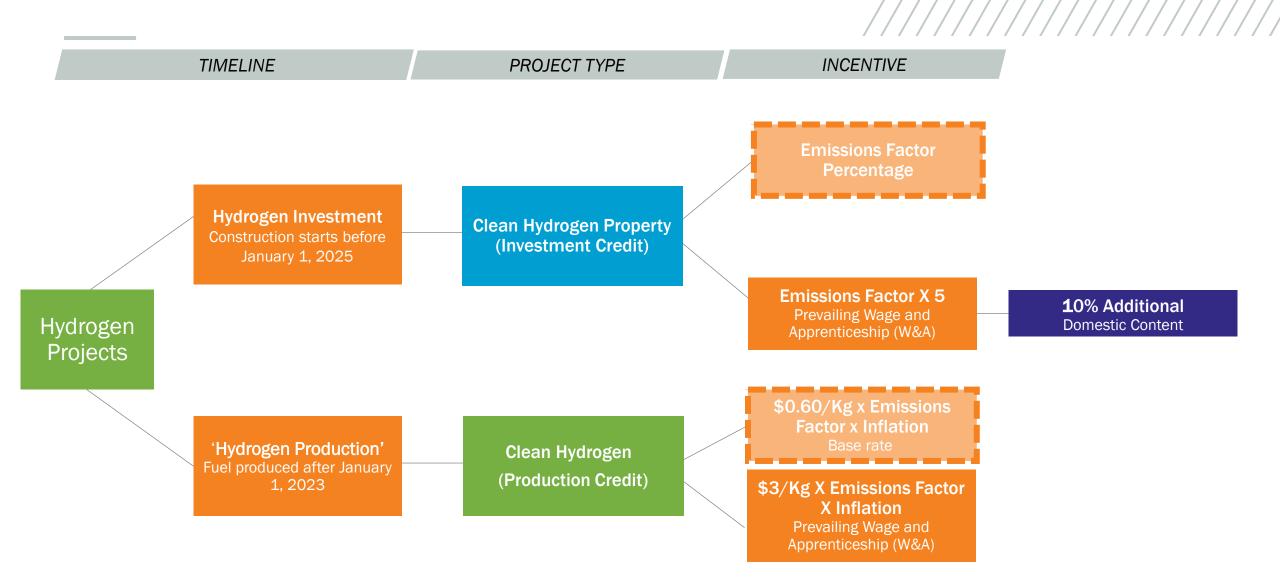


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Investment Tax Credit rates

- Project Scope
 - Anaerobic digestion, cogeneration, biogas upgrading to RNG
- Project Requirements and credits
 - Eligibility qualified biogas facility
 - Schedule begin construction no later than 12/31/2024
 - Credits prevailing wage/apprenticeship (PWA), domestic content and energy community

Base ITC credit rate	Enhanced ITC credit rate - PWA	Domestic content	Energy community	Potential total ITC credit rate
6%	5x of 6% (or 30% total)	+ 10%	+ 10%	= 50%



Note: Credit reduced by up to 15% if project financed by tax-exempt bonds



ITC analysis over the project lifecycle

