

Chair: Bridget J. Crawford, President, American Tax Policy Institute and Professor, Pace University School of Law

Moderator: Colin J. Lingle, Ph.D., Pace Energy and Climate Change Center

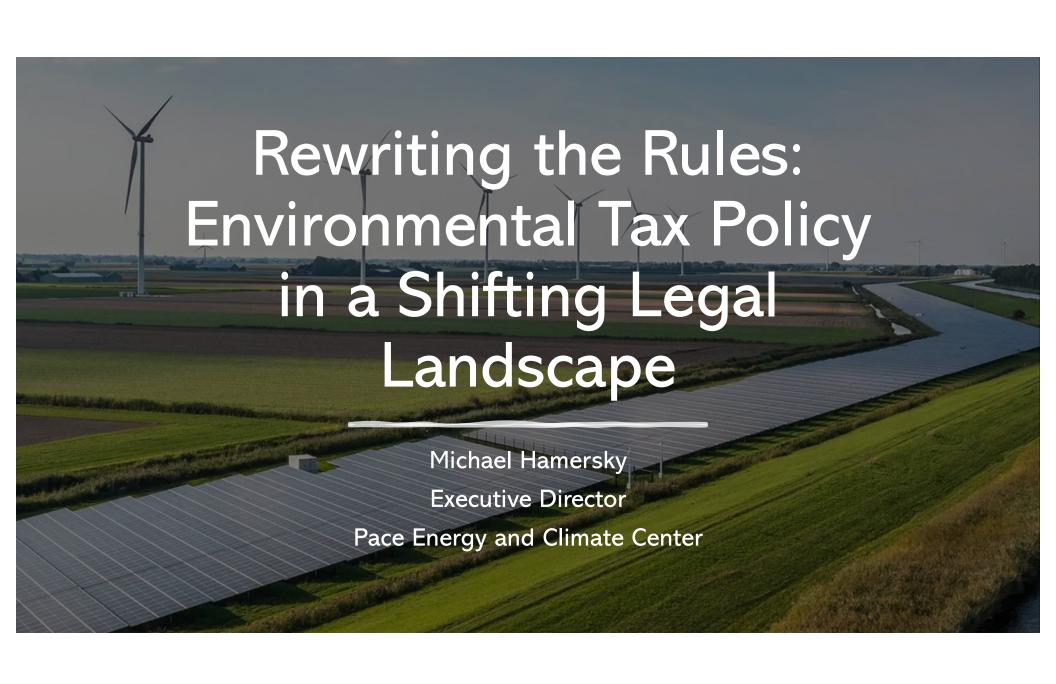
Michael Hamersky, Pace Energy and Climate Change Center Seth Hanlon, Tax Law Center, New York University School of Law Tracey M. Roberts, Sanford University Cumberland School of Law Amish Shah, Holland & Knight LLP







Samford University.
Cumberland School of Law





# **Tax Credit**

['taks 'kre-dit]

Money that taxpayers can subtract from the income taxes they owe.

### **Investment Tax Credit**



Historically Targeted Solar and Smaller Renewables



Percentage (30%) of System Cost



Intended to Incentivize Investment

# **ITC Extensions and Expirations**

Legislation	<b>Enacted Date</b>	Availability Period
Energy Tax Act of 1978	11/9/1978	10/1/1978 – 12/31/1982 • 10% for solar and wind (refundable)
Crude Oil Windfall Profit Tax Act of 1980	4/2/1980	1/1/1980 — 12/31/1985 • 15% for solar and wind (non-refundable) • Additional technologies now eligible
Tax Reform Act of 1986	10/22/1986	1/1/1986 – 12/31/1986 15% 1/1/1987 – 12/31/1987 12% 1/1/1988 – 12/31/1988 10%
Technical and Miscellaneous Revenue Act of 1988	11/10/1988	1/1/1989 – 12/31/1989 <b>10</b> %

Credit not applicable to wind

Legislation	<b>Enacted Date</b>	Availability Period
Omnibus Budget Reconciliation Act of 1989	12/19/1989	1/1/1990 – 9/30/1990 <b>10%</b>
Omnibus Budget Reconciliation Act of 1990	11/5/1990	10/1/1990 – 12/31/1991 <b>10</b> %
Tax Extension Act of 1991	12/11/1991	1/1/1992 – 6/30/1992 <b>10</b> %
Energy Policy Act of 1992	10/24/1992	10% credit made permanent
Energy Policy Act of 2005	8/8/2005	1/1/2006 – 12/31/2007 <b>30%</b>
Tax Relief and Health Care Act of 2006	12/20/2006	1/1/2007 – 12/31/2008 <i>30%</i>
Emergency Economic Stabilization Act of 2008	10/3/2008	1/1/2009 – 12/31/2016 30% • Credit allowed to offset Alt. Minimum Tax • Small Wind (100 kW or less) made eligible, capped at \$4,000

Credit not applicable to wind

Legislation	<b>Enacted Date</b>	Availability Period
American Recovery and Reinvestment Act	2/17/2009	<ul> <li>Ability to claim ITC in lieu of PTC (must be placed in service in 2009 – 2012, later extended)</li> <li>Ability to claim grant in lieu of ITC (must commence construction in 2009 or 2010, later extended to 2011)</li> </ul>
Tax Increase Prevention Act of 2014	12/19/2014	• ITC in lieu of PTC extended retroactively through 12/31/2014
Consolidated Appropriations Act of 2016	12/18/2015	1/1/2017 – 12/31/2021  • Credit expiration changed to commenced construction date from placed in service date  • ITC in lieu of PTC extended retroactively through 12/31/2019 for wind  • Phaseout for PTC wind introduced:  • 20% reduction in 2017  • 40% reduction in 2018  • 60% reduction in 2019

Legislation	<b>Enacted Date</b>	Availability Period
Bipartisan Budget Act of 2018	2/9/2018	<ul> <li>ITC for small wind extended and phaseout introduced:</li> <li>26% ITC in 2020</li> <li>22% ITC in 2021</li> </ul>
Further Consolidated Appropriations Act of 2020	12/20/2019	<ul> <li>ITC in lieu of PTC extended to 12/31/2020</li> <li>Phaseout for PTC wind amended: <ul> <li>20% reduction in 2017</li> <li>40% reduction in 2018</li> <li>60% reduction in 2019</li> <li>40% reduction in 2020</li> </ul> </li> </ul>

Legislation	<b>Enacted Date</b>	Availability Period
Consolidated Appropriations Act of 2021	12/27/2020	<ul> <li>ITC in lieu of PTC extended to 12/31/2021</li> <li>Phaseout for PTC wind amended: <ul> <li>20% reduction in 2017</li> <li>40% reduction in 2018</li> <li>60% reduction in 2019</li> <li>40% reduction in 2020 and 2021</li> </ul> </li> <li>Phaseout for small wind amended <ul> <li>26% ITC in 2020 – 2022</li> <li>22% ITC in 2023</li> </ul> </li> <li>New tax credit for offshore wind</li> </ul>
Inflation Reduction Act	8/16/2022	<ul> <li>1/1/2022 – 12/31/2024</li> <li>Transitioning to technology-neutral credit through 2034 or later</li> <li>Labor provisions</li> <li>Bonus Credits</li> </ul>

Production Tax Credit

Historically targeted wind and large renewables

Based on energy production over several years

Pay set price (\$0.015)/kWh

## **PTC Extensions and Expirations**

Legislation	<b>Enacted Date</b>	Availability Period and Details
Energy Policy Act of 1992	10/24/1992	1/1/1993 – 6/30/1999 (6.5 yrs)
Ticket to Work & Work Incentives Improvement Act	12/17/1999	7/1/1999 – 12/31/2001 (2.5 yrs)
Job Creation and Worker Assistance Act	3/9/2002	1/1/2002 – 12/31/2003 (2 yrs)
Working Families and Tax Relief Act	10/4/2004	1/1/2004 – 12/31/2005 (2 yrs)
Energy Policy Act of 2005	8/8/2005	1/1/2006 – 12/31/2007 (2 yrs)
Tax Relief and Health Care Act of 2006	12/20/2006	1/1/2008 – 12/31/2008 (1 yr)
Emergency Economic Stabilization Act of 2008	10/3/2008	1/1/2009 - 12/31/2010 (2 yrs) 10/3/2008 - 12/31/2011 (marine) 1/1/2009 - 12/31/2009 (wind - 1 yr)

Credit expired before renewal

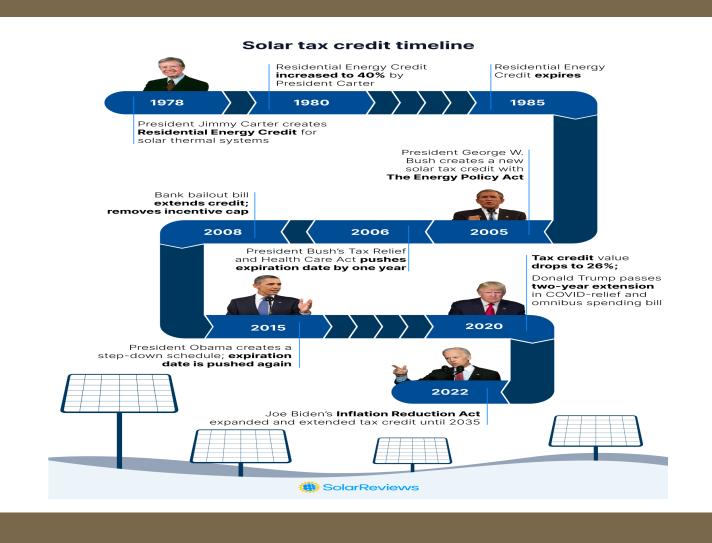
Legislation	<b>Enacted Date</b>	Availability Period and Details
American Recovery and Reinvestment Act	2/17/2009	1/1/2011 – 12/31/2013 1/1/2010 – 12/31/2012 (wind – 3 yrs) • Ability to claim ITC in lieu of PTC (must be placed in service in 2009 – 2012) • Ability to claim grant in lieu of ITC (must commence construction in 2009 or 2010, later extended to 2011)
American Taxpayer Relief Act of 2012	1/2/2013	1/1/2013 – 12/31/2013 (wind – 1 yr)  • Credit expiration changed to commenced construction date from placed in service date
Tax Increase Prevention Act of 2014	12/19/2014	1/1/2014 - 12/31/2014 (1 yr) • ITC in lieu of PTC extended retroactively through 2014

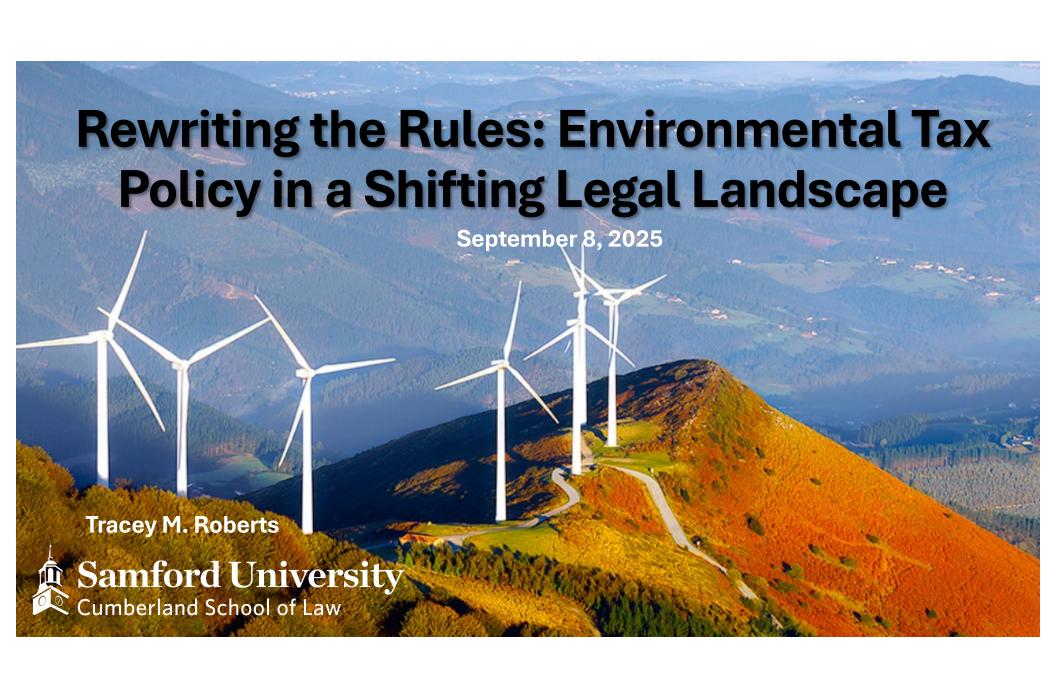
Credit expired before renewal

Legislation	<b>Enacted Date</b>	Availability Period and Details
Consolidated Appropriations Act of 2016	12/18/2015	1/1/2015 – 12/31/2016 (2 yrs) 1/1/2015 – 12/31/2019 (wind - 5 yrs)  • ITC in lieu of PTC extended to 12/31/2016  • PTC phaseout for wind introduced. Dates are for beginning construction:  • 20% reduction in 2017  • 40% reduction in 2018  • 60% reduction in 2019
Bipartisan Budget Act of 2018	2/9/2018	1/1/2017 – 12/31/2017 (non-wind) • ITC in lieu of PTC retroactively extended to 12/31/2017
Further Consolidated Appropriations Act of 2020	12/20/2019	1/1/2018 – 12/31/2020 (all technologies)  • ITC in lieu of PTC extended to 12/31/2020  • Wind phaseout extended: 40% reduction in 2020  * Wind phaseout remained at 60% reduction for 2019  ** PTC had previously expired for non-wind technologies before renewal

Credit expired before renewal

Legislation	<b>Enacted Date</b>	Availability Period and Details
Consolidated Appropriations Act of 2021	12/27/2020	1/1/2021 - 12/31/2021 • Wind phaseout extended: 40% reduction in 2020 and 2021
Inflation Reduction Act	8/16/2022	<ul> <li>1/1/2022 – 12/31/2024</li> <li>Transitioning to technology-neutral credit through 2034 or later</li> <li>Labor provisions</li> <li>Bonus Credits</li> </ul>





# Legislative Precursors

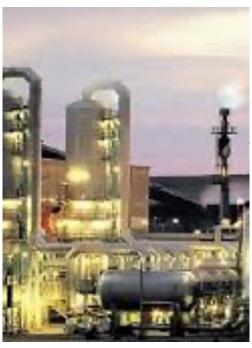
- Energy Tax Act of 1978
- Crude Oil Windfall Profits Act of 1980
- Energy Policy Act of 1992
- Job Creation and Worker Assistance Act of 2002
- Energy Policy Act of 2005
- Energy Improvement and Extension Act of 2008
- American Recovery and Reform Act of 2008
- Bipartisan Budget Act of 2018



**ACT OF 2022** 

UNITED STATES OF AMERICA









Energy Production n Incentives

- Clean Electricity Investment Tax Credit, IRA §13702 (IRC §48E)
  - OBBB §70513
- Clean Electricity Production Tax Credit, IRA §13701 (IRC §45Y)
  - OBBB §70512
- Cost Recovery for Energy Property, IRA §13703 (§168(e)(3)(B)(vi))
  - OBBB §70509

# Energy Production Incentives: Carve-out of Solar and Wind

- Clean Electricity Investment Tax Credit, IRA §13702 (IRC §48E)
  - OBBB §70513: 12.31.2027 PIS deadline for Solar and Wind ITC\*
- Clean Electricity Production Tax Credit, IRA §13701 (IRC §45Y)
  - OBBB §70512: 12.31.2027 PIS deadline for Solar and Wind PTC\*
- Cost Recovery for Energy Property, IRA §13703 (§168(e)(3)(B)(vi))
  - OBBB §70509: No 5-year MACRS for solar and wind constructed after 12.31.2024





# Energy Production n Incentives

#### **Nuclear Incentive**

- Zero Emission Nuclear Power Production Tax Credit, IRA §13105 (§45U)
- OBBB §70510: FEOC Rules

#### Clean Hydrogen

- Clean Hydrogen Production Tax Credit, IRA §13204 (§45V)
- OBBB §70511: **1.1.2028 BOC Deadline**

**Carbon Sequestration** 

Credit for Carbon Oxide
 Sequestration, §13104 (IRC §45Q)

• OBBB §70522

 Allows use in tertiary injectants in enhanced oil or natural gas recovery projects (fracking)





# Advanced Manufacturin g Incentives

- Investment Tax Credit for Qualifying Advanced Energy Property extended, §13501 (IRC §48C)
- OBBB §70515 No reallocation if failure to claim credit allocated within 2 years
- Advanced Manufacturing Production Tax Credit §13101 (IRC §45X)
- OBBB §70514: Adds metallurgical coal as an applicable critical mineral for use in steel manufacture through 12.31.2029
- Phase outs 2033-2035 for other critical minerals
- FEOC Rules

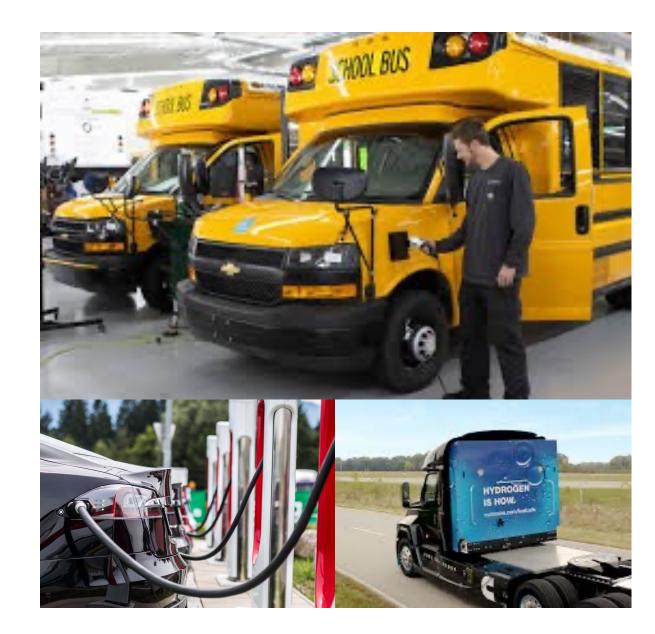
# Clean Vehicle Incentives

#### **Personal Vehicles**

- Plug-in Electric Vehicle Tax Credit, §13401 (IRC §30D)
- OBBB §70502: 9/30/2025 acquisition deadline
- Previously Owned Clean Vehicle Credit, §13402 (IRC §25E)
- OBBB §70501: 9/30/2025 PIS deadline

#### **Commercial Vehicles**

- Commercial Clean Vehicle Credit, §13403 (IRC §45W)
- OBBB §70503: 9/30/2025 PIS deadline



# Clean Fuels Incentives

 Alternative Fuel Vehicle Refueling Property Credit, §13404 (IRC §30C)

OBBB §70504: 6.30.2026 PIS deadline

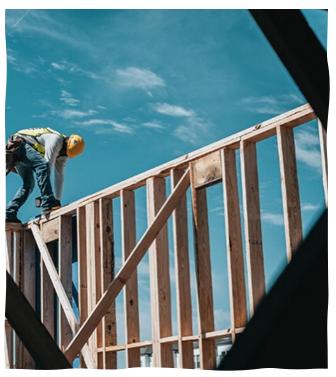
 Clean Fuel Production Tax Credit, §13704 (IRC §45Z)

 OBBB §70521: Prohibits negative emission rates; excludes emissions from indirect land use changes.

• Extends credit for sales through 12.31.2029.









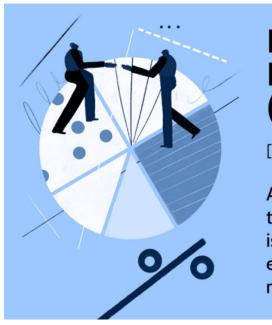
# Green Residential Building Incentives

- Energy Efficient Home Improvement Credit (§25C)
  - OBBB §70505: 12.31.2025 PIS deadline
- Residential Clean Energy Credit (§25D)
  - OBBB §70506: 12.31.2025 Expenditures deadline
- New Energy Efficient Home Credit (§45L)
  - OBBB §70508: 6.30.2026 Home Acquisition deadline

# Green Commercial Building Incentives

- Energy Efficient Commercial Buildings Deduction IRA §13303 (§179D)
  - OBBB §70507: 6.30.2026
     BOC Deadline





### Publicly Traded Partnership (PTP)

['pə-bli-klē 'trād-əd 'pärt-nər-,ship]

A business organization with two or more co-owners that is regularly traded on an established securities market.

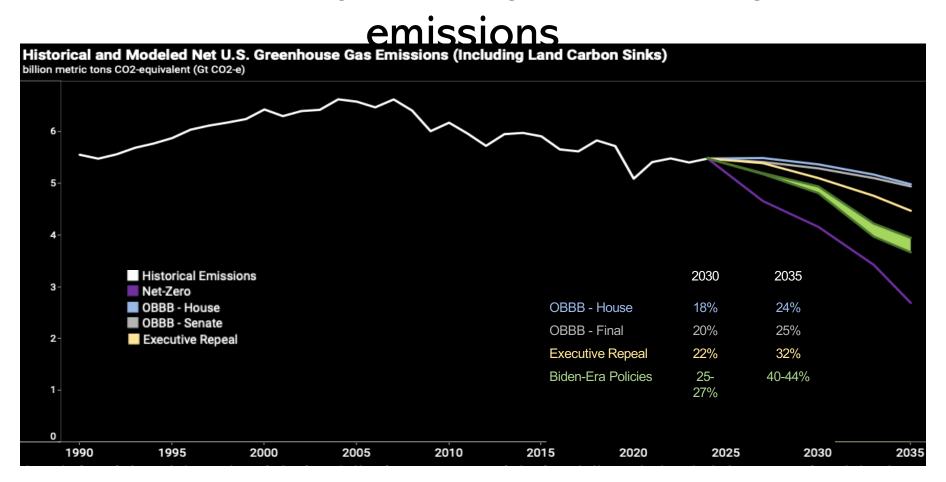


§7704(d)(1)(E)
Qualifying Income for Publicly Traded
Partnerships

- PTPs may receive partnership tax flow-through treatment if 90% or more income is Qualifying Income.
- Investors enjoy the combination of a regular income source and a tax shelter.
- OBBB §70524 includes income from hydrogen storage, carbon capture and storage, advanced nuclear, hydropower and geothermal energy as Qualifying Income

repeatproject.org

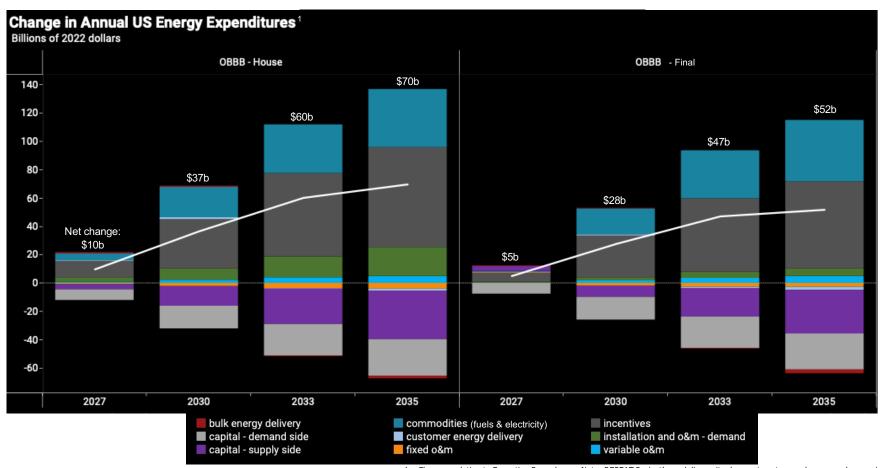
# REPEAT: Higher US greenhouse gas



REPEAT

Rapid Energy Policy Evaluation and Analysis Toolkit

# Americans spend >\$50b more on energy in 2035 eatproject.org

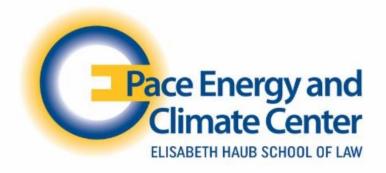


**REPEAT** 

Rapid Energy Policy Evaluation and Analysis Toolkit

1 – Changes relative to Executive Repeal case. Note: REPEAT Project's modeling suite does not capture endogenous changes in coal, natural gas, or petroleum product prices as a function of changes in demand. Increases in consumption of fossil fuels under repeal scenarios would likely further increases prices and thus total energy expenditures beyond the levels depicted here.







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