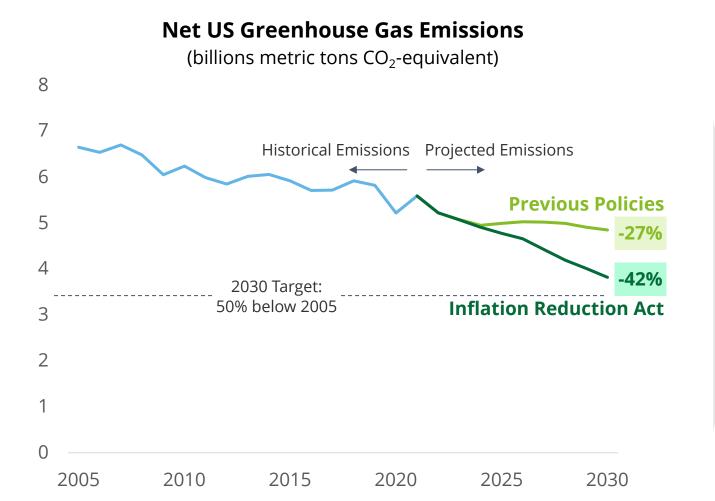


The Inflation Reduction Act (IRA) positions the US to cut greenhouse gas emissions by up to 42% by 2030, putting the target of 50% below 2005 levels within reach



### **KEY SECTORS FOR ABATEMENT**



#### **Power**

Acceleration of clean electricity from solar, wind, geothermal, and nuclear



#### **Transportation**

Deployment of electric and fuel cell vehicles, commercially and individually



#### Industry

Industrial efficiency upgrades and carbon capture



#### **Buildings**

Electrification and efficiency improvements in commercial and residential buildings

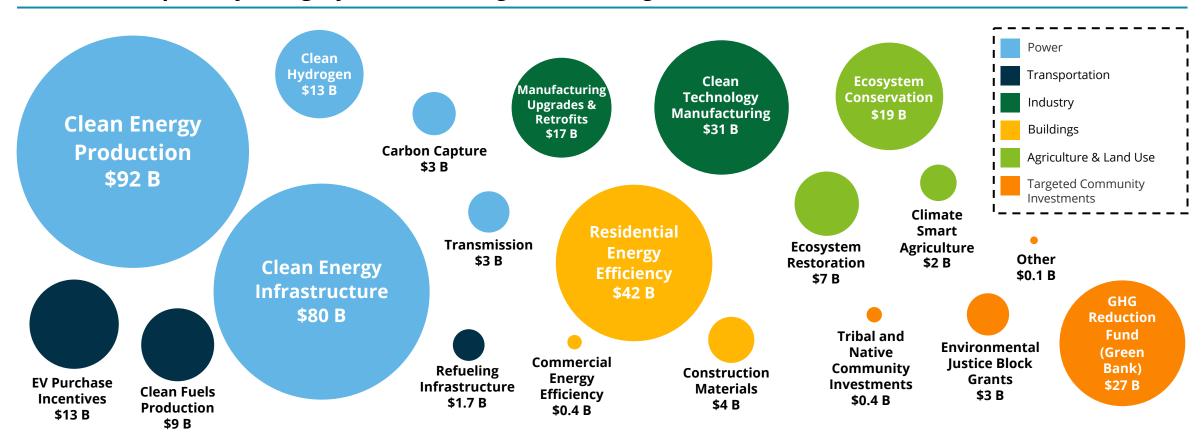


#### **Agriculture & Land Use**

Conservation and carbon sequestration in forest and agricultural lands

With \$369 billion in climate and clean energy investments, the IRA is the largest, most ambitious climate legislation ever passed by Congress

IRA Climate Spend by Category, based on Congressional Budget Office (CBO) Data



The Congressional Budget Office's estimate of \$369 billion is conservative. Others project over \$800 billion in federal spending and up to \$1.7 trillion in total spending including private-sector investment over the next decade.

**Sources:** Deloitte Analysis, <u>CBO</u>, <u>CPC Center</u>, <u>Credit Suisse</u>

# Five sectors are likely to benefit most directly from the IRA's climate-related provisions











|                                  | POWER  | TRANSPORTATION  | INDUSTRY   | BUILDINGS   | AGRICULTURE & LAND<br>USE  |
|----------------------------------|--|---|--|---|--|
| SAMPLE<br>RELEVANT<br>PROVISIONS | <ul> <li>Sec. 45/45Y: Renewable electricity production credit modification and extension</li> <li>Sec. 48/48E: Renewable energy investment credit modification and extension</li> </ul>  | <ul> <li>Sec. 45W: New commercial vehicle credit for electric and fuel cell vehicles</li> <li>Sec. 30C: Reinstated credit provides 30% tax credit for EV chargers (up to \$100,000) in qualifying areas</li> </ul>                | <ul> <li>Sec. 45X: Production credit for the manufacture of wind, solar, battery and electroconductive materials</li> <li>IRA Sec. 50161: Project-based grant funding for upgrading and retrofitting manufacturing plants to reduce emissions</li> </ul> | <ul> <li>Sec. 179D: Enhanced deduction for energy efficiency improvements in commercial buildings</li> <li>Sec. 48/48E: Enhanced investment tax credit continues to support geothermal heat pumps and solar for commercial energy efficiency</li> </ul> | <ul> <li>EQIP, ACEP, CSP and RCPP: Additional funding for working lands grant programs that help agricultural producers implement climate-smart agricultural practices</li> <li>IRA Sec. 22003: Funding for biofuel infrastructure and market expansion</li> </ul> |
| PROJECTED<br>SECTOR<br>IMPACT    | <ul> <li>Accelerated renewable energy production</li> <li>Lowest levelized cost of clean electricity in world</li> <li>Cost competitiveness of green hydrogen with blue</li> <li>Increased nuclear power production</li> </ul> | <ul> <li>Accelerated EV adoption by several years as price parity with ICE approaches</li> <li>Decreased TCO for electric trucks, likely below that of diesel trucks for most light and medium duty truck usage cycles</li> </ul> | <ul> <li>Boost in domestic production of key energy and EV components</li> <li>Improved economics for carbon capture and DAC</li> <li>Accelerated timeline for emerging clean tech in hard-to-abate sectors</li> </ul>                                   | <ul> <li>Significant expected increase in commercial building EE retrofits</li> <li>High expected demand for residential demand-side EE products incl. lighting, HVAC, and building envelope</li> </ul>   | <ul> <li>Advancement of climate-smart and organic farming and conservation practices</li> <li>Improved climate change adaptation and resilience of agricultural production</li> </ul>  |

**Notes:** Unless otherwise specified, all references to "Section" are to the Internal Revenue Code of 1986, as amended. **Sources:** Deloitte Analysis, H.R.5376 - Inflation Reduction Act of 2022, Credit Suisse, Goldman Sachs

**Producers** in key abatement sectors may benefit from IRA credits, incentives, grants, and loans to advance their climate goals



and solar to mitigate supply

chain bottlenecks









22003)

#### **POWER TRANSPORTATION INDUSTRY BUILDINGS AGRICULTURE & LAND USE** Increase deployment of · Utilize federal funding to Utilize federal funding to · Source from green Utilize federal funding to renewables such as **solar** and expand domestic accelerate domestic clean construction materials such adopt climate-smart (offshore) wind (Sec. 45/45Y, vehicle manufacturing, **production** of clean as low carbon cement and farming practices production, and assembly technology components to 48/48E) **steel**, leveraging emissions Increase renewables and (incl. components) to become meet increased demand (e.g., labeling programs (IRA Sec. Secure additional federal **electrification** for farm eligible for demand side solar, wind, battery, EV, 60112, 60116) funding from **adders** for operations/vehicles (REAP) incentives (Sec. 45X) hydrogen) (Sec. 45X) specific labor, location, and • Integrate smart charging into Produce agricultural • Offer smart charging as a Utilize federal funding to building design to benefit sourcing practices (Sec. feedstocks for sustainable from enhanced charging **service** to increase EV uptake upgrade or retrofit 45/45Y, 48/48E) biofuels (provided no and generate additional manufacturing facilities to credit (Sec. 30C) • Secure domestic input negative impact on land use) revenue (Sec. 30C) decarbonize and electrify material suppliers for wind (Sec. 40, Sec. 45Z, IRA Sec. production (IRA Sec. 50161)

Buyers of products and services within key abatement sectors may also benefit from IRA provisions to advance their climate goals











#### **POWER TRANSPORTATION INDUSTRY BUILDINGS AGRICULTURE & LAND USE** Shift portfolio of purchased · Electrify commercial fleets, · Source from domestic, low- Improve energy efficiency Source agricultural inputs electricity to renewable especially light and medium emission suppliers to reduce through HVAC and lighting from suppliers using energy though PPAs, VPPAs, duty trucks to decrease costs indirect emissions and build upgrades, heat pumps, hot climate-smart practices, **RECs**, and/or green tariffs to supply chain resiliency and emissions (Sec. 45W)

Build decentralized, on-site energy systems that combine solar, wind, and battery storage to decrease price volatility, avoid outages, and sell excess back to grid (bundle Sec. 48/48E)

lower costs and emissions

- Install charging **infrastructure** to support EV fleet conversion (Sec. 30C)
- Convert to biofuels, SAF, and/or fuel cells where electrification is not feasible or viable
- Consider strategic alliances with suppliers (e.g., joint ventures) to benefit from domestic manufacturing incentives (Sec. 45X)
- water systems, or building envelope upgrades to qualify for up to \$5/sq-ft. deduction or investment tax credit (Sec. 179D, 48/48E for heat pumps)
- Eliminate on-site fossil fuels and build decentralized, onsite energy systems (bundle Sec. 48/48E)
- providing **financial** incentives where possible, to reduce upstream emissions

Businesses and community partners can act now to benefit from IRA incentives, many of which took effect in January 2023

### **HOW CAN I GET STARTED?**



## **Identify relevant provisions**

- Learn more about the credits, grants, and loans applicable to your organization
- Check eligibility criteria such as location and labor requirements
- Speak with external experts to validate research and fill in knowledge gaps



## **Engage stakeholders**

- Connect with Finance, Procurement, Tax, and Government Relations to gain buy-in and build the business case
- Participate in Treasury and Executive Agencies' RFIs to drive efficient, effective, and equitable IRA implementation



# Move quickly

- Lock in domestic, low-emission suppliers to access IRA credit adders tied to geography, wages, apprenticeship, and more
- Start preparing now to be able to meet incentive caps for grant programs and capitalize on first mover advantages

#### Overview of Timeline for Sample IRA Provisions



Companies can reference online resources and engage with climate experts for additional support activating the IRA's climate provisions within their organizations

### **Online IRA Resources**



WH IRA Guidebook
Includes overview,
description, and

funding details for each

IRA funded incentive



BGA IRA User Guide

Provides overview of IRA incentives by sector and explains funding mechanisms



IRS Credits and Deductions under the IRA

Resources, forms and descriptions of IRA tax credits and deductions

## **EDF & Deloitte Contacts**



Victoria Mills

Managing Director

Environmental Defense Fund

vmills@edf.org



Shay Eliaz
Head of ESG Strategy & Transformation
Deloitte Consulting
seliaz@deloitte.com

# Deloitte.

This document was produced by Environmental Defense Fund in collaboration with Deloitte Consulting LLP. The views within the report are that of Environmental Defense Fund, and do not necessarily reflect the views of report partners or collaborators.

This document contains general information only and Deloitte is not, by means of this document, rendering accounting, business, financial, investment, legal, tax, or other professional advice or services. This document is not a substitute for such professional advice or services, nor should it be used as a basis for any decision or action that may affect your business. Before making any decision or taking any action that may affect your business, you should consult a qualified professional advisor. Deloitte shall not be responsible for any loss sustained by any person who relies on this document.

#### About Deloitte

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee ("DTTL"), its network of member firms, and their related entities. DTTL and each of its member firms are legally separate and independent entities. DTTL (also referred to as "Deloitte Global") does not provide services to clients. Please see <a href="https://www.deloitte.com/about">www.deloitte.com/about</a> for a detailed description of DTTL and its member firms. Please see <a href="https://www.deloitte.com/about">www.deloitte.com/about</a> for a detailed description of the legal structure of Deloitte LLP and its subsidiaries. Certain services may not be available to attest clients under the rules and regulations of public accounting.