

Federal Funding for Zero Waste Infrastructure



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DISCUSSION

- Federal Funding & the Inflation Reduction Act (IRA)
- Which Materials to Focus on for Climate Alignment
- Funding Tools to Approach Zero Waste
- Implementation Strategies
- Beyond Infrastructure



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“For the first time in history, the full financial might of the federal government is aligned behind the clean energy transition.”

- Jesse D. Jenkins, REPEAT Project

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\$739 billion REVENUE

\$433 billion SPENDING

\$386 billion DIRECTED TOWARD ENERGY & CLIMATE

GOAL
40% reduction in GHG emissions from 2005 levels by 2030.

Unleash new clean energy technology investment & deployment and supercharge our transition to a clean energy economy.

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Funding Mechanisms: GRANTS, LOANS, LOAN GUARANTEES

Section 22002	Rural Energy for America Program	Provides funding to USDA to support the Rural Energy for America Program (REAP), which provides grants for energy efficiency and renewable energy projects in rural US	\$2 billion
Section 22004	USDA Assistance for Rural Electric Cooperatives	Provides funding to USDA to offer financial assistance to support renewable energy, zero-emission systems	\$9.7 billion
Section 50141	Funding for Department of Energy Loan Programs Office	Increases loan guarantee commitment authority to \$40 billion for the DOE to support projects that avoid, reduce, utilize, or sequester air pollutants or GHG emissions, and employ new or significantly improved technologies	\$3.6 billion
Section 60108	Funding for Section 211(O) of the Clean Air Act	Provides funding to EPA for new grants to support investment in advanced biofuels	\$15 million
Section 50161	Advanced Industrial Facilities Deployment Program	Provides funding to DOE for financial assistance for clean energy demonstrations by eligible facilities	\$5.8 billion
Section 60103	Greenhouse Gas Reduction Fund	EPA to provide financing and technical assistance to enable low-income and disadvantaged communities to deploy or benefit from zero-emission technologies	\$27 billion
Section 60105	Funding to Address Air Pollution	Provides funding to EPA for grants and other activities to monitor methane emissions	\$25 million
Section 60201	Environmental and Climate Justice Block Grants	Establishes an EPA grant program for community-based groups and partnerships to reduce pollution and climate threats in "disadvantaged communities"	\$3 billion
Section 80001	Tribal Climate Resilience	Add funds to the Bureau of Indian Affairs (BIA) for tribal climate resilience and adaptation programs	\$235 million
Section 21001	Additional Agricultural Conservation Investments	Increases funding for Environmental Quality Incentives Program & Conservation Stewardship Program to help farmers and ranchers implement environmentally beneficial conservation practices	\$18 billion
Section 22003	Biofuel Infrastructure and Agriculture Product Market Expansion	Provides funding to USDA for grants to increase the sale and use of agricultural commodity-based fuels through infrastructure improvements for blending, storing, supplying, or distributing biofuels	\$500 million
Section 40001	Investing in Coastal Communities and Climate Resilience	Adds funds to the National Oceanic and Atmospheric Administration (NOAA) to conserve, restore, and protect coastal and marine habitats and resources	\$2.6 billion

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Funding Mechanisms: GRANTS, LOANS, LOAN GUARANTEES

Climate Pollution Reduction Grants (CPRG)

Phase One: Planning

- State and/or Metro Regions currently working on Public Climate Action Plans (PCAPs)
- Ensure that sustainable waste management is included as a strategy in PCAP

Phase Two: Implementation

- Applications due April 1, 2024
- Ensure that your recycling projects are included in the grant proposal

Solid Waste Infrastructure for Recycling Grant Program (SWIFR)

- Funded through BIL
- \$55 million per year from Fiscal Years 2022 to 2026



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Funding Mechanisms: TAX CREDITS

	Renewable Electricity Production Tax Credit (PTC)	Business Energy Investment Tax Credit (ITC)
Expenditure	\$51 billion	\$14 billion
After 2024	Clean Electricity Production Credit (\$11.2 billion)	Clean Electricity Investment Credit (\$59 billion)
Base Tax Credit	\$0.005/kWh	6% or 30%
Wage & Apprenticeship Requirements	+\$0.025	24% or N/A
Bonus Credits	+\$0.003 +\$0.003	+10% +10%

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ELECTIVE PAY option allows non-taxable entities (state, local, tribal governments; non-profit orgs) to monetize tax credits & receive funding to cover up to 50% of the project cost.

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		Investment
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TRANSFERABILITY creates an alternative to tax equity investments whereby tax credits can be sold for cash. Evolving marketplace that facilitates the purchase of discounted credits with a shortened investment period and simplified legal process.



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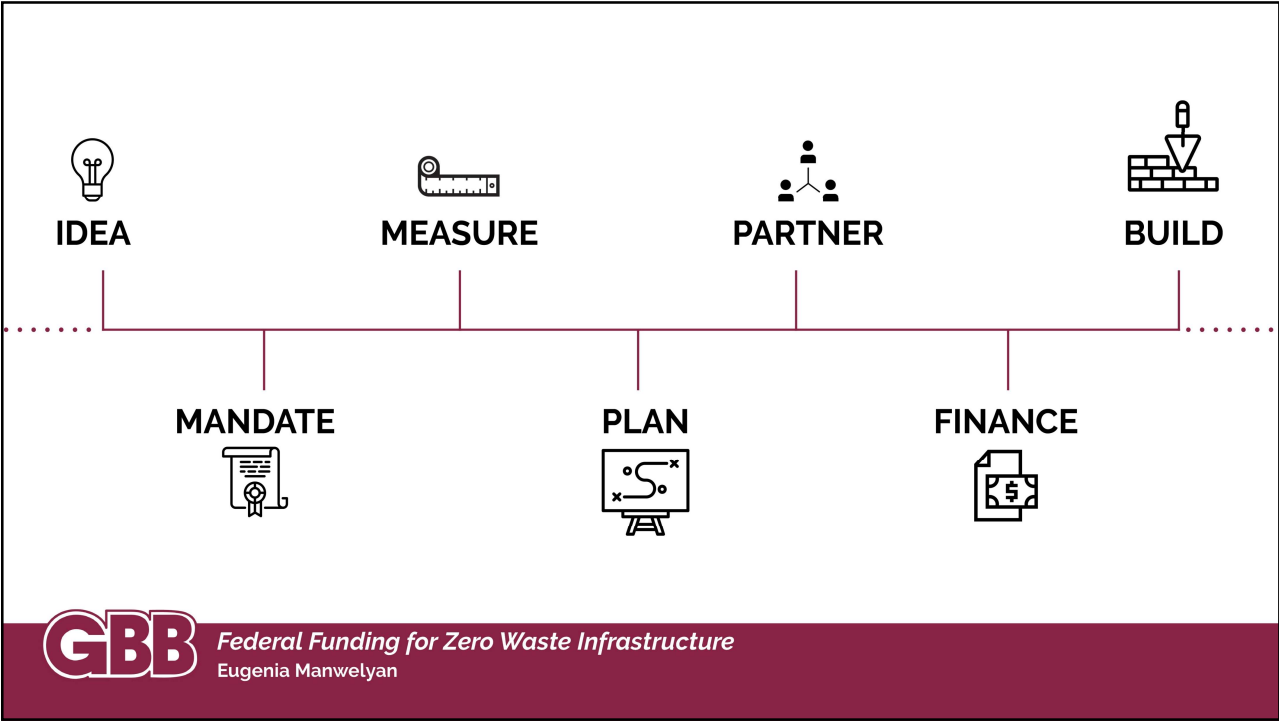


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MORE THAN JUST INFRASTRUCTURE...

- Infrastructure transformation is a human values-laden design challenge
- The process provides an opportunity to make visible our values
- Create new relationships
- Expand and transform networks
- Multi-scale learning with cascade effects

PARALLEL PROCESS

"If departments, jurisdictions, and disciplines are just ideas, then there is nothing immovable about them. We can make these borders more permeable and conduct partnerships across them. We can even redraw them to include more of what matters in a single project or investment. Using one investment of time or effort to steer toward several goals at once."

Multisolving: Making Systems Whole, Healthy, and Sustainable.
Sawin et al. 2023,
Stanford Social Innovation Review



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