Investing in America's Future Infrastructure

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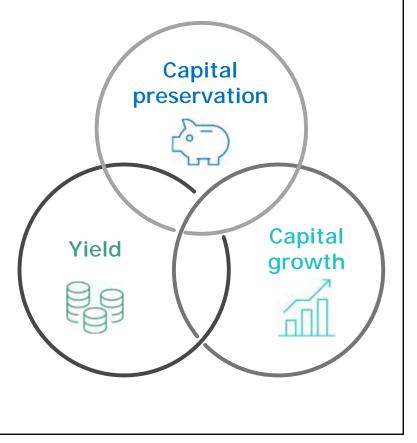


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What Is Infrastructure?

Infrastructure Can Meet Different Investor Needs

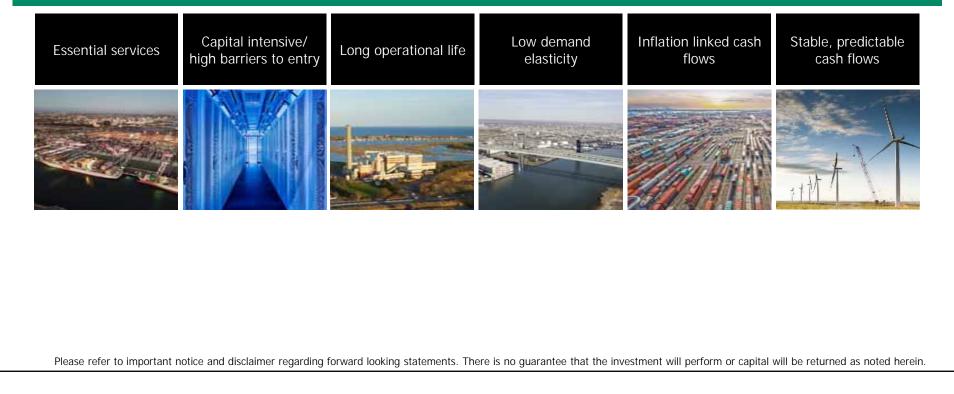
 Infrastructure can solve for different investors' needs of capital preservation, yield and capital growth



Please refer to important notice and disclaimer regarding forward looking statements

Defining Infrastructure

Key characteristics of infrastructure assets



Investment Attributes of Infrastructure

How infrastructure's attributes have the ability to translate into essential portfolio benefits¹

Consistent returns	Potential inflation hedge	Downside mitigation	Stable yield	$\begin{array}{c} \overset{\leftarrow}{\overset{\scriptstyle ()}{\overset{\scriptstyle ()}}{\overset{\scriptstyle ()}{\overset{\scriptstyle ()}}{\overset{\scriptstyle ()}{\overset{\scriptstyle ()}}{\overset{\scriptstyle ()}{\overset{\scriptstyle ()}{\overset{\scriptstyle ()}}{\overset{\scriptstyle (i}{\overset{\scriptstyle ()}{\overset{\scriptstyle (i}{\overset{\scriptstyle ()}{\overset{\scriptstyle ()}{\overset{\scriptstyle (i}{\overset{\scriptstyle \: i}{\overset{\scriptstyle (i}{\scriptstyle \: \scriptstyle \atop \\ \scriptstyle \scriptstyle \\ \scriptstyle \scriptstyle$
Global thematic trends help create sustainable tailwinds over the long term	Infrastructure revenues can include cost pass-through mechanisms which may hedge against inflation	Essential services are agnostic to capital market disruption and macroeconomic cycles	Long term contracts with predictable cash flows can provide stable distributions	Infrastructure is naturally less correlated to more volatile asset classes
	neage against initiation			

1. Capital is still at risk-the value of investments may fall as well as rise and you may not get back the amount originally invested.

Infrastructure Subsectors

Infrastructure encompasses a diverse range of subsectors

	Digital Infrastructure	Transport	Utilities and Energy	Power and Renewables	റ്റ്റ് Social	°⊖° Waste ∩∩∩ Management
Core sector	• Towers	Network toll roadsAirport hubs	 Regulated utilities District heating Solar and wind (onshore/offshore) Contracted pipelines 	 Conventional generation Pipelines Solar Onshore wind Offshore wind 		Landfills Vertically-integrated Municipal Solid Waste (MSW)
COLE+ SECTOL	 Data centres Distributed Cells/Antennas Fibre networks 	 Ports Rail Rolling stock Supply chain infrastructure 	 Conventional generation Distributed infrastructure Waste-to-energy and other renewable fuels 	 Storage Liquified Natural Gas (LNG) infrastructure Biomass Energy from waste Batteries 	 Hospitals and other healthcare infrastructure Community assets Public safety Education 	 Recycling/Processing/L andfill Diversion Energy from waste Specialty waste Specialty processing/recycling
		Core infrastructure		Core-plus	s infrastructure	Opportunistic infrastructure
Hi Re In	0	ne community 'or strong contractual revenue s s on proven technology and/or		Shorter-dated corCan offer more at	her degrees of market risk htractual agreements in place co tractive returns for the addition of capex in core-plus or develop	al risk

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Infrastructure Risk Profiles





• Capex efficiency

Consumer costSystem stability

• Independence of regulator

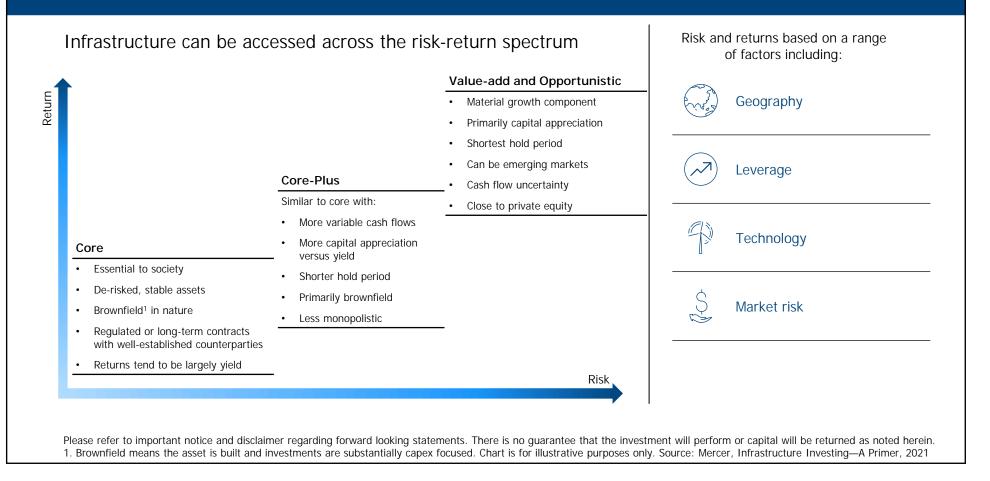


- Counterparty strength
- Customer integration
- Licensing/concession changes
- Contract renewals
- Inflation pass through

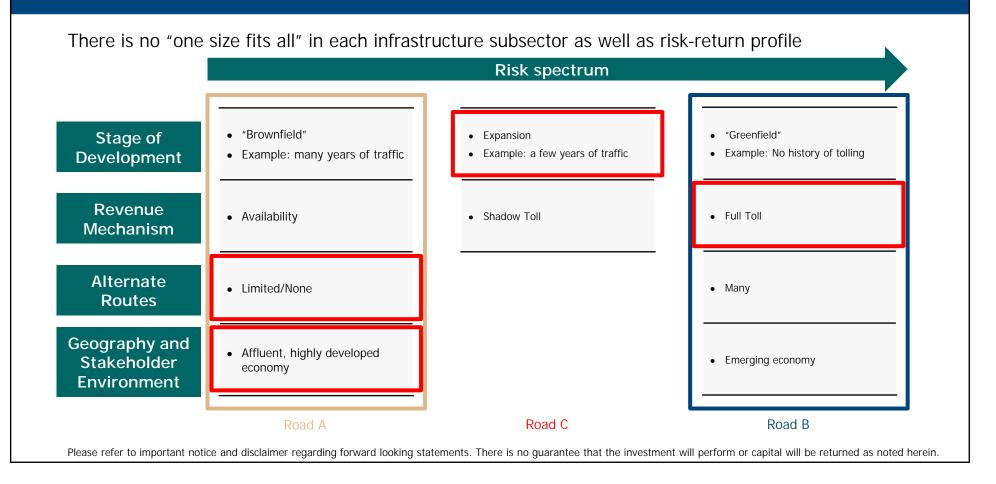


- User levels
- Price controls
- Elasticity of price increases
- Competitive landscape
- Correlation with macro economics

Risk-Return Characteristics



Diversification Within Subsectors



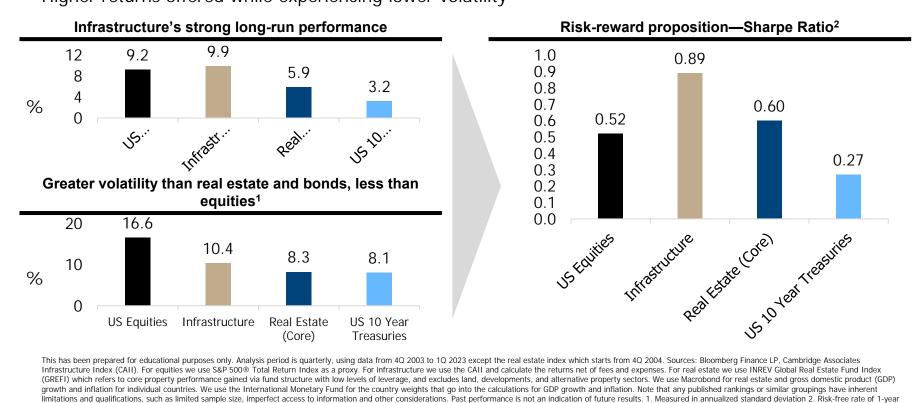
In the Current Market

Why Is Infrastructure a Highly Relevant Asset Class Today?

- Defensive asset class with the potential for attractive absolute and risk-adjusted returns
 - Potential for stronger returns when inflation
- is above average
- Potential for stronger returns when interest rates are high
- Secular and political tailwinds
- US investors are under-allocated to this large asset class¹

Past performance does not predict future returns—this has been prepared for educational purposes only. 1. Shown by Preqin institutional market data retrieved in December 2023 compared to other developed markets

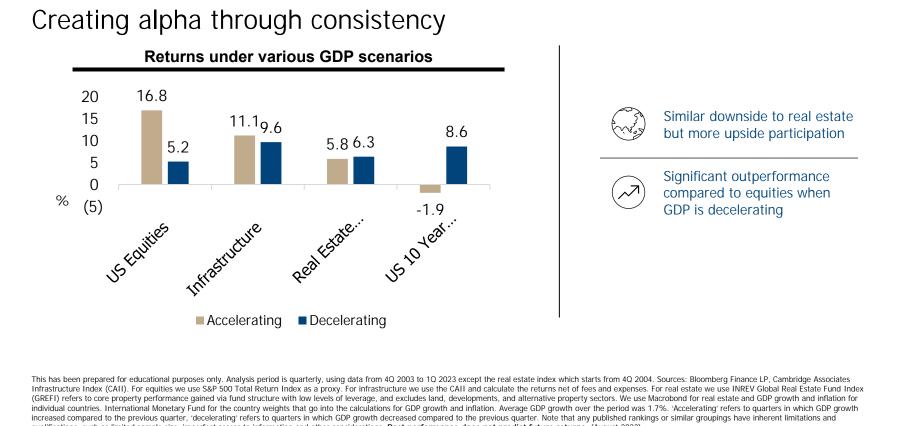
Infrastructure Has Delivered Strong Risk-Adjusted Returns



Higher returns offered while experiencing lower volatility

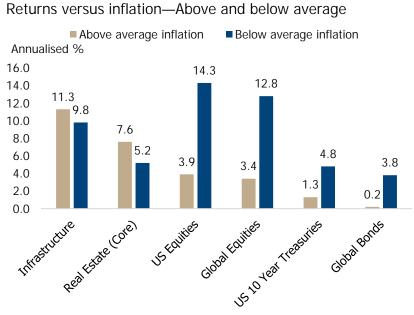
US government bond yield used. Sharpe ratio measures the relationship between reward and risk in an investment strategy. The higher the ratio, the greater the investment return relative to the amount of risk taken. (August 2023)

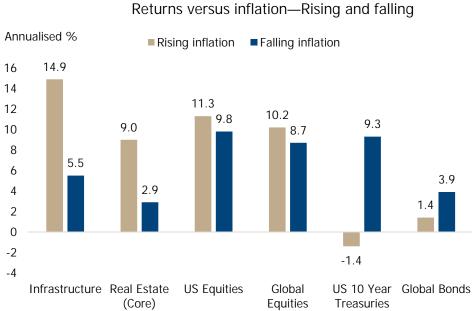
Infrastructure Has Delivered a Smoothed Return Profile When Compared to Equities



Infrastructure and Inflation

The infrastructure asset class can offer an attractive inflation hedge

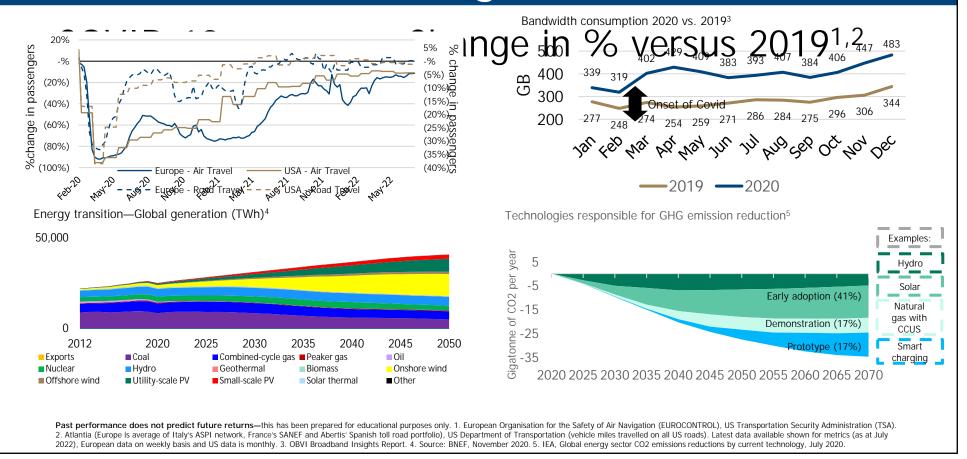


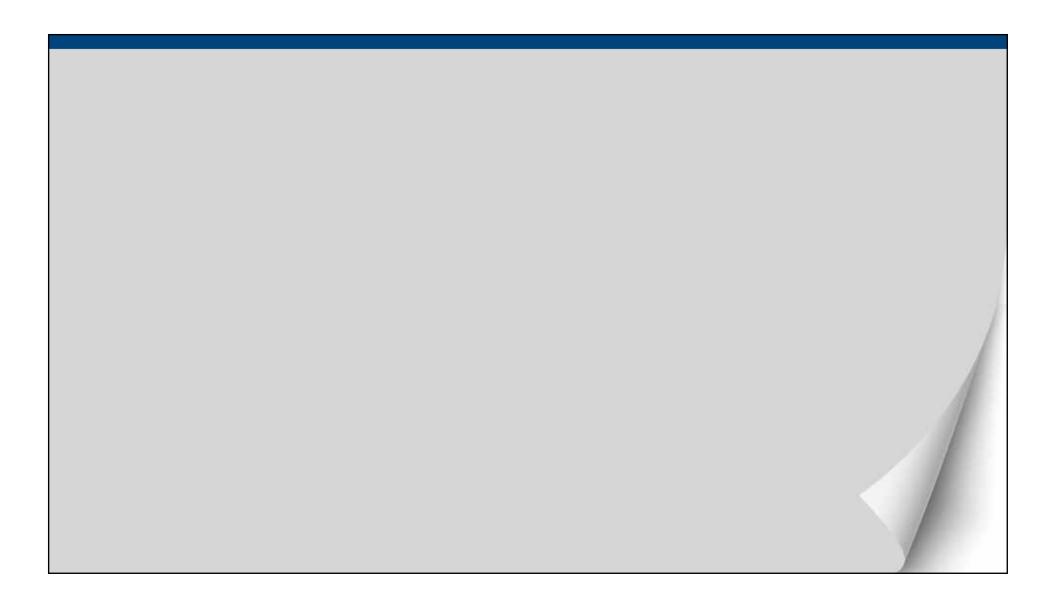


Past performance does not predict future returns. This has been prepared for educational purposes only. Analysis period is quarterly, using data from 4Q 2003 to 1Q 2023 except the real estate index which starts from 4Q 2004. Sources: Cambridge Associates, Macrobond, Bloomberg Finance LP. US equities: S&P 500 Total Return Index; Infrastructure: Cambridge Associates Infrastructure Index; Global equities: MSCI World Index; Global bonds: Bloomberg Global-Aggregate Total Return Index; Real estate: INREV Global Real Estate Fund Index (GREFI) refers to core property performance gained via fund structure with low levels of leverage, and excludes land, developments, and alternative property sectors. Average annual inflation over the period was 2.4%. Rising inflation refers to guarters in which YoY headline inflation increased compared to the previous guarter, falling inflation refers to guarters in which YoY headline inflation decreased compared to the previous quarter. (August 2023)

Annualised % 16

Macro Trends Support Infrastructure Investing

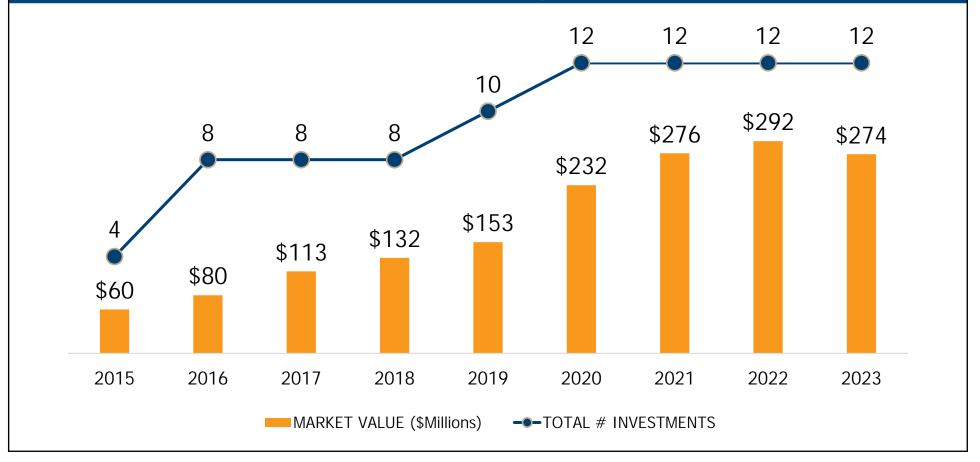




Who We Are—LIUNA

- Over 530,000 members in the US and Canada
- Second largest construction union in the United States
 - Over 80 pension and annuity funds
- Roughly \$65 Billion in pension assets

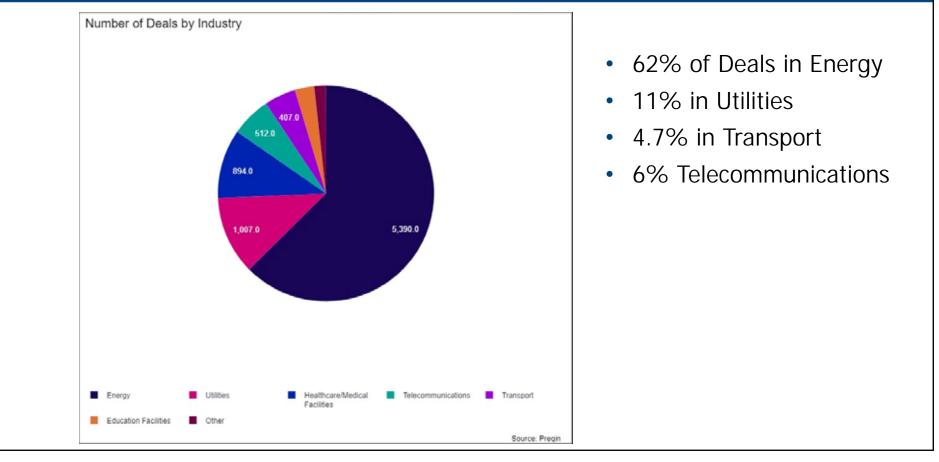
Sample Plan Shows Steady Growth in Infrastructure Investing



Thoughts From 10 Years of Infrastructure Investing

- 10-year return experience >10%
- 7-9% of total assets
- Stability of cashflows
- Diversity of investment options
 - Open vs. Closed-end vehicles
 - Greenfield vs. Brownfield
 - Large scale vs. Smaller scale
 - Geographic diversity

What Are Infrastructure Managers Investing In? 10 Years of Data



What Is the IRA?

"Clean energy is now the safe, smart, government-backed bet for conservative investors."



How Does the IRA, IIJA, CHIPS Impact Investing Opportunities?

- Tiger Infrastructure
 Fund, TPG
- Economics driven by 45Q



How Does the IRA, IIJA, CHIPS Impact Investing Opportunities?

Infrastructure Investor

Database Y Quick Search Y News & Analysis Y Ranki

Home > News & Analysis > GIP, CPP target US utility decarbonisation with \$6.2bn deal

Deals

GIP, CPP target US utility decarbonisation with \$6.2bn deal

While CPP Investments has previous experience in the sector, the take-private of Allete marks GIP's first deal in the US utility space.

Zak Bentley - 9 May 2024

Policy Tailwinds— Real Examples

Recent Federal Legislation Has Resulted in New Opportunities and Created a Fast-Moving Federal Grants Landscape

S)	Significant local or regional economic impact	Infrastructure Investment and Jobs Act (IIJA) ¹	Inflation Reduction Act (IRA) ¹	CHIPS and Science Act ¹
烱	Workforce development and training for jobs of the future	2021 Goals: Rebuild American infrastructure, enhance sustainability and climate resilience, and improve community connectivity. Total funding: \$1.2 trillion Focus area(s): Infrastructure (broadband, power, transportation, water), public transit and EVs, cyber and climate resiliency, environment (Note the IIJA is also referred to as the Bipartisan Infrastructure Law)	Goals: Rebuild American Goals: Ensure that the United	2022 Goals: Boost domestic research and manufacturing of semiconductors in the United States. Total funding: \$280 billion Focus area(s): Chip manufacturing, semiconductor research, workforce training, manufacturing equipment
F.	Climate change, clean energy, energy efficiency		States remains a global leader in clean energy technology, manufacturing and innovation. Total funding: \$369 billion Focus area(s): Clean manufacturing, energy efficiency, pollution reduction, environmental justice, transportation electrification, GHG reduction fund	
\bigcirc	Affordable and sustainable housing			
X	Strengthen US manufacturing ("Buy America, Build America")			
	Benefits for economically disadvantaged communities			
(i)	Position the US as a world leader in progress to net zero			

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MAM Government Grants Project

Over \$850m in federal grant dollars secured to date, with over a dozen other grants currently being considered or applied for by portfolio companies.

Opportunity

- Following signing of the IIJA (Nov 2021), and the IRA (Aug 2022), federal, state and municipal governments are committed to jump-starting private infrastructure projects in their communities.
- **\$1.5 trillion**+ is currently available to fund projects in the US. MAM has the opportunity to assist portfolio companies to access these resources

Process

- MAM is working with portfolio companies to identify and pursue grants that align with their areas of focus.
- Guidehouse has been engaged to help identify specific needs and interests of each portfolio company. Through these workshops, we successfully identified **85 grants** and presented them to the portfolio companies.
- In May 2024, a two-day MAM Government Affairs and Sustainability conference was held in D.C with representatives from 28 portfolio companies

Successes to Date

Portfolio Company	Total
Digital infrastructure	\$189.9M
Green Investments	\$239.4M
Transportation	\$371.3M
Utilities & Energy	\$79.8M
Waste Management	\$9.1M
Total	\$889.5M

Current opportunities

• MAM government affairs will continue to implement the plan of action and phase II efforts with Guidehouse for program monitoring services, screening assessment for applicability and prioritization, and grant pursuit support.

Impact Assessment of Key Inflation Reduction Act Provisions

This document seeks to provide a high-level overview of certain of the provisions in the Inflation Reduction Act and their application to certain sectors in which MAM is seeking to make investments. Given the nature of many of the programs created, extended, expanded, or augmented by the new law, provisions are presented as simplified descriptions. Ability to realize the stated incentives may require certain obligations to be met and may not be applicable to all applications of the stated technologies. None of the information contained this presentation should be relied upon for specific investments and the actual text of the law should be referred to.

Provisions	Key Elements ¹	Direct MAM Energy Transition Sector Impact ¹	Indirect MAM Energy Transition Sector Impact ¹
Extension of Legacy Wind and Solar Credits	Extension of Production Tax Credit ("PTC") for wind and reinstatement of PTC for solar	Wind and Solar	Green H2 (Ammonia, Methanol)
New Technology Neutral Credits	Up to 30% Investment Tax Credit ("ITC") for broader array of technologies including biogas and energy storage	Battery Storage H2 storage Biogas	Green H2 Blue H2
Carbon Capture Credits Increase	 Increased tax credit for carbon capture and sequestration (\$85/t) and enhanced oil recovery (\$60/t) Increase in direct air capture and sequestration (\$180/t) 	Point Source Direct Carbon Capture Air Capture	Sustainable Aviation Fuel
Hydrogen Tax Credits	 10-yr PTC for clean H2 tied to lifecycle GHG emissions Green H2: PTC and ITC of up to \$3/kg and 30%² Blue H2: PTC and ITC of up to \$1/kg and 10%² 	Green H2 Blue H2	Sustainable H2 Derivatives Aviation Fuel (Ammonia, Methanoi)
Advanced Manufacturing Tax Credits	New PTC for eligible components produced in the US Extension of up to 30% ITC for manufacturing of specified renewable energy equipment	Infrastructure- Enabling Tech	Green H2 Blue H2 BEV and FCEV CCUS
Clean Fuels Tax Credits	 Extension of biodiesel and renewable diesel tax credit through end of 2024 New sustainable aviation fuel credit through 2024 New clean fuel credit from 2024 through 2027 	Sustainable Aviation Fuel Aviation Fuel	Green H2 Blue H2
Clean Vehicle Tax Credits	 Up to \$7.5k per vehicle (battery or fuel cell) Up to \$40k per commercial vehicles (battery or fuel cell) Up to \$100k for alternative fuel recharging property 	BEV and FCEV H2 Charging Heavy Transport	Green H2 Blue H2 Storage
Greater Monetization Flexibility/Direct Pay	 Increased tax credit monetization flexibility through direct pay or transferability outside tax equity structure; particular benefits for H2 and carbon capture 	Direct Pay Flexibility Tax Credit Transfer (h) (h) (k) (k) Green H2 Blue H2 CCUS	

thereof, will be executed by MAM's Energy Transition funds or in any given investment, or that they will be successful if executed. There can be no assurance that MGETS will be able to implement its investment strategy or achieve its investment objectives. 1. Macquarie analysis based upon the new law text and summaries of the new law created by BNEF, Vincent & Elkins, and Latham & Watkins. 2. Assumes lifecycle emissions of 0 kg of CO2 per kg of hydrogen (green) and 0.45 kg of CO2 per kg of hydrogen (blue) multiplied by factor of 5, respectively.



- Infrastructure investing, which is focused on long-term investing in businesses and assets providing essential services to the community, can provide significant potential benefits to pension fund investors.
- The infrastructure asset class is increasingly well developed, with a number of high-quality managers in the space, plus range of different products, risk-targeted return profiles and routes to deploy capital.
- Over time infrastructure has provided strong risk-adjusted returns, and arguably should be an attractive asset class at a time of economic uncertainty, characterized by high inflation and interest rates.
- Whether in the US or globally, a number of key "mega trends" are driving significant growth in infrastructure, creating an expanded set of investment opportunities.

- IJA, CHIPS, and IRA, are primarily driving energy transition investments for pension fund infrastructure portfolios.
- Infrastructure investment opportunities in transit, airports, roads, are still relatively rare in the US even though IIJA has tried to incentivize more public private partnerships.
- Concepts like prevailing wages and apprenticeship that have for decades only been used in the public construction sector have been pushed into the private sector via tax credits in the IRA. Infrastructure investment managers face real financial risks if they fail to accurately understand and implement these new labor provisions on clean energy investments.

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- Infrastructure investment managers face real financial risks if they fail to accurately understand and implement these new labor provisions.

 Trustees should use this new opportunity to insist on stronger responsible contractor policies for infrastructure investments they make, and ask consultants to rank investment manager expertise on implementing these policies or use things like the NABTU scorecard.

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Session Evaluation



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