

# Sustainability and why it matters for business

October 2025



# Foundations: the Carbon Context

# What does a tonne of carbon look like?

$$509_{\text{m}^3} = 15 \times 20 \text{ ft}$$

(volume) Shipping containers



*or*

$$430\text{L} = 2,200\text{km}$$

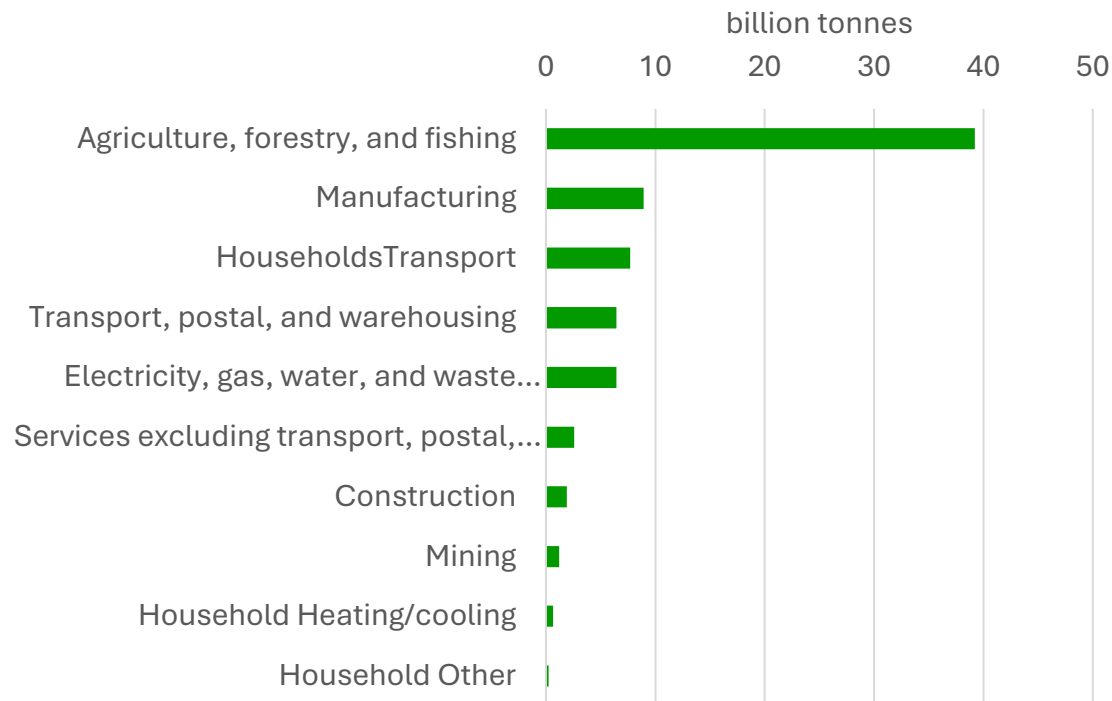
Petrol driving distance (assuming 5.1L / 100km)



# New Zealand's environmental footprint

**Agriculture, Forestry and fishing make up the majority of our emissions**

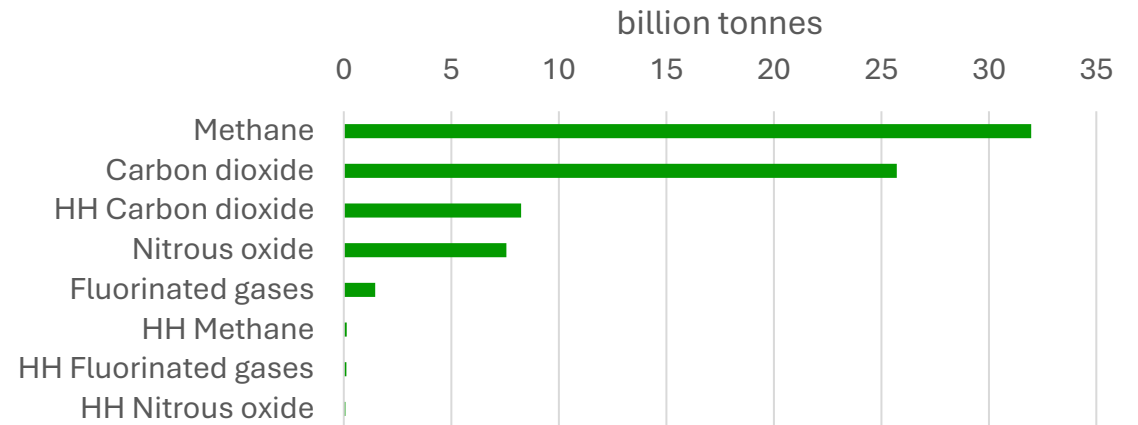
**Greenhouse gas emissions by industry and household sector**



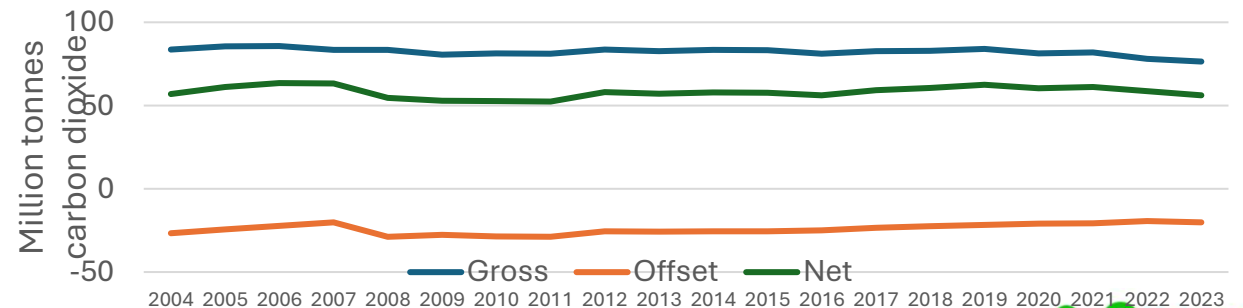
Year ended 2023

**Methane is the largest greenhouse gas type**

**Greenhouse gas emissions by type**

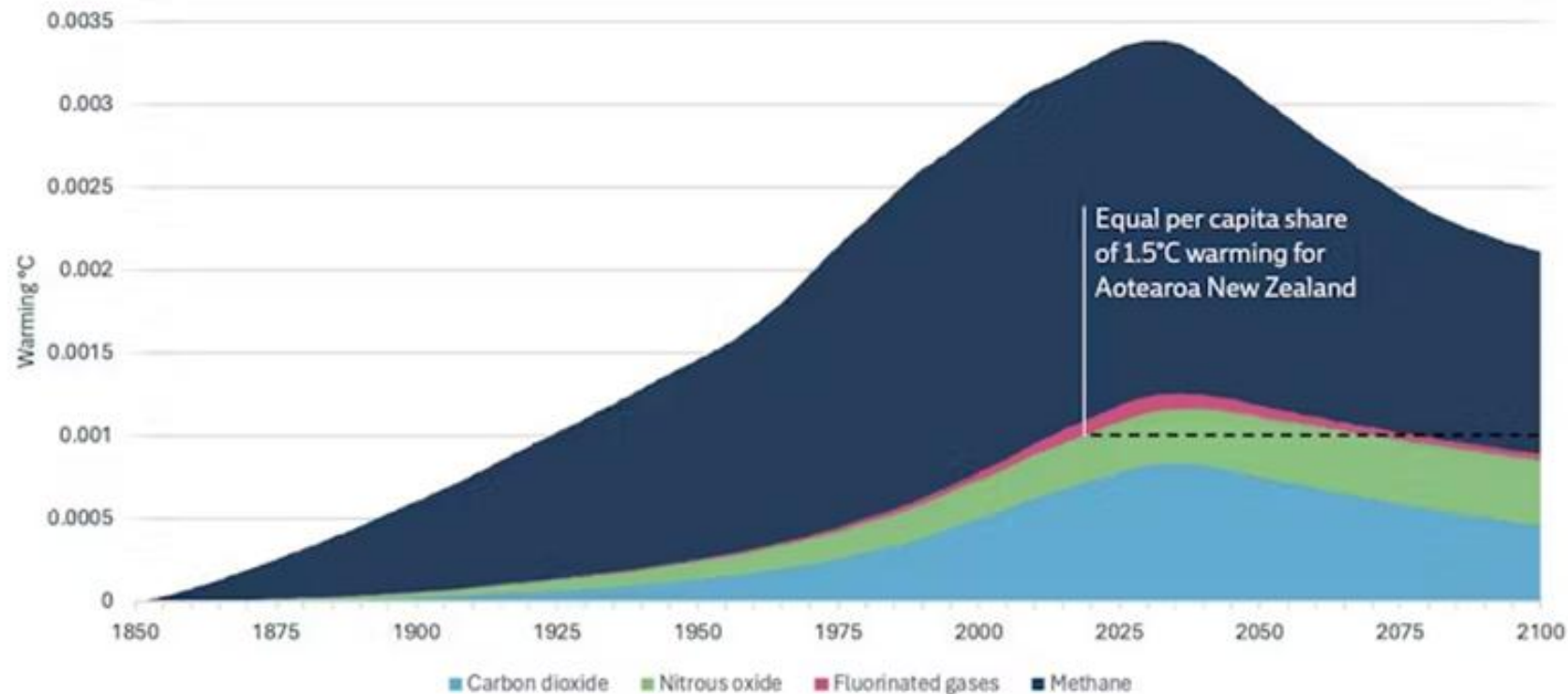


**CO<sub>2</sub> balance over time**



# NZ contribution to global warming

New Zealand makes a small contribution to the overall global warming from emissions, but it is high on a per capita basis



This graph shows the contribution to warming from emissions in New Zealand (1850–2100) under the current 2050 target. Climate Change Commission, CC BY-SA

# New Zealand Carbon Inventory

Not all carbon sources and sequestration activities are counted in international reporting and targets

Actual				Targets	
Year	2005	2006	2023	2030	2030
<b>Gross Emissions</b>	<b>85,545</b>	<b>82,647</b>	<b>76,416</b>		
Biogenic Emissions		30,346	29,529	27,311 (-10%)	23,063 (-24%)
Other Emissions Recorded		52,301	46,887		
Emission recovery	-24,363	-23,510	-20,197		
<b>Net Other Emissions</b>		28,791	26,690		Zero
<b>Net Emissions</b>	61,182	59,137	56,219	23,063	
Natural sequestration (native forestry and blue carbon)			-12,800		
Imports and export transportation			5,000 – 9,400		
Territorial sea			-1,475		
NZ economic zone sea			-35,436		

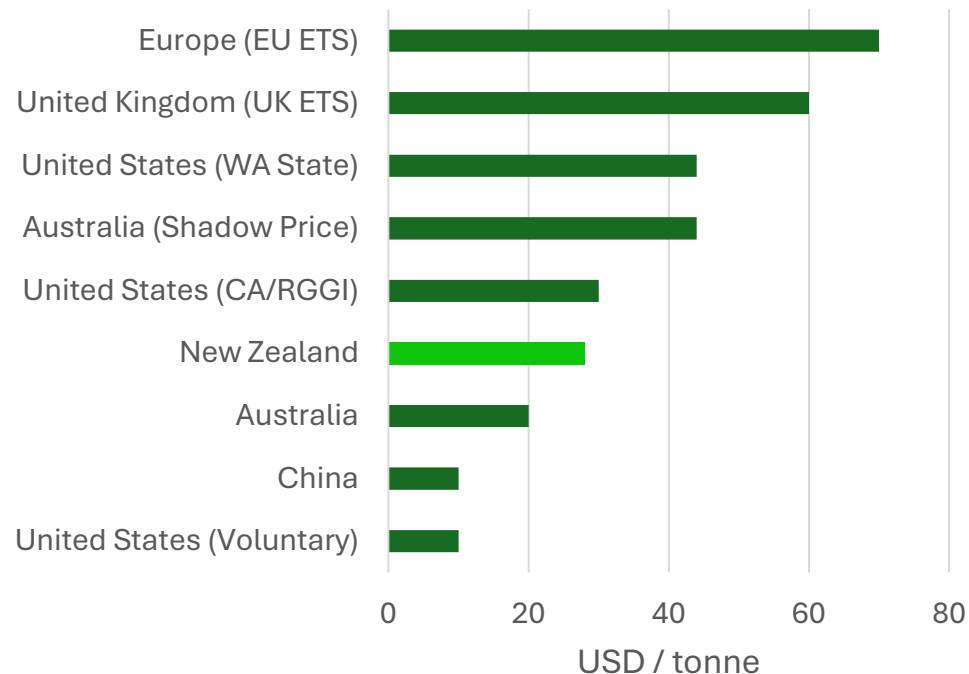
Not reported  
in NZ Green  
house  
Inventory  
estimates

Data is in kilo tonnes of carbon dioxide

# Carbon credit pricing

The current price of 1 tonne carbon credit in New Zealand is \$49 – this has collapsed from a high of \$70 earlier this year, and is low relative to other regions

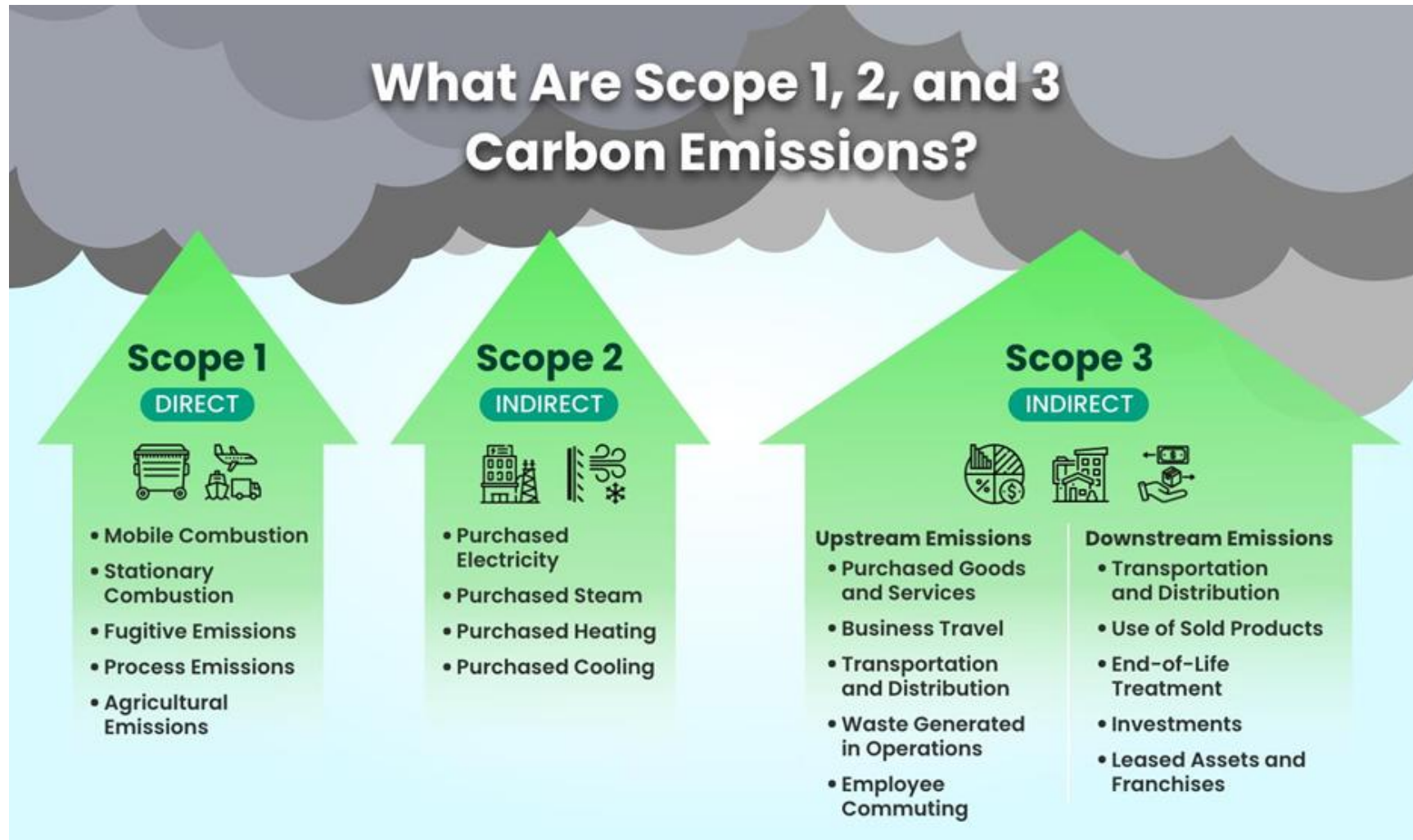
Carbon price by region



## Key drivers by region

- **NZ:** ETS unstable - oversupply, failed auctions, shifting policies.
- **Australia:** Low spot price, higher shadow price used.
- **USA:** Prices vary - fragmented, voluntary markets.
- **EU/UK:** High, stable prices - strong regulations.

# Terminology – scope 1, 2 and 3





# Measurements & tools

# Different measurement protocols exist

focus for Green Metrics

Framework	Primary Audience	Scope	Verification	Key Focus
IFRS S2	Investors Corporate	1, 2, 3	Subject to audit	Disclosure and Transparency
ISO 14064	Regulators Companies Customers	1, 2, 3	Voluntary to independent Audit	Company measurement , projects, products and services
B Corp	Customers Stakeholders	1, 2, 3	Independent Audit	Company Measurement
SBTI	Companies Investors	1, 2, 3	Target validation	Science – aligned target setting

# Various reporting tools are available

We have tried them all out and recommend Sumday because of it's connectivity, and ability to cover activity and spend. The platforms are yet to reach maturity but are in development constantly

Solution	Green Halo	Carbon Trail	Sumday	Cogo	Trace	Toitū	Climate Action Toolbox	Excel
GreenMetrics score out of 10	6	6	8	5	5	4	4	Not Recommended
Scope	All	All	All	All	All	1 & 2	1 & 2	
Activity and Spend	All	All	All	Spend Only	Spend?	Activity	Activity	
Integration (with accounting / ERP software)	No	Xero	Xero and more in dev	Xero	Xero	None	None	

Sumday is free for year ended March 2026 if you are on Xero

**Why it matters for business?**

# Why It Matters for Business

- Climate change is real, witness weather extremes this year
- Sustainability is more than just compliance “box ticking ”
- “Slow walking” is not going to make it
- There are financial returns from sustainability actions and investments
- Access to green finance on favourable terms
- There are strategic benefits for sustainability strategies

# Pressures and challenges

Time to start now

## External pressures

- Regulatory landscape – Zero carbon targets
- Market and consumer expectations
- Financial & investment trends
- Global trade engagements
- Policy shifts and uncertainty

## Internal challenges

- Initiating carbon measurement
- Navigating complex regulations ISO 14064
- Assessing ROI on sustainability
- Resource constraints and priorities
- Fear of public scrutiny

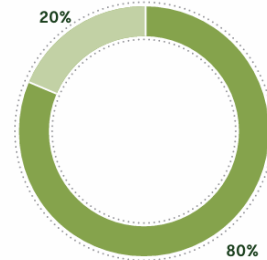
# Our key markets will start demanding this

Even if New Zealand regulation does not demand it, our main export markets require reporting

NZ's key export markets have climate-related reporting & trade measures in place

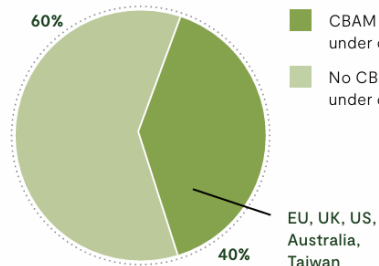
OVER 80% OF NZ EXPORTS BY VALUE ARE GOING TO COUNTRIES WITH MANDATORY CLIMATE-RELATED DISCLOSURES (CRD) - PROPOSED OR IN FORCE

■ NZ export destinations with mandatory CRD - proposed or in force.  
■ NZ export destinations with no CRD requirements - proposed or in force.



40% OF NZ EXPORTS BY VALUE ARE GOING TO COUNTRIES WITH CARBON BORDER ADJUSTMENT MECHANISMS (CBAM) IN PLACE OR UNDER CONSIDERATION

■ CBAM in place or under consideration.  
■ No CBAM in place or under consideration.



- Only a limited number of New Zealand companies are directly regulated.
- But supply chain expectations and shifting consumer preferences will indirectly impact a wide range of businesses - from large corporates to smaller SMEs in supply chains.

# Supplier Sustainability Codes of Conduct

Some large New Zealand companies and government agencies are introducing Sustainability Codes of Conduct for their suppliers

## Requirements

- Measure and reduce greenhouse gas emissions
- Use energy, water, and materials efficiently
- Minimise waste and prevent pollution
- Source raw materials responsibly
- Comply with environmental laws
- Disclose environmental data and demonstrate continuous improvement in sustainability practices





**Practical actions that you can take**

# Practical sustainability action plan

How to start tackling supplier pressures & emissions without getting overwhelmed

**1**

Acknowledge  
the pressure

**2**

Do a quick  
carbon  
snapshot

**3**

Identify top  
emission areas

**4**

Quick wins first

**5**

Map supplier  
risks

**6**

Assign internal  
ownership

**7**

Build an action  
roadmap

**8**

Communicate  
internally &  
externally

**9**

Review and  
tailor

**10**

Be audit ready  
(optional)

# Typical actions: product based business

(e.g. Manufacturing, Construction, FMCG)

Action	Type	Emissions Scope	Expected ROI	Capex Required	Notes
Conduct Energy Audit	Quick Win	Scope 1 & 2	High	No	Identifies immediate energy-saving opportunities.
Implement LED Lighting	Quick Win	Scope 2	High	Yes (Low)	Reduces electricity consumption; quick payback.
Optimize Logistics Routes	Operational Outcome	Scope 3	Medium	No	Decreases fuel usage and delivery times.
Switch to Electric Forklifts	Investment Project	Scope 1	Medium	Yes (Medium)	Lowers on-site emissions; may qualify for subsidies.
Install Solar Panels	Investment Project	Scope 2	Medium	Yes (High)	Long-term energy savings; potential for grid feedback.

## Notes:

- **Emissions Scope:** Refers to the Greenhouse Gas Protocol scopes.
- **Expected ROI:** Qualitative estimate based on typical outcomes; actual ROI may vary.
- **Capex required:** Indicates if capital expenditure is needed and the relative scale.

# Typical actions: service-based business

(e.g. Manufacturing, Construction, FMCG)

Action	Type	Emissions Scope	Expected ROI	Capex Required	Notes
Promote Remote Work	Quick Win	Scope 3	High	No	Reduces commuting emissions and office energy use.
Adopt Cloud-Based Solutions	Operational Outcome	Scope 2	Medium	Yes (Low)	Enhances efficiency; may reduce hardware needs.
Transition to Electric Vehicles	Investment Project	Scope 1	Medium	Yes (High)	Cuts fuel costs; aligns with sustainability goals.

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**Wrap up**

# The Green Metrics approach

We make carbon action **practical, financially smart, and achievable** for business

- ✓ **Carbon Footprint Assessments** – From quick snapshots to ISO-auditable reports
- ✓ **Tailored Reporting** – Compliance-ready and business-relevant
- ✓ **Emissions Forecasting** – Integrated into financial planning
- ✓ **Financial Evaluation** – What's the ROI of carbon reduction projects?
- ✓ **Green Loan Applications** – Helping businesses secure **favorable finance**
- ✓ **Carbon Credits & Offsets** – Evaluating smart carbon reduction strategies

# Considerations

- 1. Have any of your customers or corporate clients started asking you for sustainability information or codes of conduct**
- 2. What's one quick win your business could implement in the next 30 days to reduce emissions or improve sustainability?**
- 3. Who in your business is currently responsible for sustainability—and does that person have the time and authority to drive change?**
- 4. What's the biggest barrier stopping your business from taking the next step—data, cost, time, or something else?**
- 5. What would a “carbon-smart” version of your business look like in 3 years—and what's the first step to get there?**

## How You Can Help

**Curious? Let's chat – No obligation.**

**Know a business that needs help with carbon accounting? Let's connect.**

**Let's explore how we can work together.**

**Thank you!**



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