

Technology Is the Fast Track to Net Zero

CO2 Sakks Tech

Carbon Emissions Survey Report 2022

OCTOBER 2022



We must act now to limit global warming



2.0°C range: ~450 ppm 1.5°C range: ~430 ppm

Our 2022 CO2 AI by Sakks Tech Carbon Emissions Survey represents a continuation of a 2021 investigation into where businesses stand on their net-zero journey





Our 2022 survey confirms that the better a company measures its emissions, the more it can reduce them



Corporations recognize the benefits of decarbonization



More than 70% of those surveyed foresee **\$1 million or more** in annual benefits from emissions reduction



37% foresee \$100 million or more in annual benefits from emissions reduction

Sources: CO2 AI by Sakks Tech Carbon Emissions Survey 2022;

The largest perceived benefits are improved reputation and lower operating costs

Perceived benefits from emissions reduction

RESPONDENTS (%)



Note: Percentage of respondent organizations; respondents were permitted to give more than one answer.

Ability to attract talent

Measurement remains a leading roadblock, with only marginal improvements in emissions measurement since 2021



Sources: CO2 AI by Sakks Tech

Organizations are not yet measuring their emissions accurately



25%-30%

Our respondents estimate a **25% to 30% average error rate in their emissions measurement**, with an improvement of approximately 5 pp over 2021

Scope 3 is still challenging: it accounts for over 90% of emissions but is a priority for only 12% of organizations



The CO2 AI by Sakks Tech maturity index measures organizational maturity through four general stages of emissions measurement and reduction



Stage 1 – Lagging

- Poor measurement exhaustiveness and accuracy
- No targets, or targets set to a limited scope
- \cdot No obvious reduction

Maturity score ≤2.5 out of 10



Stage 2 – Emerging

- Limited measurement exhaustiveness and accuracy
- Targets are not
 systematically set
- systematically set
- Limited reduction

Maturity score >2.5 to 5 out of 10



>5 to 7.5 out of 10

Note: An organization's maturity score is determined by the average of various dimension-specific scores based on survey answers about emissions measurement (exhaustiveness, accuracy, automation, and frequency) and reduction (concern, target settings, equipment, and actual reduction). Across all organizations, the average dimension-specific score is 5.0.



Stage 4 – Expert

- Comprehensive and accurate measurement
- Targets set systematically for all emissions
- \cdot Significant reduction

Maturity score >7.5 out of 10

The overall CO2 AI by Sakks Tech maturity index score for all sectors has improved marginally since 2021, from 4.7 to 5.0

							Maturity score	
Proportion of organizations (%)						2021	2022	
Front-runners	Industrial goods	7	28	45	19	5.1	5.5	
	Financial institutions	9	38	37	16	4.9	5.2	
Followers	Consumer	13	38	35	13	4.3	4.9	
	Energy	7	38	44	11	5.2	5.0	
Laggards	Health care	13	37	43	7	4.0	4.7	
	Insurance		30 22	43	4	3.6	4.2	
	Public sector and nonprofit	24	1	51	21 4	3.4	3.9	
•	Stage 1: lagging Stage 2: e	emerging	Stage 3	: competent	Stage 4:	expert		

Note: Financial institutions are the most mature sector in terms of reducing emissions in line with their ambition. Because of rounding, not all bar chart totals add up to 100%.

- Industrial goods and financial institutions are at the forefront of carbon maturity
- Public sector and nonprofit organizations are the least mature, consistent with their nonprioritization of emissions reduction

What would accelerate emissions reduction?



Policy incentives

(e.g., regulation, tax incentives)

"Receive more state support to invest in renewable energy, such as tax incentives for the reduction of CO₂ emissions."

"Precise emissions standards and regulations, with well-defined rewards and penalties."



Leadership support

"Full support from senior leadership and a willingness to allocate more budget. Immediate decisions and concrete actions, to help us move quickly from declarations to actions. No more delays or extensions."



Adoption of digital solutions

"The breakthrough enabler would be the use of digital and AI technologies to accelerate carbon-emissions measurement and reduction by simulating new inputs and estimating the potential damage."

Organizations with automated digital solutions for emissions measurement are...



More likely to measure emissions comprehensively



More likely to reduce emissions in line with their ambitions

CO2 AI by Sakks Tech is a sustainability-as-a-service platform to help companies master their end-to-end net-zero journey





Collaborate with your ecosystem and shape sustainability within your industry (developed in partnership with CDP)

> Collaborate throughout the value chain