AI X SUSTAINABILITY AD NET ZERO RESOURCE GUIDE



Ad Net Zero hosted three webinars exploring the opportunities and challenges of AI as it becomes ubiquitous, particularly in the advertising industry. Experts from APR, Google, HAVAS, ITV, Scope 3, Murphy Cobb, Public Good, Reckitt, and trade associations the 4A's, Advertising Association, and ISBA shared their perspective over three sessions. Key topics included:

- what people need to understand about AI (AI vs. Gen AI / LLMs),
- what we know and don't know about AI's emissions and natural resource use,
- industry uses, examples of AI powering sustainability through efficiency or innovation.

AI Foundation & Operational

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AI in Creative & Production



AI Future & Policy



Check out the <u>full writeup</u> with summaries and additional resources.

Ad Net Zero Al x Sustainability Exploratory Q1 2025 Series Summary

"We can use generative AI to **support growth** in our businesses **while recognising the carbon cost**...**before** discussing the lack of consensus on AI emissions measurement and the **actionable steps**

18 MARCH 2025

In Q1 2025, Ad Net Zero held a global educational exploratory series on AI and Sustainability. This three-part series covered a wide range of topics, from foundational information and misconceptions about AI, energy use and natural resource use, specific applications in production and creative, to the future of AI policy and regulation across the globe.

Experts from trade organisations 4As, Ad Association, ISBA, along with Google, Havas, Scope3, Spark Foundry, Public Good, APR, Murphy Cobb, ITV all contributed to the series.

Read below for a summary of the takeaways, <u>trailers</u> (full videos are accessible by supporters only), and valuable resources that speakers and attendees shared.

"The real value comes when AI tools are used as enablers, not as replacements, enhancing human creativity and strategic decision making."

- STEFFEN GENTIS, MURPHY COBB & RECKITT

one can take now to reduce carbon intensity."

- AYA SAED, DIRECTOR OF AI POLICY & STRATEGY, SCOPE3

"Try to understand where this sits in terms of your **overall impact.** ...How you can use these tools, **not only** in making sure the tools are as environmentally efficient as possible, but... to reduce the **overall impact** of your organisation".

- ADAM ELMAN, EMEA DIRECTOR OF SUSTAINABILITY, GOOGLE

External Resources

Advertising industry specific resources include:

Page 32, AI Taskforce's Report (2024)



ISBA & the IPA's 'AI Principles' (2023)

Advertising industry principles for the use of Generative AI in Creative Advertising

ISBA and The IPA 01 Nov 2023

Scope3 Sustainable AI Substack



Check out deeper dive resources on following page...

AI X SUSTAINABILITY AD NET ZERO RESOURCE GUIDE

Learn more to help you / your organisation develop mindful use principles::

Power Hungry Processing: *F* Watts **F** Driving the Cost of AI Deployment?

ALEXANDRA SASHA LUCCIONI and YACINE JERNITE, Hugging Face, Canada/USA EMMA STRUBELL, Carnegie Mellon University, Allen Institute for AI, USA



informed an Be consumer. Understand what you're buying and how things differ, so you know what questions to ask.

Dig in on the things you do a lot, not the things you don't do very much... that's where you'll get maximum benefit."

- DAN RATNER, CO-FOUNDER AND CEO, PUBLIC GOOD

Quantified Emissions paper | Hugging Face

"Keep asking for that [emissions] data from [your service provider]..

Where you have control, think



about the optimisation, how you those models more can run efficiently."

- TIM DAVIS, PRINCIPAL ARCHITECT, ENTERPRISE ARCHITECTURE, ITV

Electricity 2024 Report | IEA

<u>IEA's Detailed 2024 Energy Analysis</u>	TBI's Policy Recommendation	<u>The Sensible AI Manifesto</u>
World Energy Outlook 2024	Greening AI: A Policy Agenda for the Artificial Intelligence and Energy Revolutions	THE SENSIBLE A MANIFESTO
		<u>AI for energy optimisatio</u>
<u>Nature, 2025</u>	<u>WEF & BCG, 2025</u>	AI Datacenter Energy Dilemma and innovation
scientific reports	In collaboration with Boston Consulting Group BOSTON CONSULTING GROUP	i≣ Contents Potential energy savings by sector in the Widespread Adoption Case, 2035
OPEN The carbon emissions of writing and illustrating are lower for AI than for humans	Climate Adaptation: Unlocking Value Chains with the Power of Technology	

Bill Tomlinson^{1,2^[2]}, Rebecca W. Black¹, Donald J. Patterson^{1,3} & Andrew W. Torrance^{4,5}

As Al systems proliferate, their greenhouse gas emissions are an increasingly important concern for human societies. In this article, we present a comparative analysis of the carbon emissions associated with AI systems (ChatGPT, BLOOM, DALL-E2, Midjourney) and human individuals performing equivalent writing and illustrating tasks. Our findings reveal that AI systems emit between 130 and 1500 times less CO2e per page of text generated compared to human writers, while AI illustration systems emit between 310 and 2900 times less CO2e per image than their human counterparts. Emissions analyses do not account for social impacts such as professional displacement, legality, and rebound effects. In addition, AI is not a substitute for all human tasks. Nevertheless, at present, the use of AI holds the potential to carry out several major activities at much lower emission levels than JANUARY 2025





