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The data center industry is responsible for 2-3% of global greenhouse gas (GHG) emissions.

4-6% by 2026

Training a single medium-sized generative AI model using "neural architecture search" used electricity and energy consumption equivalent to 626,000 tons of CO₂ emissions

CO₂ in 1 year by **125.200** ppl

WHAT DETERMINES THE CARBON FOOTPRINT OF GENERATIVE AI MODELS?

1. Training the model

2. Running inference with the ML model once it has been deployed

3. Production of all of the needed computing hardware and cloud data center capabilities

HOW TO MAKE AI GREENER

- 1. Re-use models, fine training, and resources
- 2. Use energy-conserving computational methods
- 3. Be discerning about when you use generative Al
- 4. Evaluate the energy sources of your cloud provider or data center.
- 5. Evaluate your partners and providers, by giving more business to ones who promote green AI usage
- 6. Include AI activity in your carbon monitoring



Thank you

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