3D printing could reduce global CO₂ emissions by 130.5 million tonnes by 2025

As 3D printing centralizes production and reduces the shipment of goods, CO₂ emissions could be reduced by 130.5 to 525.5 million tonnes by 2025, including a 5% reduction in manufacturing emission intensities.

That’s the equivalent amount of CO₂ as...

- **302 million** barrels of oil consumed
- **14 million** homes’ energy use in one year
- **712,000** railway trucks of coal burned
- **32** coal-fired power stations running for a year

**3D printing lowers CO₂ emissions by:**

1. Reducing tooling in pre-production
2. Lowering sub-assemblies required in mass production
3. Moving manufacturing closer to end users, significantly saving on freight

CO₂ equivalents source: United States Environment Protection Agency