



# Andrew Green



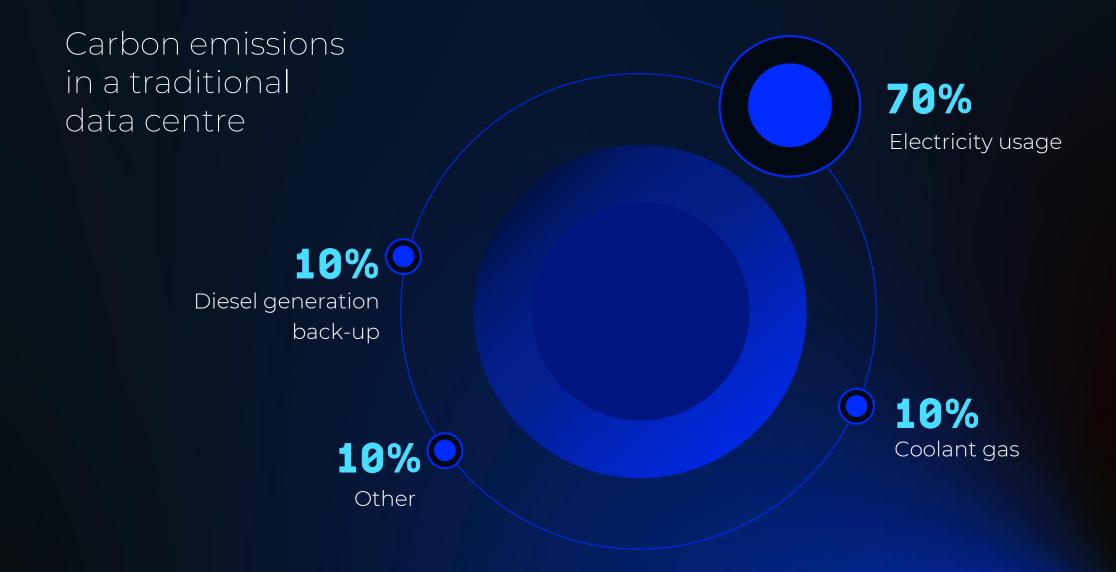
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Data centre expert

Dad (not an expert)



Peak demand still relies on fossil fuels

OVERFLOW NON-RENEWABLE POWER GENERATION

TOTAL GRID ENERGY USAGE

MAXIMUM RENEWABLE POWER GENERATION

TIME OF DAY

AM

PM

## Impact of AI on Data centres





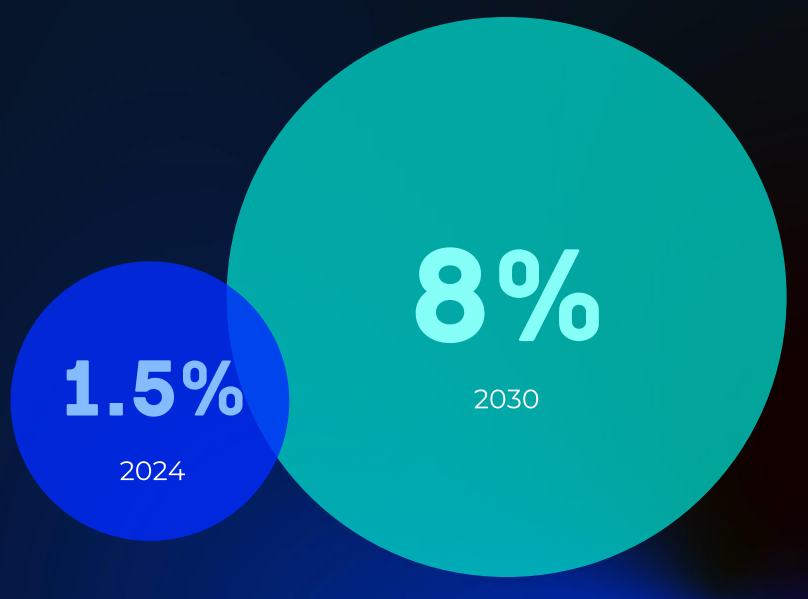


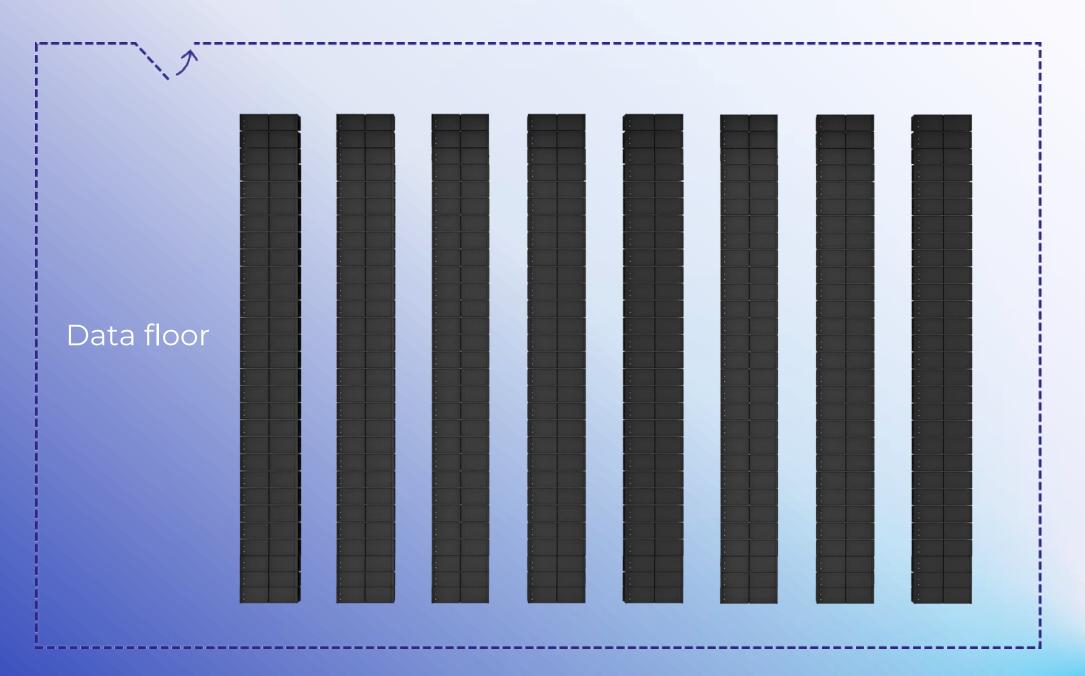
One Google search can power a light bulb for **11 seconds** 

A single ChatGPT-3 session can power a light bulb for **3 hours and 3 minutes**  A single ChatGPT-4 session can power a light bulb for **152 hours and 30 minutes** 

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Data Centre global energy use and growth projections





Data floor



Data floor









