

# Microsoft's Environmental Footprint

Our new data center design goals:

→ **30–50% more efficient**

Average **1.125 PUE**  
(power usage effectiveness)

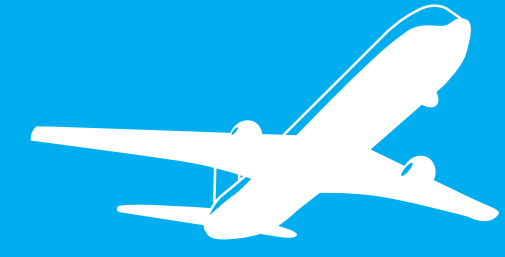


Dublin data center

↗ **50%** more energy efficient

↘ **1%** of typical annual water consumption

Reduced carbon footprint from travel by **30,000 metric tons** since 2007

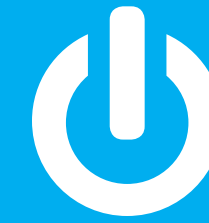


In 1 year: saved **10M kWh** with PC power management  
= **~2,000 cars** off the road for 1 year



reducing energy use and air travel through technology-driven efficiency

**6–10%** energy savings from **energy management program pilot**



**lean**



Establishing reduction goals for



Purchasing market renewable energy certificates (RECs) and carbon offsets



making more environmentally responsible choices with our energy, waste, and water



**2,288 solar panels** at our Mountain View, CA, campus

**zero** landfill policy for e-waste in the United States



**waste target** for Redmond, WA, cafeterias



Signing long-term renewable power purchase agreements



Connecting data centers directly to **innovative** renewable energy sources

Investigating options for:



Investing capital in new **renewable energy** projects



Hydropower: **#1** energy source for our Quincy, WA, data center

Recognized by **US EPA** for commitment to renewable energy

**green**



Setting a **carbon price** to internalize the external impact of our operations



quantifying our carbon impact and holding groups responsible

Met goal: **reduced emissions by 30%** per unit of revenue from 2007 levels by 2012 with:

- emissions reduction initiatives
- renewable energy purchases

To: charity of choice \$ **1,000**

for Microsoft Environmental Action Award winner

**Microsoft**



**Sustainability Champions:** Reducing energy use in buildings by

Improving transparency using **emission-tracking software** and Carbon Disclosure Project (CDP) reporting



Optimizing the **supply chain**



Charging the teams responsible for emissions

**carbon free**

**3-10%**

**Microsoft**

**accountable**



**carbon neutral** by 2013