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Microsoft Sustainability Calculator helps enterprises analyze the carbon emissions of their IT infrastructure

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Blog / Announcements

Noelle Walsh, Corporate Vice-President, Cloud Operations + Innovation

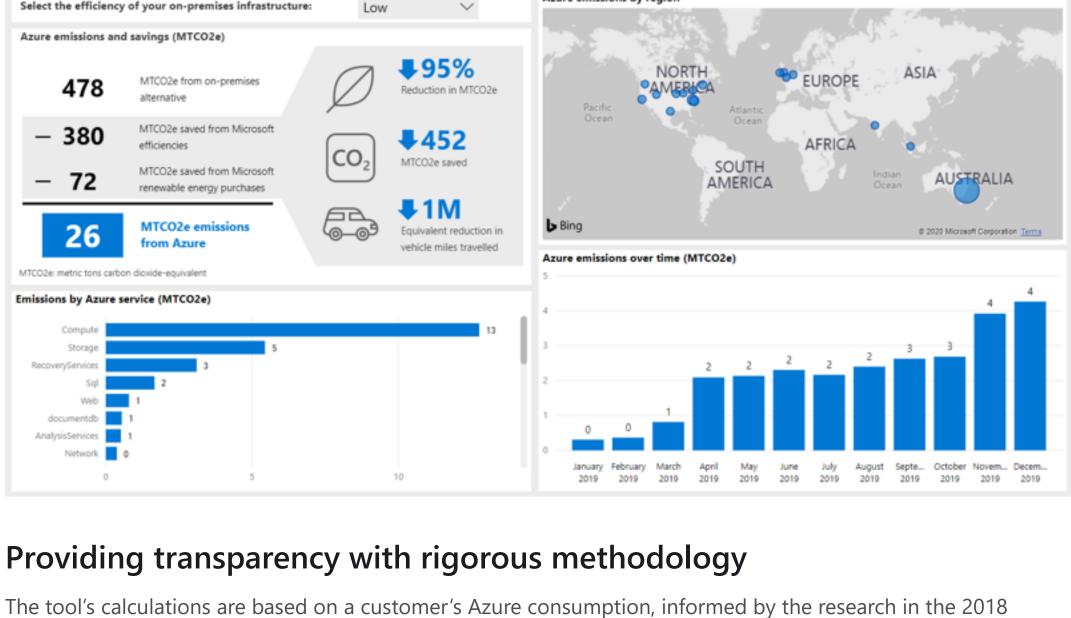


our commitments, evidenced by our announcement that Microsoft's cloud datacenters will be powered by 100 percent renewable energy sources by 2025. The commitments and investments we make as a company are important steps in reducing our own environmental impact, but we recognize that the opportunity for positive change is greatest by empowering customers and partners to achieve their own sustainability goals. An industry first—the Microsoft Sustainability Calculator Today we're announcing the availability of the Microsoft Sustainability Calculator, a Power BI application for Azure

digital transformation of organizations around the world through cloud services. We strive to be transparent with

enterprise customers that provides new insight into carbon emissions data associated with their Azure services. Migrating from traditional datacenters to cloud services significantly <u>improves efficiencies</u>, however, enterprises

are now looking for additional insights into the carbon impact of their cloud workloads to help them make more sustainable computing decisions. For the first time, those responsible for reporting on and driving sustainability within their organizations will have the ability to quantify the carbon impact of each Azure subscription over a period of time and datacenter region, as well as see estimated carbon savings from running those workloads in Azure versus on-premises datacenters. This data is crucial for reporting existing emissions and is the first step in establishing a foundation to drive further decarbonization efforts. Azure service type Sustainability Calculator Microsoft Multiple selectio... ∨ Customer: Contoso Calculations in this tool are estimates, and values may not sum due to rounding. For more information, see the FAQs. Azure emissions by region



the energy requirements of the Azure service, the energy mix of the electric grid serving the hosting datacenters, Microsoft's procurement of renewable energy in those datacenters, as well as the emissions associated with the

Sustainability Calculator

Microsoft

transfer of data over the internet. The result is an estimate of the greenhouse gas (GHG) emissions, measured in total metric tons of carbon equivalent (MTCO2e) related to a customer's consumption of Azure. The calculator gives a granular view of the estimated emissions savings from running workloads on Azure by accounting for Microsoft's IT operational efficiency, IT equipment efficiency, and datacenter infrastructure efficiency compared to that of a typical on-premises deployment. It also estimates the emissions savings attributable to a customer from Microsoft's purchase of renewable energy.

Months

Multiple selectio...

Region

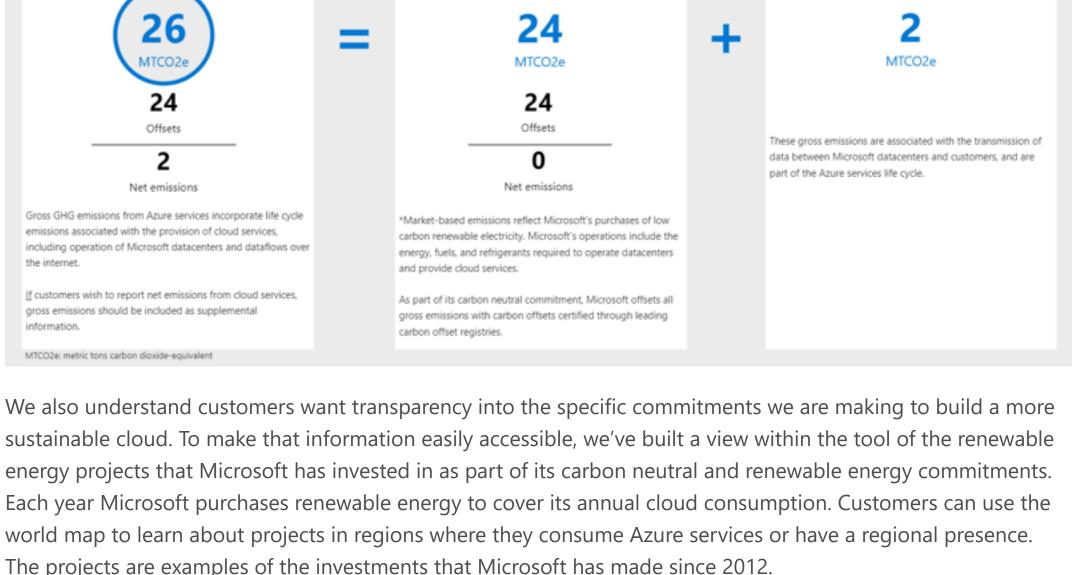
internet

independently verified by Apex, a leading environmental verification body. The calculator factors in inputs such as

whitepaper, "The Carbon Benefits of Cloud Computing: a Study of the Microsoft Cloud", and have been

Customer: Contoso Calculations in this tool are estimates, and values may not sum due to rounding. For more information, see the FAQs. This page provides Microsoft customers with a summary of the GHG emissions associated with their use Microsoft Azure cloud services. Microsoft customers can report these emissions using the GHG Protocol classification of Purchased Good and Services (Scope 3 Category 1). The Microsoft Sustainability Calculator quantifies emissions to help customers understand the operational emissions footprint associated with their use of Azure services and the benefits onpremises enterprise deployment benefits. Microsoft operates carbon neutral for its global operations (Scope 1 and 2) and business air travel (Scope 3 Business Travel), and used its carbon neutral commitments to guide the creation of cloud services with a very low carbon footprint. In addition to the guidance provided here, we recommend that you consult the current GHG Protocol and your GHG inventory experts. Customer emissions from Azure services Emissions from Microsoft operations Emissions from data flows over the

(scope 1, scope 2-market based*)



A path to actionable insight Azure enterprise customers can get started by downloading the Microsoft Sustainability Calculator from AppSource now and following the included setup instructions. We're excited by the opportunity this new tool provides for our customers to gain a deeper understanding of their current infrastructure and drive meaningful sustainability conversations within their organizations. We see this as a first step and plan to deepen and expand

the tool's capabilities in the future. We know our customers would like an even more comprehensive view of the

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C Recommend 7 f Share **Tweet** Mark Bedford • 7 months ago

Azure Blog

Nice idea, wanted to check it out, but just doesnt work. View – uploads.disquscdn.com 6 ^ Share

∧ | ∨ · Share › rakan alghamdi • 5 months ago

thank you ^ Share →

^ Share →

Techno Dude • 6 months ago

Great initiative, but I think you need to fix the units in the example....it shows you saved 452MTCOe equivalent to 1M vehicle miles....But that means 1vehicle mile = 452TCO2 (obviously wrong)...out by a factor of a million...you can fix by changing the "452MTCO2" to "452TCO2e", or by changing the "1M Vehicle..." to 1T Vehicle...". ^ Share →

Would love to use it but it's only available for the Enterprise Azure Portal. I work for a non-profit so it won't work at all.

Derek → Peter James • 6 months ago Hi Peter - MTCO2e stands for metric tons carbon dioxide-equivalent, as shown in the footnote, not million tons. I see how this is confusing as typically an M indicates million or mega. ^ Share →

Pointless activity. david murray → Biff Henerson • 7 months ago It's not as useless as you might think. Given the amount of wasted CPU cycles that goes into generating bit-coin, for example, it is good to know the related

i would like to ask if i get 16 GB in cloud how mush ill pay monthly or yearly? please let me know how is the payment work and how mush will coast if i get 16GB space.

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Azure service type

The projects are examples of the investments that Microsoft has made since 2012.

sustainability benefits of our cloud services and look forward to supporting and enabling them in their journey.

Announcements

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Jolanda Geijer • 6 months ago I have tested the Microsoft Sustainability Calculator with a partner yesterday and it worked:)

1 ^ \ Share





Biff Henerson • 7 months ago Like young males bragging about their automobiles to assert dominance in the peer group, climate folks can brag about numbers that are absolutely worthless as well.

environmental impact 1 ^ Share

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