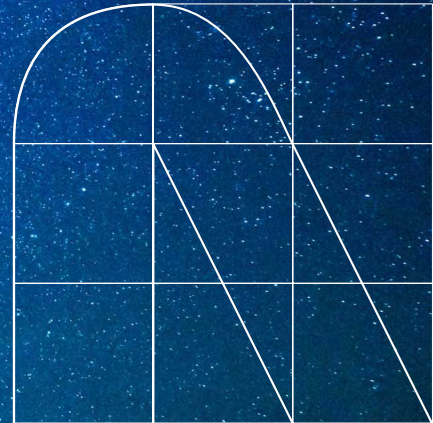


NTT DATA Business Solutions | Carbon footprint optimization on hyperscalers

Sustainability and public cloud: we optimize your IT landscape



Public cloud services: Effects on the CO₂ footprint

3 out of 4 companies are already taking advantage of the Public Cloud (Hyperscaler) to quickly adapt to new market requirements. However, the constant increase in IT performance is leading to an increase in CO₂ emissions from data centers.

How can companies reduce their CO₂ footprint?

To counteract this, the major hyperscalers are driving forward initiatives aimed at gradually converting the energy supply of data centers to renewable energies and optimizing their efficiency in terms of power consumption, cooling and other energy consumption.

As a result, there are already data centers that run on green power and use the latest technologies to reduce power consumption. These initiatives are very valuable and promising, but they will only achieve measurable success in a few years.

Carbon footprint optimization on hyperscalers – a service from NTT DATA Business Solutions

NTT DATA Business Solutions has developed a service that helps companies to exploit the potential and advantages of sustainable hyperscaler data centers and to plan, set up and operate their IT landscapes in a CO₂-optimized manner without having to forego technological innovations.

84%

of companies already use cloud services.¹

¹ Result of the Managed Services Study 2022, conducted by NTT DATA Business Solutions in collaboration with the Custom Research Team of CIO, CSO and COMPUTERWOCHE has carried out.

Global cloud computing emissions exceed those from commercial aviation

Share of global CO₂ emission generated by sector/category



Global emissions from cloud computing are between 2.5% and 3.7% of all global greenhouse gas emissions, exceeding emissions from commercial flights (around 2.4%) and other existential activities that drive our global economy. Source: ClimaTiq Analysis, The Shift Project, OurWorldInData

The service implementation takes the following focal points into account:



Choice of the right region



Selection of the most efficient computer instances



Optimization of computer hours



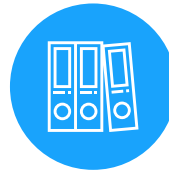
Avoidance of unnecessary network technology and data transfer



Use of different storage technologies



Reduction to essential services



Reduction of redundant data

We determine the current carbon footprint of our customers and analyze the exact emissions of the hyper scaler landscape. We examine optimization potential with regard to carbon dioxide consumption and use all this information to make detailed recommendations for various CO₂ models.

The models describe which adjustments to the IT landscape have which impact on CO₂ emissions and the associated costs. If required, we also support our clients with their implementation and adjustments.

“ The greenest energy is the energy we don't use.

Peter DeSantis, VP of AWS Global Infrastructure

Hyperscaler advisory and consulting services

We are known for excellent SAP services. We also offer our customers expertise in consulting and recommendations on digital experience services, data & analytics deployment, IoT & AI, DevOps and value add services.

As a full-service provider, we support you on your transformation journey towards becoming an intelligent company and in complying with ESG guidelines. Our consulting services and customized service concepts enable seamless management services that cover all areas.

We take care of your solutions – across all industries and regions, and whether your IT environment is highly standardized or varies depending on your location. Our outstanding SAP experts are at your service worldwide to meet your individual requirements directly on site.

As a global full-service provider with more than 30 years of unique core expertise in the SAP portfolio, we offer impartial advice on hosting, private and public cloud structures and make your IT environment fit for the future.

Your next step: Contact our specialists in your local area today!

www.nttdata-solutions.com/contact

We Transform. SAP® Solutions into Value We understand the business of our clients and know what it takes to transform it into the future. At NTT DATA Business Solutions, we drive innovation – from advisory and implementation, to managed services and beyond, we continuously improve SAP solutions and technology to make them work for companies – and for their people.

