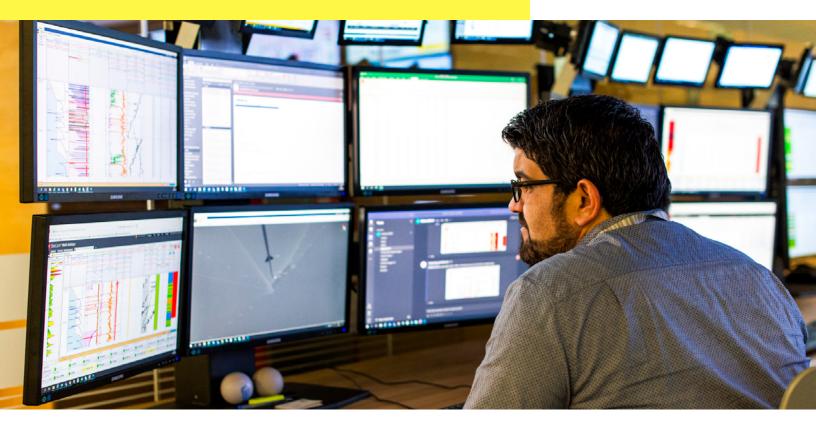# Repsol's digitalization boosts ambitious zero net emissions goal

ⁿ NetApp

Azure NetApp Files is helping make better decisions faster and reach sustainability goals

Big data and artificial intelligence play a leading role in climate change analysis and are critical during the clean energy transition.

Repsol, the multi-energy company based in Madrid, has launched more than 280 digital transformation projects with 40 strategic partners to help reach net zero emissions by 2050. To get there, Repsol is using multiple tools, of which Microsoft Azure is key.

This digitalization process is transversal to all the company's businesses, including the exploration and production area.

Efficient exploration relies on compute and storage intensive model creation based on potentially thousands of interconnected parameters, managed by Azure NetApp Files (ANF).

REPSOL

Faster simulations

> "With Azure NetApp Files, we have seen amazing performance increases; simulations that took over a month, now are taking a few hours."

Juan Pedro Bretti
Digital Transformation Engineer, Exploration and Production, Repsol

The importance of analysis is one reason why Repsol chose Microsoft Azure and Azure NetApp Files – for its world-class scalability, flexibility and reliability. This data-driven hybrid cloud model provides greater access to critical information for key Repsol employees and decision-makers around the world.

"Today, a colleague working on geological models in Bolivia, a technical expert in Houston, and a quality assurance auditor working from Madrid – all collaborate securely, thanks to cloud services like Microsoft Teams and Virtual Desktop Infrastructure, powered by Azure NetApp Files" said Guillermo Fernandez, Digitization Director E&P.

The ability of Repsol professionals to have a global view of assets and maintain operability is very important. Repsol's commitment to the environment and safety is at the core of its operations with high demands for safety and synchronization of a global, information value chain.

Sustainability starts with improving efficiency. Detailed insights into drilling operations, for example, can help pinpoint precise locations for drilling and improve extraction methods. Evaluating existing and potential drilling sites requires huge volumes of data to create a comprehensive view of the underground world.

By adopting Microsoft Azure high-performance computing (HPC) with Azure NetApp Files, Repsol is seeing significant performance increases in the modeling. Faster modeling means more "runs" can be conducted each day. For some engineers, what once required a month to process now takes only a few hours. From as little as a single run per day to hundreds per day. More runs, better insights.

"We have significantly improved our ability to target exploration locations thanks to high performance reservoir simulation systems powered by Azure and Azure NetApp Files," said Fernandez.

Repsol can focus on additional applications, including asset management, Internet of Things and highly technical programs specific to its industry. All rely on the constant flow of good data.

"Reaching Net Zero by 2050 would be almost unattainable without these technological solutions," Fernandez said. "Never before has a data-driven culture been so necessary."

NetApp products

- Azure NetApp Files

About NetApp
In a world full of generalists, NetApp is a specialist. We're focused on one thing, helping your business get the most out of your data. NetApp brings the enterprise-grade data services you rely on into the cloud, and the simple flexibility of cloud into the data center. Our industry-leading solutions work across diverse customer environments and the world's biggest public clouds.

As a cloud-led, data-centric software company, only NetApp can help build your unique data fabric, simplify and connect your cloud, and securely deliver the right data, services and applications to the right people—anytime, anywhere. To learn more, visit www.netapp.com

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