PURESTORAGE®
Uncomplicate Data Storage, Forever

ANDRA

About Customer

The French National Radioactive Waste Management Agency (Andra) is responsible for identifying, implementing, and ensuring the safe management of French radioactive waste disposal to minimize risks for present and future generations.
www.andra.fr

Geo

EMEA

Industry

State and Local Government

Solution Area

Accelerate Core Applications
Modernize Data Protection

Pure Storage®
Products in Use

FlashArray//X™
Evergreen® Architecture
Pure1®

Andra Modernizes Digital Storage to Manage Radioactive Waste

Andra conducts highly sensitive missions regarding long-term management of dangerous radioactive substances. The organization needs secure, reliable, and resilient storage that meets sustainability requirements demanded by regulations.

Andra selected Pure Storage to meet its evolving data needs and benefit from a more modern, easy to manage solution.

Resilient, Secure, and Reliable Solution

"We opted for Pure Storage because we needed to challenge our legacy storage infrastructure and replace it with a more modern, secure, and sustainable solution," says Olivier Tardy, head of infrastructure and operations at Andra.

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> **OLIVIER TARDY,**
> HEAD OF INFRASTRUCTURE AND OPERATIONS, DIGITAL AND INFORMATION SYSTEMS DEPARTMENT, ANDRA

Impacts for Andra

Safely handles data related to dangerous radioactive substances

Support environmentally-conscious practices in the organization

Maximize lifespan of equipment with upgradeable arrays

Challenges

Modernize the storage infrastructure to meet evolving data needs

Support sustainability goals with green technology

Protect sensitive and confidential data in data centers

Results

Stored 250 TB of data while reducing footprint by 80%

Helped reduce global data power consumption by 20% and CO2 emissions by 4 tons

Improved data protection with SafeMode™ immutable snapshots

But it was the product demonstration that really tilted the balance towards Pure. “The sales team went above and beyond by putting their own production site through a lot of stress and the storage proved resilient. It played a decisive role in our decision,” says Tardy.

Pure Storage FlashArray prevents downtime and contributes to the organization’s business continuity plan. While SafeMode immutable snapshots enhance the organization’s data protection strategy. Pure Storage was also a game-changer for Andra in terms of metrics reliability. “Once we started using Pure1, we found that the metrics corresponded precisely to predictions for space savings,” explains Tardy.

Improving Sustainability With the Right Technology

Sustainability was paramount in Andra’s choice of a new storage infrastructure. The organization wanted to debunk any misconceptions people may have about the environmental impact of nuclear waste management, focusing efforts on becoming an environmentally-conscious agency. Pure Storage solutions played a significant part in helping Andra achieve a 20% decrease in global energy consumption across its entire data center. It also reduced the physical footprint from 30U to 6U and eliminated 4 tons of CO2 emissions per year.

The Pure Evergreen™ architecture further minimizes environmental footprint, since it allows Andra to upgrade modular elements without replacing entire arrays. “This helps better manage the product lifecycle while also being more eco-friendly,” says Tardy. “Pure Storage played a major role in making our carbon footprint ‘greener’ during a recent audit of our environmental performance.”

Andra elected to place its trust in Pure Storage by considering the operational use of the chosen storage solution over the next ten years. “This is a first for the agency and an unusual choice when it comes to IT and technology,” Tardy concludes. “Andra is committed to pursuing a wide range of environmental initiatives to make its practices even greener in the future. We are confident that Pure Storage will continue to support us as we strive to reach our objectives in terms of digital storage.”

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