

Case Study

Global energy producer | GCC | Oil & Gas / Energy

Climate change resilience and asset protection programme for a major GCC Oil & Gas company

Assessing key assets' vulnerability to physical climate risks and establishing a scalable, consistent framework for enterprise-wide evaluation

The client is a leading global energy producer and a primary catalyst for the GCC's economic growth, operating an integrated business model across the entire energy value chain – from exploration to refining and petrochemicals.

The challenge

Seeking to proactively manage physical climate hazards, the client prioritised several key Oil & Gas assets for a focused pilot evaluation, assessing each asset's climate vulnerabilities and adaptive capacity to enable informed decision-making. The organisation also needed a robust, scalable risk assessment methodology to roll out across its broader asset portfolio.

The approach

dss+ executed a comprehensive Climate Risk Assessment – rating hazards through exposure assessment, vulnerability evaluation, and adaptation planning.

A preliminary assessment identified location-specific hazards, followed by targeted site visits to validate findings and secure primary data.

dss+ consolidated its modelling to quantify indicative Value at Risk and produce high-level adaptation strategies in a final report to stakeholders.

Impact on the ground

32+
vulnerabilities
identified per
key asset

15+
critical risks
defined for
adaptation action

500+M USD
Climate Value at Risk
quantified (business
continuity & asset risk)

The inflection point

*"Our climate resilience programme provided a clear view of over **USD 500 million in Climate Value at Risk**, enabling informed decisions to protect critical assets, maintain business continuity, and safeguard long-term enterprise value. The result is a more resilient operation, better prepared for future climate challenges."*

Timothy Paul
Sustainability
Principal, dss+



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