



Physical Climate Risk Analytics

Quantifying the cost of climate change.

Severe weather events across the globe continue to impact physical assets, supply chains and people. Understanding and mitigating risk is essential to ensure resilience in the present and into the future. Companies, utilities, municipalities and governments are looking for ways to evaluate and report on the physical and financial implications of potential climate risk exposure.

Black & Veatch has partnered with XDI to provide a full suite of physical climate risk analytics and solutions. Together we are providing best-in-class climate science to understand risk across all asset types. Whether you have a single facility or an entire portfolio

of assets, our climate analytics solutions can assess whether existing infrastructure and physical assets are likely to experience damage or impairment as a result of extreme weather and climate change. In addition, we analyze cross-dependency risk across asset portfolios by overlaying numerous risk models to produce enterprise-wide, multi-threat assessments. Analyzing at this level provides insights into whether proposed infrastructure changes may impact access to a facility or interrupt supply chain activities. This helps our clients understand what, where and when they should prioritize climate risk mitigation in an asset portfolio.

Preparing for tomorrow, today.

Climate analytics are helpful tools for businesses seeking data to inform purchasing and site design decisions, but such analysis is also critical to meet regulatory reporting and federal funding requirements. Our assessments provide qualitative and quantitative analysis to support climate risk disclosures, including addressing the financial impacts of severe weather events and other natural conditions on financial statement line items and governance of climate-related risks.

We can support all your business climate risk analysis needs — from simple due diligence for potential investors to more complex resilience planning for entire infrastructure systems.

Business, city or utility — we've got you covered.

Infrastructure & Business

- Individual asset risk analysis and adaptation
- Adaptation cost benefit analysis
- Physical climate risk reporting
- Portfolio analysis
- Company intelligence for institutional investors
- Commercial property and investment portfolio analysis

Municipalities & Governments

- Cross-dependency analysis
- Local economic impacts of climate
- Local area hazard risk modeling
- Land use planning with climate change modeling

Peace River Manasota Regional Water Supply Authority 2022

A water intake structure in Peace River, Florida was analyzed by BV according to the climate change scenario called RPC 8.5. A full report on the physical climate risk was produced along with a detailed accompanying database that highlighted the following information:

- Flooding and sea level rise information
- Probability of failure from extreme temperatures
- Forest fires
- Winds associated with storm-related events
- Subsidence related to dry years
- Heat-related work hours lost

About XDI

The team behind XDI (The Cross Dependency Initiative) was established in 2006, making the group the world's longest standing independent specialist in physical climate risk and adaptation analytics. Together with business and industry leaders, XDI provides decision-ready insights integrated into end-to-end solutions to ensure that physical assets are reliable and operable throughout their life cycles in a changing climate. XDI also works with large national banks and companies in the UK, China, Europe and North America and is a leader in providing data for climate stress tests by financial regulators.

