



# Natural Hazard Risk Management

## Site Surveys

ABS Consulting's natural hazard survey reports allow clients not only to understand their risk, but also to manage it proactively. The scope of the surveys and reports can be tailored to individual client needs. Key components include:

- **Hazard Evaluation** – site specific hazard evaluation considering the all important local effects, such as topography for wind and flooding hazards, and underlying soil conditions for seismic hazard, etc.
- **Vulnerability Assessment** – the vulnerability of buildings, equipment, utilities and support services are evaluated against both safety and business interruption criteria.
- **Hazardous Inventory Review** – the vulnerability of equipment, pipe work and storage tanks containing hazardous chemicals, gases, fuels, etc. is assessed against life safety and environmental criteria.
- **Escalation Evaluation** – the vulnerability of emergency response plans, fire fighting equipment, etc. is evaluated to understand escalations, such as fire following earthquake.
- **Supply Chain Assessment** – a high level review of supplier/customer locations and modes of transport can identify third-party natural hazard risks.
- **Loss Estimation** – based on the estimated vulnerabilities in terms of potential downtime and asset damage, a business impact assessment is conducted to evaluate financial impact to support the cost benefit analysis element of the risk management strategy formulation.
- **Mitigation Options** – practical recommendations are made to mitigate identified risks. These are grouped into safety and business protection. We include pre-event mitigation and post event recovery actions, so that a cost-effective strategy can be developed.
- **Benchmark Scoring** – client specific scoring schemes can be developed to: benchmark assets, rank portfolios, prioritise mitigation actions and to measure improvement.

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