



Shin Izumo



**PROJECT PROFILE:
RENEWABLE ENERGY**



Seismic Assessment of Japanese Wind Farms Offers Perspective to Insurers

Risk Management

Situation

Eurus Energy's Soya misaki Wind Farm, located on the northernmost part of the Japan Archipelago, was constructed in 2005 with 57 Mitsubishi MWT-1000A turbines.

Approach

ABS Consulting conducted a seismic risk study in 2006, which included a detailed site survey and probabilistic analyses using the EOECAT JapanQuake™ earthquake model. The site survey included condition assessments of turbines, substations, control buildings, wire routes and transportation infrastructure into the facility. ABS Consulting also reviewed geotechnical reports, design calculations and construction drawings for foundation stability and seismic force-resisting systems.

Result

The study included Probable Maximum Loss, Expected Annual Loss and Business Interruption estimates. ABS Consulting has performed similar risk assessments at the Shin Izumo and Aridagawa Wind Farms, as well as other locations throughout Japan.

Benefits

ABS Consulting's state-of-the-art catastrophe risk modeling enabled Eurus Energy to quantify seismic risk at its Soya misaki Wind Farm. The risk assessment provided data that helped the client assess and mitigate its earthquake property risk, while minimizing business interruption.