YOUR PROJECT, OUR PASSION

CASE STUDY

CLIENT General Electric
PROJECT Watabak Wind Farm
Khao Kho Wind Farm
SCOPE Pitch Bearing Exchange
Project Management
Heavy Lift

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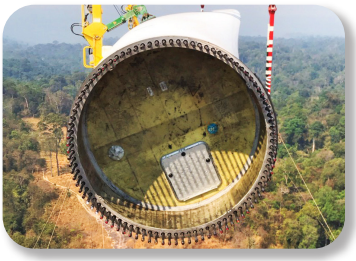

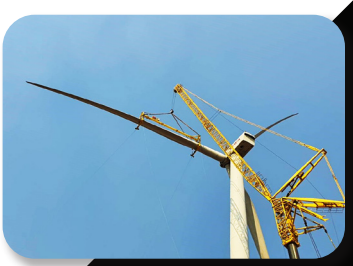

The FPT Global Renewables Division was employed by General Electric Thailand to carry out pitch bearing exchanges at the Watabak and Khao Kho wind farms. A total of 33 bearings were changed across 11 wind turbines. The project management team was also involved in supporting the execution plan and helping coordinate the necessary resources.

Prior to mobilisation, FPT Global in conjunction with the client carried out site surveys and plate bearing tests to establish a safe working environment and identify any potential risks during operations. Once the work area evaluation was completed, a Risk Mitigation Plan was created per FPT Global's HSE policy. Hazardous risks were eliminated or control measures were put in place where required. Communication of the risk assessment was initially done as part of the project pre-start meeting and then daily during toolbox talks to all site personnel involved. Finally, an audit was conducted on all tooling and lifting gear to ensure regulatory compliance.

After the cranes were assembled, mandatory load tests were completed and witnessed by a qualified engineer. The blade lifting device, torque tools and turning gear required to change the pitch bearings were staged and tested per manufacturer requirements. The sequence of the work consisted of removing the blade at the 3 o'clock position and then turning the unbalanced hub to 12 o'clock to exchange the pitch bearing. After the new bearings were installed, the hub was returned to the 3 o'clock position for the re-installation of the blade. All torque requirements were followed per General Electric specifications and checks of equipment using a calibrated bench were carried out daily.

After each successful replacement, all equipment was returned to the ground, cranes were demobilised and auxiliary machinery removed from the site. Optimal planning and preparation by FPT Global management along with the flawless execution by the site teams led by Captain Soraphong resulted in the project being completed on-time reducing the clients' exposure to availability liquidated damages.

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