

How Romax is helping South Korea become a World Player in the Wind Turbine Industry

Hyosung is South Korea's No.1 producer of electricity systems and with the assistance of Romax Technology; the company has ambitions to become a world player in the wind turbine industry – through designing and manufacturing its own units.

At present, there is quite a weak provision in Asia for the development and manufacture of heavy industry plant – especially in the field of wind energy, with just one Japanese company leading the field with any significance.

Now all of this is about to change, as Hyosung, a company that has manufactured wind turbine equipment for several years, makes great strides forward with the development of its own wind turbine units, technically assisted by Romax Technology. This is a move that will not only firmly establish Hyosung in this global market, but also significantly increase Asia's contribution to leading edge wind energy technology development and manufacture.

Romax Technology's role in this major development project began two years after the company secured its ongoing partnership with Hyosung's Power and Industrial Systems Performance Group following a successful pitch. The transmission and driveline software and consultancy specialist came onboard to help Hyosung to design gearbox systems for the new range of wind turbines.

Romax has since played a major role - it has assisted in the collation of commercial and engineering market research, helped to devise the concept designs of various different models and helped to select the best design to take forward and actually assisted in the realisation of this final design. Throughout this entire process, Romax has provided continuous testing support and also helped Hyosung achieve its GL certificate – certification essential for wind turbine plant, to prove that it is fit for purpose.

Romax's world leading transmission and driveline software, RomaxDesigner has also been utilised to great effect throughout the project, allowing continuous virtual product testing and development without the need for physical build testing - with the company also providing bespoke consultancy whenever it has been required.

All of this has helped Hyosung to accelerate the process of simply manufacturing wind turbines from existing plans - to developing its own, more advanced designs from scratch.

“Speed is essential to the success of this venture, and Romax Technology has not only provided us with the technology transfer and engineer training to empower our engineers with the expert edge in design and development, but it has also given us the software tools to allow these design solutions to evolve much faster,” explains Hyosung Vice President, Mr. S. K. Lee.