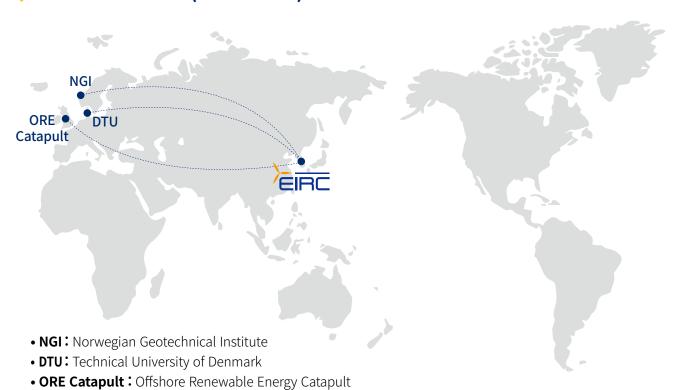
SPEC Engineering Y&P Co., Ltd Seil Engineering Co., Ltd Tae Sung S&E Co., Ltd CGO Co., Ltd Gunsan Si Advact Co., Ltd Samsung Heavy Industries Co., Ltd (Yulchon Plant) Seongnam 1 Korea MSC Software Co., Ltd Kunsan National University Jeollabuk-do Gunsan-si Advact Co., Ltd (Geoje Plant)

Win&P Co., Ltd (Sacheon Plant)

| Global Network (as of 2022)

Windetect Co., Ltd







for Wind Turbine Support Structures



Energy Innovation Research Center for Wind Turbine Support Structures

About Energy Innovation Research Center for **Wind Turbine Support Structures**

Energy Innovation Research Center for Wind Turbine Support Structures was established on the financial support of the Korea Institute of Energy Technology Evaluation and Planning (KETEP) grant funded by the Korea government (Ministry of Trade, Industry & Energy). This center has been operated successfully by the outstanding Korean research engineers in the field of wind turbine support structures (e.g., towers, fixed and floating substructures, foundations, anchors). Based on excellent domestic R&D infrastructures and global networks, this center is striving to strengthen its position in the global wind energy industry.

Business Overview Step 3 Step 2 (2025-2027) (2022-2024) Planning for EIRC Establishing EIRC Stabilizing EIRC

Building operating

systems for Education

and R&D programs

Maximizing Education and

R&D outputs

 Achieving financial independence

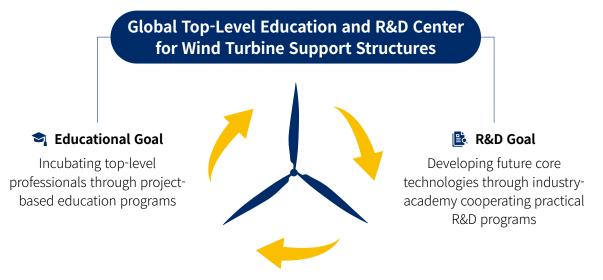
| Center Organization

Developing Education

and R&D programs



Vision / Goal



What We Do



Doing Research & Development

- Localizing advanced technologies in the field of wind turbine support structures
- Securing future technology

Training Human Resources

- Providing global-leading education programs
- Training students and professionals, based on practical research projects

Providing Total Solutions

- Establishing technical support systems for projects
- Accelerating wind energy businesses through timely supply of top-level professionals

Effectiveness

Scientific and technological effects

Improving level of national technology through enhancement of technological competitiveness in the field of wind turbine support structures

Social effects

Securing sustainability of energy innovation by enhancement of R&D capabilities in the field of wind turbine support structures

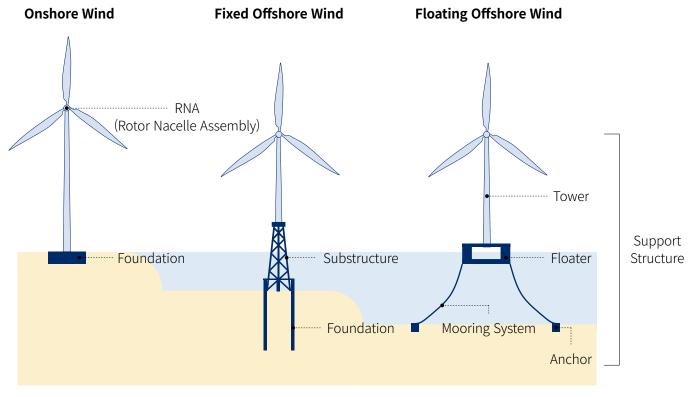
Industrial and economic effects

Eradicating unnecessary foreign currency waste due to technology independence and domestic supply-chain competitiveness

Environmental effects

Contributing to national carbon neutral policy by LCOE reduction and supply expansion of the wind energy generation systems

Education and R&D Programs



Education Programs	Curriculum	Major courses / Selective courses Field training / Field tours / Lectures from industry experts / Education for industry professionals	
	Industry-Academy Cooperation Program		
R&D Programs	Wind Towers for Onshore(Offshore) Wind	Development of advanced wind tower systems and their applications	SPEC
		Improvement of steel fabrication technologies for tubular wind towers	Win&P
	Support Structures for Fixed Offshore Wind	Development of antifouling systems for marine structures	WINDETECT MAXIMIZING YOUR ENERGY
		Development of advanced substructure systems for the fixed offshore wind	(주)세일종합기술공사 SELL ENGINEERING COUNT
		Development of a simplified analysis method for the design of support structures for the fixed offshore wind	†SNE
		Development of design, fabrication, and construction technologies for monopile substructures	ENGINEERING & STEEL INDUSTRIES
		Study on lateral behavior of large diameter piles for the fixed offshore wind applications	@dvact
	Support Structures for Floating Offshore Wind	Development of smart monitoring systems for the floating offshore wind	HEXAGON MSC Software is Hexagon
		Development of support structures for floating offshore wind energy generation systems; analysis and design	SAMSUNG HEAVY INDUST
		Development of marine transportation and mooring techniques for floating offshore wind energy generation systems	CGO CHALLENGE GLOBALZATION OPPORTUNITY