

Main Business Areas

Green Energy

Hanwha is ramping up its response to the challenges of climate change as green energy becomes a global necessity. As a comprehensive green energy solutions provider, we are pioneering future markets by combining our energy production and transportation know-how with our expertise in energy sources and materials. Hanwha is at the forefront of building a green energy value chain that encompasses solar, hydrogen, and wind energy as well as green marine solutions. Our solar power business is expanding from module production to a fully integrated supply chain, in addition to offering high-value-added services using information technology. We are accelerating our development of onshore and offshore wind power generation and creating sustainable transformation in the ocean and marine energy ecosystem. From land-based energy solutions to low- and zero-carbon marine technologies, we are tapping into green energy’s outstanding potential and strengthening our competitiveness as a green energy solutions provider to lead the way to net zero.

Business Scope



- ✓ World-class solar module production capacity of 12.4 gigawatts (GW) per year
- ✓ Maintains No. 1 market share in the US residential and commercial solar markets
- ✓ Awarded its first EuPD Research Top Brand PV seal in the U.S., adding to nine consecutive years in Europe and seven consecutive years in Australia
- ✓ Awarded Top Performer recognition six years in a row by PVEL
- ✓ Build next-generation eco-friendly special tankers, featuring high-efficiency engines and latest fuel-saving technology
- ✓ Build ultra-large wind turbine installation vessels (WTIV), develop smart ship systems
- ✓ 102.5MW of Qcells solar modules have been installed and commissioned in Facebook data centers as Facebook’s first solar project in the state of Georgia, United States
- ✓ Operates the world’s first 50-megawatt (MW) by-product hydrogen-fuel-cell power plant, powered solely by hydrogen extracted as a byproduct of chemical refining
- ✓ First in South Korea to secure mixed hydrogen combustion technology, reducing carbon and nitrogen oxide emissions

Major Affiliates

- Hanwha Solutions
- Hanwha Ocean
- Hanwha Energy
- Hanwha Impact
- Hanwha Power Systems
- Hanwha Corporation

Major Products & Services

- Solar cell and module manufacturing equipment
- PV cells and modules
- Energy storage systems
- Downstream energy solutions
- Distributed energy solutions
- Overseas project development (PV, ESS)
- O&M
- Energy system solutions
- Energy retail
- Commercial ships, offshore plants, specialty ships
- Industrial air and gas compressor
- Eco-friendly power generation and hydrogen solutions