ENERGY

OUR PART OF THE BIGGER PICTURE
Our legacy companies will operate as DNV GL under a united brand. However, we will continue to issue KEMA certificates from our laboratories and certain report types under the Garrad Hassan name to maintain industry recognition for these trusted documents.

The energy transition to a safer, smarter and greener world has begun. We look forward to working with you in shaping it further.

David Walker
Chief Executive Officer
DNV GL – Energy

Inspired by the future of energy, our logo captures this expansive perspective in the colours of the sea, land and sky.
DNV GL brings together knowledge that extends across the value chain: from policy and regulation to generation (conventional and renewable), through transmission and distribution, and energy efficiency.

This breadth of knowledge enables us to support you in understanding the technical consequences of business decisions and the business consequences of technical decisions.

- Independent, accredited certification of equipment for the transmission & distribution of electricity; product and project certification for the renewables industry.
- Advisory services spanning the entire energy value chain, with a strong focus on energy efficiency, renewable integration, clean conventional generation, power grids, energy storage, measurement and cyber security.
- World-leading expertise in the development and qualification of wave and tidal energy conversion devices.

Empowering you to stay ahead
Addressing the future means innovating today. We invest in proprietary research in areas such as future grids, renewables, energy storage and smart cities. And we are involved in partnerships, standardisation committees and joint industry projects worldwide that benefit our clients and the industry at large.

Many of these projects target new technologies such as offshore High Voltage Direct Current (HVDC), floating wind turbines or critical challenges such as cyber security for smart grids. Others assess the impact of new technologies and business models - from smart grids to consumer-driven demand management – on communities, industry and society as a whole.

Investment in innovation is vital too. Our high power and high voltage laboratories already offer the world’s largest testing capacity. And by 2015 we will be the first to provide independent testing of components for ultra-high power super grids of 800 kV and above.
CUTTING THROUGH COMPLEXITY

A complex energy landscape raises complex questions. How do you bring innovative new energy technology to market whilst keeping financing costs low? To what extent can technical risks be removed from an energy investment decision? How can businesses make sense of emerging opportunities and manage risk within a constantly changing regulatory environment?

Based on a holistic approach, we can work with you to help answer your unique questions. Our experts are regularly involved in projects in all major and emerging global markets for renewable energy. And we support all kinds of businesses from developers, investors, manufacturers, large-scale utilities and independent project developers, to non-profit and government organisations.

In a changing world, we explore emerging issues from energy resiliency to climate change adaptation. We are also investing in the integration of renewables and grid technologies so that energy systems are fit for the future.

EXTENSIVE EXPERTISE, FAR-REACHING SUPPORT

- Analysis, advice, testing, data collection and trusted expert opinions for the renewables markets: project development & engineering, asset operations & management, measurements, solar, offshore
- Strategic advice, planning, implementation and energy delivery optimization: market and policy development, power system planning, project management and technical services, operational excellence and systems expertise, energy efficiency programmes and measures

For example, our innovative approach to the design of offshore wind projects is bringing down the cost of energy for this important technology. It is only by taking a broader view that we, as an industry, can secure the right mix of clean conventional energy and renewables at the heart of the energy systems.

For us, creating a safer and more sustainable world is more than just words: it is what we do with our customers every day.
Testing for a Changing Energy Landscape

Over the decades, KEMA has set the benchmark for independent testing of grid equipment, while both DNV and GL competed to lead in wind certification. As DNV GL, we continue to offer world-class testing, inspection and certification for electricity transmission and distribution and renewables equipment.

Certification to international and national standards, as well as to DNV and GL’s own standards and guidelines, helps component makers enter new markets. It provides proof of safety and reliability for manufacturers, investors, utilities, insurers and public authorities. Most importantly, it helps ensure the quality of electricity supply - whether upgrading ageing infrastructure or building new.

Simplified and improved standards and guidelines
We have developed over 25 standards and guidelines in renewable energy alone, covering certification of wind turbines, wind farms and wave and tidal energy devices. However, to continue to maintain quality of supply and avoid blackouts, new standards and guidelines are constantly needed to move the industry forward safely and reliably.

Now, through the merger of DNV KEMA with GL Renewables Certification, we can go further in raising the bar on innovation in this vital field.

Testing, Inspection & Certification
- World-class high power high voltage testing, inspection and certification for transmission and distribution components, internationally recognised KEMA certificates
- Over 30 years’ experience in renewables certification
- Component/type certification and project verification
- Tests based on national and international standards (IEC, IEEE)
- Ultra-high power equipment testing for HVDC super grids
- Battery and energy storage testing
- Calibration, metering, on-site inspection services
Driven by our purpose of safeguarding life, property and the environment, DNV GL enables organisations to advance the safety and sustainability of their business. We provide classification and technical assurance along with software and independent expert advisory services to the maritime, oil & gas and energy industries. We also provide certification services to customers across a wide range of industries.

Combining leading technical and operational expertise, risk methodology and in-depth industry knowledge, we empower our customers' decisions and actions with trust and confidence. As a company, we continuously invest in research and collaborative innovation to provide customers and society with operational and technological foresight. With our origins stretching back to 1864, our reach today is global. Operating in more than 100 countries, our 16,000 professionals are dedicated to helping customers make the world safer, smarter and greener.

In the Energy industry
DNV GL delivers world-renowned testing and advisory services to the energy value chain including renewables and energy efficiency. Our expertise spans onshore and offshore wind power, solar, conventional generation, transmission and distribution, smart grids, and sustainable energy use, as well as energy markets and regulations. Our 2,500 energy experts support clients around the globe in delivering a safe, reliable, efficient, and sustainable energy supply.