

ENERGY

From KEMA to DNV GL – Energy

An energy powerhouse

Bas Mulder

June 24, 2014

**We are a global classification, certification, technical assurance
and advisory company**

OUR PURPOSE

**TO SAFEGUARD
LIFE, PROPERTY
AND THE ENVIRONMENT**

In a challenging world we make businesses better prepared



Only by connecting the details can we impact the bigger picture

- 
- We classify, certify, verify and test against regulatory requirements, rules, standards and recommended practices
 - We develop new standards and recommended practices
 - We qualify new technologies and operational concepts
 - We give expert advice to enhance sustainable business performance

We call it the broader view



- Reducing uncertainty, increasing safety
- Improving efficiency
- Enabling sustainability
- Building trust

SAFER, SMARTER, GREENER

Industry consolidation

DNV·GL



Global reach – local competence



150

years

400

offices

100

countries

16,000

employees

Organized to maximise customer value

MARITIME



OIL & GAS



ENERGY



**BUSINESS
ASSURANCE**



SOFTWARE



CYBERNETICS

RESEARCH & INNOVATION



ENERGY



Transition to a safer, smarter and greener energy future



Increasing global demand for energy

Integration of energy markets

Climate change and extreme weather

Growing share of renewables

Security and ageing assets

Assisting companies in solving the energy trilemma



Global service portfolio



Policy



Production



Transmission & distribution



Use

- Power testing, inspections and certification
- Renewables advisory services
- Renewables certification
- Electricity transmission and distribution
- Smart grids and smart cities
- Energy market and policy design
- Energy management and operations services
- Energy efficiency services
- Software

An energy technology powerhouse

Largest

independent technical advisor on renewable energy and 2,500 energy experts

>25

standards and guidelines published as a leading certification body

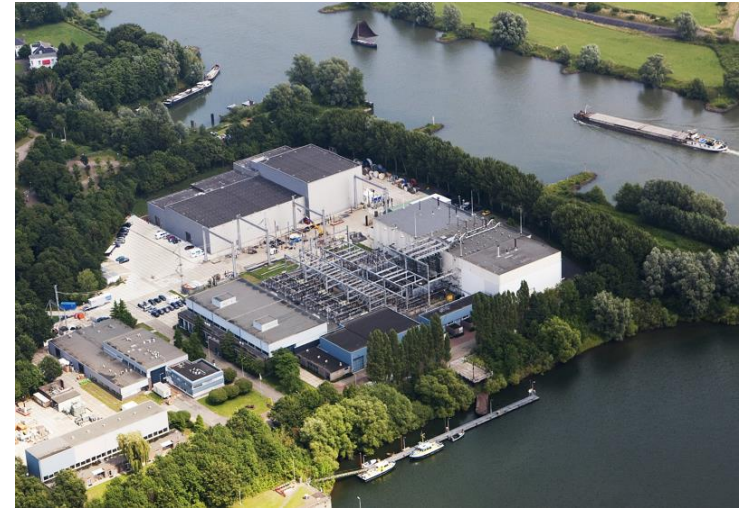
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in high power and high voltage testing with 10 laboratories incl. our leading lab in Arnhem

90

years experience in the power industry, including 30 years in energy efficiency and wind energy

More than 10 world renowned laboratories



Global market leader

Smart Grid testing & certification

Tests

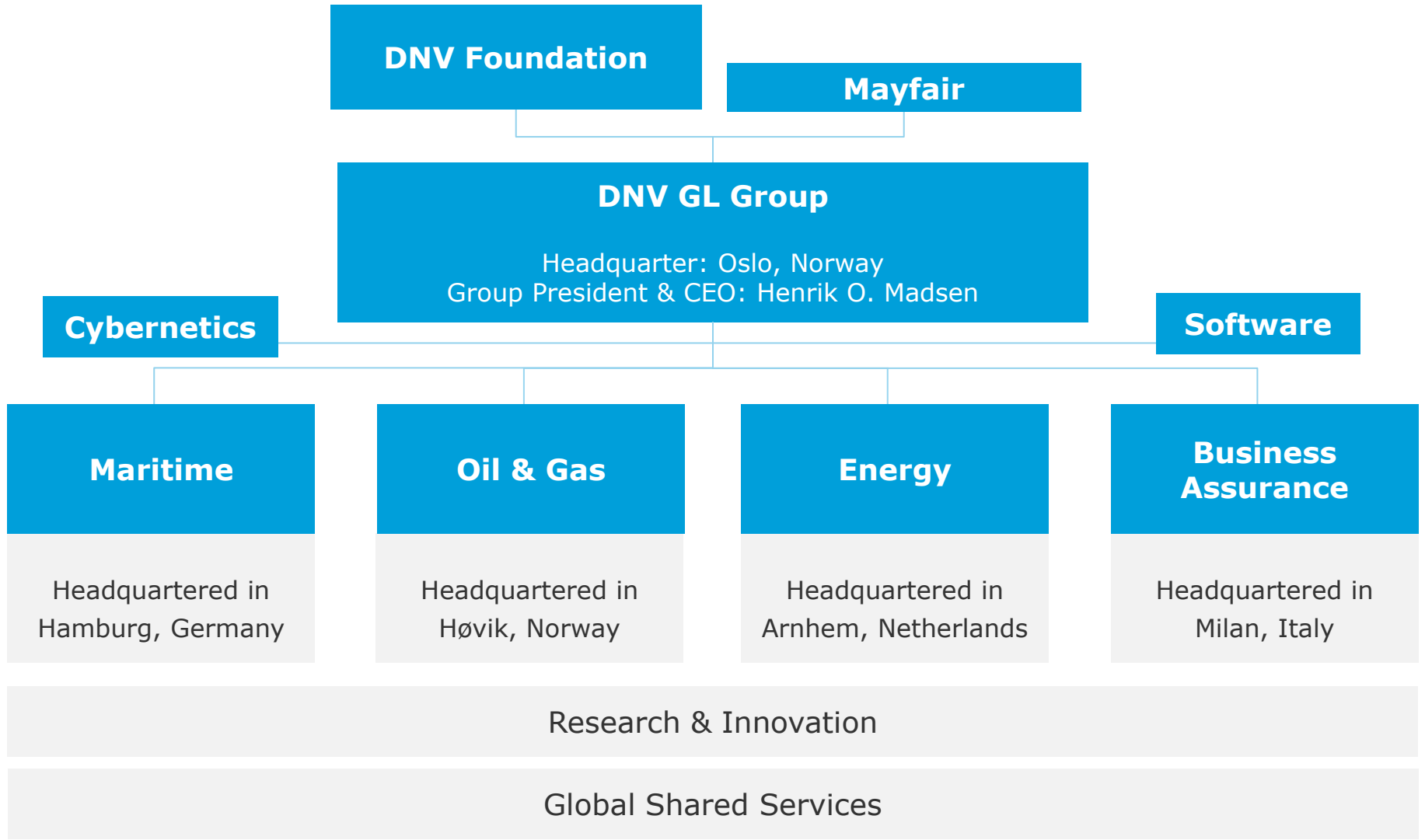
- Certification tests
- Acceptance tests
- Type tests
- Power electronics tests
- Calibration of systems
- Diagnostics

Testing methods

- Laboratory testing
- Onsite testing
- Witness testing
- Remote testing

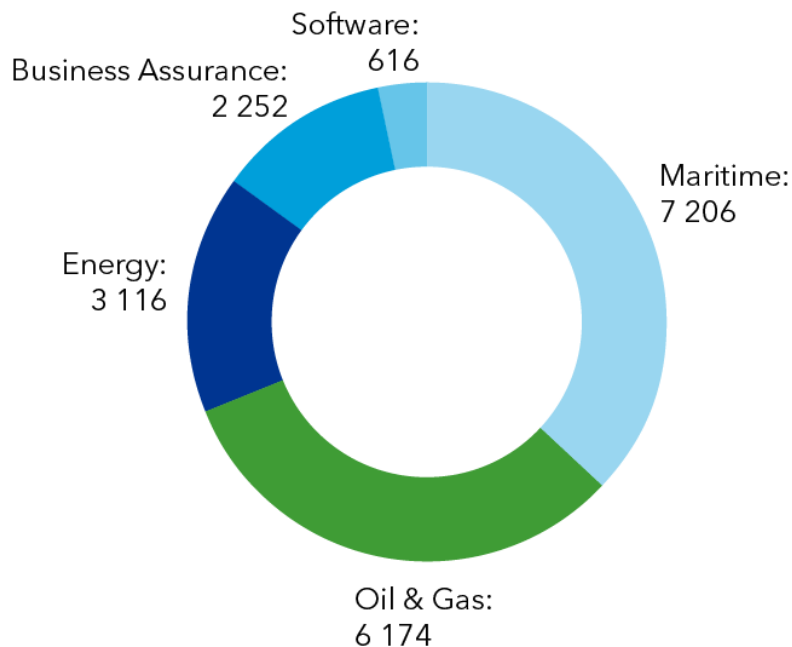
Short facts about us

Industry focused organization

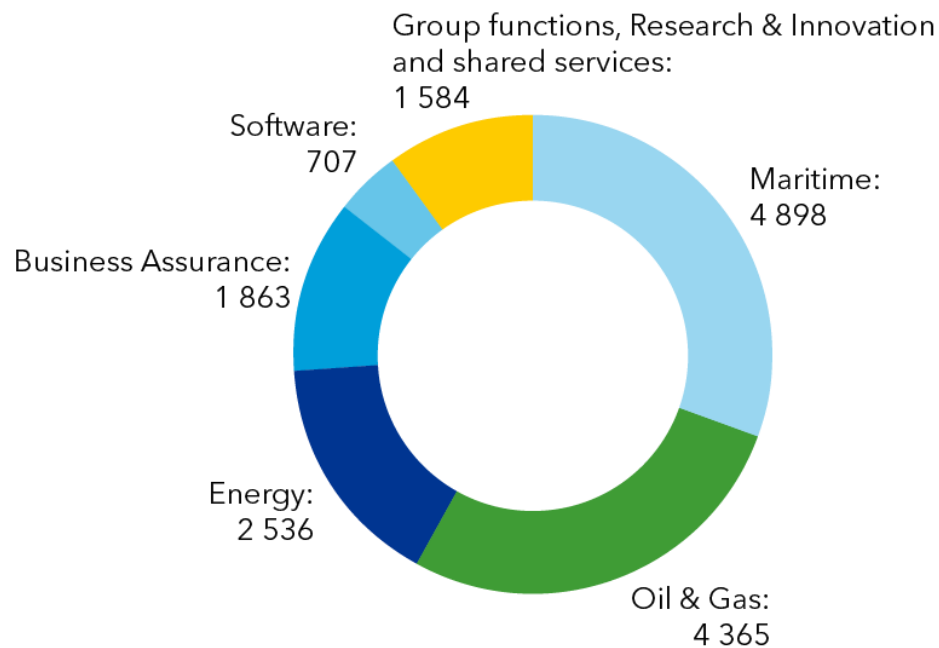


Revenue and people by business area/unit (as of 1.1.2014)

**Revenue:
20 000 Mill NOK**



**Employees:
16 000**



**Pro forma figures by 1.1.2014*

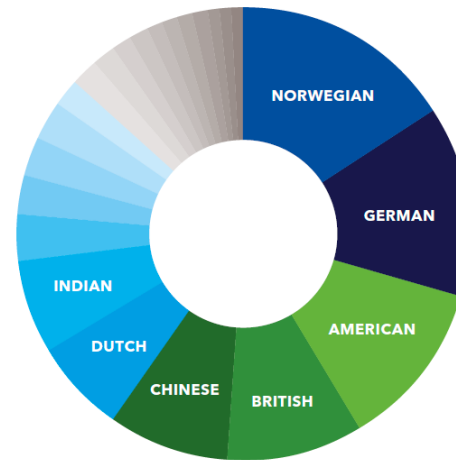
Highly skilled people all around the world

Level of education



Master	42%
Bachelor	37%
Other	10%
Doctorate	6%
2-year college	3%
Technical / professional	2%
Sum: Bachelor, Master or PhD level degree	85%

Nationalities



→ EMPLOYEES BY NATIONALITY AS PER 31.12.2013

Norwegian	2,160	Danish	261
German	1,861	Singaporean	237
American	1,602	Spanish	205
British	1,336	Swedish	205
Chinese	1,143	French	173
Dutch	906	Egyptian	160
Indian	895	Canadian	153
Korean	468	Japanese	139
Italian	383	Greek	132
Brazilian	376	Russian	118
Polish	353	Mexican	113
Malaysian	265	Australian	103

Nationalities >100 shown in table
Nationalities >800 shown in pie chart

Bas Mulder

- Consultant for Substation Automation and IEC 61850
- (DNV) KEMA
 - Since 2005 working for (DNV) KEMA
 - Telecommunication and IT expert
- DNV GL
 - March 2014 – Move to DNV GL Madrid office
 - Focus on IEC 61850 for Iberia and Latin America
 - Expanding portfolio on utility telecommunication
- Continue to be
 - Member of TC57 WG10 and the UCAiug
 - Available for questions !



Thank you for your attention !

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