



Oil Gas Petrochemicals Chemistry Technology

VDMA overview

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Int. Markets Oil Gas Petrochemicals, VDMA Forum Process Technology

Our offices in Germany.

- » founded 1893
- » largest Machinery & Mechanical Engineering Association in the world
- » 700 Experts
- » now: European Association



Head office Frankfurt



● VDMA-Locations

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Druck: 01.09.2014

Our Representations.

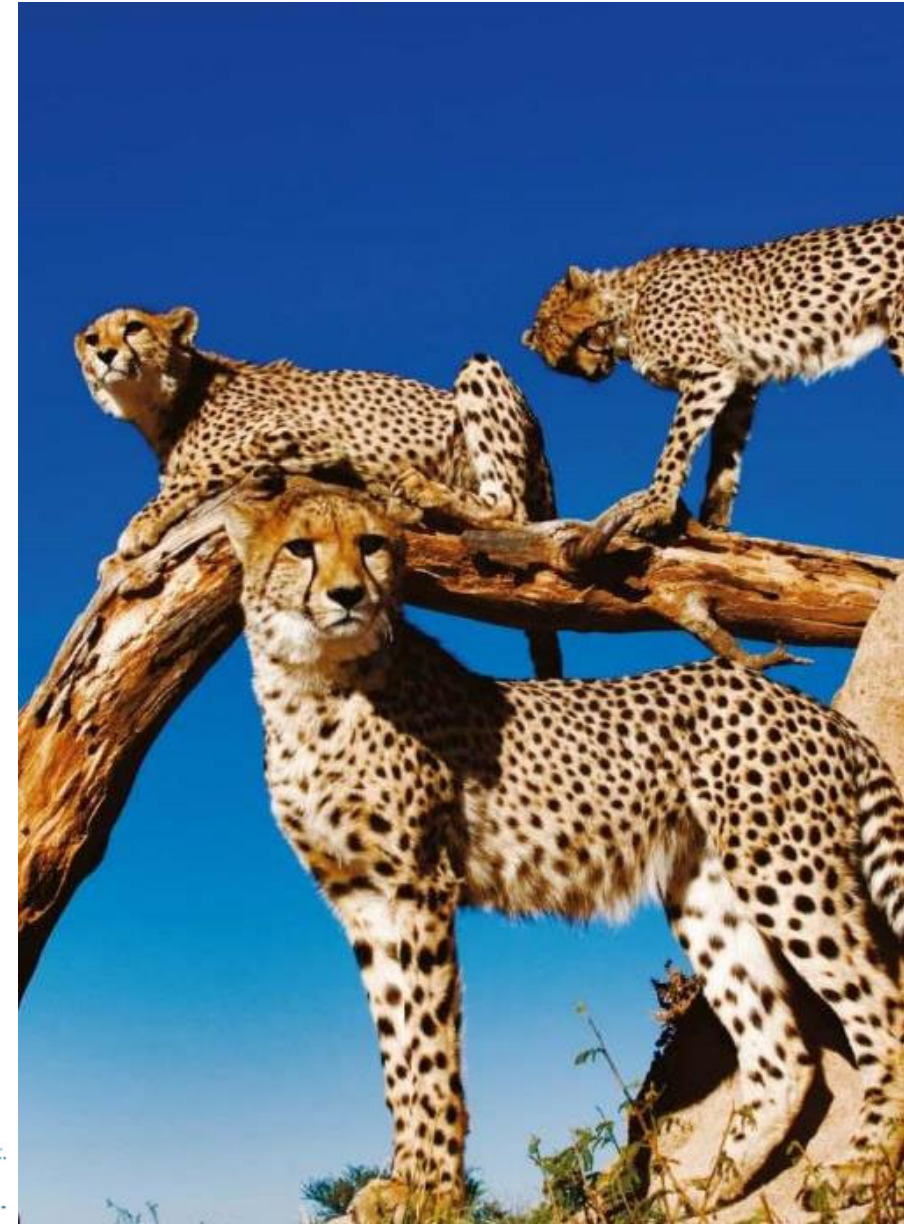


Mechanical engineering industry

Facts and Figures

Employees:	1,064 Mio. (2019)
» Engineers:	199.800 (2019)
» Engineer quota:	17,1 % (2019)
» Training ratio:	rd. 6,1 % (2018)
Companies:	~ 6.653 (2018)
» Ø Number of employees:	183 (2018)
» Companies <250 staff:	86 % (2018)
Members:	> 3.300
» Representative Turnover:	ca. 90% German Mechanical Engineering turnover
Turnover:	228,7 bn. € (2019)
Ø Revenues per Employee:	~ 215 Tsd. € (2019)
Export quota:	~ 80% (2019)

Source: VDMA, 2020
Data as of 31.12.2019
Export quota: 80% (2019)
Turnover: 228,7 bn. € (2019)
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VDMA Oil Gas Petrochemicals

Oil & Gas covered by various VDMA Sector Associations

- » Agricultural Machinery
- » **Air-handling Technology**
- » Building Control and Management
- » Cleaning Systems
- » **Compressors, Compressed Air and Vacuum Technology**
- » Construction Equipment and Building Material Machinery
- » **Electric Automation**
- » Electronics, Micro and Nano Technologies
- » **Engines and Systems**
- » Fire Fighting Equipment
- » Fluid Power
- » Food Processing and Packaging Machinery
- » **Large Industrial Plant Manufacturing**
- » Lifts and Escalators
- » Machine Tools and Manufacturing Systems
- » Materials Handling and Intralogistics
- » Measuring and Testing Technology
- » Metallurgy
- » Mining
- » Municipal Equipment
- » Plastics and Rubber Machinery
- » **Power Systems**
- » Power Transmission Engineering
- » Precision Tools
- » Printing and Paper Technology
- » **Process Plant and Equipment**
- » **Pumps + Systems**
- » Robotics + Automation
- » Security Systems
- » **Software and Digitalization**
- » Textile Care, Fabric and Leather Technologies
- » Textile Machinery
- » **Valves**
- » Waste Treatment and Recycling Technology
- » Welding and Pressure Gas Equipment
- » Woodworking Machines

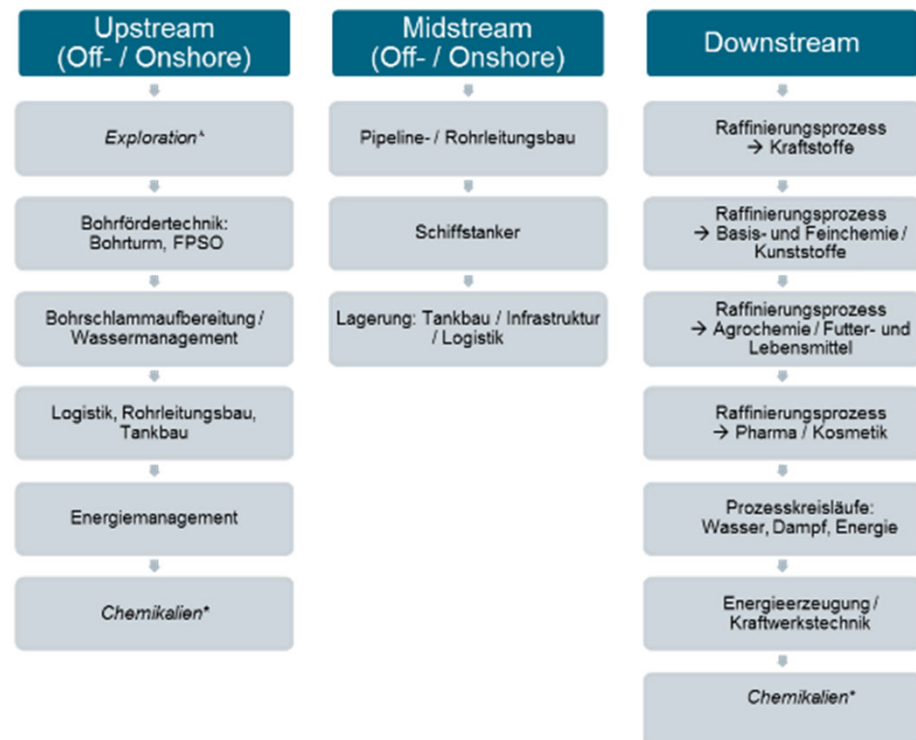


VDMA Oil Gas Petrochemicals

Who we are, what we do?



+ 140 members / solution providers (2020)

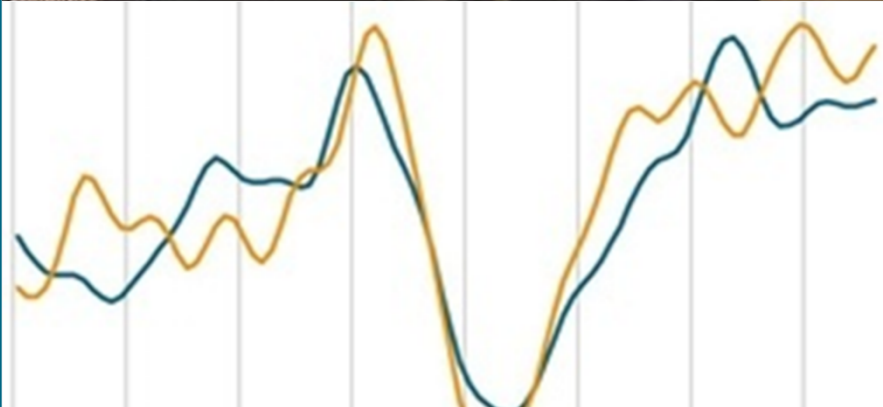


VDMA Oil Gas Petrochemicals

Who we are, what we do?

Technologies & Topics			
drilling technology (Onshore & Offshore)	pipelines / distribution grids	Digitalization / Automation	Downstream process technologies
Deepsea / Subsea	bunkering / tanks / caverns	Power & Energy (central / decentral)	Coal Bed Methane / Sour Gas / Oilsands
Offshore & Ship technology	LNG / Gas (large & small scale)	Standards / HSE	„new fuels“: algae hydrogen, biomass
process water / sludge treatment	Gas to Power	Heat, energy, steam efficiency	Carbon Capture Storage (CCS)

Info-Days / Product Directory / Technology / Statistics / Markets



VDMA Oil Gas Petrochemicals *Services int. markets*

- Twice a year: „Oil Gas Petrochem green Gases Markets“ Experts Meeting by VDMA
- Int. Statistics / Export data for process technology incl. Oil Gas Petrochem Chemistry tech.
- Sector trade fairs calender: updated bi-monthly (incl. leading fairs + German Pavilions „Bundesbeteiligungen“)
- VDMA decides on *all* official German Pavilions „Bundesbeteiligungen“ and organises further German / EU Pavilions
- VDMA Symposia & Delegations in selected industry-Clusters selected top 20 Markets

VDMA Oil Gas Petrochemicals

German + EU/VDMA Pavilions

- CIPPE Beijing (26. – 28.03.2021)
- NEFTEGAZ Moskau (26. – 29.04.2021)
- OTC Houston (3. – 6.05.2021)
- Egyp, Cairo (31.5. – 2.6.2021)
- Caspian Oil & Gas, Baku (1. – 3.06.2021)
- OGA Malaysia, Kuala Lumpur (8.6. – 10.6.2021)
- IOGRPE Teheran (10. – 13.09.2021)
- GASTECH, Singapore (13. – 16.09.2021)
- Rio Oil & Gas (Sept. 2021)
- KIOGE, Almaty (29-9. – 1.10.2021)
- KHIMIA, Moskau (Sept. 2021)
- ADIPEC, Abu Dhabi (8. – 11.11.2021)
- CHEMTECH Mumbai (Febr. 2022)
- ACHEMASIA Shanghai (05.2022)





Verflüssigungs- und Regasifizierungsanlage

→ small scale → mid scale → large scale

LNG bunker / shipping / FPSO-Terminals

LNG Distribution Infrastructure

→ Binnenschifffahrt, dezentrale Stromversorgung

LNG als Kraftstoff

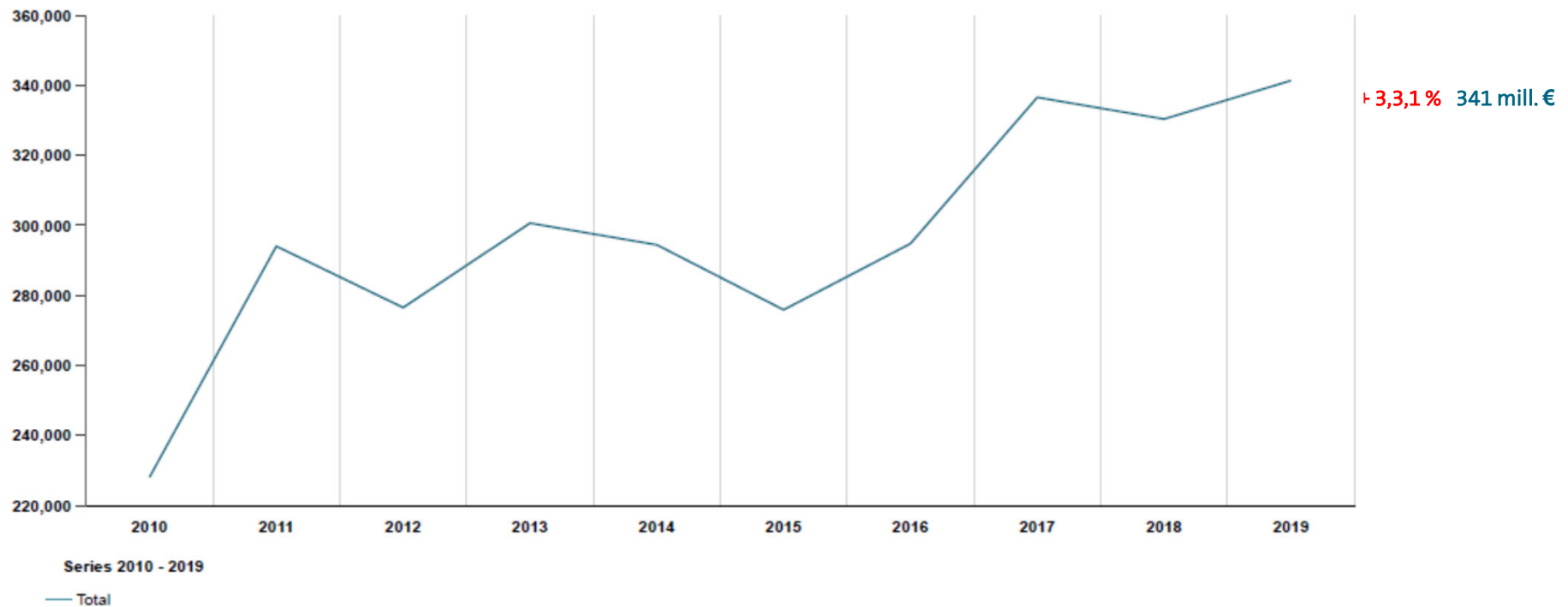
→ Schiffsmotoren (z.B. AIDA, Container-Schiffe, ...)

→ LKWs (China, USA), Züge

Sub-Sahara Afrika: Entwicklung Deutscher Exporte (in 1.000 Euro)

Subsahara Africa: Development of German exports (in 1,000 €)

Germany / Export in 1,000 EUR to Other Africa, West Africa
Compressors, Compressed Air and Vacuum Technology, Industrial valves, Mobile drilling derricks, Other boring ...



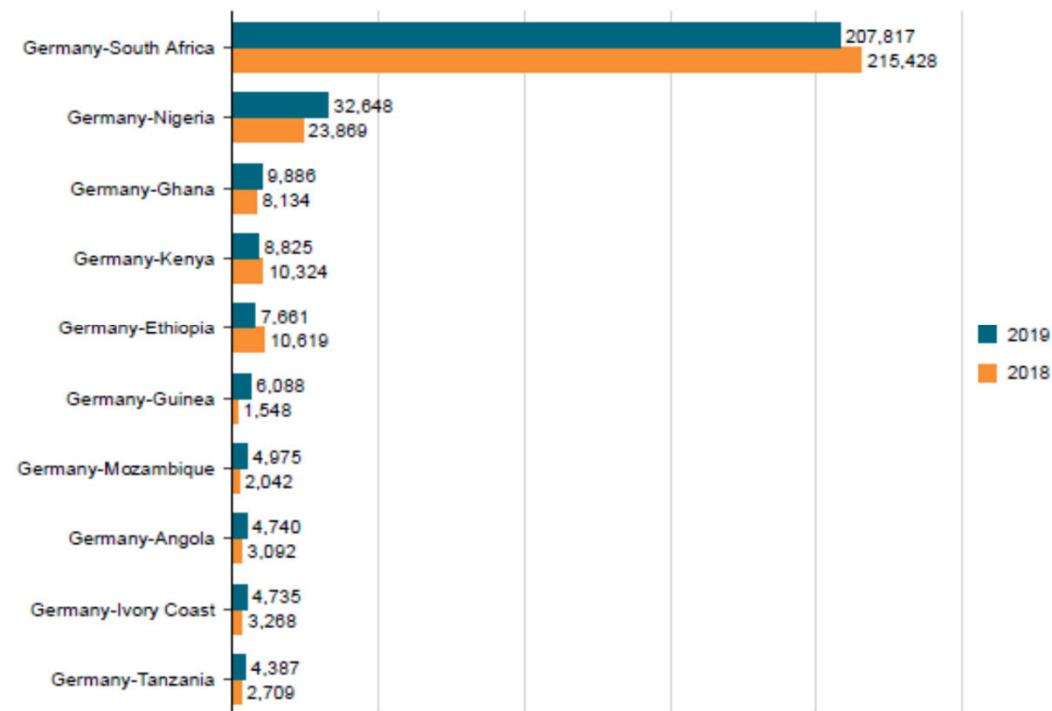
Source: National statistical offices

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Sub-Sahara Afrika: Exportmärkte (in 1.000 Euro)

Subsahara Africa: export markets (in 1,000 €)

The most important flows of trade out of:
Germany / Export in 1,000 EUR to Other Africa, West Africa
Compressors, Compressed Air and Vacuum Technology, Industrial valves, Mobile drilling derricks, Other boring ...



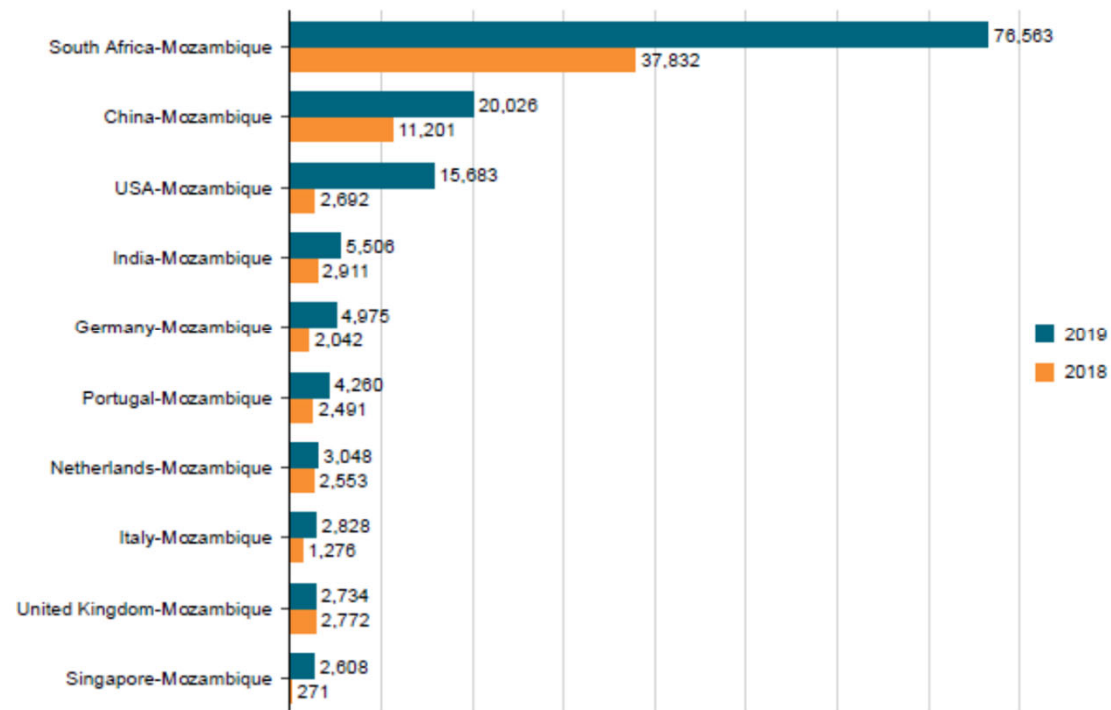
Source: National statistical offices

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Mosambik: Prozesstechnik Importe (in 1.000 Euro)

Mosambique: process technology imports (in 1,000 €)

The most important flows of trade out of:
All reporting countries / Export in 1,000 EUR to Mozambique
Compressors, Compressed Air and Vacuum Technology, Industrial valves, Mobile drilling derricks, Other boring ...



Source: National statistical offices

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Your contact



VDMA Technology Guide
*Reaching Decarbonization by combining
fossil and renewable systems*

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