



# Energy Services

Your one-stop-shop solutions provider

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# We are Uniper

**We are a leading international energy company with operations in more than 40 countries and 13,000 employees. We combine a balanced portfolio of modern assets with comprehensive technical and commercial expertise. Our assets and capabilities enable us to deliver bespoke, competitively priced energy products and services with agility, precision, and speed.**

## Ensuring a reliable energy supply

We operate about 38 GW of reliable power-generating capacity in Europe and Russia. Our generation portfolio consists mainly of hydro, gas, and coal power plants. This asset base and fuel mix makes Uniper a large producer of reliable, dispatchable power with a high percentage of climate-friendly energy sources like hydro and gas. Many of our power plants also produce heat for district heating systems and process steam and compressed air for nearby industrial enterprises.

Uniper has decades of experience operating large power plants. Our engineers continually advance the flexibility, efficiency and availability of our generation fleet to enhance profitability. These same services we offer to other power plant operators across the world. Uniper's flexible generating capacity plays an important role in ensuring supply security during the transition towards a low-carbon future.

## Meeting rising gas demands

Uniper procures large quantities of natural gas from a variety of producers in countries like Russia, Norway, the Netherlands, and Germany. Our long-term contracts give our portfolio a solid foundation. In addition, we buy gas on a spot basis at Europe's liquid trading venues.

Increasingly, we also import liquefied natural gas (LNG) from around the world. We have near-term and long-term supply contracts with a variety of LNG suppliers and producers in countries like Canada and Qatar. Our regasification capacity at LNG terminals at various locations across Europe completes our portfolio. Our gas business includes about 8.5 billion cubic meters of gas storage capacity, and stakes in gas transmission pipelines. This helps gas systems respond to fluctuations in supply as well as demand and ensures a secure energy supply.

## Connecting global energy markets

Energy and commodity trading is at the heart of the global energy business. It ensures that power and gas make their way from wholesale markets to end customers in different segments. We are operating one of Europe's leading commodity-trading businesses. Our trading activities comprise

the entire energy commodity supply chain in power, emission allowances, natural gas, LNG, coal, and freight. Uniper sources, stores, transports, and supplies physical commodities on a global scale.

Broad expertise in global commodity trading, an array of proven partnerships, and an international presence are our foundation to offer attractive service bundles, such as asset management and operation, fuel supply, and power-plant dispatch.

## Shaping the energy transition

Much renewables capacity has been installed in Europe during the last few years and renewable energy remains on a growth path. This makes the energy supply more volatile and the energy system more complex. We can manage this complexity and ensure the energy system's stability. We make sure homes and businesses always have light and heat. When the output from renewables fluctuates, we step in to make sure the lights stay on.

Uniper believes in the importance of energy storage in energy systems with significant renewables share. We develop energy storage solutions to support renewable energies. We partnered with RWTH Aachen University and three technology providers to build the M5BAT, a five-megawatt, utility-scale storage system. The M5BAT can be used to store surplus renewables output, to provide control energy for grid stability, and to take advantage of arbitrage opportunities on the wholesale market. At our power-to-gas plants WindGas Falkenhagen and WindGas Hamburg we transform surplus energy from renewables into hydrogen, which is then partially fed into the natural gas grid. Besides this, at Falkenhagen we are currently developing a methanation plant. One hundred percent of the methane produced can then be fed into the natural gas grid. This is part of the STORE&GO project which is funded by the European Union's "Horizon 2020" research and innovation programme.

Our existing portfolio is well adapted to markets with large renewable energy capacity. We are further leveraging our capabilities to deliver flexible, scalable solutions. Our customers can choose from full-service arrangements or select tailor-made individual services. As a trusted partner to our customers, we work closely with them to maximize the value of their assets and projects.

## 100 years of experience

We are an experienced international energy company with a new name. Uniper's know-how is based on a heritage of power industry expertise that dates back a hundred years. Our family tree includes some of the leading companies involved in energy generation and gas networks in Europe – businesses known for their reliability and technical excellence.

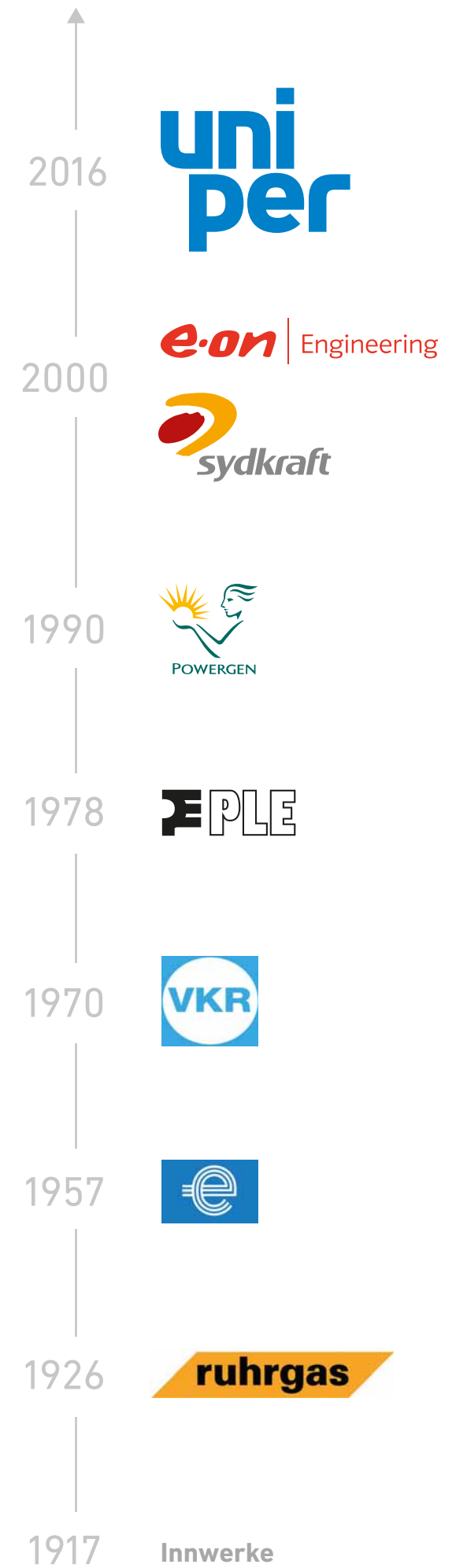
Our skills are based on decades of experience in developing, constructing and operating all types of generation assets, be they conventional, hydro, nuclear or renewables, including energy networks and gas pipelines. We deliver engineering and technical solutions to optimize your commercial and technical performance in whichever market you operate.

We operate, maintain and manage assets on a contract basis. Our energy-trading team supplies power and fuel and also helps to gain value from generation assets on the energy market.

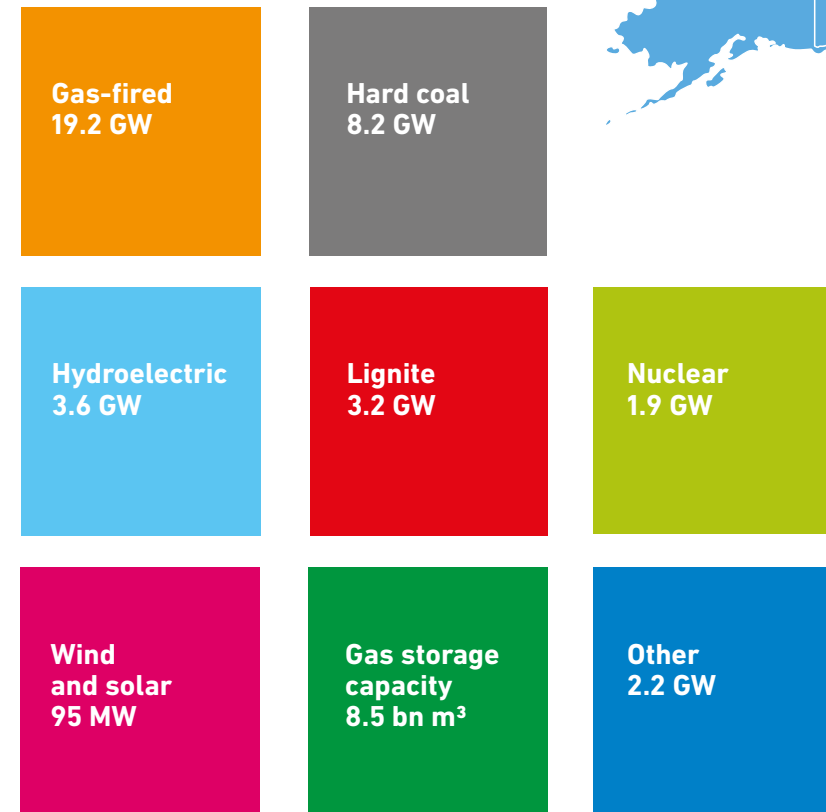
We offer new perspectives on energy. As your partners in energy we have the know-how to work with you to achieve full value from your assets and to deliver solutions for the challenges of the future.

## Global solutions across technologies

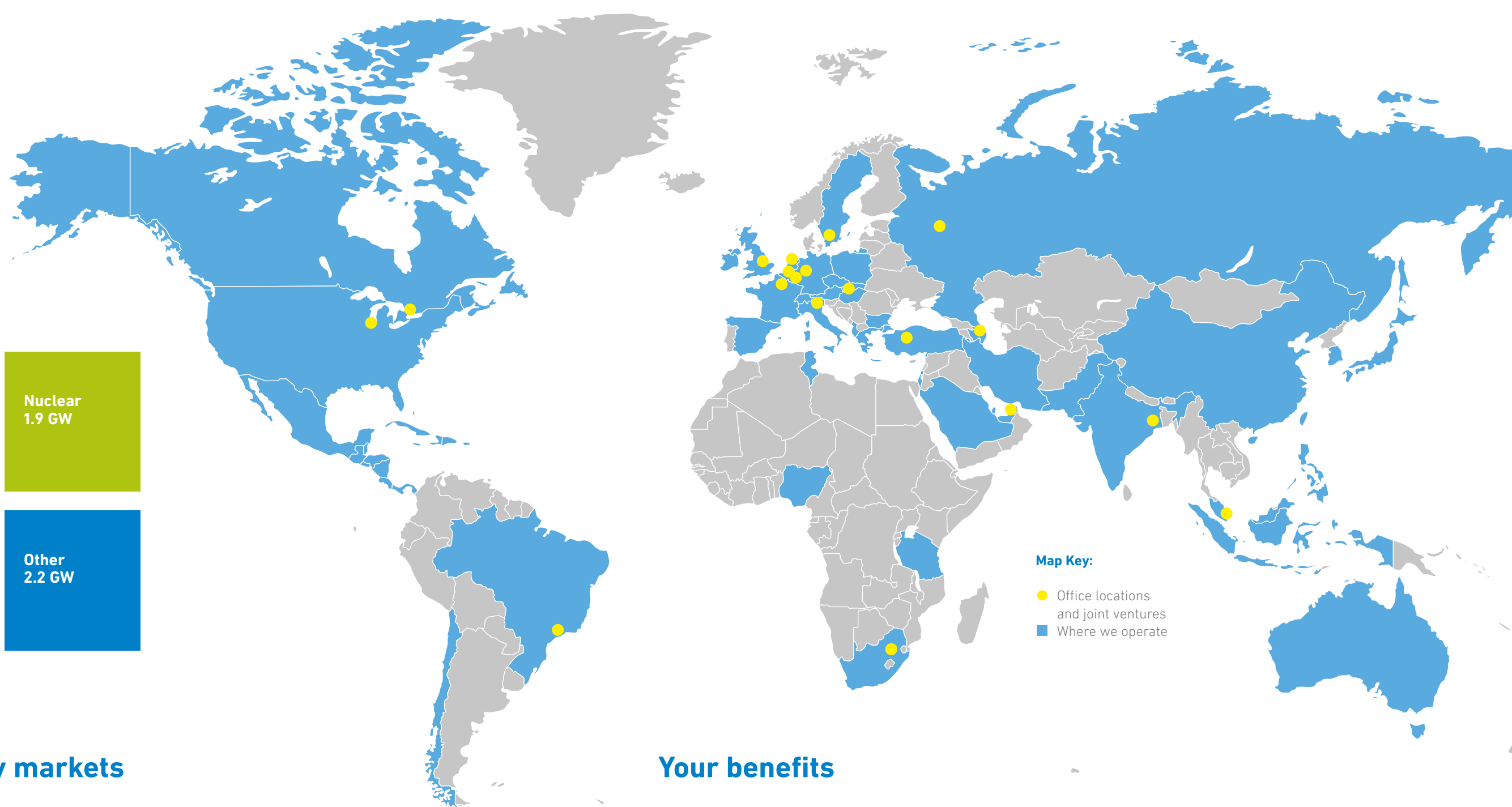
- Gas-fired power generation
- Gas pipelines, storage and LNG
- Renewable energy, wind
- Transmission and distribution
- Coal-fired power generation
- Energy from waste and biomass
- Industrial and manufacturing plants
- Nuclear energy



## Owner's approach, operator understanding and OEM independence



Scope of our power assets in Europe and Russia



### Map Key:

- Office locations and joint ventures
- Where we operate

## Experts in global energy markets

### Owner and operator

Sharing our understanding of owning and operating international power and distribution assets helps you to succeed. Our experience will help you to keep pace with environmental standards and greater competition and respond to changing markets.

As one of Europe's largest energy-trading companies, we have detailed knowledge of international energy and fuel supply markets. Our experience enables us to offer a broad range of trading services.

### Independent solutions

We leverage our experience and independence of original equipment and component suppliers (OEMs) to choose the best solution. Ask for our independent solutions that help you optimize value for money.

## Your benefits

### Reduced OPEX and CAPEX

Optimize your operational costs and capital expenditure by partnering with our world-class asset operations and management, maintenance services and consultancy for major engineering projects.

### Increased flexibility

Better match your output and reaction time to demand or open up new possibilities and markets through enhanced plant flexibility and responsiveness.

### Improved efficiency

Compete in the market and take your plant performance to the next level through opportunities for optimization or upgrading.

### Improved reliability

Reduce downtime and unplanned costs through our knowledge and expertise in plant inspection, failure analysis, engineering modifications, operational and maintenance practices or through our advanced monitoring systems.

### Reduced risk

Understand, minimize, and mitigate your asset and operational risks. Independent assessment and advice including plant life extension from our experienced engineers.

### Increased capacity

Maximize your production potential and realize the most value from your assets using our engineering expertise, for technical upgrades and process optimization.

## One-stop-shop

### Comprehensive skills from a single source reduce complexity and risk

We take a holistic approach to your needs, acting cohesively and in a multidisciplinary way to respond quickly and solve your problems. You can reduce potential costs, complexity and risk to performance by leveraging the broad diversity of our in-house skills. Our multi-disciplinary teams have expertise in the complete range of energy technologies and asset types. They work hand-in-hand to ensure that our services positively influence all aspects of plant development, operation and maintenance.



## Maximizing value across the entire asset life cycle

### Through-life Services

Our focus is to add value at all stages of your asset life cycle, across a broad range of technologies. By combining our through-life solutions with our more specific services we create a unique value proposition for you. For example, our energy-trading and fuel supply services, plus training and development options, help to maximize your return on investment.

### Feasibility, Construction, Commissioning

From the earliest project phases up to commissioning and handover, we leverage our extensive experience with project development and implementation, as well as operating our own assets to ensure optimized through-life value for you.

### Asset Management & Optimization

We bring our owner's understanding of diverse assets and markets to help you overcome your challenges. Portfolio optimization, benchmarking, maintenance strategies, lifetime extensions and asset upgrades are part of our offering.

### Operation & Maintenance

We share our experience in power generation to positively influence operational profit, revenues, and costs for you. We deliver maintenance, outage management and inspection activities, and can operate assets on your behalf.

### Decommissioning

We have first-hand experience managing the end-of-life options of a broad range of energy technologies. For each option we maximize the value for you, and ensure high levels of safety and compliance at all times.

# Our Energy Services in detail

## Through-life Services

- Owner's engineering services
- Technical and engineering consultancy
- Project management
- Supplier quality services
- Compliance assessment and management
- Stakeholder engagement
- Trading and dispatch services
- Fuel and energy sales and supply
- Training and development
- Environmental assessment and management
- Health and safety management
- Operational performance audit and peer review

## Feasibility, Construction, Commissioning

- Feasibility studies
- Due diligence
- Conceptual and basic design (FEED)
- Applications and permitting
- Technical specifications
- Tendering and procurement support
- Project management
- Site and safety management
- Environmental management
- Supplier quality assurance
- Claim and variation management
- Commissioning, acceptance and handover

## Operation & Maintenance

- Outage management
- Inspection management and analysis
- Component and plant life extension
- Advanced condition monitoring
- Advanced performance management
- Long-term O&M service (LTSA)
- Field and workshop repair services
- Spare parts management
- Plant performance optimization and testing
- Root cause analysis

## Asset Management & Optimization

- Maintenance strategy and optimization
- LTSA with OEMs review and re-negotiation
- Portfolio optimization
- Operational maturity assessment
- Plant modification and upgrades
- Benchmarking studies
- Risk management
- Process safety assessment
- Governance and codes & standards

## Decommissioning

- Decommissioning strategy and planning
- Mothballing support
- Dismantling
- Managed shutdown
- Site and safety management
- Decontamination and legacy management

# Energy Services

Services	Delivery Units
Engineering	Uniper Technologies GmbH Uniper Technologies Ltd
Asset Management and Operations	Uniper Kraftwerke GmbH Uniper UK Ltd
Maintenance Services	Uniper Anlagenservice GmbH
Energy Trading & Supply	Uniper Energy Sales GmbH Uniper Global Commodities SE

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