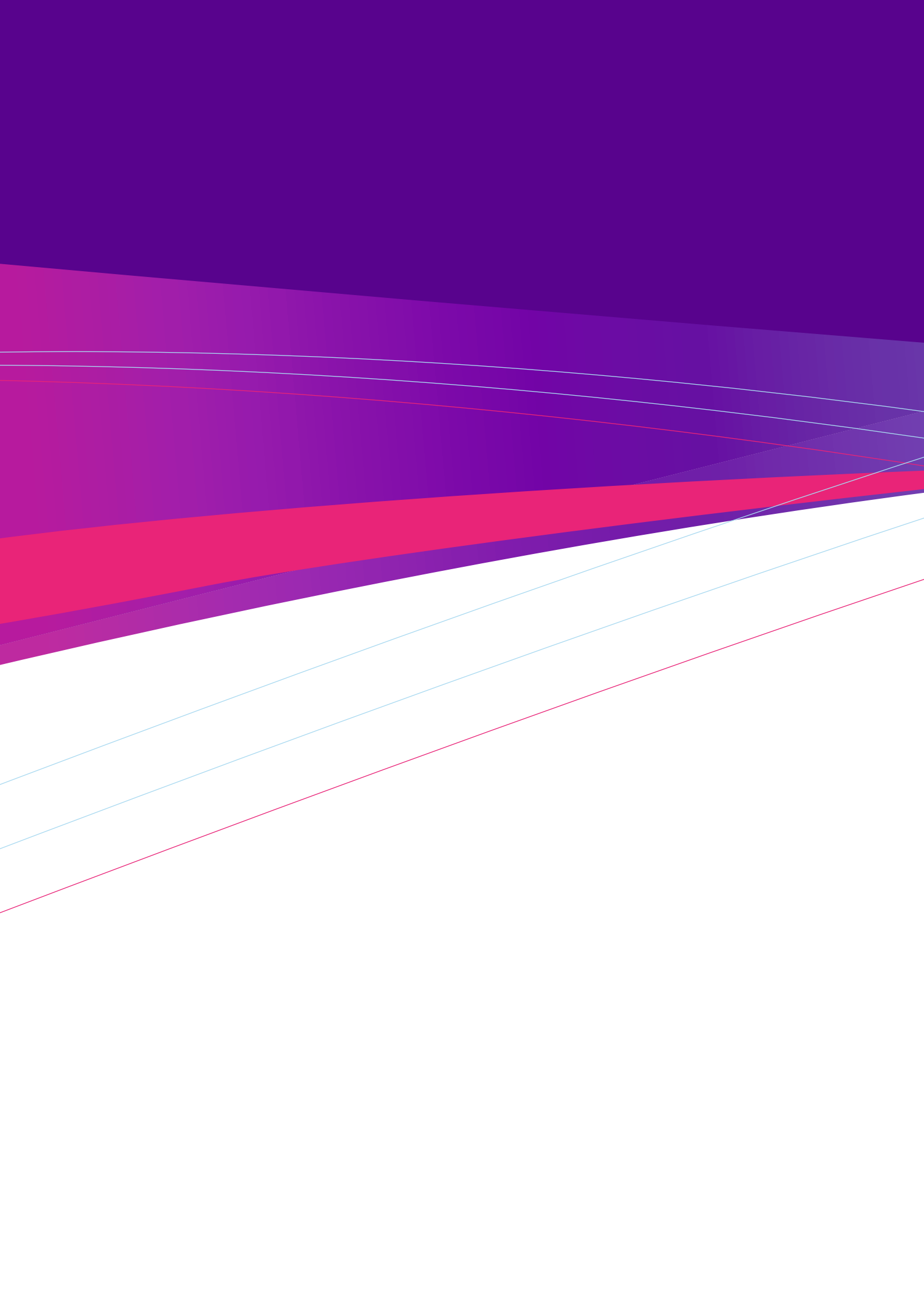


Amprion –  
the strong  
**power** network







# Extra-high performance

for our customers and ...

# Extra-high voltage

About us	4
Security of supply	8
Customer focus	12
Expertise	16
Forward-thinking	20

with maximum

**security:**

That's Amprion: where power and innovative force converge.

Loaded with experience, we work with passion to ensure that we are one of the leading transmission system operators in Germany and in Europe – both now and in the future. Read this brochure to find out more about us.

Amprion: your strong power network.



# 380,000 volts.

We've got a grip on it.





The Amprion 380-/220-kV system



**The figures speak for themselves.  
And for us.**

With around 11,000 kilometres of lines and 180 substations stretching from Lower Saxony in the north of Germany to the Alps in the south, our extra-high-voltage grid is the largest in Germany. An innovative service provider for 350 electricity traders, as well as for industrial customers and grid partners. We offer the experience and commitment of 850 members of staff serving the more than 27 million people who are supplied via our power grid. Not only are we proud of our record: it also motivates us to do our utmost to provide you with a secure electricity supply at all times – now and in the future.

**Based in Dortmund.  
Operating in Europe.**

Full of energy, we look to the future forward-thinking: over the next ten years, we plan to invest more than three billion Euros in grid expansion and the integration of renewables to ensure security of supply for our customers at the highest level. By building 800 kilometres of new lines, we are laying the ground for even more competition on Europe's power markets – transforming our grid into the hub for European power trading.

We bring **power**  
to your lives.





**Our power pulsates throughout the system.  
Our heart beats in Brauweiler.**

For more than 80 years, our systems have been managed from Brauweiler near Cologne. It's here that our team uses its know-how to help make the European transmission system even more secure. From here, we monitor, manage and control our entire grid – 24 hours a day. From trader schedules and power-plant operating schedules through to reactive power optimization and the control of interchange power and grid frequency.

**Our goal is security of supply.  
We'll take new paths to get there.**

October 2008 saw the birth of a German-Dutch security centre in Rommerskirchen – the first of its kind in Europe. This centre allows us to improve coordination of transnational power load flows. From here, an international team of experts supports the security management of the two extra-high-voltage grid operated by Amprion and the Netherlands – serving more than 43 million people who rely on a secure power supply.





### **Stability and security. 365 days a year.**

Be it 380,000 or 220,000 volts, we guarantee security of supply. 350 engineers are on hand to maintain the grid and repair even the smallest of faults at once – day or night, seven days a week. We make sure that electricity consumption and electricity generation are balanced at all times. Through transparent tendering procedures, we procure the system services we need – from primary to secondary control power and minute reserve.

### **Our responsibilities don't stop at the border.**

Situated at the heart of Europe, Germany is the number one electricity transit country. As such, we have a vital role to play: with interconnection lines to nine transmission system operators in five neighbouring countries we can meet the specific transmission requirements of European power traders whilst consistently investing in new lines to boost capacity. In addition, we coordinate output and frequency for Germany – as well as power exchange programmes from Poland in the east to the Netherlands in the west, from the North Sea to the Alps.

As a business partner,  
simply



# electrifying.





## The Amprion grid in figures

Installed length in km (380 kV)	5.300
Installed length in km (220 kV)	5.700
Area supplied (km <sup>2</sup> )	73.100
Population in area (million)	approx. 27
Installed electrical capacity in the control area (GW)	approx. 45
Annual transmission (TWh)	approx. 194

### Open and efficient. Vital for grid access.

We provide customers from industry, distributing utilities, power traders and producers with non-discriminating access to our extra-high-voltage system via some 395 grid input and output connections. Throughout the entire grid area, we offer uniform and competitive price: We have calculated our grid charges in strict compliance with the requirements of the German Energy Industry Act (EnWG) and pertinent regulations.

### Our grid. Also a market place.

350 power traders prove that competition in our grid area functions well. In our balancing area, they manage 700 balancing groups to supply end customers or conclude trading transactions. They provide us with up to 3,500 schedule notifications every day, all of which are checked and processed by us at once.



**Investing in ideas.  
Strengthening business.**

With innovative energy-supply models we help ease the burdens of energy-intensive industry. In agreement with the Federal Network Agency, we have been able to reduce the grid charges of such customers considerably, simultaneously strengthening competitiveness in Germany – a concept that has since been adopted by other players in the industry.

**Service.  
For satisfied customers.**

As a valued and reliable partner, we provide our customers with wide-ranging offers and clearly defined, transparent processes. We have an expert workforce whose top priority is to meet the needs of customers by focussing on close co-operation – and it's all backed up by our customer research. The satisfaction of our customers is key to our success.

Bringing  
**power**



to where it's needed.





**Always on the move.  
It keeps us on our toes.**

A grid is not a static structure. It is a dynamic organism which we are permanently adapting in order to successfully master changing tasks and new challenges. We adopt a farsighted approach when developing our extra-high-voltage system, taking account not just of technical safety aspects, but also economic and ecological conditions and licensing regulations. For example, we regularly fly along the entire length of our grid (11,000 km) to identify damage early on. All our substations are inspected thoroughly.

**Underground lines.  
Outstanding performance.**

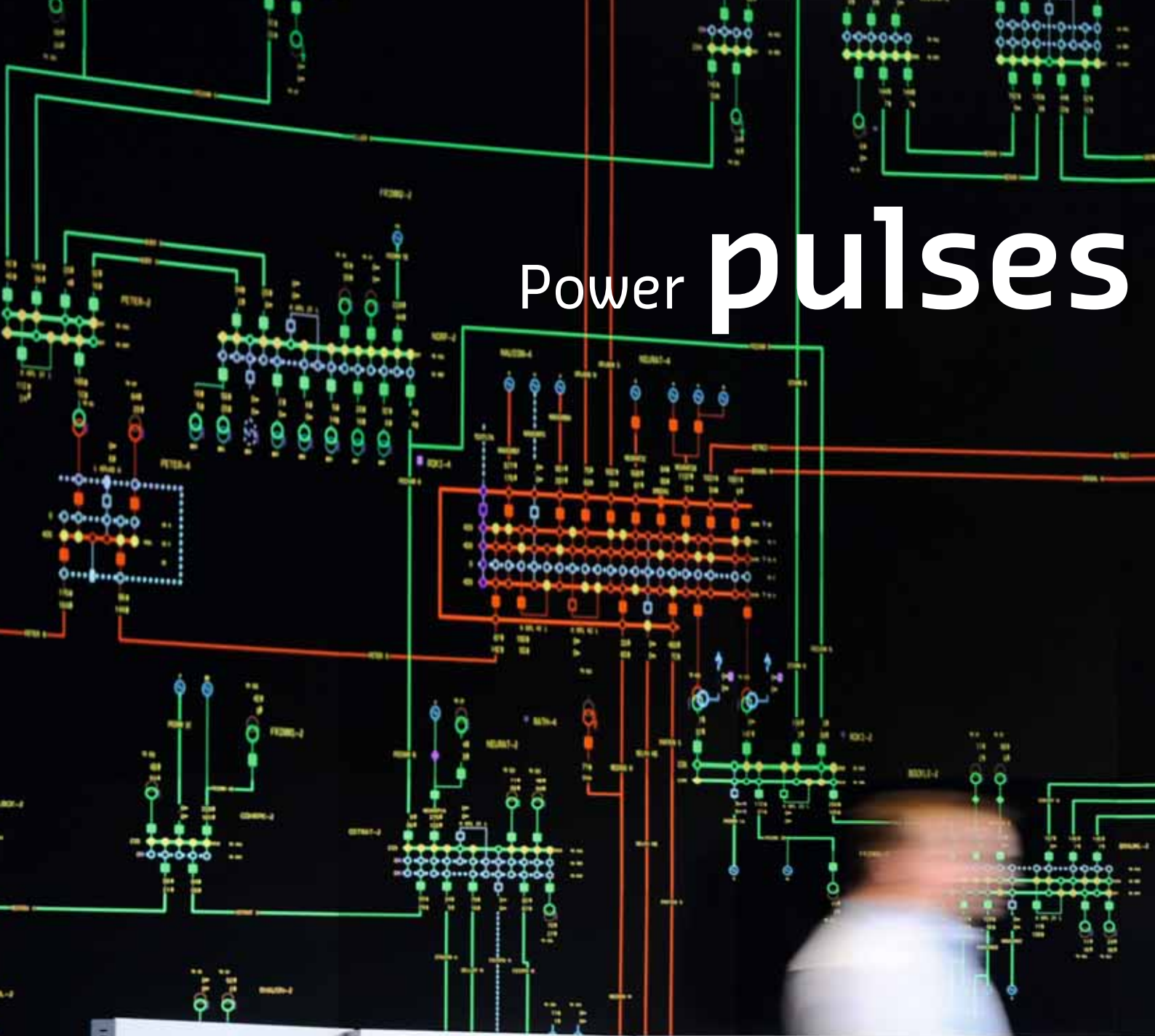
You will find us working on many construction sites across Europe. For example, at Frankfurt airport we are putting Germany's first extra-high-voltage line underground in the form of a gas-insulated cable. A technological milestone – and just one example of our commitment to charting new paths.

**Attractive. For the best in the field.**

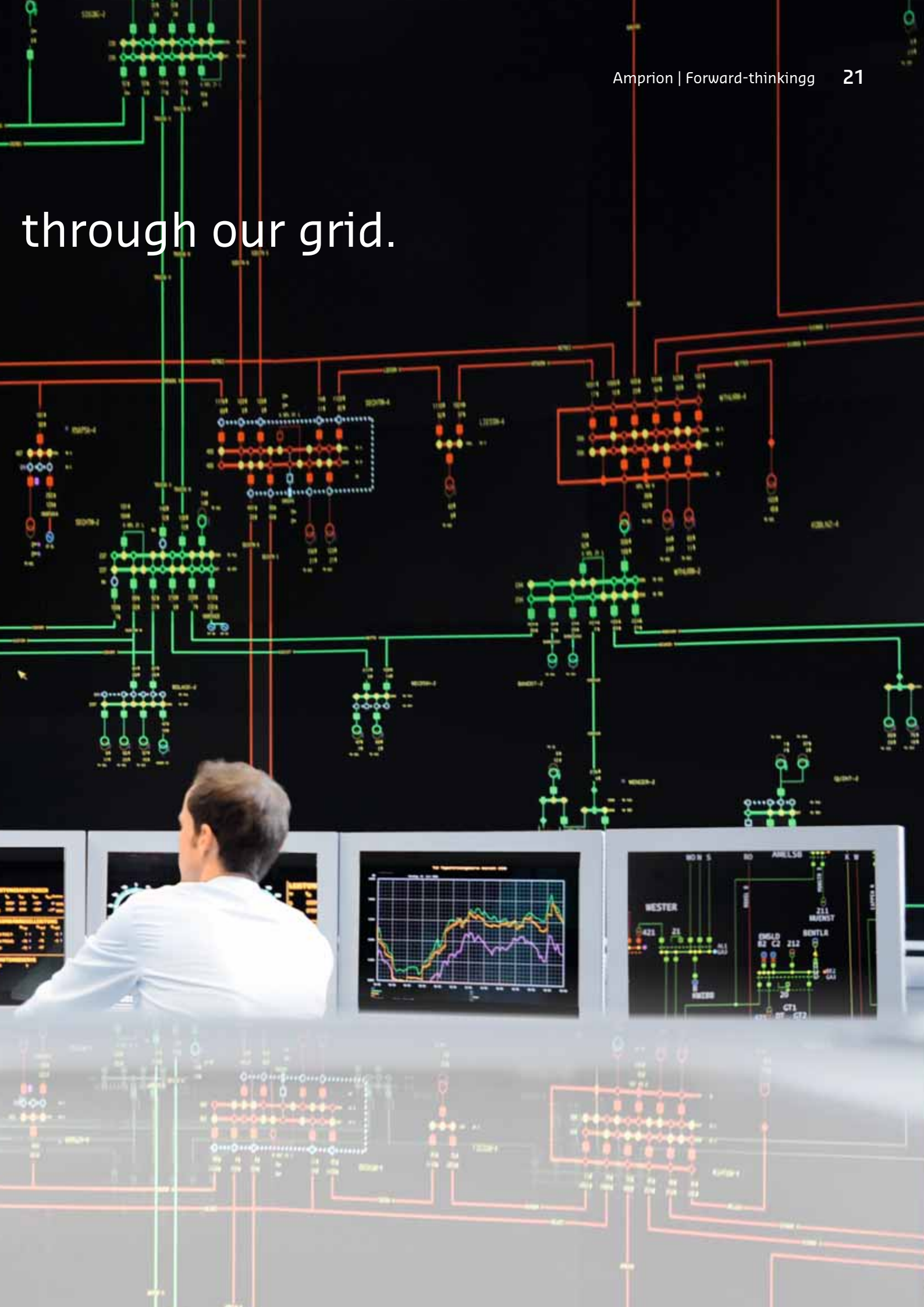
For motivated and highly qualified staff we offer jobs with challenging remits and plenty of room to develop and grow. We encourage commitment and promote inspiration.



# Power pulses



through our grid.





**The power grid.  
On the right lines.**

There's no substitute for know-how and decades of experience. Which is why we are represented on many national and international technical bodies. We often take the lead or key positions when new technologies and processes are introduced. Examples of our development work include schedule management systems, switchgear for short-circuit currents of 80 kA and loss-reduced, low-noise cabling.

**The future.  
Starting with the weather forecast.**

Many of our activities, such as improved wind forecasting, make power more economical and our system more secure. To this end, we compare all kinds of different weather services to obtain much better wind forecasts which help us to procure the exact amount of power we need more cost effectively.

**Sustainability.**  
**Doing our bit for the market and the environment.**

Whether it be protection of landscape, waterbodies or birdlife, thanks to our innovative force and ever-evolving technology, we are doing our bit to support the sustainable use of resources. Take, for example, our biotope management: under this scheme we manage around 10,500 hectares of land situated beneath overhead lines. What's more, we are the first nationwide system operator in Germany to join forces with nature conservation and forestry bodies by jointly implementing an integrated concept that takes account of economic and environmental demands in equal measure.



**Any questions? We have the answers.**

We are here for you at any time – we'd be happy to give you detailed information about our services.

**Why not give us a call?**

Amprion GmbH  
Corporate Communication  
T +49 231 438 -4109

**Or send us an email to**

[info@amprion.net](mailto:info@amprion.net)

**You can visit us on the Internet at**

[www.amprion.net](http://www.amprion.net)

**We look forward to hearing from you.**

A decorative graphic at the bottom of the page consists of several overlapping, semi-transparent lines and colored areas. The colors include shades of blue, purple, and pink. The lines are thin and intersect to form a complex, abstract pattern that fills the bottom portion of the page.



**Powered** for you.



**Amprion GmbH**

Corporate Communication

Rheinlanddamm 24

44139 Dortmund

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