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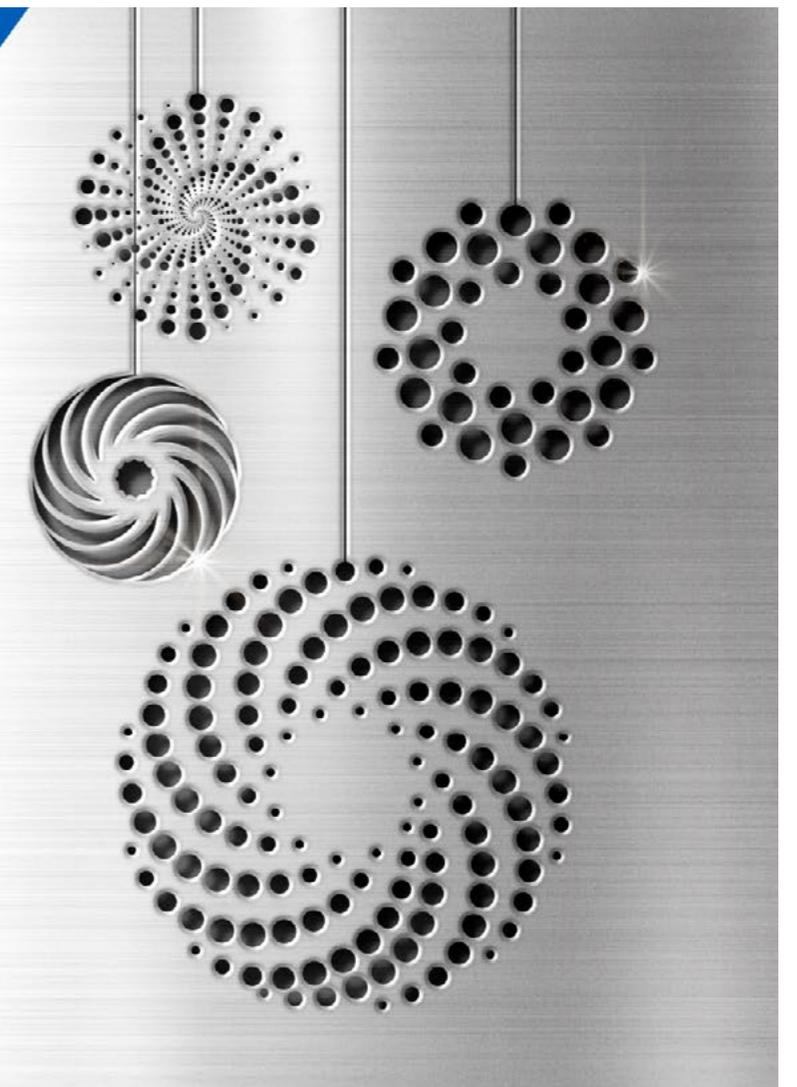
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## **Happy New Year 2026**

We wish you a successful year full of enthusiasm, happiness and new opportunities, and we hope that 2026 will lead you in the right direction.

**DOOSAN**  
Škoda Power



## The largest order in the history of existing nuclear power plants since their commissioning is heading to Pilsen

**Doosan Škoda Power has won the tender for new generators for the Temelín Nuclear Power Plant. The equipment, which converts steam energy passing through the turbine into electricity, is one of the largest in Europe. With their replacement, Temelín is expected to continue increasing its output while also enhancing its regulation capabilities. In 2023, ČEZ launched the tender for what is, to date, the largest investment in the history of existing nuclear power plants.**

They are some of the largest and most important pieces of equipment at the Temelín Nuclear Power Plant. The generators, which are directly connected to the assembly of one high-pressure and three low-pressure turbine sections, currently deliver a nominal 1,086 MW of electricity to the transmission grid. With their operational lifespan approaching its end, ČEZ has decided on a planned replacement. At the same time, this presents an opportunity to further increase the output of the Czech Republic's largest energy source.

ČEZ launched an open tender for the replacement of the generators in May 2023. The best offer, which also includes a future fifteen-year service contract for the newly supplied piece of machinery, was submitted by Doosan Škoda Power.

Under the contract entered into, the generators are scheduled to be replaced during the planned outages of Temelín's individual production units in 2029 and 2030.

The existing turbine-generator sets at Temelín were supplied by the former Škoda Plzeň. Doosan Škoda Power is thus symbolically building on its own heritage and more than thirty years of experience with the operation of the Czech largest nuclear power plant.

The turbine-generator sets represent truly unique engineering achievements on a European scale. Each unit weighs over 2,000 tonnes, spans 65 metres in total length including the generator, and the blade tip speed exceeds twice the speed of sound. Although the largest systems today are found in EPR-type projects, the Temelín turbines still rank among the largest and most powerful units of their kind in Europe.



## Doosan Škoda Power hat-trick at Opatovice Power Plant: the Pilsen manufacturer will deliver a third turbine for the modernisation of the heating plant unit

**Doosan Škoda Power has secured the contract to modernise the sixth unit at Opatovice Power Plant, building on its two recent successes. The project marks another step forward in the power plant’s ambitious decarbonisation programme.**

‘I’m proud that we’ve made it a hat-trick – after the successful modernisations of TG5 and TG3 units, we’ve now added TG6 to the list. Thanks to this, the entire fleet of existing modernised steam turbines at Opatovice will bear the Doosan Škoda Power name,’ said Tomáš Bayer, Doosan Škoda Power’s Area Sales Director for Europe. Doosan Škoda Power secured the contract to modernise the first heating unit at Opatovice Power Plant, which supplies heat to several thousand households in Pardubice, Hradec Králové and Chrudim, back in 2019. The modernisation took place during the scheduled shutdown in 2020. The unit was returned to continuous operation ahead of the heating season in autumn 2020. At the time, this involved unit TG5, and three years later the work continued with another contract to replace the TG3 turbine.

The complete modernisation of unit TG6 includes the delivery of a new condensing turbine and condenser, the refurbishment of the existing generator, the installation of new feedwater heaters, and a comprehensive solution for piping and steel structures. The project is being carried out as an EPC contract, which means on a ‘turnkey’ basis – from design and manufacturing, through necessary civil works and assembly, to commissioning.

‘The most challenging part was to develop a comprehensive solution that would increase the operational efficiency of unit TG6 while respecting the spatial constraints of the existing engine hall. Another key factor was the need to meet the very tight schedule of the planned heating circuit outage,’ said Ladislav Szócs, Sales Manager at Doosan Škoda Power.

Opatovice Power Plant continues its major modernisation aimed at gradually phasing out coal-fired operation and replacing it with a more efficient and environmentally friendly combined-cycle gas

solution. The transformation includes refurbishing the key steam turbines in the TG engine hall, ensuring they work seamlessly in both the existing coal-based system and the upcoming natural gas operation. This guarantees stable and uninterrupted heat supply to the entire region during the transition period.

Opatovice Power Plant is a major producer of electricity and heat in the East Bohemia region. It supplies heat to nearly 63 thousand consumers in Pardubice, Hradec Králové, Chrudim, and other towns and municipalities across the region.



## Czech Technology Powers American Energy: Doosan Škoda Power Wins Rainey Station Project

**In February 2025, Doosan Škoda Power (DSPW) secured the contract to supply the steam turbine, generator and condenser for a strategic project of the state-owned energy company Santee Cooper (South Carolina Public Service Authority).**

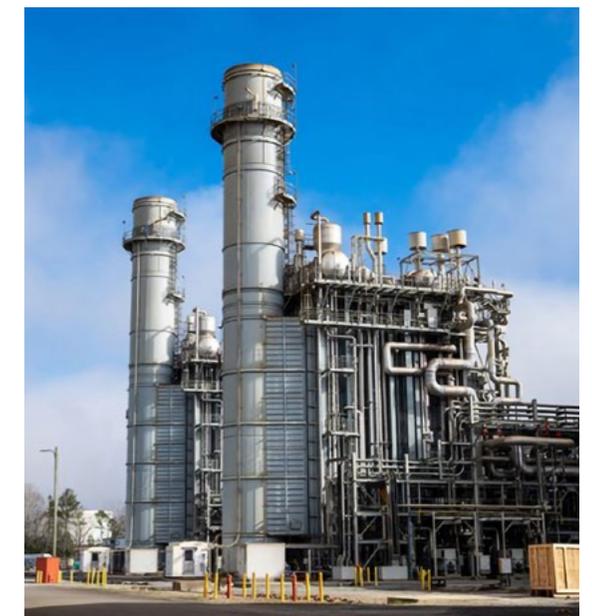
Santee Cooper is the largest publicly owned electricity generator and distributor in the state of South Carolina, USA, supplying over 2 million residents through both direct customers and local distribution companies. The company plays a key role in developing the region’s energy infrastructure and has long been a leader in reliability, sustainability, and the modernisation of power sources. This project is a significant milestone in the modernisation of the John S. Rainey Generating Station in Iva, South Carolina. The power plant, named after the prominent entrepreneur and philanthropist John Rainey, was commissioned in early 2000. It forms a key part of Santee Cooper’s production portfolio. Rainey Station is one of the main sources ensuring the stability of the region’s power grid, while also making a significant contribution to energy security and the reliability of supply across the entire South Carolina area.

The current modernisation aims to convert the existing simple-cycle plant into a combined-cycle facility, increasing its generation capacity by around 180 MW and reducing emissions – all without any increase in fuel consumption. The upgrade will enable the supply of power to more than 89 thousand additional households. Furthermore, the modernisation will deliver higher efficiency

and greater operational flexibility, which is essential for maintaining grid stability amid a growing share of renewable energy sources.

The delivery and installation of the steam turbine are scheduled for summer 2026, with the overall completion of the project, including full commercial operation, expected in early 2028.

The Rainey Station project is more than just another contract. It demonstrates DSPW’s ability to succeed in one of the world’s most demanding energy markets, marking a strategic milestone in strengthening its presence in the USA.



## An Eight-Year Journey for the Muara Tawar Project

**The project to expand the Muara Tawar Power Plant in Indonesia began in 2017. Originally commissioned in 1997, the plant has undergone several stages of development.**

This expansion, however, marked its most significant modernisation yet – the conversion of the original 1,150 MW gas-fired power station into a combined-cycle facility with a target output of 1,800 MW. While most of our projects typically take three to five years to complete, the Muara Tawar project extended to eight years due to its complexity, scale and various circumstances.

Doosan Škoda Power contributed to the Muara Tawar project by supplying three steam turbines – one DST-S10 (150 MW) and two DST-S20 (250 MW) – including accessories and technical support during installation and commissioning. These turbines now convert waste heat into additional electricity and increase the plant's efficiency by 30%. The project was carried out within the Doosan group, with the customer operating in a consortium with the Indonesian state construction company PT Hutama Karya. Doosan's share amounted to approximately 300 billion won (CZK 4.4 billion) out of the total contract value of 470 billion won (CZK 6.9 billion). The contract was awarded by the state-owned energy company PT PLN, which plays a key role in meeting the government's goal of achieving 35 GW of installed capacity.

During implementation, the project team faced numerous challenges: coordinating project delays, complications with shipping goods to the port, frequent changes in project team members, and unsuitable storage conditions on site, which were further exacerbated by heavy rainfall. In addition, a number of minor issues had to be resolved, some

of which, however, occasionally developed into more serious problems. Thanks to teamwork, mutual trust between partners and the tireless efforts of everyone involved, the project was successfully completed. Special mention should be made of the scale of the technical assistance provided directly on site – a total of 1,230 man-days of expert support. This level of involvement reflects the effort to ensure a smooth installation, commissioning and handover of the equipment in the required quality.

Equally important was the coordination of over 60 suppliers involved in various stages of the project – from component production and transportation to on-site work. In addition, throughout the project a total of 358 unique purchase orders were processed to secure the necessary materials, services and technical solutions.



## The Vocational Training Centre as an Ambassador of Technical Education in the Pilsen Region

**Doosan Škoda Power (DSPW) runs its own Vocational Training Centre (COV), where it focuses on training the next generation of skilled and highly specialised employees and colleagues.**

In addition to supporting its current class of 19 students, the Centre also carries out a variety of activities that promote technical education both within DSPW and beyond.

Representatives of the COV regularly take part in regional meetings and round-table discussions that address the overall decline in interest in technical subjects, starting as early as primary school level.

Unfortunately, when choosing secondary schools and vocational colleges in the Pilsen Region, mechanical engineering programmes attract the least interest.

This also means that if younger children, pupils and students are not encouraged and motivated to pursue these subjects in an active and playful way, we may face a situation within a few years where key engineering professionals are in critically short supply across the entire region, and potentially throughout the Czech Republic as well.

For children it is hard to picture what a mechanical engineer does, or how a turbine works. That's why COV staff actively work to bring these ideas to life for children and students through various events, workshops, games, competitions, worksheets and publications.

During guided tours of DSPW, pupils and students explore the entire production process with experts. Here, they learn that manufacturing work is neither dirty nor low-skilled, and that the pay is not bad at all, because, as the saying goes, skilled trades are worth their weight in gold.

COV is also actively involved in competitions organised by schools and regional authorities, with DSPW experts serving on judging panels for final exams.

During Project Days, primary school pupils meet COV staff, who show them in a fun way how to take measurements using a micrometer, create technical drawings and explore machine design.

They encourage grammar school students to pursue higher education in technical fields.

They actively strive to participate in the Innovation of the Vocational Education System in collaboration with the MEYS, aiming to establish a common foundation for vocational programmes to train more versatile manufacturing employees and give them opportunities to gain broader experience across different fields.

Working alongside regional representatives and other companies, they design specific marketing strategies aimed at relevant groups. Their efforts reach beyond pupils to parents, who play a key role in guiding their offspring's career choices. They also play an integral role in schools, influencing their marketing strategies and the ways young talent is motivated.

In the past two months, COV staff have attended several major regional events, such as Nuclear Days and Shine a Light on the Future, which welcomed over 3,000 primary school pupils.

They also joined the Technology is Worth its Weight in Gold competition, bringing together company representatives and regional authorities.

The most recent October event to date was Technology Town held at Pilsen's TechTower, where DSPW had its rightful place as an engineering company renowned for its tradition and unique product offering.

The calendar for this school year is already filling up with exciting events. Highlights include Open Days at individual schools, Engineering Project Days, and lectures at primary schools, along with plans for a small project in nursery schools. Guided tours continue as scheduled, and recruitment of new students for the next school year is, of course, also underway.

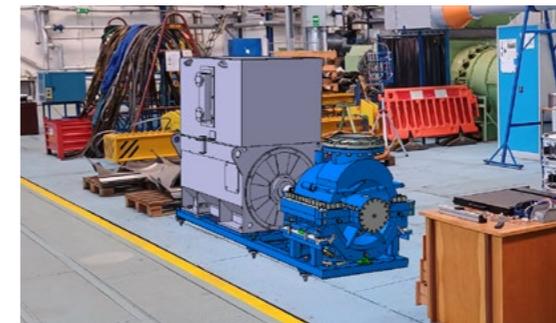


## Business Drivers Department

### What exactly are Business Drivers?

In simple terms, they are innovative ideas in the energy sector that Doosan Škoda Power could and should pay attention to. They are new trends, turbines or cycles using unconventional media. They include market research and the subsequent selection of relevant data and documents. It involves coordinating between sales and research & development, so that new research is always aligned with customer needs and market trends. Last but not least, they facilitate the commercialisation of solutions that have already been developed.

The purpose is to maintain active engagement with customers and to explore opportunities not only in the field of steam turbines, where Doosan Škoda Power primarily assists with the development



of core ideas for the decarbonisation of the current coal fleet of existing operators, but also in entirely specific and unconventional concepts and cycles. The main objective is therefore not just to present and advocate these ideas, but to put them into practice as well.

### The ORC cycle as an example of the Business Drivers Department's work

Instead of conventional water steam, the ORC cycle uses refrigerants (like those found in air conditioning systems) or silicone oils as the working fluid. The purpose of the cycle is to make the most of waste heat within a temperature range of 70 °C to 350 °C. The advantages include a simple setup and minimal space requirements, while its lower efficiency is a trade-off due to the relatively low temperatures.

Following thorough market research and participation in several projects involving ORC units, the company decided to construct its own experimental unit to gain knowledge and experience, as well as build references. The goal is to verify manufacturing and assembly procedures for new products, validate the design parameters of all components (of heat exchangers, turbines, pumps and valves), and fine-tune the autonomous control system.

The decision to build the unit can be seen as a major breakthrough and sends a strong, positive signal throughout the company. It marks an important step towards achieving our established goals. Having an ongoing reference is particularly valuable for securing new contracts in this segment of the power engineering industry, which is expected to grow in the future. The cycle is planned to start operating in 2026.

## Open Day

On Saturday, 27 September, the imaginary gates of Doosan Škoda Power once again opened to welcome employees and their families.

Two years after the last Open Day, staff and their guests had the opportunity to explore the workplace, including the production areas and the experimental hall.

This year, the company welcomed over 950 visitors, setting a new record. Guided tours of the production and experimental halls were once again available to

visitors. New additions included a creative workshop, as well as competitions organised by the Vocational Training Centre, where participants were challenged not only to demonstrate practical skills but also their knowledge of Doosan Škoda Power's products. The youngest visitors and adults took part in fun activities and competitions put together by teams from Production, Design, and Research & Development. To top it off, visitors could sample Korean specialties, bringing variety to the traditional Czech dishes.

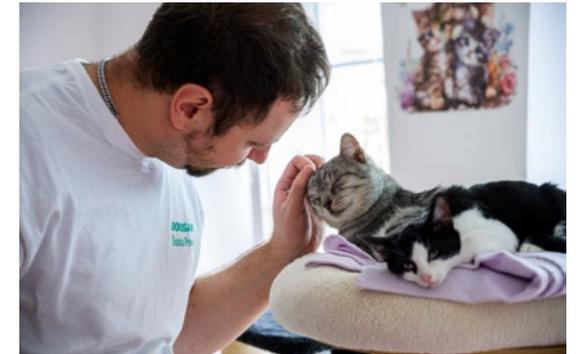


## Day of Community Service

On 8 October, nearly 100 Doosan Škoda Power employees came together for this year's Day of Community Service.

With so many participants, their efforts could be spread across twelve different organisations, with each person supporting the cause closest to their heart.

Some employees helped out in animal shelters, several nursery and primary schools, and even in a hospital. Others donated blood, baked biscuits for charity, and assisted with a variety of other essential tasks.



## Nuclear Days (10 September – 16 October 2025)

September and October at the University of West Bohemia in Pilsen were dedicated to the Nuclear Days project.

This consistently successful event has long provided an inspiring environment for sharing knowledge with students and the wider technical community, while also offering a platform for leading experts visiting the university campus in Plzeň-Bory to meet and engage in discussions. This year marked the 15th edition of the event. Naturally, Doosan Škoda Power (DSPW) was not one to miss the occasion, playing an active role as a partner.

construction set, sparked a wave of positive reactions, and even a touch of nostalgia, among attendees.

The conference simultaneously launched an exhibition running for over a month in the corridors of the Faculty of Mechanical Engineering. The displays featured machinery from the nuclear and non-nuclear sections of a power plant. DSPW provided an illuminated model of a steam turbine and a striking four-metre poster of the Temelín rotor, shown at a 1:1 scale, which became a prominent focal point in the faculty's central area.

This year DSPW took part in the first-ever Corporate Day. This part of the event welcomed not only students from the University of West Bohemia and the general public, but also students from targeted secondary schools in the region. The programme opened with a presentation on DSPW, followed by engaging demonstrations of interesting physical phenomena and a hands-on technical skills challenge. All activities during the day revolved around a tablet giveaway competition.



## Researchers' Night 2025

The Researchers' Night project is a unique European phenomenon that connects science with the public each year in a playful, interactive and inspiring way.

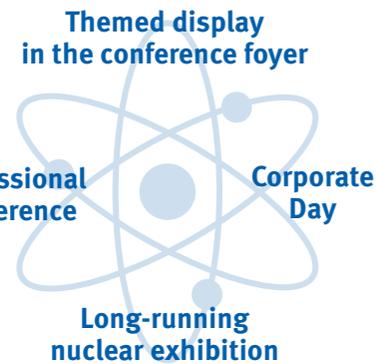
Every last Friday in September, over 460 cities across 25 European countries take part in the project, opening universities, research institutes and museums to more than 1.5 million visitors of all ages. The aim is to bring scientific work closer to the general public – to show how research impacts everyday life, thereby inspiring young people to pursue a career in science.

In the Czech Republic, Researchers' Night has been held since 2005, with coordination shared among various institutions. A few years ago, the event was coordinated by the Techmania Science Center in Pilsen, while this year the national coordinator was the University of Chemistry and Technology in Prague. Each region also has its own local coordinator. For the milestone 20th anniversary, 73 Czech cities and more than 130 institutions took part, providing around 2,500 scientific experiences.

The University of West Bohemia campus at Bory was the focal point of events in Pilsen on Friday, 26 September. Between 5 p.m. and 10 p.m., five university buildings opened their doors to the public, offering a rich variety of experiments, interactive exhibits, games, and popular-science talks.

The theme of the 2025 edition was Wealth. Representatives from Doosan Škoda Power's R&D team prepared an engaging exhibition entitled The Power of Steam Turbine Wealth. The display combined both playful and technical elements. The main attraction was a working turbine model, allowing visitors to see and hear for themselves how the thermal energy of steam is converted into mechanical and then electrical energy, and to appreciate the precision required in manufacturing individual blades and rotor parts.

The exhibition proved to be a success – the showcased items captivated visitors of all ages and received plenty of attention throughout the evening.



The Nuclear Days programme comprised four interconnected parts. The event opened with a two-day professional conference at the Faculty of Applied Sciences, available to stream online in both Czech and English.

The exhibition display also attracted interest during the conference. Visitors could examine a model of a modular engine room, designed to mirror real technology from Doosan Škoda Power. The model, whose main supporting structural elements were built using frames from the legendary Merkur

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