The swift, reliable, and efficient solution
SIGENTICS industrial generators for maximum power yield
A higher yield, achieved faster
SIGENTICS industrial generators are convincing thanks to their time-saving concept – so you can execute projects faster, from the initial planning to plant integration. This doesn’t just power your competitive capability, it also speeds up your return on investment.

Based on their exceptional reliability and high efficiency, we can also guarantee the highest plant availability as well as maximum power yield – regardless of the location. Whether they’re installed in closed machine rooms or outdoors, or are subject to tropical heat, arctic cold, extreme humidity, or salt-laden sea air: Our SIGENTICS industrial generators are the optimal solution for every application and every environment.

Extensive portfolio
Our range of SIGENTICS industrial generators includes high- and low-voltage generators for diesel generator sets, small hydroelectric power plants, and turbine applications. The portfolio seamlessly covers a power range that extends from 0.3 up to 70 MVA – frequently with an efficiency rate exceeding 98 percent. Certified quality, outstanding material, and leading-edge techniques and processes – in conjunction with the extensive experience of our production personnel – result in unique, rugged industrial generators.

World-class power and performance
Benefit from synergies with other Siemens electrical machinery with high power ratings: for example, over 45,000 wind turbine generators that are operating reliably around the globe.

With SIGENTICS industrial generators, we continue to fulfill our role as a technological pacesetter – and we remain the undisputed No. 1 when it comes to large electric machinery. What’s more, our generator design results in extremely low inspection and maintenance costs.

SIGENTICS industrial generator applications:
- Oil and gas, including drilling platforms
- Shipbuilding
- Decentralized diesel power plants (onshore and offshore)
- Emergency generators for industry and infrastructure projects
- Hydroelectric power plants with low and medium power ratings
- Gas-fired power plants
- Steam power plants
- Industrial plants and systems for the chemical and petrochemical industries, pulp and paper, sugar, and ethanol

Your advantages at a glance
- Highest degree of flexibility for planning and engineering
- Seamless range extending from 300 kVA to over 70 MVA
- Highest degree of reliability, even under extreme conditions
- Designed to have a service life of over 40 years thanks to an extremely long winding lifespan based on our well-proven Micalastic® insulation system
- Maximized power generation, high efficiency
- Short delivery time, fast commissioning
- Fast and easy plant integration, straightforward interface engineering, and space-saving design
- Quiet operation, minimum costs for noise reduction measures
- 3D simulation for optimal vibration levels
- Low maintenance and service-friendly
- Global service and support network
- Accelerated amortization, higher return on investment

SIGENTICS industrial generators
Reliable power for each and every application
Whether it’s on board a ship or oil platform, in an industrial plant, for an emergency power system, or a hydroelectric, diesel, gas, or steam power plant: SIGENTICS industrial generators are the perfect solution wherever power has to be generated quickly, reliably, at high efficiency, and with a positive impact on your return on investment.
SIGENTICS HV S-modyn series
Compact and flexible generators up to 70 MVA for industrial turbines

Typical efficiency at or above 98.5%
Wide range of options to optimally adapt the generators to the specific application
Generator service life of over 40 years
Whether it’s for a steam or gas turbine drive: The SIGENTICS HV S-modyn series offers comprehensive generator solutions for all turbine applications in the power range from 25 to 70 MVA. Predefined modules optimally adapt the generator to address specific project requirements.

### Flexible power
Three four-pole high-voltage synchronous generators with salient pole rotors for steam and gas turbines feature a modular design – which means that the SIGENTICS HV S-modyn series can address a wide range of applications, from onshore and offshore operation to island mode and grid operation. Regardless of the application, this generator series stands out as it’s built to its minimum downtimes, long service intervals, and especially its high yield, thanks to a typical efficiency rate at or above 98.5 percent.

#### Made to last
The SIGENTICS HV S-modyn series has a design service life of 40 years. That in itself emphasizes the quality and endurance of these generators, which incorporate windings with an extremely long service life thanks to the Micalastic insulation system.

The outstanding quality of the materials and components used also results in extraordinary mechanical strength and reliability.

- **Application areas for the SIGENTICS HV S-modyn series**
  - Combined gas and steam power plants
  - Thermal power plants (solar, biomass, geothermal)
  - Offshore platforms and FPSOs
  - Railways
  - Gasification plants

- **Thermal recovery in industries such as chemical, pulp & paper, sugar and ethanol**

#### Your advantages at a glance
- **High overload capability**
- **Can be quickly and easily engineered and integrated into plants and systems**
- **Customer-friendly interface concept**
- **Cogeneration to base load of the power plant**
- **Rugged mechanical design**
- **Modern start-up assistance, comprehensive monitoring systems**
- **Resilience to dirt, humidity, salt, and chemicals**
- **Minimum failure rate due to the high-quality components used**
- **Winding with outstanding service life thanks to the Micalastic insulation system**
- **Functionality design for minimum maintenance costs**
- **Controlled input part investment**
- **Reliability of the insulation system under service life**
- **Design measures that prevent oil leaks**

The SIGENTICS HV S-modyn series covers the complete power range with just one shaft height. This simplifies integrating the generator into plants and systems, and the high level of standardization – even for high power ratings – ensures a short delivery time and a high on-time delivery performance.

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**SIEMENS HV S-modyn series**

Compact and flexible generators up to 70 MVA for industrial turbines
SIGENTICS Diesel Genset series
Flexible, reliable power that you can depend on

High efficiency of about 98%
Destined for operation on the high seas, thanks to the rugged design
Country and sector-specific certificates mean that the units can be used universally
Today SIGENTICS high-voltage and low-voltage diesel generator sets are the benchmark – both technically and in terms of cost-efficiency – for decentralized power plants, emergency generators, and powering ships and offshore platforms.

Convincing solutions
The SIGENTICS Diesel Genset series offers optimal performance under extreme conditions: for example, humid tropical climates and salt-laden sea air. Their modular design means that these generators can be precisely adapted to the specific application. Not only that, the series complies with all the relevant international standards and certificates, facilitating global use in the widest range of applications.

Add to this the fact that the SIGENTICS series has been designed and built so that it’s especially reliable. In addition, the service windows that enable easy access, and the modular design ensure that even when space is restricted.

Type 1FC2 new generator for traction solution
- At the heart of the high power generation is the diesel-electric locomotive in a genset that contains Siemens generator coupled to a diesel engine.
- Specifically designed for high power generation for this field of operation, with especially flexible rotor construction.
- Primarily used for retrofitting old locomotives.
- The new generator 1FC2 replaced the old DC generator with a brushless AC generator.

Your advantages at a glance
• Low maintenance, even when installed at locations with extreme conditions
• Long service life thanks to the optimal cooling
• Compact design with high power density
• 3D simulation for ideal vibrational behavior
• Swift and simplified electrical design
• Cost saving and environmentally friendly as a result of the lower diesel fuel consumption
• Quiet operation
• Simplified spare parts inventory

Highest efficiency
The SIGENTICS Diesel Genset series stands for the highest degree of efficiency, reliability, and flexibility. At 98 percent, they deliver the highest possible degree of efficiency for all low-voltage (0.3 to 5 MVA) and high voltage applications (1 to 25 MVA) for diesel generator systems. Their compact design significantly reduces the amount of space required. The high quality of the materials used and the service-friendly design guarantee low lifecycle costs.

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Flexible, reliable power that you can depend on
SIGENTICS M series

Boost your energy yield

Faster project implementation, earlier return on investment: SIGENTICS M offers decisive benefits in terms of project implementation. In addition, the well-designed and extremely rugged frame offers advantages in terms of standardization – and the machine’s superior performance is another outstanding quality of this modular generator series.

Engineering expertise meets generator excellence
The SIGENTICS M series is the new generation of high-performance synchronous alternators from Siemens. Their construction is based on a proven and tested design that is powering a multitude of applications worldwide. You benefit from one-and-a-half centuries of experience and tradition in building rotating electric machines, which enables us to maintain our leadership in energy efficiency and operational reliability.

Our goals: To support you in becoming even more competitive, and to enable you focus on your core competencies.

Faster project execution with higher energy output and better eco-sustainability
Top-of-the-range efficiency of up to 98.4%
New modular frame with a wide variety of options, even for challenging applications
SIGENTICS M series
Boost your energy yield

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Your advantages at a glance
• Customizable to meet specific requirements
• Fast planning, fast delivery, fast integration
• Superior performance and efficiency up to 98.4%
• Lowest noise and vibration levels
• Less weight and compact design to save space and resources
• Outstanding technical reliability and product lifespan
• Comprehensive program of monitoring services

Technical details at a glance

| Rated voltage | 0.4 / 0.45 / 0.69 / 3.3 / 4.16 / 6.3 / 6.6 / 11 / 13.8 kV |
| Rated frequency | 50 / 60 Hz |
| Pole numbers | 4 / 6 / 8 / 10 / 12 / 14 |
| Shaft height | 710 mm, 800 mm |
| Type of construction | Horizontal IM 100_, IM110_ |
| Excitation system (brushless) | AREP (auxiliary winding), PMG (permanent magnet) |
| AVR | BASLER DECS, SIEMENS DIGIREG, F&S TIBS |

For standards and challenging applications: The SIGENTICS M series' wide range of international standards and certifications cover the entire family of rigid and rugged frame. These qualities make the series suitable for applications, even under the most demanding conditions:

• Power generation
• Marine applications
• Oil and gas
SIGENTICS
Small Hydro series
Rugged and long-lasting for hydroelectric power plants up to 25 MVA

Superior efficiency for highly efficient and sustainable power generation

Designed specifically for hydroelectric power plants with extremely fast response to load fluctuations

Low maintenance requirement makes these generators the ideal choice for use in river dams and tidal power plants
Small and medium-sized hydro-electric power plants up to 25 MVA need especially efficient generators that combine sustainability, ruggedness, and a long service life with low maintenance.

Application-optimized design
The SIGENTICS Small Hydro series distinguishes itself with a very flexible design and a choice of different cooling methods. It has already proven itself in many hydroelectric power plants – and is also certified by the BDWI (Bundesverband der Energie- und Wasserwirtschaft: the German Association for the Power and Water Industries). These generators have an optimized power and performance profile that includes a fast response to load fluctuations. They also feature a high insulation class and a rugged design that ensures a long service life and makes them insensitive to constant moisture and even saltwater. And thanks to their compact design, they are ideally suited for installation in all types of dams and weirs.

Minimized lifecycle costs
The rugged mechanical design of the SIGENTICS Small Hydro series generators makes them exceptionally reliable. They also stand out due to their especially low lifecycle costs.

Maximizing availability, a long service life, a short payback period, and low operating costs are crucial for small and medium-size hydro systems.

Application areas for the SIGENTICS Small Hydro series:
• River weirs
• Dams
• Pump-storage hydro power plants
• Tidal power stations

Your advantages at a glance
Certified by the BDWI, Bundesverband der Energie- und Wasserwirtschaft (German Association of the Power and Water Industries)
• Resistant to dirt, humidity, and saltwater
• Space-saving design for easy integration: for example, in dams and weirs
• Long service life of over 40 years, high return on investment
• Isolated ground, extremely high reliability
• 3D-simulated for outstanding vibrations behavior
• Warranty period of up to five years
• Simplified spare parts inventory
• High degree of flexibility in the electrical design
• Fast and simple commissioning
• Quality management according to DIN EN ISO 9001
SIGENTICS Turbine Driven series

Maximum quality, efficiency, and flexibility

Outstanding efficiency up to 98.3%
Suitable for gas and steam turbines
Long service life of over 40 years, high return on investment
For steam and gas turbine applications – suitable for indoor and outdoor installation – the SIGENTICS Turbine Driven series provides you with power ratings up to 25 MVA and efficiency levels over 98 percent, resulting in a high degree of cost-effectiveness.

Greatest possible levels of efficiency, reliability, and flexibility

Quickly and precisely adapting to fluctuating supply grids and loads is a challenge for turbinedriven generators. In addition to a long service life and rugged design, these generators must guarantee a high degree of efficiency, flexibility and reliability. The SIGENTICS Turbine Driven generator series provides outstanding performance under the most extreme conditions thanks to their thermal endurance and mechanical strength. This means that they take heat, humidity, chemicals, and salt laden sea air in their stride. And as a result of their compact modular design, the Turbine Driven series can be quickly and precisely adapted to and integrated in every plant or system – including the generators' electrical parameters.

Application areas for the SIGENTICS Turbine Driven series:

- Gas turbines
- Combined cycle plants
- Oil platforms
- Mobile power plants
- Refineries
- Steam turbines
- Cogeneration plants
- Thermal recovery in industries including pulp and paper, chemical and petrochemical, sugar, and ethanol.
- Geothermal systems
- Refineries

Your advantages at a glance

- Can be flexibly adapted to your particular plant or system
- Insensitive to dirt, humidity, and saltwater
- Very rugged design, high thermal resistance
- Highest reliability, maximum plant/system availability
- 3D simulation for outstanding vibrational behavior
- Very low noise and vibration
- Simplified spare parts inventory
- Space-saving design simplifies integration into plants and systems
- Can be quickly and easily engineered and commissioned
- High efficiency even in partial outputs

SIGENTICS Turbine Driven series

Maximum quality, efficiency, and flexibility

Powerful and cost-effective

The excellent efficiency and corresponding high power ratings go hand-in-hand with extremely cost-effective and energy-efficient power generation. Other features include the highest possible plant and system availability and reliability – which lead directly to low lifecycle costs.

Greatest possible levels of efficiency, reliability, and flexibility

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Steam turbines

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- High efficiency even in partial outputs
Steam turbine driven SIGENTICS generator for Precheza chemical site at Přerov, Czech Republic
The objectives to be met in this challenge: Optimizing the efficiency and reliability of a production site for inorganic pigments with a steam turbine driven generator. This was the challenge at our generator project on the Elbe River in Tri Chaloupky.

We replaced the system with a 1.7 MW SIGENTICS HV Small Hydro generator with a capacity of 7.4 GW of eco-friendly energy per year. This solution is as robust as it is efficient and delivers the highest possible plant and system availability.

SIGENTICS generator for Brno University of Technology, Czech Republic
How do you go about equipping an outstanding high-current test laboratory with a very powerful and robust electrical source? To be more precise: How can you build a test stand with extreme electrical and mechanical strength for technical research on switchers? This was the challenge at Brno University’s research center.

The solution: A test stand with remarkable strength based on a Siemens 16-MVA synchronous generator with 6.3 kV and packed with advantages. The SINAMICS frequency converter chipped in with great testing flexibility, and digital analysis and condition monitoring provided valuable research results.

SIGENTICS generator for hydro-electric power station Tri Chaloupky, Czech Republic
Find the key to higher efficiency and reliability for a nearly 70-year-old hydro-electrical power station and its outdated generator: this was the challenge at our generator project on the Elbe River in Tri Chaloupky.

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Our references
SIGENTICS generators in action

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Benefit from our extensive experience
We see ourselves as industry’s expert partner. Our in-depth expertise in all areas of power generation and transmission helps you operate your generators to obtain the maximum yield.

Always at your side
With our global sales network, production facilities, and regional offices, we’re always close-by to provide you with support. This means that you have a knowledgeable partner that you can depend on, that knows your systems and challenges, and can support you in every area. You’ll also benefit from significantly shorter delivery times so that you can start to generate power sooner. What’s more, our generators are designed to be very rapidly commissioned.

Global service network
And when we say global, we really mean it. In an emergency, you can reach our worldwide service organization via a hotline that’s available 24/7 and that can quickly and flexibly support you in 190 countries. Benefit from our extensive experience acquired from more than 150 years in the area of electrical engineering and power generation – which is what allows us to be your supportive and dependable partner.

High investment security
With a design service life of 40 years, our industrial generators ensure that your investment pays off. The high system availability and the low-maintenance design of these generators play a crucial role in achieving this extended lifespan. And their high performance and power rating and excellent efficiency ensure a fast payback.

An overview of SIGENTICS industrial generators

<table>
<thead>
<tr>
<th>Technology</th>
<th>HV S-modyn series</th>
<th>Diesel Genset series</th>
<th>Small Hydro series</th>
<th>Turbine Driven series</th>
<th>SIGENTICS M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotor design</td>
<td>Synchronous generator</td>
<td>Cylindrical rotor or salient pole rotor</td>
<td>Cylindrical rotor or salient pole rotor</td>
<td>Cylindrical rotor</td>
<td>Cylindrical rotor or salient pole rotor</td>
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<tr>
<td>Power range</td>
<td>25 – 70 MVA</td>
<td>0.29 – 25 MVA</td>
<td>0.5 – 25 MVA</td>
<td>0.5 – 25 MVA</td>
<td>Up to 20.1 MVA</td>
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<tr>
<td>Number of poles</td>
<td>4 poles</td>
<td>4 – 14 poles</td>
<td>4 – 14 poles</td>
<td>4 poles</td>
<td>4 – 14 poles</td>
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<tr>
<td>Shaft height</td>
<td>1,120 mm</td>
<td>400 – 1,120 mm</td>
<td>400 – 1,120 mm</td>
<td>400 – 1,340 mm</td>
<td>710 – 800 mm</td>
</tr>
<tr>
<td>Type of construction</td>
<td>Horizontal foot mounting (IM1005, IM100x as an option)</td>
<td>Horizontal or vertical foot mounting</td>
<td>Horizontal foot mounting</td>
<td>Horizontal foot mounting</td>
<td></td>
</tr>
<tr>
<td>Enclosure</td>
<td>Steel</td>
<td>Steel</td>
<td>Steel</td>
<td>Steel</td>
<td></td>
</tr>
<tr>
<td>Speed range</td>
<td>1,500/1,800 rpm</td>
<td>500 – 1,800 rpm</td>
<td>500 – 1,800 rpm</td>
<td>1,500 – 1,800 rpm</td>
<td>429 – 1,800 rpm</td>
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<tr>
<td>Frequency</td>
<td>50 Hz/60 Hz</td>
<td>50 Hz/60 Hz</td>
<td>50 Hz/60 Hz</td>
<td>50 Hz/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Efficiency</td>
<td>98.5% and above</td>
<td>Up to 98%</td>
<td>Up to 98%</td>
<td>Up to 98.3%</td>
<td>Up to 98.4%</td>
</tr>
<tr>
<td>Thermal class</td>
<td>155 (F) utilized to 130 (F)</td>
<td>155 (F), 180 (H) for LV</td>
<td>155 (F), 180 (H) for LV</td>
<td>155 (F), 180 (H) for LV</td>
<td></td>
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<tr>
<td>Cooling method</td>
<td>IC B1 W, IC 31, IC 616 (additional cooling methods on request)</td>
<td>IC 01, IC 31, IC B1 W</td>
<td>IC 01, IC 31, IC B1 W, IC 616, IC 611</td>
<td>IC 01, IC 611, IC 616, IC B1 W</td>
<td></td>
</tr>
<tr>
<td>Ex protection</td>
<td>Ex p, Ex n</td>
<td>–</td>
<td>Zone 2 (1): Ex p2, Zone 2: Ex nA</td>
<td>Optional Ex n or Ex p</td>
<td></td>
</tr>
<tr>
<td>Primary applications</td>
<td>Gas turbines, steam turbines, chemical and petrochemical, oil and gas, geothermal energy</td>
<td>Power generation, shipbuilding, oil and gas, emergency generators, decentralized power stations</td>
<td>Power generation, shipbuilding, oil and gas, emergency generators, decentralized power stations</td>
<td>Power generation, shipbuilding, oil and gas, diesel as well as turbine driven applications</td>
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</tr>
</tbody>
</table>
A tradition of outstanding quality
More than 100 years of Siemens generators

Dynamowerk Berlin
Founded in 1906, Dynamowerk is the oldest factory in the Siemensstadt quarter of Berlin. It continues to be an important economic driver for the city, employing more than 650 specialists in industrial generators and motors. Dynamowerk manufactures special machines with an output of 100 MW/650 t for applications in all industries. Today more than 750 employees continuously implement innovative ideas for developing better engines and generators. The product portfolio comprises SIGENTICS HV S-modyn industrial generators (20 MVA to 75 MVA), SIMOTICS H-modyn high-voltage motors (2 MW to 40 MW), and specialized ring motors, marine propulsion, rolling and conveyor high-voltage motors (up to 80 MW), and groundbreaking innovations like the SIMOTICS active magnetic bearing technology.

Siemens Electric Machines s.r.o.
The generator factory at Drásov in the Czech Republic was founded in 1913. On a floor space of 18,000 m², approximately 700 employees develop, engineer, manufacture and service generators up to 25 MVA for the shipbuilding industry, offshore oil platforms, turbines, and railway generators. The product portfolio also includes asynchronous (A-modyn) and synchronous motors up to 20 MW for special applications, as well as components such as coils and stators for other Siemens plants.

When Werner von Siemens discovered the dynamo-electrical principle in 1866, he laid the foundation for electricity to be used as a source of power and inspired the disruptive development of innovations in power engineering that has been the company’s hallmark ever since.
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