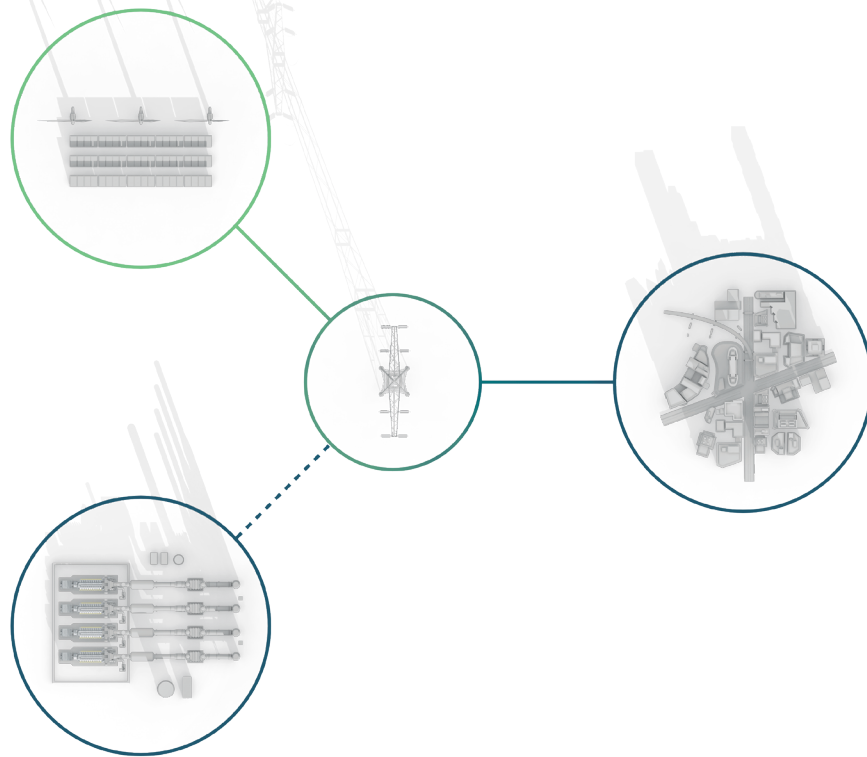


Peaking and balancing solutions



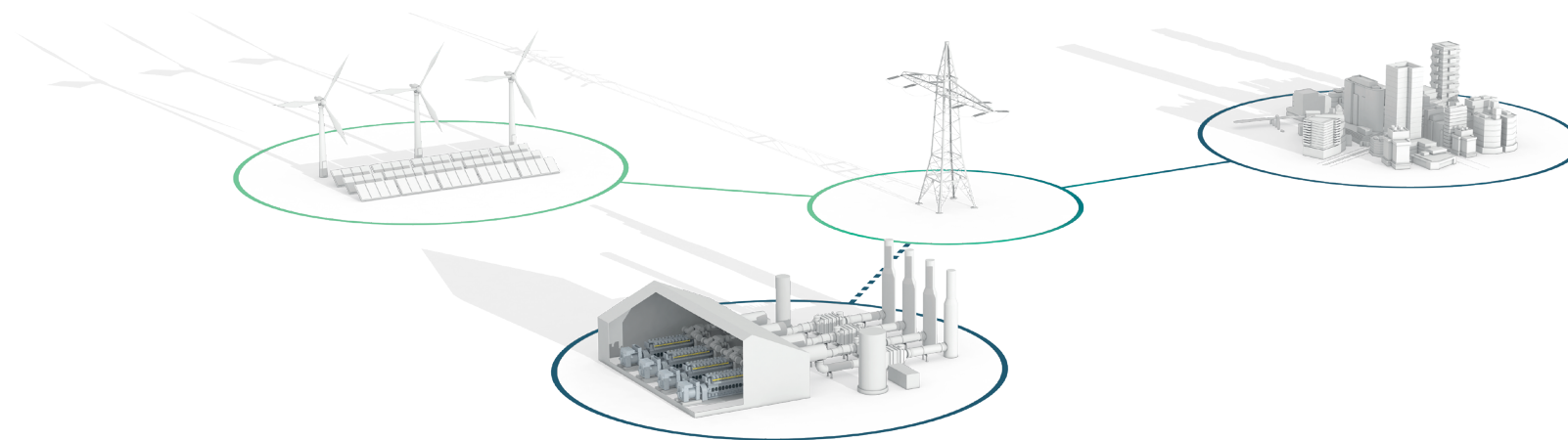
Benefits at a glance

- Reliable engines for grid stability with fast start and ramp-up
- Continuous part- and low-load operation down to 10 %
- Flexible fuel use (natural gas, biogas, e-methane, and hydrogen admixtures)
- Multiple start/stop capability without impacting maintenance intervals
- Low OPEX for increased profitability
- High operating flexibility

Everllence

Instant power for grid stability

The growing share of non-dispatchable renewable energy sources (RES) in power grids makes it challenging for grid operators to ensure stable and reliable power at all time. Responsive, flexible, and highly efficient balancing power solutions are needed to match the variations in supply and demand. With full power in less than 5 minutes, quick reaction to changing loads and multiple starts and stops per day, Everllence gas engine power plants keep the grid running smoothly.



Challenging times

Utilities, municipalities, and independent power producers have to balance fluctuations in the grid, supply ancillary services, and achieve their annual profit with a low number of operating hours.

Sudden load peaks can be caused by high power demand from heavy industry, seasonal peaking (cold winter / hot summer days) and peak hours in cities (morning / evening).

Integrating RES in the power grid leads to inconsistent power generation: It can cause power shortages when there is no wind or sun, but also leads to overproduction of power in very sunny and windy conditions. In periods with low demand, this can result in an excessive waste of power.

System solutions

Dealing with peak demands and compensating for production imbalances are two sides of the same coin: Ensuring grid stability. Everllence provides decentralized, flexible, fast-starting, and highly efficient peaking solutions to balance power demand and production.

The flexible peaking power plant solution provides power on very short notice, for example, in response to a sudden output reduction from renewable power sources or spikes in demand.

Our modular and scalable power plant designs reduce the installation time on site and lead to low interest during construction (IDC) and early positive project cash flows.

With multiple engine starts and stops per day, our efficient gensets offer reliable power without impacting maintenance intervals. Everllence also provides its customers with optimized service concepts to reduce their maintenance costs.

Making the most of all fuel sources

We offer total fuel flexibility with a range of liquid fuel, dual fuel, and gas engines. These reliable engines give you the flexibility to respond to changing environmental regulations and fuel availability. Known for their reliability, efficiency, and performance, our engines also have extremely low exhaust emissions.

We regard natural gas as a key component in our transition to a carbon-free future, since it is easy to adapt existing gas-based equipment to carbon-neutral e-methane. Everllence is also developing engines that run on future fuels, such as green hydrogen and its derivatives like green ammonia.

Everllence gas engines are already able to use e-methane to operate with complete climate neutrality, and even make 25 % hydrogen admixtures possible today. Everllence is planning to launch fully hydrogen-powered four-stroke engines from 2030 onwards.

We cover all the bases

Customized solutions

Whether you hire us to plan, prepare, and develop your power plant or want us to take care of your maintenance, we are at your service. Our scope of supply ranges from GenSet only to complete engineering, procurement and construction (EPC) solutions, being your one-stop shop.

Expert advice and implementation

With decades of experience as a leading provider in the global energy industry, we can provide you with the exact support you need as our partner. Our expertise covers the entire project implementation phase, from planning and obtaining loans, to the taking over certificate (TOC), always taking into account the legal aspects of your business.

Key applications

Covering peak demand

Our plants provide dynamic peaking power for applications that require an instant response to load peaks. They feature fast ramp-up times and support safe and efficient part-load and low-load operation down to 10%.

Balancing RES

Increasing shares of fluctuating RES require flexible, dispatchable backup, which is able to balance and stabilize the grid. A perfect solution for this backup is provided by Everllence balancing power plants.

Energy storage solutions

Additional energy storage helps ensure power availability and grid stability, and supports the engines. This leads to lower fuel expenses, and may reduce the number of engines required.

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