



SIEMENS

Ingenuity for life

Upgrade your power plant with a vacuum GCB

Vacuum generator circuit-breaker retrofit solutions up to 400 MW

Using state-of-the-art vacuum technology

When a power plant reaches the age of more than 20 years, it often requires higher maintenance, and necessary spare parts become harder to find because the original equipment is no longer manufactured. A renewal of the electrical equipment like the generator circuit-breaker can ensure the productivity and efficiency of the power plant.

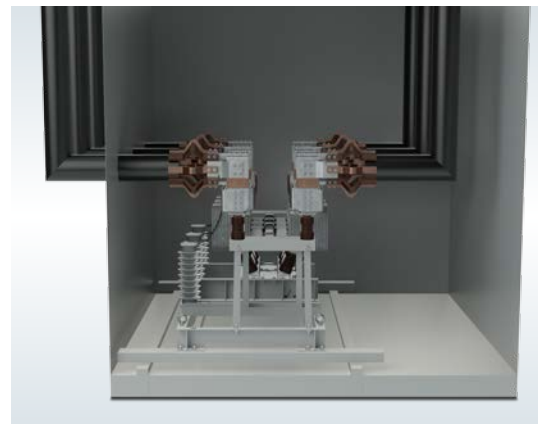
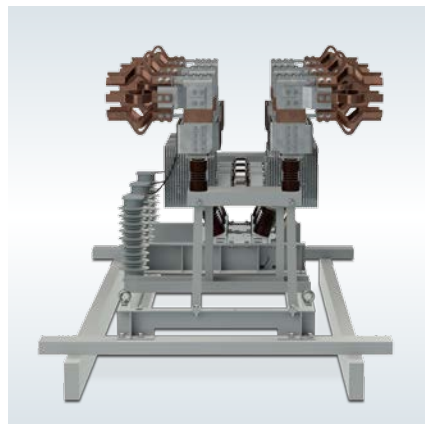
At the end of their service life, the generator circuit-breakers have to be replaced or retrofitted to avoid unscheduled downtimes or high maintenance costs.

Siemens offers a wide range of generator circuit-breaker retrofit solutions including component exchange, switchgear replacement, and electrical turnkey packages. And with state-of-the-art vacuum switching technology we support our customers to realize their sustainability targets.

Generator switchgear with vacuum switching technology increases productivity since it is maintenance-free and no downtimes are needed. It protects customers' investments by operating with high reliability and availability. Our solutions are developed following the latest standards, thus guaranteeing peace of mind.

The provided solutions have a small footprint to meet even the narrowest space requirements. Therefore, existing cell configurations can be used for the new solution. The generator circuit-breakers are easy to install and can be tailor-made according to the customers' requirements.





With worldwide experience, local centers of competence, and a high design expertise, Siemens finds the optimum solutions for every customer application.



Whenever you need support, the worldwide Siemens network of experts is by your side to offer advice and provide you with the right answers, from the early stage of your project till you are completely satisfied with the results.



Siemens offers you solutions for retrofit and switchgear replacement. A short overview of the portfolio will give you a first idea of the solutions.

| HB3 – Horizontal Busbar | HB1 – Horizontal Busbar | VB1 – Vertical Busbar | VB1-D – Vertical Busbar, Drawable |
|--|---|--|---|
|  <p>up to 400 MW up to 24 kV up to 12,500 A up to 100 kA</p> |  <p>up to 170 MW up to 24 kV up to 6,700 A up to 72 kA</p> |  <p>up to 140 MW up to 24 kV up to 5,500 A up to 72 kA</p> |  <p>up to 110 MW up to 17.5 kV up to 5,100 A up to 63 kA</p> |

Customer benefits:

- Maximizing plant availability and reliability due to minimized maintenance efforts and reduced downtimes
- Achieving environmental and sustainability targets by using vacuum switching technology
- Use of Siemens know-how and engineering experience to optimize the investment



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