

## European Solar and Energy Storage Solutions

# Statcom hitachi energy Jersey



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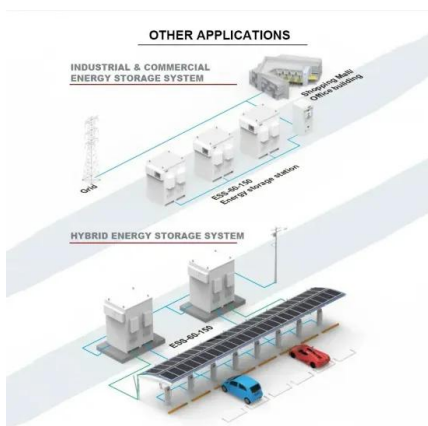


### Hitachi Energy and TransnetBW make German grid fit for ...

Zurich, February 13, 2024 - Hitachi Energy has signed a major order with German state-owned transmission system operator, TransnetBW to enable the expansion of renewable energy and stabilization of the grid. Hitachi Energy will supply two Enhanced STATCOM1 stations with the next-generation grid

### Static synchronous compensator

Hitachi Energy STATCOM, under the brand name of SVC Light®, is based on chain-link modular multilevel (MMC) voltage source converters (VSC), particularly adapted for power system applications. It is capable of providing high reactive ...

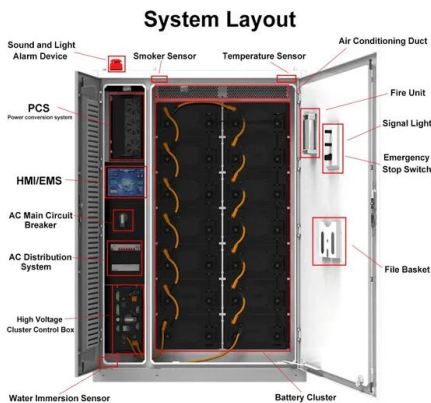


### Power Grids : Green Energy & Mobility : Hitachi Review

Energy-storage enhanced STATCOM is an all-in-one solution to address the stability and power quality challenges with grid integration of large-scale WPPs. With the energy storage system at the direct current (DC-) link and grid-forming control, the E-STATCOM can effectively support the system by offering:

## STATCOM

The use of these powerful components means the STATCOM's footprint can be extremely small, and Hitachi Energy has branded this high-performance STATCOM concept SVC Light®. Installing a STATCOM at one or more suitable points in a grid will increase power transfer capability by enhancing voltage stability and maintaining a smooth voltage



## STATCOM

Hitachi Energy STATCOM, under the brand name of SVC Light®, is based on chain-link modular multilevel (MMC) voltage source converters (VSC), particularly adapted for power system applications. It is capable of providing high reactive power in grids more or less unimpeded by suppressed voltages, and with a high dynamic response.

## STATCOM

System STATCOM, w tym elementy sterujące, elektronika zasilająca i jednostka chłodząca, są dostosowane do potrzeb klienta. Przetwornica PCS 6000. PCS 6000 STATCOM wykorzystuje zaawansowaną technologię IGCT, która została opracowana przez Hitachi Energy na podstawie sprawdzonego bipolarnego tranzystora półprzewodnikowego (GTO).



## STATCOM

El uso de estos potentes componentes significa que la huella de STATCOM puede ser extremadamente pequeña, y Hitachi Energy ha marcado este concepto de STATCOM de alto rendimiento SVC Light®. Instalar un STATCOM en uno o más puntos aptos de una red aumentará la capacidad de transferencia de



energía, mejorará la estabilidad de la tensión

## STATCOM

Hitachi Energy's offerings in the high power STATCOM field include SVC Light STATCOM as well as PCS 6000 STATCOM, where PCS 6000 STATCOM is applicable for unit ratings up to 40 Mvar and SVC Light STATCOM is applicable for ratings exceeding 40 Mvar.



## STATCOM

Die STATCOM-Lösungen von Hitachi Energy auf Basis von PCS 6000 stehen für hohe technische Leistung und wirtschaftlichen Betrieb. PCS 6000 ermöglicht es Kunden, die betriebliche Effizienz und Anlagenauslastung, hohe Zuverlässigkeit und Rentabilität zu maximieren, die Netzwerkstabilität zu erhöhen und die Stromqualität zu verbessern.

## STATCOM para energía distribuida

Plan 2030 de Hitachi Energy. Promover un futuro con energía sostenible para todos. Más información. Estudios de Caso. El nuevo STATCOM para la energía distribuida se une a nuestra cartera, si necesita una calidad de energía que mejore la confiabilidad y estabilidad de su operación. Marcamos todas las casillas.



## Sales Inquiry

Hitachi Energy verwendet Ihre über dieses Formular übermittelten personenbezogenen Daten, um Ihre Anfrage zu bearbeiten. Wenn Sie mehr darüber erfahren möchten, wie wir Ihre personenbezogenen Daten erfassen, verarbeiten und schützen, oder wenn Sie Ihre Rechte gemäß den geltenden Datenschutzgesetzen ausüben möchten, lesen Sie bitte unsere ...

## STATCOM

Combining STATCOM and classic SVC technologies. With high power semiconductors becoming commercially available, STATCOM (Static Synchronous Compensator) technology began being deployed in the late 1990s. Hitachi Energy STATCOM, under the brand name of SVC Light®, is based on chain-link modular multilevel (MMC) voltage source converters (VSC), particularly ...



## STATCOM

The STATCOM system including controls, power electronics and cooling unit are tailor made for fulfilling the customer specific requirements. PCS 6000 converter. The PCS 6000 STATCOM uses advanced IGCT technology (Integrated Gate Commutated Thyristor) that has been developed

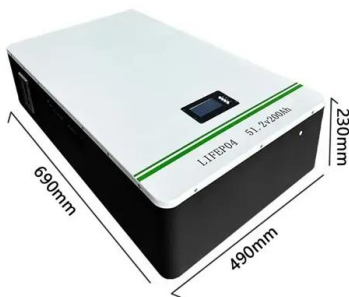
**18650** 3.7V  
RECHARGEABLE BATTERY Li-ion  
**2000mAh**



by Hitachi Energy from a proven bipolar semiconductor background (GTO).

## Static synchronous compensator

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## ???????? (STATCOM) , Hitachi Energy

???????? statcom ?????????? svc statcom ? pcs  
6000 statcom,?? pcs 6000 statcom ????? 40  
mvar????????,?? svc light statcom ????? 40  
mvar?? ...

## STATCOM - Hybrid , Hitachi Energy

Hitachi Energy STATCOM unter dem Markennamen SVC Light ® basiert auf modularen Multilevel (MMC)-Spannungsquellenwandlern (VSC) mit Kettengliedern, die speziell für

Stromversorgungsanwendungen angepasst sind. Es ist in der Lage, hohe Blindleistung in Netzen mehr oder weniger ungehindert durch unterdrückte Spannungen und mit einer hohen



## 70 years of HVDC: How power electronics are shaping the future of energy

As the demand for renewable energy surges, power electronics, such as STATCOM, Enhanced-STATCOM and energy storage solutions, coupled with interconnectors between regions and countries, ensure grid security and reliability as both system voltage and frequency can be stabilized effectively in varying weather conditions.

## ???????? (STATCOM) , Hitachi Energy

???????? statcom ?????????? svc statcom ? pcs  
6000 statcom,?? pcs 6000 statcom ????? 40  
mvar????????,?? svc light statcom ????? 40  
mvar???????



## Hitachi Energy and SP Energy Networks to boost renewable energy ...

Static synchronous compensator (STATCOM) continuously provides variable reactive power in



response to voltage variations, supporting the stability of the grid. The MACH Control System acts as the brain of SVC Light using state-of-the-art computers, microcontrollers and digital signal processors. About Hitachi Energy

## STATCOM

Hitachi Energy's STATCOM solutions based on PCS 6000 stands for high technical performance and economic operation. PCS 6000 enables customers to maximize operational efficiency and asset utilization, high reliability and profitability, increases network ...



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## STATCOM

Der PCS 6000 STATCOM nutzt die fortschrittliche IGCT-Technologie (Integrierter gate-kommutierter Thyristor), die von Hitachi Energy auf der Grundlage bewährter bipolarer Halbleiter (GTO) entwickelt wurde. Die PCS 6000-Umrichter basieren auf dem IGCT PEBB (leistungselektronischen Baustein).



## Contact Us

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