



Trina Storage

- A Trina Solar business unit
- 20+ years of solar experience
- Innovation
- Safety
- Products are 100% tested
- Flexible solutions
- International presence
- Local market expertise

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Leading the Energy Transition through Storage



www.trinasolar.com/en-glb/trina-storage

The world's energy infrastructure is undergoing a rapid transformation. Globally, efforts are being made to reduce CO2 emissions. Renewable energy generation, including from solar power plants, is the most economic and sustainable form of power generation across most parts of the world. It represents a free, unlimited and environmentally friendly source of energy.

However, the global expansion of solar energy generation capacity is limited due to local (grid) constraints and intermittent generation. The rapid growth of both solar and wind energy generation capacity over the last 10 to 20 years has forced the sectors to think of new ways to meet the growing need for flexibility. Energy storage is the crucial missing link between generation and demand.



The generation of solar energy will grow exponentially in the coming years. As a result, we will also continue to see rising demand for energy storage solutions. BloombergNEF predicts the global utility and C&I energy storage markets will attract more than \$560 billion in investment by 2040.

The future of energy lies in flexible storage solutions that meet the needs of customers by balancing power generation with demand. Until now, energy storage has been the missing piece of the energy transition puzzle.



Our energy storage systems solutions

Trina Storage is a business unit of Trina Solar, a company with over 20 years of solar experience. Supported by a Tier-1 supply chain, Trina Storage provides highly-scalable, easy-to-install energy storage solutions.

With an in-depth understanding of the technical requirements, Trina Storage designs flexible commercial and industrial solutions that meet unique customer needs for the generation, transmission and distribution of solar energy.

Trina Storage builds on a strong solar heritage to deliver energy storage solutions at scale. Our mission is to lead the transition to renewable energy through cost-effective and high-quality storage. We're dedicated to providing "Solar for Everyone".

Trina Storage provides the most reliable energy storage platform on the market - from consultancy and hardware to software and service.

Why storage by Trina Storage?



Experience in solar
Building on 20+ years of experience in solar, Trina Storage is the partner of choice for simple, safe and scalable energy storage.



Global & local presence
Trina Storage is able to scale projects fast across a spectrum of 100+ countries as your needs change and evolve. It also has local teams on the ground that are experienced in solving specific local challenges.



Flexible solution
Trina Storage carefully analyses your technical challenges before designing a flexible solution that achieves sustainability while creating new business and investment opportunities.



Bankable
Trina was ranked top bankable module supplier by BloombergNEF four times in a row (2015-2019).



Low Costs
Our established Tier 1 product supply chain guarantees an efficient production process which in turn enables us to provide highly cost-effective storage solutions.



Expertise & Quality
Our experienced sales and engineering teams have deep commercial and technical expertise. They provide local project management and consulting as well as excellent service and support. Our solutions use high-quality components from reliable, ISO-certified Tier 1 suppliers.



Efficiency
We only use highly-efficient components. Liquid-cooled batteries are just one of many options we provide. With our innovative technology and fast processes, from customer

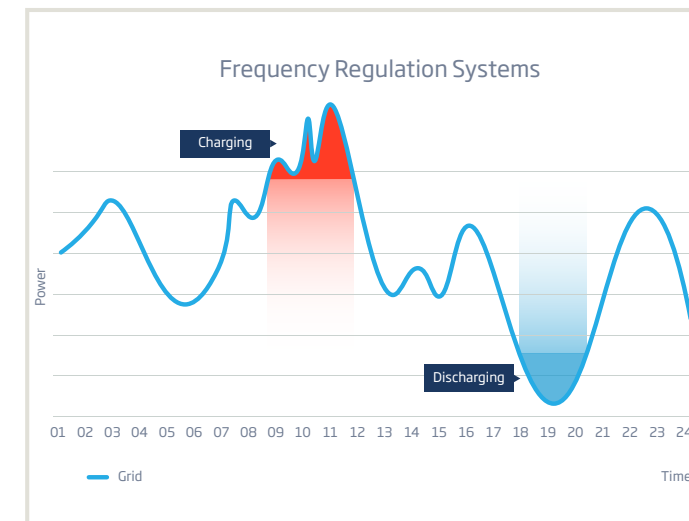


Safety
We provide storage at the highest safety standards. We only use safe components such as state-of-the-art batteries. As a result, we have an excellent safety record. Every product we deploy has been comprehensively tested by the supplier.

Standalone (Grid Service)

High efficiency, standalone utility-scale solutions for ultra-fast grid services, T&D deferral and market pooled assets.

- Tier 1 products delivered (hardware, software, components)
- Smart design with an optimized and cost-efficient solution
- Flexible warranty package
- Minimal response time thanks to advanced power plant controlling
- Instantaneous active and reactive power supply
- Trustworthy, expert partner network and strong supply chain
- Flexible solutions designed for each customer's needs



Frequency Regulation System

Frequency regulation is known as a crucial method for stable power grid operation:

- Grid overfrequency (when generation is higher than demand)**
Inverter power output is curtailed and energy is stored through charging batteries
- Grid underfrequency (when generation is lower than demand)**
Inverter power output is increased by discharging the batteries and injecting more power to the grid

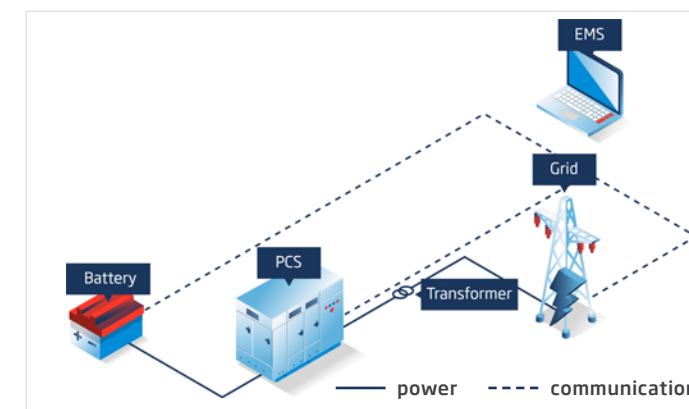
Gas Peaker Replacement

Batteries are a good alternative when it comes to managing grid peaks and provide many benefits:

- Cost efficiencies
- CO2 emission avoidance
- Better power quality

Transmission & Distribution Deferral

A small amount of storage can result in the delay or avoidance of a costly T&D upgrade. New RE assets lead to a change in power flows in distribution networks, allowing greater use of distribution networks. Energy Storage also prevent high costs generated by network upgrades.



Standalone

- Battery is connected to the grid via PCS, transformer and substation
- Battery capacity can be used to provide ancillary services such as firm frequency response (FFR), balancing mechanism to grid providers
- Highly efficient power plant controller guarantees fast response times complying with the highest grid standards