



## 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

## Regional Headquarters

### Europe

Werner-Eckert-Strasse 4  
81829 Munich  
Germany

P +49 89 122849250

E [TrinaStorage@trinasolar.com](mailto:TrinaStorage@trinasolar.com)

### Americas

7100 Stevenson Blvd Fremont  
CA 94538  
USA

P +1 800 696 7114

E [TrinaStorage@trinasolar.com](mailto:TrinaStorage@trinasolar.com)

### APAC

New District Changzhou  
No.2 Tianhe Road, Trina PV Industrial Park  
Jiangsu 213031  
China

P +86 130 000 000

E [TrinaStorage@trinasolar.com](mailto:TrinaStorage@trinasolar.com)

## Leading the Energy Transition through Storage

 [facebook.com/Trina-Storage](https://facebook.com/Trina-Storage)

 [linkedin.com/company/trina-solar](https://linkedin.com/company/trina-solar)

[www.trinasolar.com/en-glb/trina-storage](http://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 analyzes 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.

# Other applications

Modular and easy-to-install solution with minimum onsite work. High performance, high availability systems for electricity bill savings and minimum downtime for industrial customers; Optimized off grid battery storage systems for Microgrids.



## Microgrid

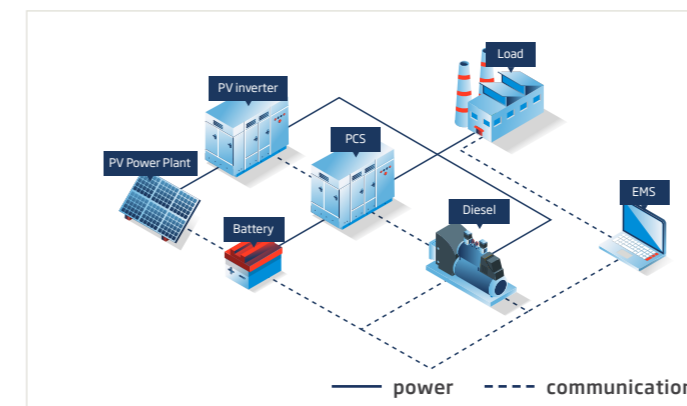


- Off-grid and grid-connected Microgrids
- Industrial power supply is independent from oil price
- Increasing RE penetration and sustainability
- Ramp-up control for diesel allows the switching off of diesel generators in times of renewable energy generation
- Site resiliency
- Hedging against possible emission penalties
- Green and sustainable power supply
- Overcome planned and unplanned power outages

## Large Industrial

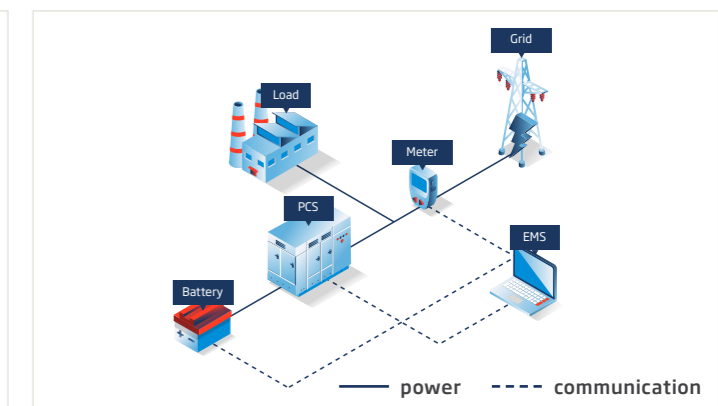


- Demand response
- Site resiliency
- Lower demand charges
- Potential addition of PV
- Smart design with an optimized and cost-efficient solution
- Tier 1 hardware and software
- Trustworthy, expert partner network and strong supply chain
- Flexible solutions designed for each customer's needs



### Microgrid

- Grid forming PCS allows the power supply by only Battery, Battery+PV or both in parallel with Diesel
- Ramp-rate control allows Diesel to be turned off in times of high renewable penetration and to be switched on when needed
- Dispatch strategy controlled by advanced Energy Management System (EMS)



### Large Industrial

- Battery is being charged from the grid in times of lower load consumption
- When load consumption increases, battery can supply power to the load in order to limit power consumption from grid