

The surge in battery production demand is projected to require more than 200 gigafactories worldwide. To compete, companies across the battery value chain must tackle multiple challenges that can impede growth, including shortages of raw materials, manufacturing equipment, and skilled labor while addressing increasing sustainability concerns, including energy efficiency, ...

As 2022 comes to a close, the energy transition seems more disorderly than ever. A world economy shaken by a global pandemic and the surging inflation that has accompanied the subsequent recovery has had to contend with a tragic conflict in Ukraine and its aftermath of human suffering, rising energy costs, and declining energy security.

Some of the regions with the heaviest use of energy have extra incentives for pursuing alternatives to traditional energy. In Europe, the incentive stems from an energy crisis. In the United States, it comes courtesy of the Inflation Reduction Act, a 2022 law that allocates \$370 billion to clean-energy investments.

Com a aproximação, a passos largos, da próxima fase das metas do Acordo de Paris, governos e organizações de toda parte estão buscando aumentar a adoção de fontes de energia renováveis. Algumas das regiões que mais usam energia têm incentivos adicionais para buscar alternativas à energia tradicional. Na Europa, o incentivo vem de uma crise energética.

A good example is South Korea, which has taken advantage of its expertise in battery manufacturing to become a leader in grid-scale energy storage, capturing 50 percent of the global market in 2018 with support from ...

A new industry report with insights and analysis by McKinsey shows how TES, along with other forms of long-duration energy storage (LDES), can provide "clean" flexibility by storing excess energy (electrical or thermal) at times of peak supply and releasing it as heat when demand requires. It shows that when heat cannot be directly ...

Estos desarrollos están impulsando el mercado de los sistemas de almacenamiento de energía en baterías (battery energy storage systems, o BESS). El almacenamiento en baterías es un habilitador esencial de la ...

The growth of battery storage in the power sector has attracted a great deal of attention in the industry and media. Much of that attention focuses on utility-scale batteries and on batteries for commercial and industrial customers. While these larger batteries are critical segments of the energy-storage market, the rapid growth of

