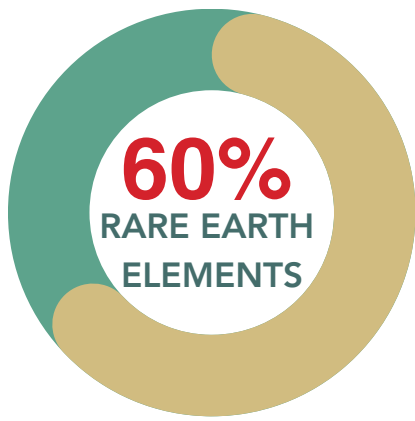




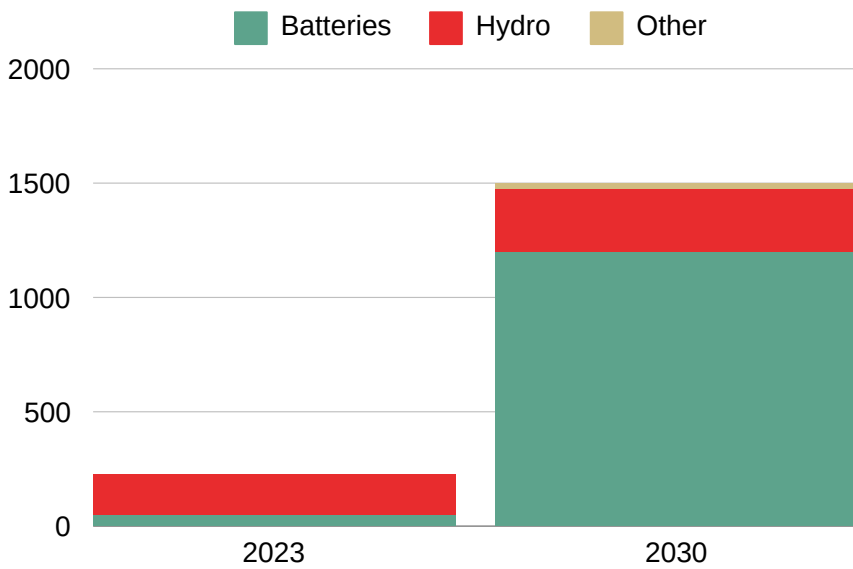
STRENGTHENING THE ENERGY GRID FOR A RENEWABLE FUTURE

Reliable supply chains are essential for sourcing critical materials and components to upgrade aging grid infrastructure.



are refined in one country, creating bottlenecks in global supply chains.

DEPLOYING ENERGY STORAGE SOLUTIONS TO STABILIZE THE GRID




According to the IEA, achieving global climate goals necessitates a x6 increase in energy storage capacity by 2030, with battery storage contributing 90%.

ENABLING GRID DECENTRALIZATION FOR RESILIENCE AND ACCESS


Localized Generation



Microgrids



Energy Storage



Community Empowerment

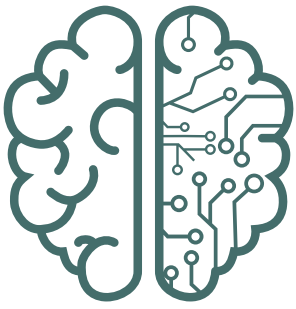


Decentralized systems like microgrids reduce strain, improve reliability & bring renewable energy to remote regions.

Decentralized grids can reduce grid failure risks during extreme weather.



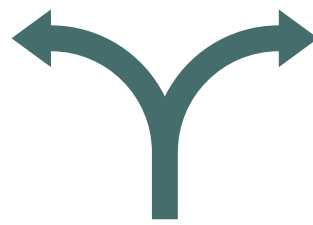
IMPLEMENTING SMART GRID TECHNOLOGIES FOR ENHANCED EFFICIENCY



Deploy AI to forecast, optimize, balance & supply from intermittent renewables.



Equip with sensors & IoT devices to monitor flow, detect outages & ensure integration.



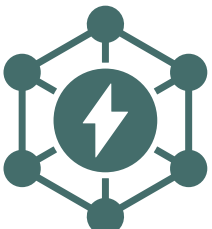
Transform into dynamic systems that allow energy to flow both to & from end-users.



Implement demand response systems that adjust during peak times to stabilize grids.

EFFICIENCY GAINS WITH SMART GRID TECHNOLOGIES

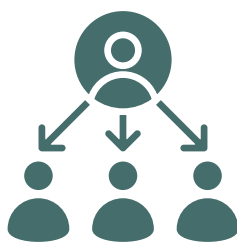
10%-15%



STRENGTHENING SUPPLY CHAIN RESILIENCE



Pinpoint risks, such as reliance on single regions.



Develop partnerships across regions.



Ensure standards are met with validation & audits.



Monitor market volatility, risks, & bottlenecks.