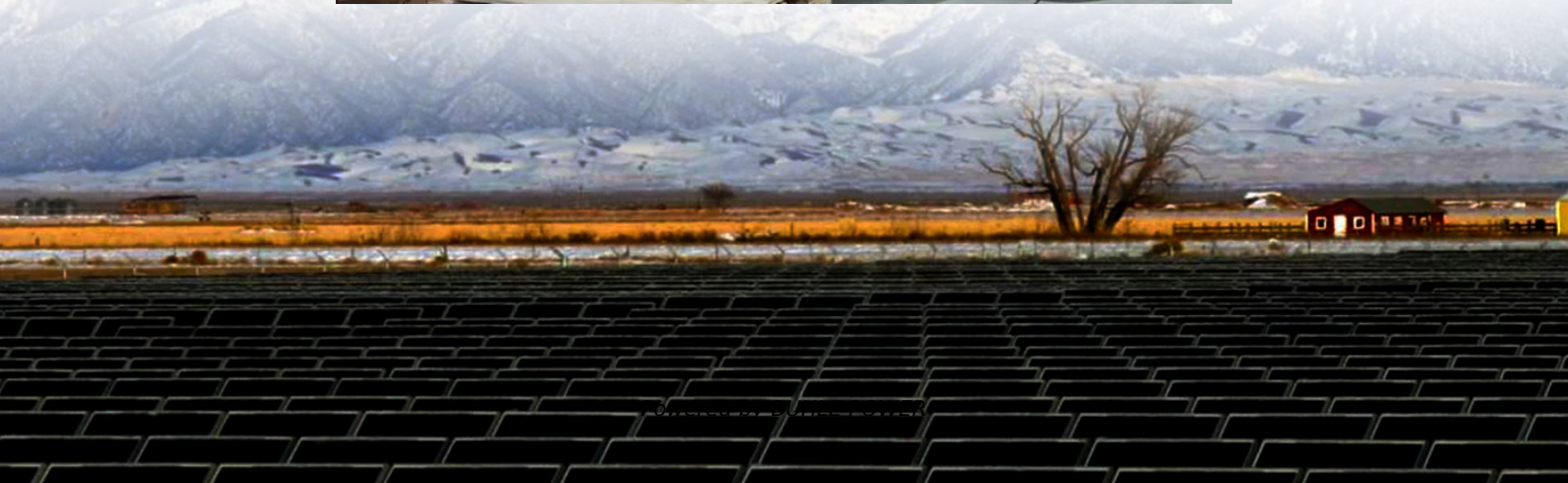
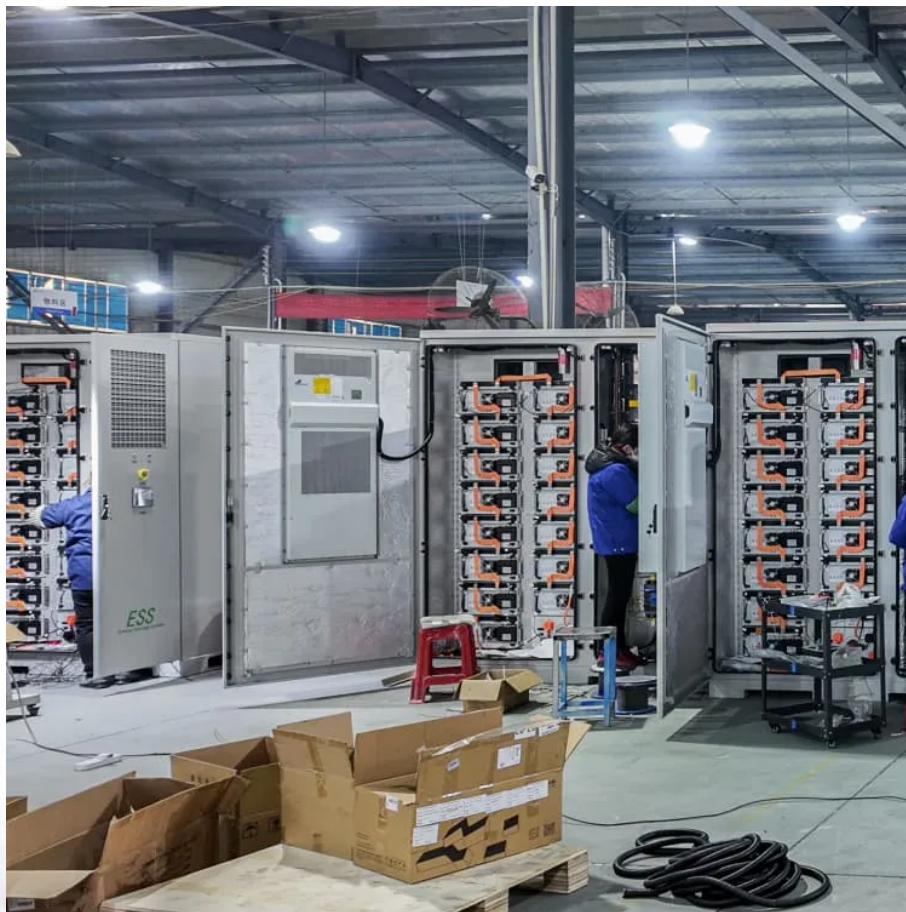


# Portuguese Mobile Energy Storage Container Two-Way Charging





## Overview

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How much power does Portugal need in 2023?

For the demand, the Portuguese electricity system reports 50.7 TWh in 2023 and an estimated increase to 87 TWh in 2030, which includes e-mobility with 7.8 TWh and hydrogen production with 19.5 TWh, on the top of the regular load of 59.7 TWh. Also, a battery storage system with 2 GW of power and 10 GWh of storage capacity was considered.

Do electrolyzers and electric vehicles affect the power system in Portugal?

To better compare the impacts of electrolyzers (ELY) and electric vehicles (EVs) targets on the Portuguese power system, elasticities were calculated for each variable based on the 90 % target scenario for ELY and EV deployment, that means a 10 % reduction. These results are shown in Fig. 4. Fig. 4.

Do flexible electrolyzers and EV charging reduce pressure on energy storage systems?

Simulations conducted using the SWHORD simulator indicate that the flexible operation of electrolyzers and EV charging significantly alleviates the pressure on energy storage systems, including pumped hydro storage and battery energy storage (BESS).



## Portuguese Mobile Energy Storage Container Two-Way Charging

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