

On-site Solar Installation meets Lead Battery Storage

Dr. Holger Fricke | CBI Webinar during EU sustainability week | 04th of October 2021

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The Mission

- Expansion of production capacity in Exide plant Castanheira
- Production of VRLA AGM batteries for NP applications
- Increasing energy demand
- Effective and sustainable solution needed
- Partnership for future business

On-site Solar Installation meets Lead Battery Storage Solution - Exide Portugal and EDP

Solution - Exide Portugal and EDP



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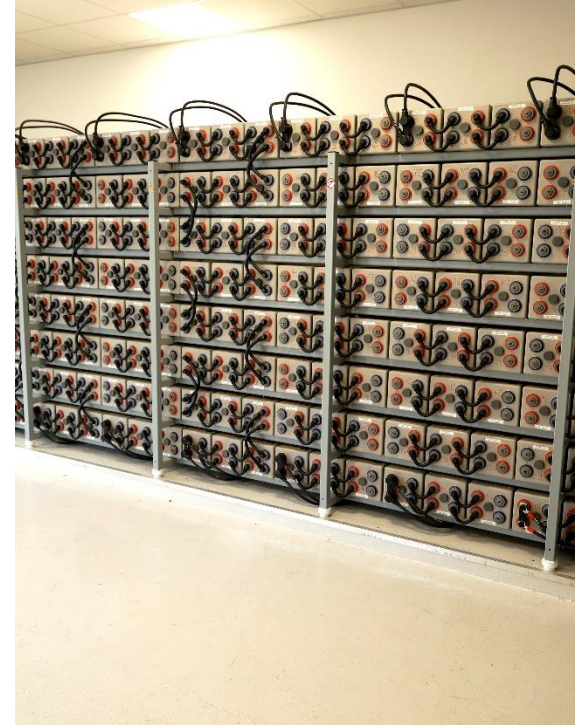
Key facts

- Installations in Azambuja and Castanheira do Ribatejo
- Combined capacity of 4.5 MWp across the production and recycling facilities
- Energy produced would supply over 1,500 homes
- 11,250 photovoltaic panels and 70 inverters
- Bank of Exide Sonnenschein gel batteries provides 500 kWh of storage

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Advanced Lead Battery Energy Storage

- A600 Sonnenschein gel proven over decades
- Tubular plate design, robust, long life
- Gel technology is maintenance-free
- VRLA + BMS -> Advanced Lead Battery Energy storage
- Powering a „green“ social building during night



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Benefits & Outlook

- Carbon emissions reduced by more than 20% across both sites
- Improved energy management
- Further PV projects rolled-out in other Exide locations
- Castanheira facilities and battery storage room used as a show-room
- Exide gives a viable business case for PV combined with large scale advanced lead battery storage



Thank you