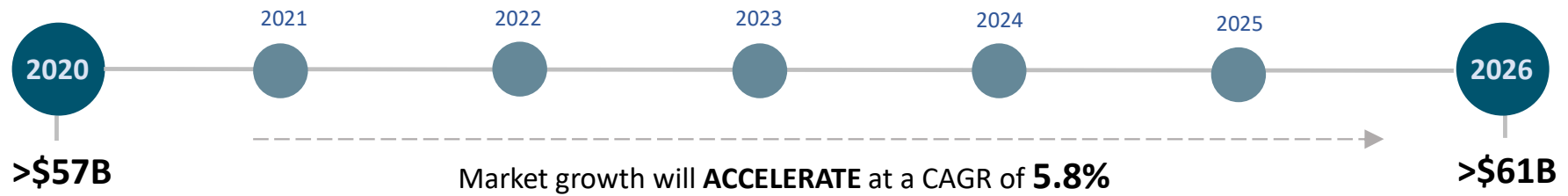




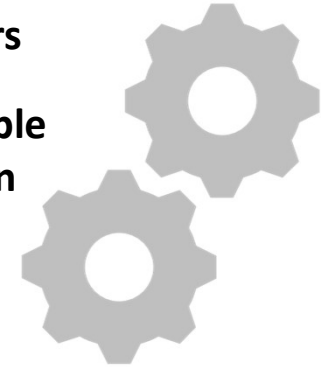
LEAD 101 ON RENEWABLE ENERGY



LEAD-ACID BATTERY MARKET WORTH USD 61 BILLION BY 2026



One of the **key drivers** for this market will be **Focus on renewable energy generation**



Lead Acid Battery Market size exceeded USD 50 billion in 2020 and annual installation is **anticipated to exceed 1 billion units by 2027.**



THE ROLE OF LEAD BATTERIES IN THE GREEN TRANSITION



Around €2.5 million per year is being invested by the industry into making lead battery performance and lifetime five times better⁵



Lead batteries also have a very low battery system cost with the average in the range of €130-180 kWh.⁶



99% of lead batteries are collected and recycled at end-of-life; they have lowest environmental impact of all battery technologies.⁷



Lead batteries represent over 70% of the rechargeable battery market.⁸



90% of emergency power sources and telecoms use lead batteries.⁹

Relative Change in Demand for Minerals in Energy Technologies (without storage) Through 2050 under RTS, Ref, B2DS and Remap Compared to Base Scenario



The percentage of expected change from the base scenario in supplying electricity generation technologies only.

In REmap scenario, lead demand is expected to increase by 244% by 2050 from the base scenario.

IRENA's REmap programme determines the potential for countries, regions and the world to scale up renewables

Note: Base scenario = 4-degree scenario, B2DS = beyond 2-degree scenario, IEA = International Energy Agency, IRENA = International Renewable Energy Agency, Ref = reference scenario, REmap = renewable energy roadmap scenario; RTS = reference technology scenario.