

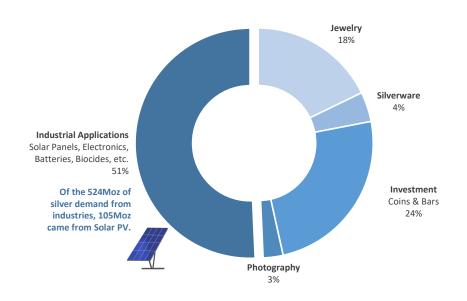
SILVER 101 ON RENEWABLE ENERGY





Silver is widely know as a precious metal, but **more** than half of its demand comes from industries

Industrial Buyers Drive More than 50% of Silver Demand



As global efforts to **decarbonize** and **electrify** gather steam, we expect three areas to contribute significantly to **silver consumption**:

- 1. The automotive sector and electric vehicles (EV), including the associated infrastructure;
- 2. The solar energy industry; and
- 3. 5G (fifth generation technology) broadband cellular networks.

Silver's superior electrical properties make it hard to replace across a wide and growing range of automotive applications, many of which are critical to safety and to meeting increased environmental standards.

Source: World Silver Survey, 2021

Source: Sprott Silver Report - Silver's Clean Energy Future

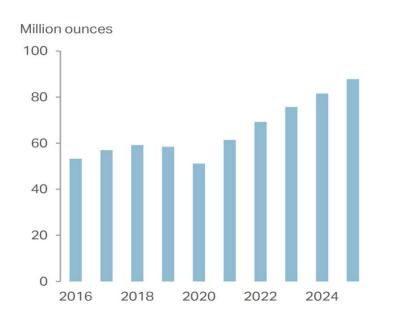


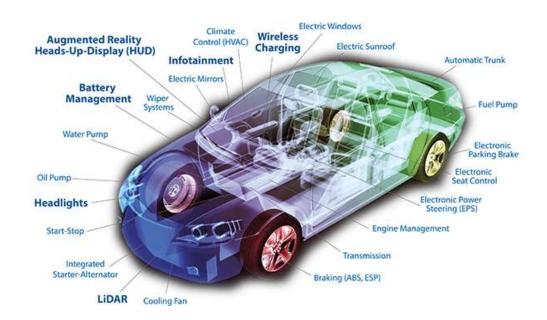
SILVER'S GROWING ROLE IN THE AUTOMOTIVE SECTOR

Battery electric vehicles contain between 25-50 grams of silver, and internal combustion engine vehicles contain between 15-28 grams

Silver Automotive Demand

Silver Uses in Vehicles' Electronic Systems

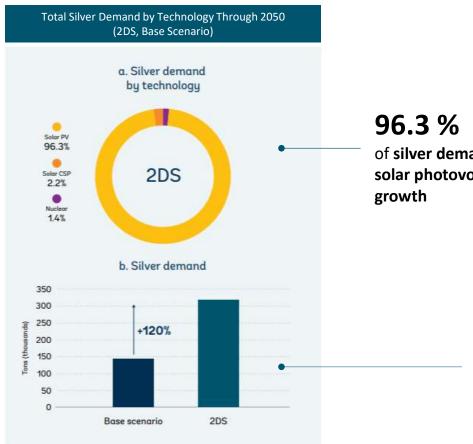




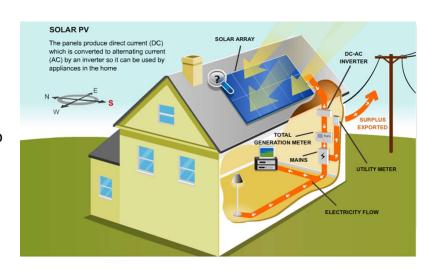
Source: Metals Focus

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SILVER DEMAND TO HELP DECARBONIZE THE GLOBAL ECONOMY



96.3 % of silver demand is linked to solar photovoltaic (PV) growth



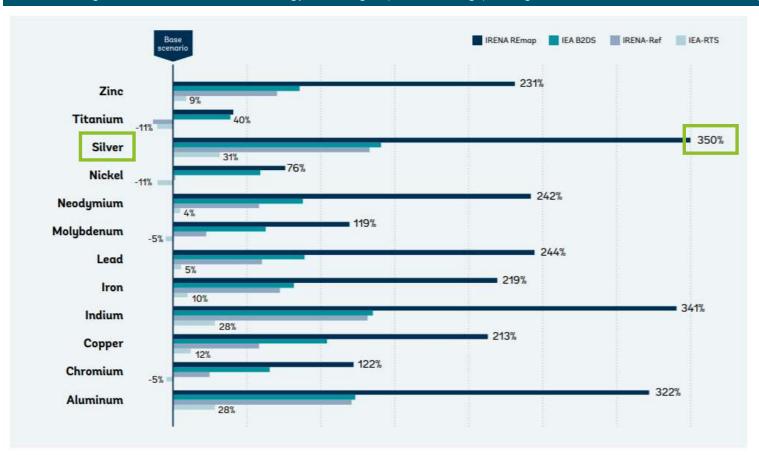
Under a 2DS, silver demand is expected to double, growing from 1.4 thousand tons in 2017 to nearly 3.2 thousand tons in 2050.

Note: 2DS = 2-degree scenario, CSP = concentrated solar power, PV = photovoltaic.

Source: World Bank Group - Minerals for Climate Action, The Mineral Intensity of the Clean Energy Transition

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, silver demand is expected to increase by 350% 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.

Source: World Bank Group - Minerals for Climate Action, The Mineral Intensity of the Clean Energy Transition