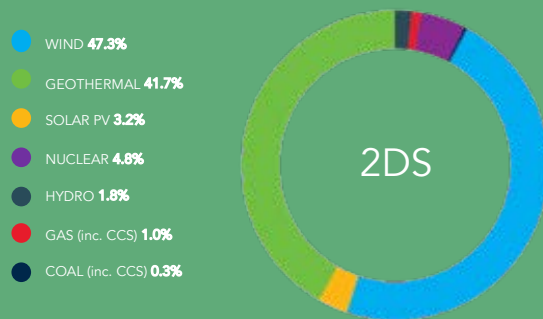


# MOLYBDENUM: GREEN ENERGY

## GREEN FUTURE

- ✓ **Green Energy** transition to increase global demand of molybdenum
- ✓ Government infrastructure-projects aiming to promote economic growth will use molybdenum
- ✓ **World Bank (2020)** estimates **119% demand increase for molybdenum through 2050** under IRENA REmap scenario from energy technologies only
- ✓ **International Energy Agency (2021)** estimate **290% demand increase for molybdenum through 2040** under SDS scenario for renewables
- ✓ **Molybdenum** named one of the six cross cutting **critical minerals by the World Bank in 2020** that will be used in all technologies in the green energy transition
- ✓ The Paris Agreement signed by 196 countries, aims to keep global temperature rise this century below 2 degrees Celsius scenario (2DS)

## TOTAL MOLYBDENUM DEMAND BY ENERGY TECHNOLOGY THROUGH 2050 UNDER 2DS<sup>(1)</sup>



Note: 2DS = 2-degree scenario, CCS = carbon capture and storage, CSP = concentrated solar power.  
PV = photovoltaic.

Source: (1) Minerals for Climate Action: The Mineral Intensity of the Clean Energy Transition, 2020 World Bank Group, Figure ES.2 Total Molybdenum Demand by Energy Technology Through 2050 Under 2DS