

27^ο Ετήσιο Εθνικό Συνέδριο «Ενέργεια και Ανάπτυξη»

oneglobal[®]

Broking that revolves around you

Renewables

Richard Scott- Partner

Q4 2023

Renewables

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Coverages

Worldwide for All Risks from Development through to Operational

- Marine Cargo / Port Risks
- Delay in Start Up
- Construction / Erection All Risks
- Advance Loss of Profit
- Maintenance / Testing and Commissioning
- Operational all risks
- Machinery Breakdown
- Business Interruption
- Contingent Business Interruption
- Natural Catastrophe
- Third Party Liability
- Directors and Officers
- Sabotage and Terrorism
- Cyber

Sectors

- Onshore Wind
- Offshore Wind
- Solar Energy
- BESS
- Geothermal
- Hydro Electric
- Hydrogen
- Biomass and Waste to Energy



Oneglobal is a London headquartered, commercial insurance and reinsurance broker.

Set up with a singular focus of improving the way in which businesses around the world manage risk via insurance and its associated risk management products.

Owned by the renowned financial services investment firm JC Flowers, Oneglobal was established from the merger of SSL and Endeavour in 2018.

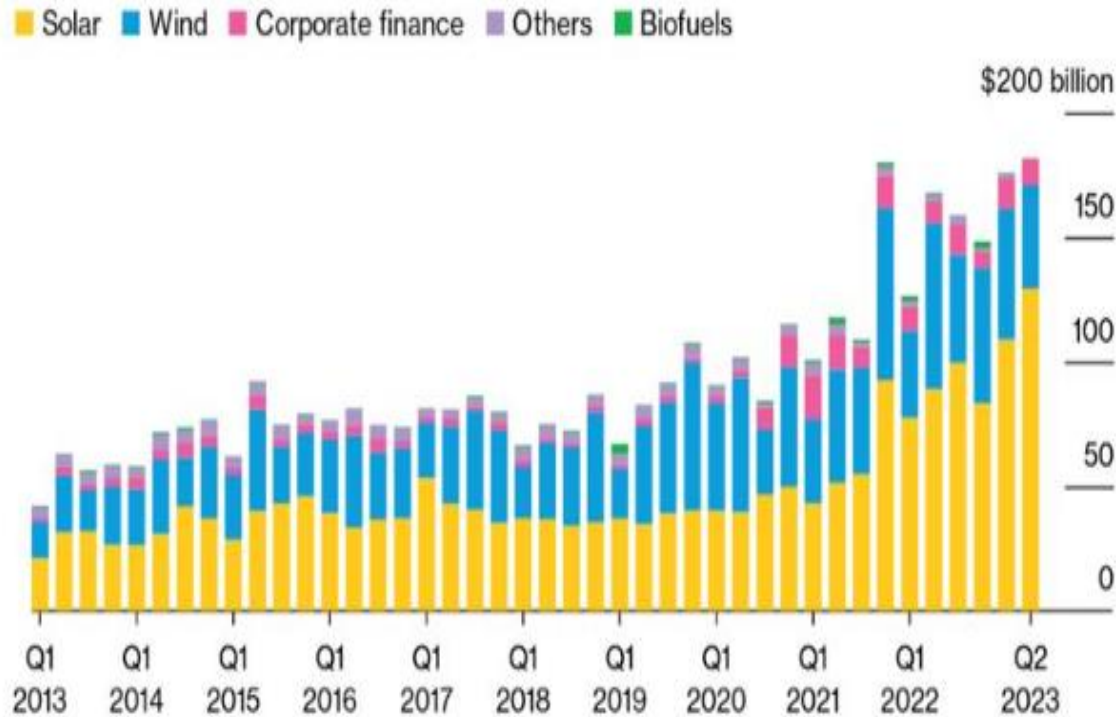
Our Renewables team is seeking to reinvigorate the broking experience working with global insurance markets and leading technology providers to embrace the challenges of the rapidly evolving and exciting sector.

In Q1 2023 Oneglobal and PENCO S.A. announced a Strategic Business Co-operation to bring together global strength with a historic and respected presence in the Greek market.

PENCO
INSURANCE BROKERS

Renewable Energy Investment Hit Record \$358 Billion in 1H 2023

Global quarterly investment in renewable energy



Source: BloombergNEF

BloombergNEF

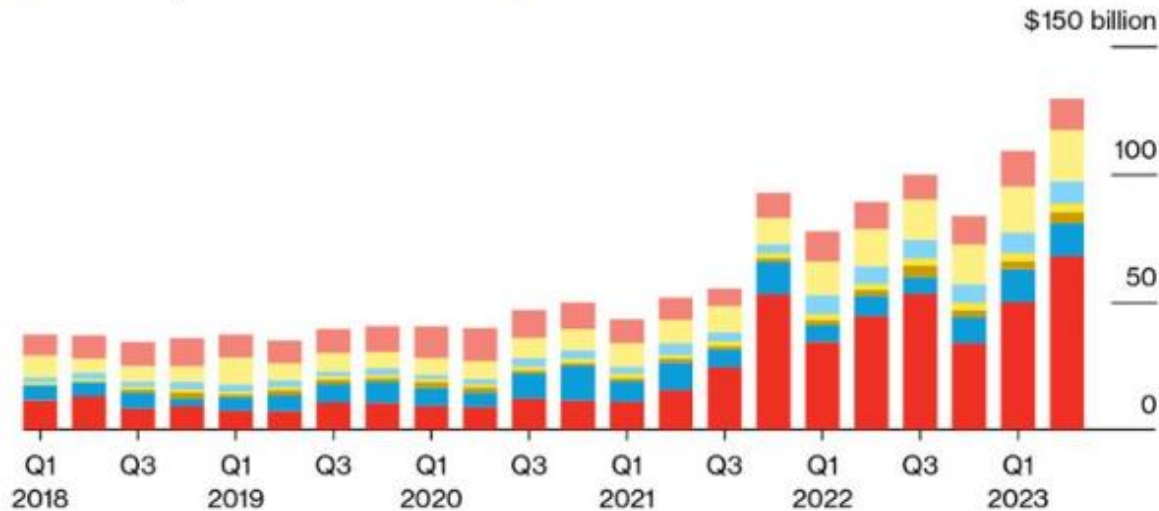
- A 76% up lift in financing and project pipeline is required to align with a net zero pathway
- USD 8.03 trillion per annum required 2023 - 2030 to keep global warming < 2degrees centigrade

Solar Investment keeps breaking records

Solar Investment Reached New Highs in Both 1Q and 2Q 2023

Investment in new large- and small-scale solar assets by region

■ China ■ US ■ Spain ■ Germany ■ Other Americas
■ Other Europe, Middle East and Africa ■ Other Asia Pacific



Source: BloombergNEF

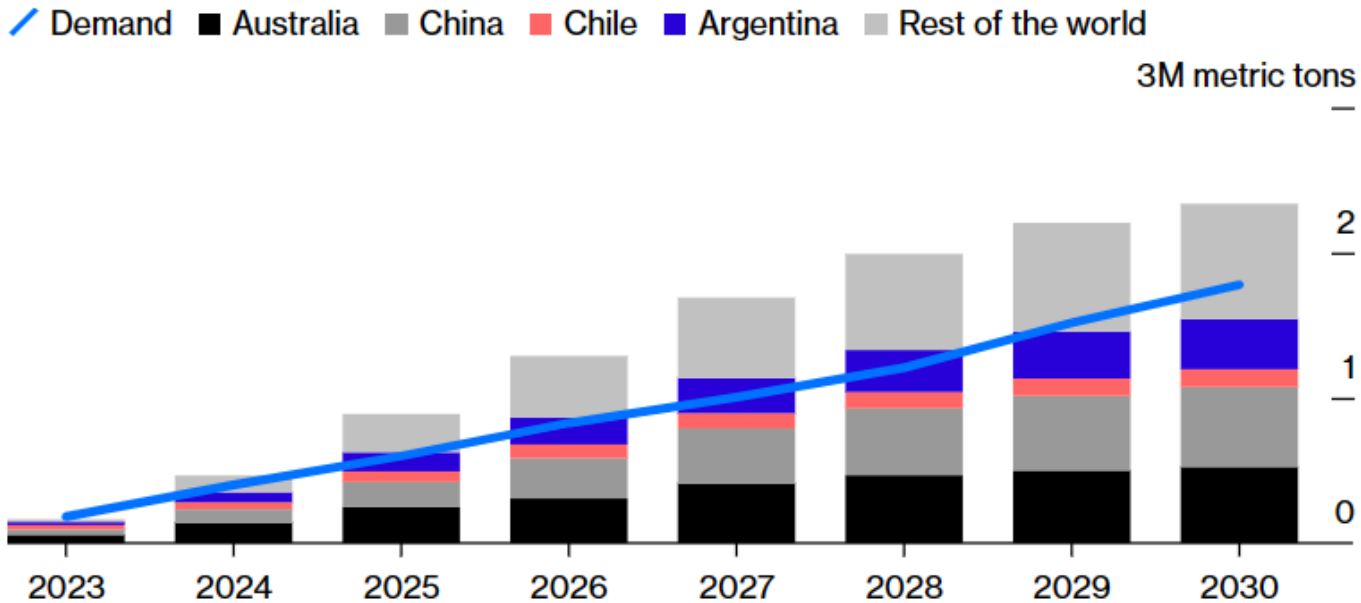
Note: Includes asset finance for large-scale solar, as well as spending on small-scale solar.

BloombergNEF

- 66% of global investments relate to large and small scale solar generating a 43% increase in investment versus 2022

Feast and Famine

Without Australian supplies, a surplus of lithium that EV makers are counting on may not materialize

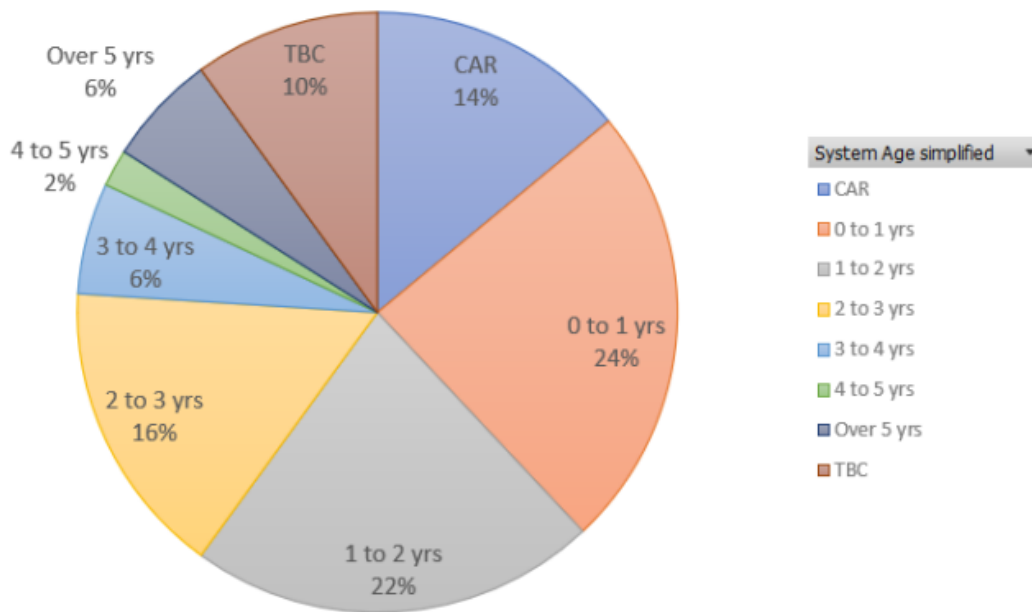


Source: BloombergNEF

Note: Shows change in annual lithium-carbonate equivalent supply and demand relative to 2022.

Global Loss Trends

System Age of BESS on Failure

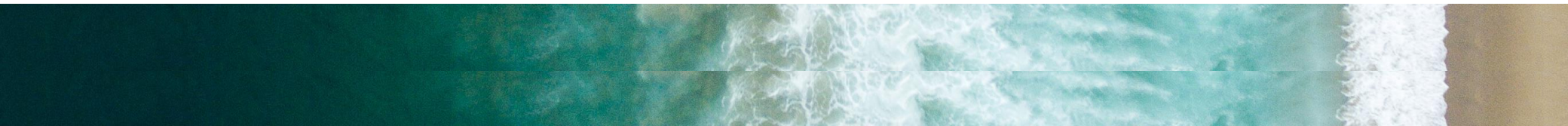


- Most manufacturers have had failures.
- 14% of losses occurred during CAR period, mostly during commissioning.
- 46% of losses occurred within first 2 years of operation. (60% if we include CAR)
- Operating application does not appear to influence date of loss. (*e.g frequency regulation / demand shift / co-location*)

* Based on a sample size of 50 losses occurring between 2012 and 2022

$$P = 0.5 C_p \rho \pi R^2 V^3$$

Power (watts) = $0.5 C_p \rho \pi R^2 V^3$, where C_p is the coefficient of performance (efficiency factor, in percent), ρ is air density (in kg/m³), R is the blade length (in meters) and V is the wind speed (in meters per second).



An aerial photograph of a lake with several small, forested islands. The water is a vibrant turquoise color, and the islands are covered in lush green vegetation. A small boat is visible in the lower right portion of the lake. A dark purple rectangular box is overlaid in the center of the image, containing the text "Thank you oneglobal®".

Thank you
oneglobal®