

Bromine-based energy storage



The International Bromine Council

A key enabler for renewable energy resources



Global population is expected to grow by two billion people to reach 9.7 billion by 2050.

An almost twofold increase in global energy demand is expected by 2060¹.

As the supply of electricity from renewable sources grows, demand for energy storage will increase to make sure that electricity is available when it is needed.

A great solution for storing energy!

Releases energy continuously up to 10 hours or more at a high rate of discharge

Decouples power and energy
offering flexibility for applications that require either high power or high energy

Provides increased storage capacity

Recharges easily and quickly

Recharges over 10,000 times

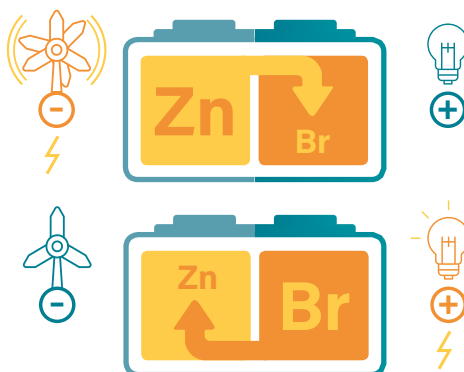
Energy storage today accounts for only **5%** of the total installed capacity²

Wind and solar energy will account for 20% to 39% of power generation by 2060, compared to the current 4%.³

How does it work?

Typical bromine-based energy storage technologies are rechargeable batteries fuelled by the reaction between zinc and bromide usually consisting of one or two tanks.

Energy is generated when the solutions flow from one tank to the other.



¹ Source: World Energy Council, 2016 - World Energy Scenarios

² Source: EU Commission DG Energy, The future role and challenges of Energy Storage

³ Source: International Energy Agency, 2017 - Tracking Progress: Energy storage