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## Five Must-Know Facts about Aluminum



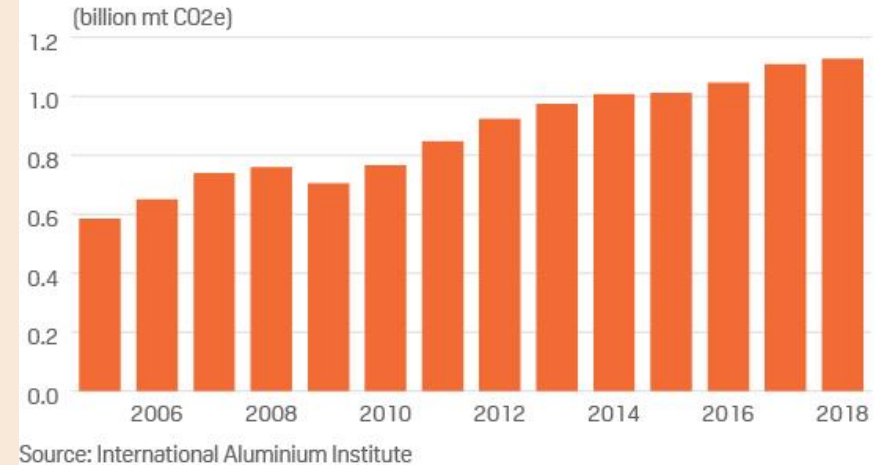
The use of aluminum is ubiquitous. It encompasses everything from renewable energy technology to consumer products.

# Fact #1

**Heavy industrial sectors including aluminum, steel and cement account for about 17% of all emissions**

## Aluminum production is responsible for 2% of global greenhouse gas emissions

GLOBAL ALUMINUM SECTOR EMISSIONS



- About 70% of aluminum emissions stem from the use of electricity to power the smelters.
- The electrochemical process that creates the aluminum accounts for another 20%.

# Fact #2

**Virtually every sector of the clean energy economy relies on the production of cost-effective aluminum**

## Achieving net-zero is heavily dependent on aluminum

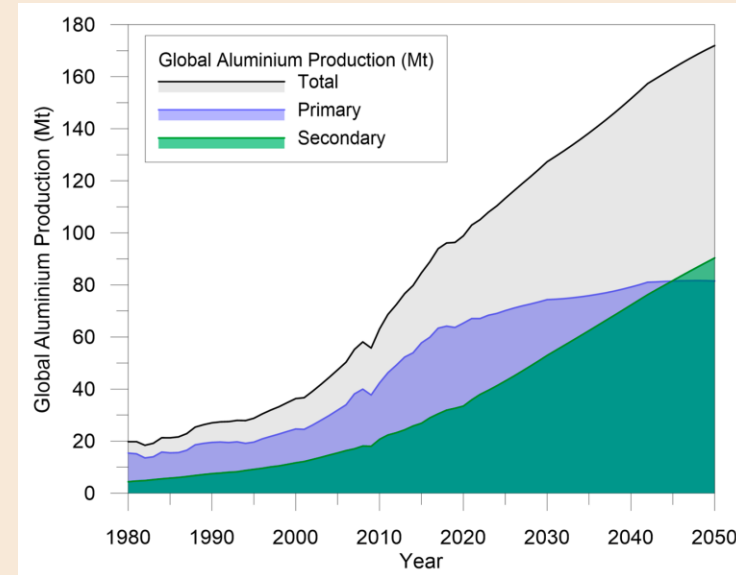


- Key clean energy components including solar panels, wind turbines, electric vehicles, heat pumps and power cables all rely on aluminum.

# Fact #3

**Business intelligence analyst CRU International projects aluminum production will need to increase to 119.5 million metric tons by 2030**

**Global demand for aluminum is expected to increase by as much as 40% by 2030**



- The usual suspects will drive demand: transportation, construction, packaging and the electrical sectors.

# Fact #4

**In the face of growing competition from China Alcoa, Century Aluminum, and Magnitude 7 Metals have reduced their U.S. footprint**

Once the leader in aluminum production, the U.S. now has only four operating smelters



- In the last 18 months three U.S. plants responsible for over half of domestic capacity for primary or non-recycled aluminum have scaled back.

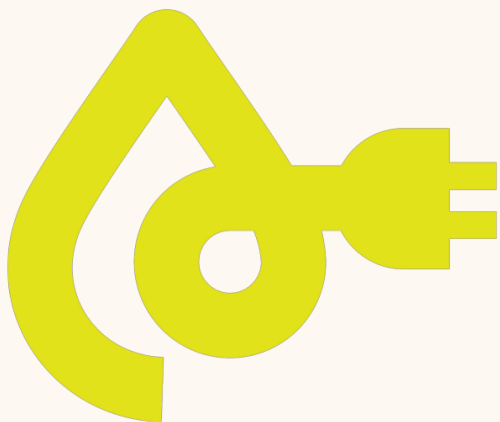
# Fact #5

**Aluminum is yet another critical area where the world is overly dependent on China**

## China dominates global aluminum production



- According to the Investing News Network, China now produces 58% of the world's aluminum.
- That's 10 times more than the next largest producer – India.



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## Unbiased and Unfiltered

- An honest assessment of the climate change effort.
- I cover what's working – but more important - the issues/roadblocks that the industry would prefer to ignore.
- A must-read for anyone with a desire to understand what's really going on with renewable energy and climate change.



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