# is Beyond Critical



Copper has always been

chartered to enhance and expand the copper markets in North America.

Copper Use

11,000 Years of

## Ever since humans discovered it in 9,000 BC, copper has helped advance civilization in various ways.

8700 BC Stone age societies hammered native copper



2750 BC

Ancient Egyptians used

copper for pipes and

plumbing.



### 700-600 BC The first rounded copper

coins were used in Lydia

was also used to build

temple roofs.

sterilization and surgical

tools was documented in

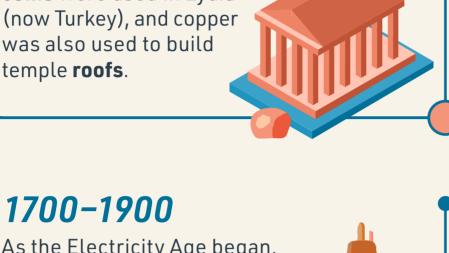
Egyptian medical texts.

1700-1900 As the Electricity Age began, humans used copper to make

wires, cables, batteries, and

heat exchangers due to its

excellent conductivity.



Copper was used to make scientific instruments and roofs in Renaissance Europe.

1500-1600

Greeks and Romans developed

musical instruments from brass,

an alloy of copper and zinc.



#### New technologies like telephones, floppy discs, and computer chips used

1990-2000

copper as a conductor.



#### also soared as they became mainstream.

Motor rotors were made out of

copper for increased efficiency.

Copper demand from cell phones



## Source: Copper Development Association





## Copper

relies on copper.

## energy, copper will be more in-demand than ever.

**Critical Today and Tomorrow** 

Today, every sector from infrastructure

to transport, electronics, and energy,

As the world gears up for clean

The Copper Content of Clean Energy kg per megawatt





40Mmt

35Mmt

30Mmt

25Mmt

*2021* 

**Source:** BloombergNEF



2030P

list, copper meets all three components of the

definition of a critical mineral:



and 2040.

2035P

2,822kg

Solar PV

53.2kg/vehicle

**EVs** 

Annual copper demand is set to increase by 53% between 2021



2040P

Nuclear

## Copper's role in the economy today, along with its importance for the future, shows just how critical it is. Despite not being on the official U.S. critical minerals

2025P

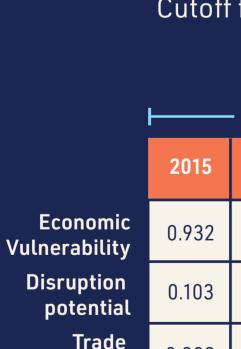
It plays a key role in energy Its supply chain is It is essential to economic technology, defense, vulnerable to disruption. and national security. consumer electronics, and other applications. The current USGS List of Critical Minerals, which excludes

copper, is based on data from 2015-18. New data shows

that copper meets the supply risk criteria.

Supply Risk Scores

for Copper, 2015-2022P



exposure

**Supply Risk** 

Recency Weighted

4-Year Supply Risk

Annual

2016

0.921

0.101

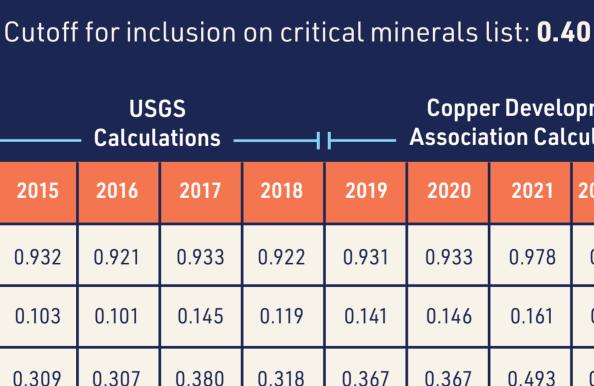
0.307

0.306

0.372

0.309

0.310





0.423

0.407

0.422

0.407

2020

0.933

0.146

0.367

0.368

0.359

0.427

0.387

Based on a study by the CDA using the USGS' methodology, copper meets the cutoff score for inclusion on the Critical Minerals list. Copper is beyond critical, and should be on the official

Critical Minerals list, especially as demand increases.

The

0.327

0.334

0.364

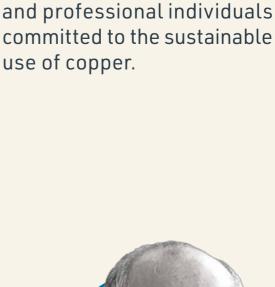
0.349

# The CDA is











Gov. Affairs Director

www.copper.org

**Copper Development** 

Association Inc.

# Adam Estelle **Vice President**



Copper Development Association The Copper Development Association brings the value of copper and its alloys to society, to address the challenges of today and tomorrow.

> The link between world copper A team of talented, dedicated,

