

UAE Copper Rod and Busbar Market Report and Forecast 2025-2034

Market Report | 2025-06-06 | 130 pages | EMR Inc.

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Report description:

The UAE copper rod and busbar market size reached around USD 831.26 Million in 2024. The market is further estimated to grow at a CAGR of 7.30% during 2025-2034 to reach a value of USD 1681.64 Million by 2034.

Figure: The UAE Energy Strategy 2050 Targets

Refining copper into copper rods has strengthened the UAE's position, globally. UAE-based companies such as Ducab and UCR have annual copper rod production capacities of around 180,000 tons and 220,000 metric tons respectively. These companies supply copper rods both domestically as well as internationally.

Copper products are widely used in the country in various markets, including construction and transportation, which contributes to the UAE copper rod and busbar market growth. In 2023, Dubai completed the construction of 3,520 buildings compared to 1,941 buildings in 2022.

The UAE's air transport market, which uses copper rods and other products for manufacturing aerospace components, is expected to expand by 170% by 2037. This would translate into 101 million more passenger trips and increased demand for aircraft.

The UAE supports the renewable energy sector through intensive research and development and governmental support. Solar power is now available in the country at around 1.35 cents per kilowatt hour. According to the International Renewable Energy Agency (IRENA), the country is expected to install over 18 GW of solar energy by 2030.

Key Trends and Developments

Significant growth of the construction sector; rising use of HVAC; expanding aerospace sector of the UAE; and significant growth in EV adoption are the key trends impacting the UAE copper rod and busbar market growth

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Mar 22, 2024

Abu Dhabi's International Holding Company unit is interested in acquiring Zambia's Lubambe copper mine, complicating the sale process already underway with China's JCHX Mining. The UAE firm's interest aligns with Middle Eastern investors' push for metal supply in Africa amid efforts to diversify economies and engage in energy transition.

Aug 3, 2023

Dubai Holding partnered with Thailand's Oriental Copper to establish a copper processing unit in the UAE, with an initial investment of USD 41 million. The project aims to process up to 30,000 metric tonnes of copper annually, meeting the region's growing demand for downstream copper products.

Jul 18, 2023

The Democratic Republic of Congo (DRC) has signed a \$1.9 billion mining deal with the UAE, involving Societe Aurifere du Kivu et du Maniema (Sakima), to construct industrial mines in South Kivu and Maniema provinces.

Mar 16, 2023

CTC Global has announced a collaboration with Ducab Metals Business (DMB), a subsidiary of Ducab Group. This partnership permits the manufacturing of CTC Global's high-capacity, energy-efficient ACCC Conductors in the UAE.

Expanding construction sector

Dubai is a tax-free city with a high return on investments. Additionally, since it is a prosperous nation, the citizens can pay for large construction projects. The ease of financing, political stability, and security are contributing to the growth of Dubai's construction sector and aiding the demand for copper products.

Growing HVAC applications impacting the UAE copper rod and busbar market

The country is witnessing escalating demand for sustainable and energy-efficient HVAC systems. Geothermal heating and cooling HVAC systems are widely used in the UAE residential and commercial sector. These systems provide heating and cooling without producing GHG emissions.

Growing aerospace sector of the UAE

The UAE aims to be known as a hub for aerospace manufacturing and maintenance, repair, and overhaul. The UAE is concentrating on developing advanced manufacturing facilities and capabilities for composite parts and aerospace structures to become a major supplier to original equipment manufacturers (OEMs).

Rising adoption of EVs

The number of EVs in Dubai reached 25,929 in December 2023 from 15,100 in 2022. Further, Dubai's aim to have half of the city's cars transition to EVs by 2050, will boost the demand for EV charging infrastructure and grid.

UAE Copper Rod and Busbar Market Trends

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The UAE is expanding its electric distribution and transmission network to connect renewable energy and non-conventional fuel-based plants with the transmission grid. Dubai's total length of transmission and distribution electricity lines reached 42,586.71 kilometres in 2022 from 41,930 kilometres at the end of 2021.

Copper busbars are widely deployed in air conditioning and refrigeration systems. Copper products have impressive strength, resistance to corrosion and high efficiency. HVAC products are crucial in the UAE to ensure a comfortable and healthy indoor environments in the residential, industrial, and commercial sector. The UAE's large-scale construction projects, ranging from skyscrapers to infrastructural projects aid the demand for HVAC systems and consequently copper products.

Market Segmentation

"UAE Copper Rod and Busbar Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

- Copper Rod Breakup by Shape Type Flat Round Others
- Copper Rod Breakup by Grade C10100 C10200 C11000 Others
- Copper Busbar Breakup by Shape Type Round Rectangle Others
- Copper Busbar Breakup by Power Rating Low Medium High
- Copper Rod Breakup by Shape Type Flat Round Others
- Copper Rod Breakup by Grade C10100 C10200 C11000 Others
- Copper Busbar Breakup by Shape Type Round Rectangle Others
- Copper Busbar Breakup by Power Rating Low Medium High

Market Breakup by End Use

- Construction
- Industrial Equipment
- Transport and Non-Industrial

Market Breakup by Sales Channel

- Direct
- Distributor

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Market Breakup by Region

- Abu Dhabi
- Dubai
- Sharjah
- Others

Based on type, copper rods account for a significant share of the UAE copper rod and busbar market

Dubai is home to automotive producers, including W Motors and Jannarely Automotive, aiding the demand for copper rods for automotive electrical systems.

Common engineering applications for copper round bars include electrical components, transformers, architectural structures, and building components. Copper is an impressive conductor of heat and electricity. As a result, copper rods can save energy bills for homeowners while increasing the general effectiveness of plumbing and electrical systems.

Solid copper busbars for EVs are processed by stamping, CNC bending, finish treatment, and insulation. The finish can be bare copper, nickel plating, tin plating, and silver plating. The insulation can be PVC, epoxy powder coating, and PE heat shrink tube. They are widely used in energy storage systems, charging piles, electric forklift, and electric car battery pack. The efficiency of electric and hybrid vehicles can be improved by utilising copper busbars, which aids the UAE copper rod and busbar market development.

Based on end use, the construction sector dominates the UAE copper rod and busbar market share, significantly contributing to the overall market revenue

Abu Dhabi's construction sector expanded by 13.1% in 2023 over 2022, aiding the demand for copper products. A total of 122,658 real estate units comprising residential and commercial units were sold in 2022 in Dubai, an increase of 47% from 2021.

Further, the UAE's prime location along major trade routes, namely the Persian Gulf and the Gulf of Oman has fueled massive growth in its maritime and shipbuilding sectors. Copper busbar are widely deployed in marine power distribution due to its reliable quality, cost-effectiveness, and resistance to mechanical damage and corrosion.

Competitive Landscape

The manufacturers are engaged in providing high-quality products and introducing the latest capabilities to innovate their products and meet the growing demands of consumers.

Dubai Cable Company (Private) Limited

Founded in 1978, Ducab specializes in copper and aluminum wire production, with a focus on renewable energy.

Aeris Stream Copper Manufacturing LLC

Founded in 2021, Aeris Stream Copper Manufacturing LLC specializes in the production of copper rods and wires. ASCM has successful partnerships with global firms in countries like Russia, China, South Korea, Poland, and Turkey, and is now expanding its presence into the GCC region.

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Emirates National Copper Factory LLC

Founded in 2012, Emirates National Copper factory is an export-oriented Company and the only copper busbar manufacturing facility in the UAE.

Union Copper Rod LLC

Headquartered in the UAE, UCR utilises advanced southwire continuous rod casting technology for manufacturing premium copper rods.

Other notable players operating in the UAE copper rod and busbar market are Fujairah Gold FZC, and Bahra Advanced Cable Manufacture Co. Ltd., among others.

UAE Copper Rod and Busbar Market Analysis by Region

The net production value of Abu Dhabi's transportation sector is USD 800 million. Abu Dhabi also contributes 21.1% to UAE's transportation equipment production. Abu Dhabi's transportation sector manufactures transportation equipment, motor vehicles, ships and boats, and railroad rolling stock.

Further, the growth in tourism aids the growth of the construction and hospitality sectors, which increases the demand for copper products for wiring, air conditioning, and refrigeration. In 2023, Dubai recorded 17.15 million international tourists, a 19.4% increase over 2022.

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