

Global Aluminium Conductor Steel Reinforced Cable Market 2026

Market size, segmentation, competitive landscape and outlook

2021-2031

Moving forward, together



Every one of us has, at some point, heard the line from *Alice in Wonderland*: “It takes all the running you can do, to keep in the same place. If you want to get somewhere else, you must run at least twice as fast.” Cliché as the quote has become, our world is changing at extraordinary speed. And yet, to my mind, it matters not only to run fast, but — more importantly — to know where you are running.

We see ourselves as the navigator, ready at the right moment to point out the correct course. By providing current, timely information for the decisions that matter, we aim to protect our clients from missteps and to help them find new opportunities.

It matters to us that you are satisfied with the work we have done. If you have any questions about this report, we will be glad to answer them.

ANDREY SHEVCHENKO, Managing Partner

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Market at a glance

This demo shows the **form and depth** of the report — real narrative with the detailed figures and tables masked as “XXX”. When you order the report, every figure is finalised and verified for your copy, and the full report is delivered within 24–72 hours.

Indicator	Value
Market size (2024)	USD 4.4 bn
Forecast (2031)	USD 7.1 bn
CAGR (2021-2031)	6.9%
Study period	2021-2031
Largest region	Asia-Pacific · 47.8%
Fastest-growing region	Middle East and Africa · 8.3%
Market concentration	Low
Licence	Individual / Company

The global aluminium conductor steel reinforced cable market reached USD XXX billion in 2024 and will expand to USD XXX billion by 2031, advancing at a XX% CAGR. Asia-Pacific accounted for XX% of 2024 revenue, supported by large transmission programmes in China, India and Southeast Asia, while the Middle East and Africa will record the fastest regional growth at XX%. Utility transmission remains the principal application, although distribution reinforcement and renewable-energy evacuation are producing the strongest incremental demand. The report quantifies ACSR demand by conductor construction, voltage class, application, end user and geography, supported by utility procurement analysis, producer capacity mapping and primary interviews across the conductor supply chain.

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Executive summary

The global aluminium conductor steel reinforced cable market reached USD XXX billion in 2024 and will expand to USD XXX billion by 2031, advancing at a XX% CAGR. Asia-Pacific accounted for XX% of 2024 revenue, supported by large transmission programmes in China, India and Southeast Asia, while the Middle East and Africa will record the fastest regional growth at XX%. Utility transmission remains the principal application, although distribution reinforcement and renewable-energy evacuation are producing the strongest incremental demand. The report quantifies ACSR demand by conductor construction, voltage class, application, end user and geography, supported by utility procurement analysis, producer capacity mapping and primary interviews across the conductor supply chain.

Indicator	Value
Market size 2024	XXX
Forecast 2031	XXX
CAGR	XXX
Largest region	XXX
Fastest region	XXX

Key findings

- Global ACSR cable revenue reached USD XXX billion in 2024 and will rise to USD XXX billion by 2031.
- Asia-Pacific generated XX% of 2024 market value, equivalent to USD XXX billion.
- Standard galvanized-steel-core ACSR represented XX% of 2024 revenue and remains the principal specification for new overhead lines.
- Transmission applications accounted for XX% of market value, while distribution reinforcement will grow at a XX% CAGR through 2031.
- High-voltage conductors rated above 110 kV and up to 220 kV held XX% of revenue; extra-high-voltage products will grow fastest at XX%.
- The International Energy Agency calculates that more than XXX kilometres of grid must be added or refurbished worldwide by 2040 to meet national energy and climate goals.
- Global transmission investment increased XX% to USD XXX billion in 2023, according to the International Energy Agency.
- India's Central Electricity Authority planned XXX MW of additional interregional transmission capacity between fiscal 2022 and fiscal 2027.

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Market size and forecast

Market value by year, USD bn

Indicator	2026	2027	2028	2029	2030	2031	CAGR
Market value, USD bn	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Market volume	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Production	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Imports	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Exports	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Apparent consumption	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

Year-over-year value change

Indicator	2027	2028	2029	2030	2031	CAGR
Market value	X%	X%	X%	X%	X%	X%
Production	X%	X%	X%	X%	X%	X%
Imports	X%	X%	X%	X%	X%	X%
Exports	X%	X%	X%	X%	X%	X%

Source: XXX

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Global Aluminium Conductor Steel Reinforced Cable Market Trends and Growth Drivers

ACSR demand sits at the intersection of electricity-consumption growth, grid geography and utility capital cycles. The conductor's steel core provides tensile performance for long spans, while its aluminium strands deliver current-carrying capacity at an installed cost suited to large route-kilometre programmes. This combination sustains its role in new transmission systems even as premium conductor technologies gain visibility.

The principal growth engine is the widening distance between new generation and consumption. Renewable projects, hydropower resources, mines, industrial clusters and data centres frequently require new overhead corridors rather than incremental distribution assets. Procurement consequently shifts toward larger cross-sections, bundled conductors and mechanically demanding designs.

The market's economics remain highly sensitive to aluminium and steel costs, qualification cycles and project timing. Manufacturers protect competitiveness through metal pass-through clauses, integrated rod production, multi-country approvals and flexible plants that can alternate between conventional and high-performance conductors.

Growth drivers

Long-distance grid expansion

Utilities are developing new transmission corridors to connect remote generation, reinforce interregional transfers and serve rising metropolitan load. ACSR remains the reference conductor for cost-sensitive greenfield routes because it combines established engineering practice, broad supplier availability and high tensile strength.

Renewable-energy evacuation

Utility-scale solar and wind resources are frequently located far from consumption centres, creating conductor-intensive collector and bulk-transmission requirements. Developers favour proven ACSR specifications where sufficient right-of-way is available and project economics prioritize low initial installed cost.

Distribution reinforcement and access

Urban load growth, rural electrification and reliability programmes are increasing construction of medium- and high-voltage overhead feeders. Smaller ACSR sizes benefit from standardized utility inventories, installer familiarity and repair availability across emerging markets.

Ageing-line replacement

Mechanical fatigue, corrosion and cumulative storm exposure are moving legacy conductors into structured replacement cycles. Like-for-like ACSR renewal remains attractive where existing towers and thermal

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capacity are adequate, limiting redesign and permitting requirements.

Data-centre and industrial loads

Data centres, semiconductor plants, electrified manufacturing and mineral-processing projects require accelerated grid connections and firmer transmission capacity. These concentrated loads support new utility corridors and dedicated overhead connections, raising demand for large-cross-section ACSR.

Transmission-policy support

Long-term planning rules, public financing and streamlined grid investment frameworks are expanding the bankable project pipeline. FERC Order No. 1920, the European Grid Action Plan and national transmission plans in India provide utilities and suppliers with clearer multi-year procurement visibility.

Restraints

Raw-material price volatility

Aluminium typically represents the largest component of conductor cost, while zinc-coated steel determines core performance and a meaningful portion of conversion expense. Price swings enlarge working-capital requirements and can delay orders when tender escalation clauses do not track metal markets effectively.

Substitution by advanced conductors

ACSS, gap-type, aluminium-alloy and composite-core conductors can carry more current or reduce sag within constrained rights-of-way. Substitution is strongest in urban reconductoring and high-congestion corridors where capacity per tower is more important than conductor purchase price.

Permitting and right-of-way delays

Transmission corridors require environmental review, land access, community consultation and multiple regulatory approvals. Schedule slippage shifts conductor deliveries outward and creates uneven factory loading even where long-term grid requirements remain firm.

Price-led utility tenders

Standardized specifications allow many qualified producers to compete for conventional ACSR packages. Aggressive bidding constrains conversion margins and can disadvantage suppliers carrying higher certification, energy or domestic-manufacturing costs.

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ACSR Cable Driver and Restraint Impact on the Forecast

Drivers — impact on forecast

Driver	Impact on CAGR	Geography	Horizon
Long-distance grid expansion	XXX	XXX	XXX
Renewable-energy evacuation	XXX	XXX	XXX
Distribution reinforcement and access	XXX	XXX	XXX
Ageing-line replacement	XXX	XXX	XXX
Data-centre and industrial loads	XXX	XXX	XXX
Transmission-policy support	XXX	XXX	XXX

Source: XXX

Restraints — impact on forecast

Restraint	Impact on CAGR	Geography	Horizon
Raw-material price volatility	XXX	XXX	XXX
Substitution by advanced conductors	XXX	XXX	XXX
Permitting and right-of-way delays	XXX	XXX	XXX
Price-led utility tenders	XXX	XXX	XXX

Source: XXX

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Aluminium Conductor Steel Reinforced Cable Market Segmentation Analysis

By Conductor Construction

Standard ACSR dominates greenfield transmission and distribution because it is widely specified, readily repairable and available from a broad qualified supplier base. ACSR/AW uses aluminium-clad steel to improve conductivity and corrosion performance, supporting faster adoption in coastal, industrial and high-loss applications. High-strength and corrosion-resistant variants serve long spans, river crossings and severe environments where mechanical performance commands a premium.

Value by conductor Construction, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2024	CAGR
Standard galvanized-steel-core ACSR	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Aluminium-clad steel reinforced ACSR/AW	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
High-strength ACSR	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Corrosion-resistant and specialty ACSR	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By Voltage Class

The 110-220 kV range leads because it spans regional transmission, industrial supply and sub-transmission duties across developed and emerging grids. Extra-high-voltage projects consume more conductor per route through larger cross-sections and bundled phases, making the above-400-kV class the fastest-growing value pool. Lower-voltage sizes remain essential to distribution expansion but face greater competition from covered conductors and all-aluminium designs.

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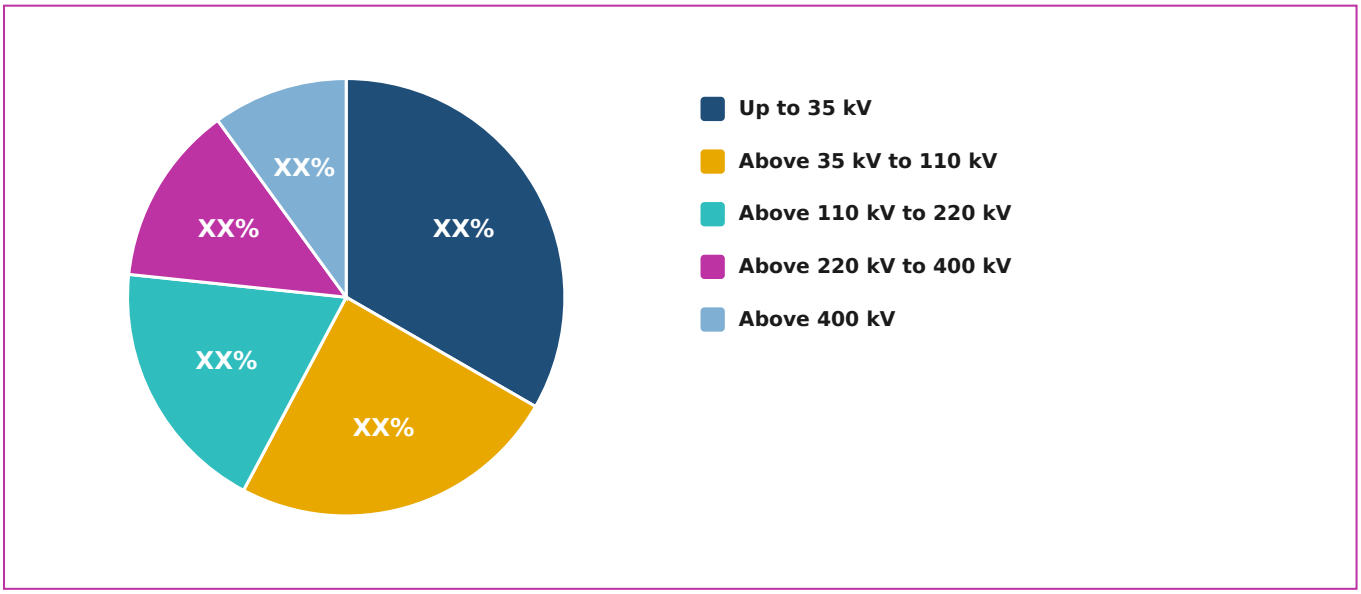
Value share by voltage Class, 2024



Source: XXX

Value by voltage Class, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2024	CAGR
Up to 35 kV	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Above 35 kV to 110 kV	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Above 110 kV to 220 kV	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Above 220 kV to 400 kV	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Above 400 kV	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By Application

Bulk transmission remains the largest application because long routes, bundled phases and high mechanical loading translate into substantial conductor tonnage. Renewable-energy evacuation is growing fastest as remote solar and wind zones require dedicated collector and interstate corridors. Distribution reinforcement provides recurring demand for smaller constructions, while railway and metro electrification supports specialized overhead applications in selected markets.

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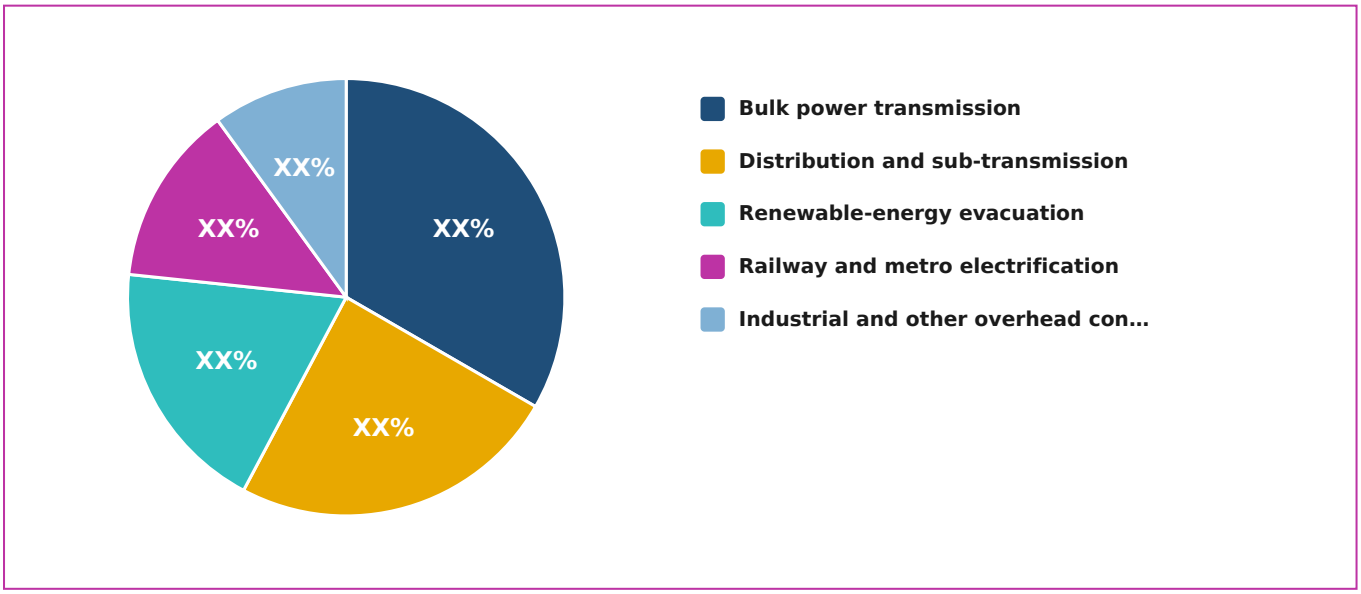
Value share by application, 2024



Source: XXX

Value by application, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2024	CAGR
Bulk power transmission	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Distribution and sub-transmission	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Renewable-energy evacuation	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Railway and metro electrification	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Industrial and other overhead connections	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By End User

Utilities dominate procurement through annual tenders, framework contracts and project-specific conductor packages. Independent transmission developers and renewable-energy companies are gaining share as competitive concessions and private networks expand. EPC contractors influence brand selection and delivery scheduling even when utilities remain the contractual purchaser, while rail and industrial customers form smaller specification-intensive niches.

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Value by end User, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2024	CAGR
Public and investor-owned utilities	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Independent transmission and renewable developers	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
EPC contractors and distributors	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Industrial, mining and infrastructure operators	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Rail authorities	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

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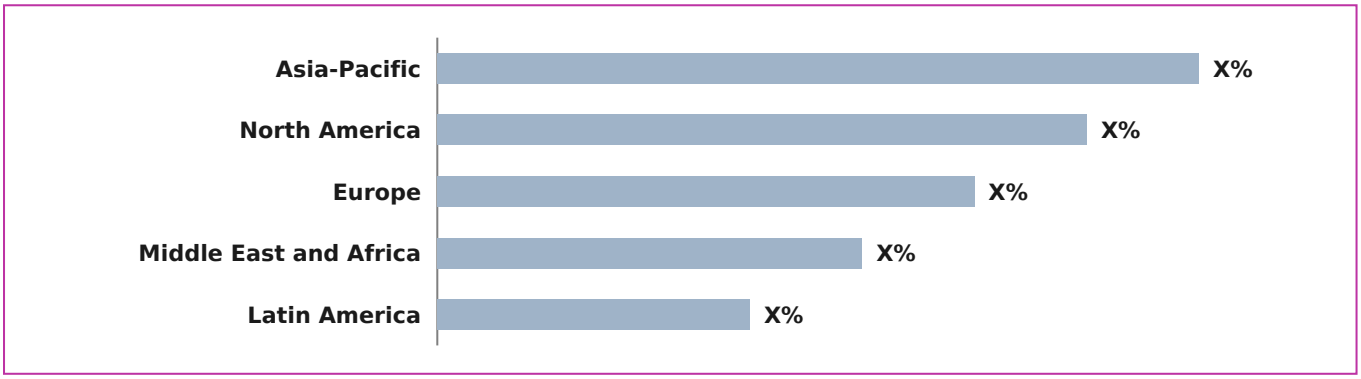
ACSR Cable Market Regional Analysis and Country Outlook

Asia-Pacific generated USD XXX billion in 2024, representing XX% of global ACSR revenue. China remains the largest national market through its ultra-high-voltage backbone, provincial grid reinforcement and renewable-energy bases, while India is producing the region's strongest accessible procurement pipeline through interstate green-energy corridors, distribution upgrades and railway electrification. Southeast Asian utilities are adding 132 kV, 230 kV and 500 kV corridors as industrial parks and urban systems expand.

North America accounted for XX% of market value, led by replacement programmes, resilience spending and new transmission serving renewable generation and large loads. FERC's long-term planning framework and United States Department of Energy funding improve the forward pipeline, although advanced conductors capture a growing share of capacity-constrained reconductoring. Europe represented XX%, with investment centred on ageing-grid renewal, cross-border transfer capability and renewable integration.

The Middle East and Africa will grow at an XX% CAGR, the fastest regional rate. Saudi Arabia and the United Arab Emirates are building high-voltage networks around new generation, industrial clusters and urban development, while Egypt, South Africa, Kenya, Tanzania and other African markets require both backbone transmission and electricity-access infrastructure. Latin America contributes a smaller but durable opportunity led by Brazil, Mexico, Chile and Peru, where renewable corridors and mining loads support high-voltage conductor demand.

Growth rate by region, 2024-2031



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Market value by region, USD bn

Region	2026	2027	2028	2029	2030	2031	Share 2024	CAGR
Asia-Pacific	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
North America	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Europe	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Middle East and Africa	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Latin America	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

Market value by leading country, USD bn

Country	2024	2031	Share 2024	CAGR
United States	XXX	XXX	XXX	XXX
Germany	XXX	XXX	XXX	XXX
United Kingdom	XXX	XXX	XXX	XXX
Belgium	XXX	XXX	XXX	XXX
Netherlands	XXX	XXX	XXX	XXX
Japan	XXX	XXX	XXX	XXX
China	XXX	XXX	XXX	XXX
Mexico	XXX	XXX	XXX	XXX

Source: XXX

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ACSR Cable Market Competitive Landscape and Company Share

The market is fragmented: the ten largest suppliers held XX% of 2024 revenue. APAR Industries, Sterlite Electric, Prysmian, Southwire, ZTT and Midal Cables combine export reach with broad voltage qualifications, while national manufacturers remain influential because freight, utility approvals and local-content rules favour regional supply. Competitive advantage rests on aluminium sourcing, steel-core quality, stranding capacity, testing credentials and consistent delivery of long production runs.

Leading manufacturers are moving beyond conventional conductor supply into design optimization, reconductoring, stringing support, asset monitoring and low-carbon product documentation. APAR has expanded its high-performance and turnkey offering while maintaining large-scale ACSR production; Sterlite Electric has separated its products business from transmission infrastructure and entered digital cable-monitoring solutions. Chinese suppliers continue to compete aggressively across Asia, Africa and Latin America through scale and integrated project relationships.

Consolidation remains selective because qualification regimes and logistics preserve space for local producers. Investment is directed toward larger stranding machines, aluminium-rod integration, higher-capacity test facilities, corrosion-resistant designs and flexible lines capable of producing ACSR alongside alloy and advanced conductors. Producers that balance conventional ACSR volume with premium-product migration will defend utilization and margins as utilities adopt application-specific conductor portfolios.

Leading companies

Company	HQ	Est. revenue 2024	Market share 2024	YoY
APAR Industries Limited	XXX	XXX	XXX	XXX
Sterlite Electric Limited	XXX	XXX	XXX	XXX
Prysmian S.p.A.	XXX	XXX	XXX	XXX
Nexans S.A.	XXX	XXX	XXX	XXX
Southwire Company, LLC	XXX	XXX	XXX	XXX
Sumitomo Electric Industries, Ltd.	XXX	XXX	XXX	XXX
LS Cable & System Ltd.	XXX	XXX	XXX	XXX
Jiangsu Zhongtian Technology Co., Ltd.	XXX	XXX	XXX	XXX
Hengtong Group Co., Ltd.	XXX	XXX	XXX	XXX
Midal Cables Limited	XXX	XXX	XXX	XXX

Source: XXX

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ACSR Cable Market Forecast, Investment Priorities and Opportunities

The market will add USD XXX billion in annual revenue between 2024 and 2031. Base-case growth assumes sustained transmission investment, expanding renewable interconnection and moderate aluminium-price appreciation, with volume growth strongest in India, the Gulf, Southeast Asia and Africa. ACSR will remain the leading bare overhead conductor family in kilometres installed because its installed-cost economics and engineering familiarity are difficult to displace in unconstrained corridors.

The upside scenario is driven by faster permitting, stronger utility capital expenditure and accelerated connection of renewable generation, data centres and industrial loads. Under this pathway, global revenue reaches USD XXX billion in 2031. A slower project-conversion scenario, characterized by delayed rights-of-way and weaker utility finances, places 2031 value at USD XXX billion.

Winning suppliers will secure multi-year utility qualifications, localize conversion near demand centres and manage metal exposure through contractual pass-through provisions. Product strategies will increasingly pair standard ACSR with ACSR/AW, high-strength constructions and advanced alternatives, allowing manufacturers to address both cost-led greenfield projects and technically constrained upgrades.

Opportunities

- Extra-high-voltage transmission corridors in India, China, the Gulf and Africa
- Coastal and industrial demand for corrosion-resistant ACSR/AW
- Local manufacturing partnerships tied to domestic-content requirements
- Reconductoring of structurally suitable lines with optimized ACSR designs
- Low-carbon aluminium and product-level environmental declarations
- Turnkey conductor design, stringing, testing and condition-monitoring services

> This preview shows the form and depth of the report. The full report contains every figure, segment- and country-level detail and full company profiles. On purchase all figures are finalised and verified, and the report is delivered within 24–72 hours.

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