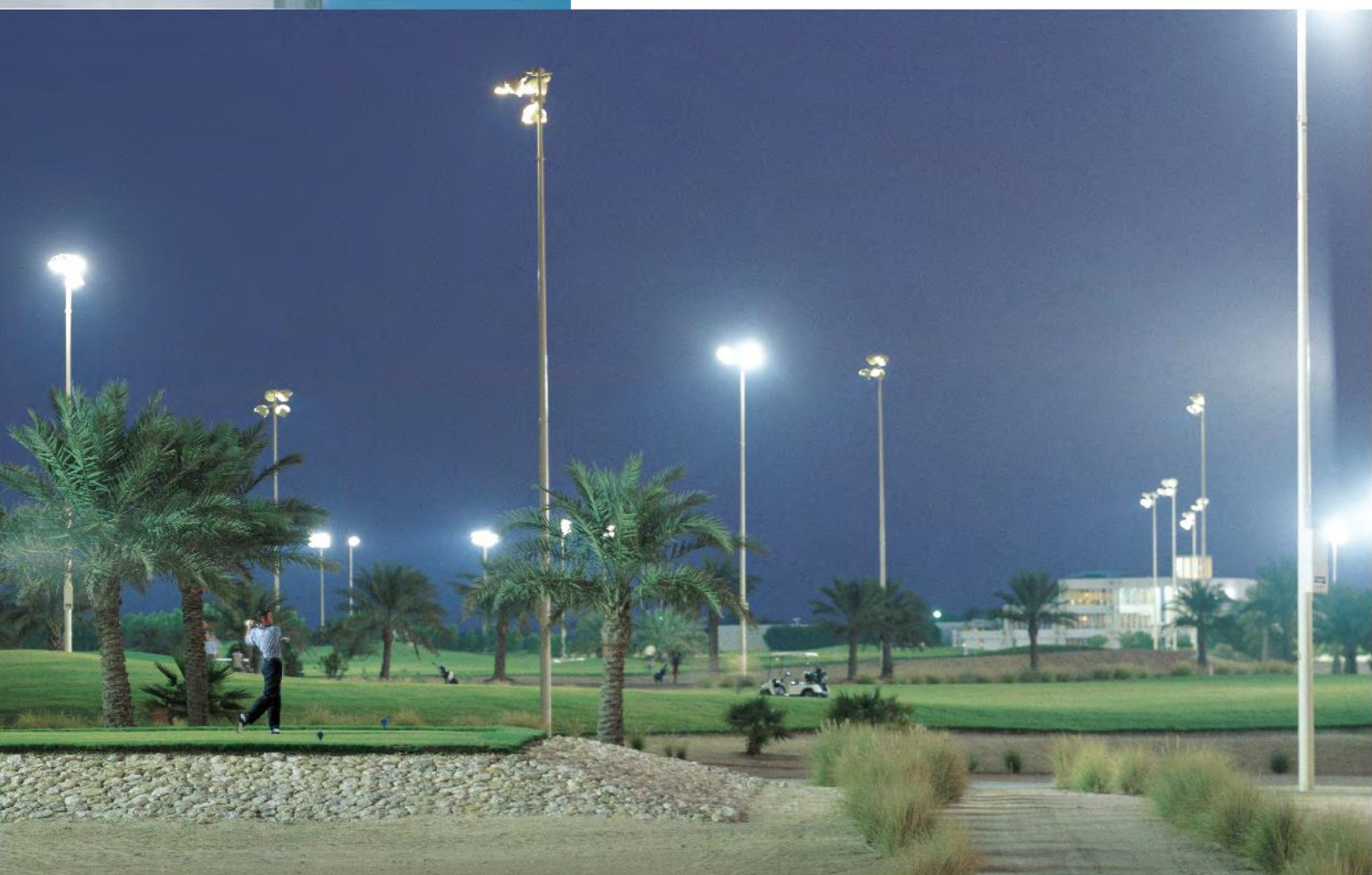




TRANSPOWER®
INDIA



HIGH MASTS

TRANSPOWER TRANSFORMING LIGHTING INDIA

THE COMPANY PROFILE

TRANSPOWER SWITCHGEAR INDUSTRIES

Transpower Switchgear Industry is an ISO 9001 : 2008 Certified, Mumbai (Maharashtra) based business entity, is acknowledged in the market for setting an unsurpassable paradigm of excellence. The company is primarily engaged in the manufacturing, supplying and exporting of Power Products H.T. & L.T. Materials, Distribution & Special Purpose Transformers up to 33KV line, Street Light Poles, Octagonal Poles Manufacture, Luminaries & Accessories etc.

The company is certified to ISO-9001 TO 2015 Certification that reflects the genuineness of the products and our reliability. Isolators i.e. Air Break Switch (G.O.D), Drop Out Fuse up to 33KV Line with Kiosk Metering Set, V.C.B, S.F. Isolators, R.M.U. & Breaker, Cables, Capacitors.

Rated By NSIC – CRISIL and Experiencing magnificent growth, since its establishment in the year 1995.

Transpower, a Mumbai based firm, offering a variety of Lighting Poles, Pipes and Lines Materials. The variety of Lighting Poles Pipes and Lines Materials that we offer includes Tubular Poles (For Street Lighting & Transmission Lines), Decorative Lighting Poles, Octagonal Poles, High Mast Poles, M.S/G.I. Pipes, Electric Poles, Line Materials etc. Our organization is showing a substantial growth since the time of its establishment in the year 2013. We are flourishing at a fast pace under the due guidance of our knowledgeable Chairman Mr.Sambhaji Haribhau Kudekar. We have also carved a niche for ourselves among the topmost Poles Suppliers in India.

Our Mission

To build a strong brand and maintain superior quality standard for customer satisfaction.

Our Vision

Achieve numerous positions in pole, cable, and pipes industry in terms of volume, turnover and quality in the Asian Continent.

Our Quality

Our focus on quality is evident in our product range. We have never compromised on quality and have successfully achieved a high level of customer appreciation resulting in long-lasting relations.



HIGH MAST POLE

High mast lighting is today preferred over conventional lighting. Especially where large areas are to be illuminated. This system eliminates the need for numerous lighting columns which, under certain circumstances, can pose hazardous to movement. This is possible because the high mast lighting system achieves very large space to height ratios.

High-mast lighting is ideal for industrial or commercial areas, docks, airports, flyovers, stations, car parks and even some hazardous areas. All of these require the best possible lighting with minimum interference from the installation itself combined with ease of maintenance.

Mast Structure

High mast is continuously tapered; polygonal cross section of 12 to 20 sides fabricated from special steel plates, and is delivered at site in sections. Sections are joined together by slip-stress-fit method and are provided with fully penetrated and welded flange.

The design is based on proven in-tension design conforming to the Technical Report No 7-1996, Institution of Lighting Engineers. UK. This ensures assured performance and reliable service. The structure is suitable for loading as per IS 875 (part3) 1987.

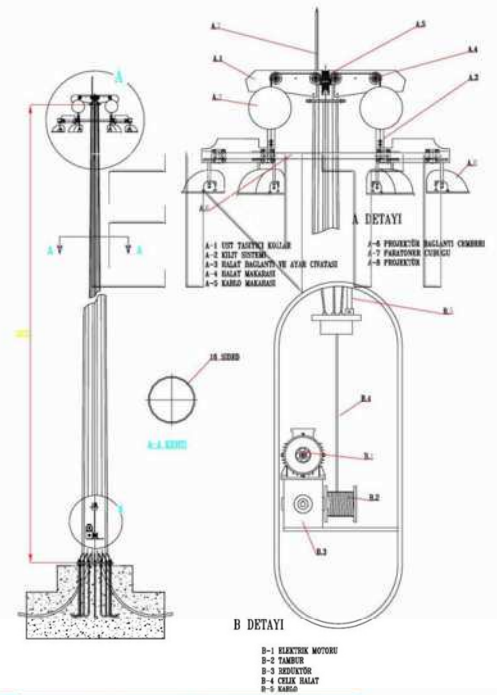
Construction

High mast is fabricated from steel plates conforming to BSEN 10025, GR-S255 JO or equivalent as per customer's requirement, cut and folded to form a polygonal section. Masts come in two sections for 16 & 20 Mtr and in three sections for 25 & 30 Mtr heights and are only longitudinally welded, conforming to BS 5135/AWS.

The mast is provided with a fully penetrated flange, which is free from any laminations or incursions. The welded connection of the base flange is fully developed to the strength of the entire section. The base flange is provided with supplementary gussets between bolt holes to ensure elimination of helical stress concentration.

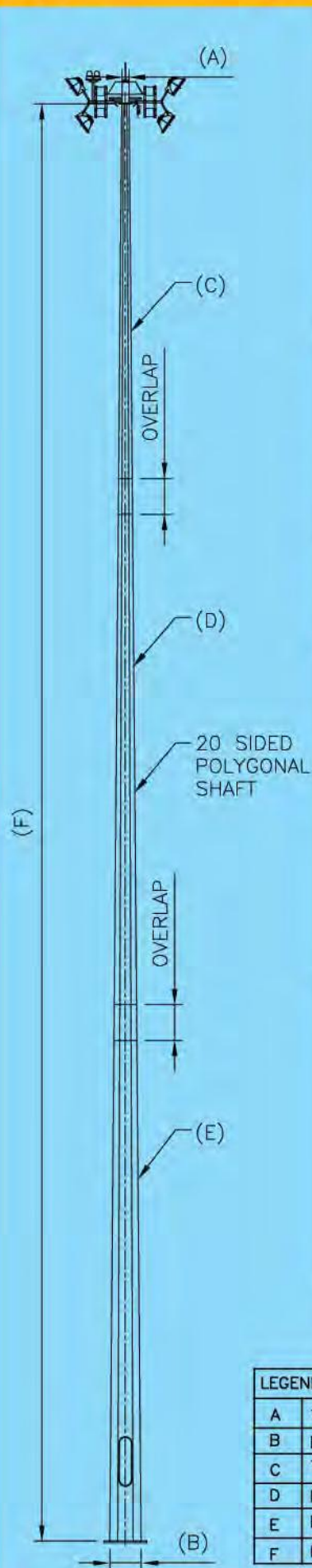
For environmental protection of the mast, the entire fabricated mast is Hot dip Galvanized (Single Dip) internally and externally, that results in uniform coating thickness of 65 to 85 as per sheet thickness & maintaining BSEN ISO-1461 or equivalent.

TRANSPOWER®
SWITCHGEAR INDUSTRIES
AN ISO CERTIFIED COMPANY



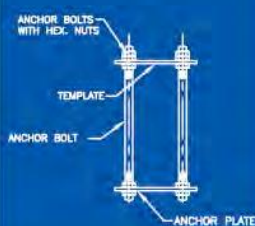
Typical drawing of High Mast

TECHNICAL SPECIFICATION OF HIGH MAST LIGHTING SYSTEM



Baseplate Details

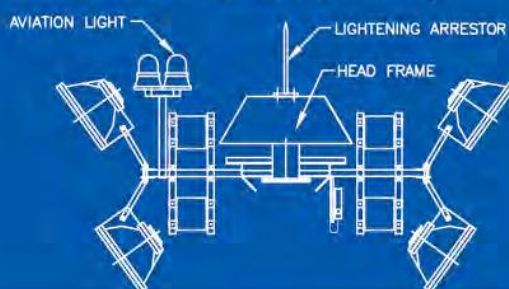
Anchor Bolt Cage Details



Mast Bottom



Head Frame Assembly



LEGENDS	
A	TOP A/F
B	BOTTOM A/F
C	TOP SECTION
D	MIDDLE SECTION
E	BOTTOM SECTION
F	MAST HEIGHT

Structure:

The Highmast is of continuously tapered, polygonal cross section, presenting a good and pleasing appearance and is based on proven design conforming to international standards, to give an assured performance, and reliable service. The structure is suitable for wind speed as per IS 875 part 3 1987.

Construction:

The mast is fabricated from special steel plates, conforming to ASTM A 572/ BS EN 10025 with 350MPa min. yield. Plates are cut, folded and welded using a sub-arc automatic machine to form a polygonal section. Silicon content of the steel shall be less than 0.06 % to provide a good galvanizing finish. No circumferential welded joints are provided in individual sections. The welding is in accordance with AWS. The mast is provided with fully penetrated flange, which is free from any lamination or incursion. For the environmental protection of the mast, the entire fabricated mast is single hot dip galvanised, internally and externally as per ASTM A 123 AND 153.

The mast is delivered in multiple sections of length up to 16 meters so a 30m mast can be delivered in two sections. At site the sections are joined together by slip-stressed-fit method. The minimum over lap distance is 1.5 times the outside diameter of the top section. The top/bottom diameters and plate thickness of the mast are designed as per CP3/IS 875 and TR No 7. The design life of the mast is a minimum of 25 years.

Door opening is provided at the base of the mast to access winches, cables and plug & socket, etc. The door opening is provided with a close fitting, vandal resistant and weatherproof door. It is provided with a heavy-duty double internal lock with special paddle key

structures to meet the most demanding requirements worldwide.



Cable and Cable Connections

Multi core, flexible, round and sheathed power cable(s) provided with metal or PVC cased plug and socket with guard ring terminates in the base compartment. At the mast head cable is connected through suitable PVC gland to weather proof junction box fitted on lantern ring.

One circuit of 5Cx2.5 sq mm cable is provided for every 8.5 KW load.

Earthing Terminals & Lighting finials

Suitable earth terminal using 12 mm diameter stainless steel bolts are provided at a convenient location or at the base of the mast.

Control Panel

Provided with a control panel fabricated out of 14/16 SWG CRCA sheet comprising incoming MCB isolator, copper wiring, and suitable lining contactor.

Foundation Bolts

High tensile hot dip galvanized holding down bolts are supplied complete with anchor plate for casting into the foundation. A precision made steel template with precise holes to ensure correct vertical and horizontal bolt alignment is also provided.

Top Pulley Assembly

The pulleys are of large diameter, appropriate to the multicore flexible cable being used. They are of non-corroding material and run on self-lubricating bearings with stainless steel spindles. Arrangements are provided to ensure that the electric cables and steel wire ropes are separated before passing over their pulleys to prevent ropes and cables leaving the pulley's grooves.

The pulleys are housed in a chassis integral with a sleeve, which slips over the top of the mast and is secured axially and in azimuth. Guides and stops are provided for docking the lantern carriage. For 2 or 3-point suspension carriage, an anchor point is securely welded to the assembly to receive the safety maintenance equipment wherever relevant. The complete chassis assembly is hot dip galvanized after lubrication. A weather proof hot dip galvanized canopy protects the pulley assembly.

Winches

Winches are completely self-sustaining without the need for brakes, spring or clutches which require adjustment or which can be affected by moisture or lubricant. The gear ratio is 53:1. The winches are self-lubricating by means of an oil bath and recommended lubricant only is used. A suitable high-powered, electrically driven, internally mounted power tool, with manual override may be supplied for the raising and lowering of the lantern carriage.

Stainless Steel Wire Ropes

Steel Wire ropes are flexible marine grade (ATSI 316) and of stainless steel 7/19 construction. Thimbles and terminals are of compatible materials.

Winch Driving Power Tools

The power tool is a single or 3 phase, single speed, heavy-duty type electric motor having a special driving shaft for transmitting torque to winch gearbox. A remote control switch with suitable length of cable allows the equipment to operate from a distance.

Arrangements are provided to support the power tool accurately and securely during its operation. Separate handle is also provided for manual operation of the winch.



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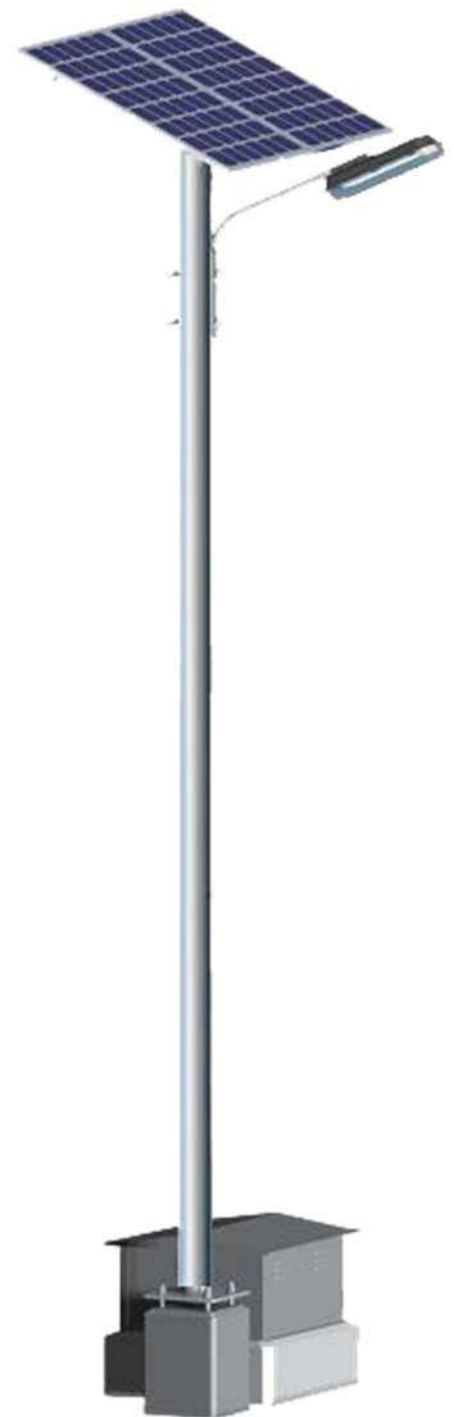
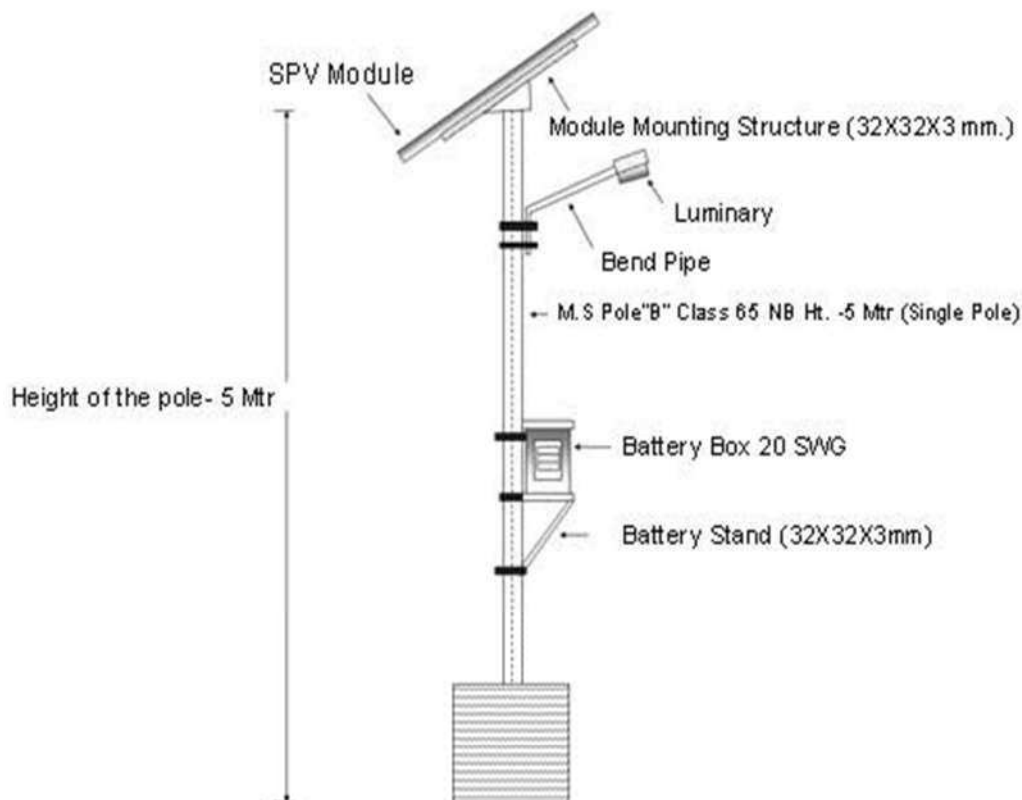
SOLAR LIGHT POLE

Utilizing the modern technology and latest machinery, we bring forth the wide array of Solar street light post. It is widely demanded by our clients for its excellent design and durability. The offered light post available in various specifications, as per the requirements of our esteemed clients. Premium quality raw material is used by the professionals, along with contemporary production equipment to manufacture our offered light post. Clients can avail this Solar street light post from us at market leading price.

Features:

- ❖ Accurate dimensions
- ❖ Corrosion resistance
- ❖ Easy installation
- ❖ Durability

To cater to the rising demands and requirements of our clients, we come with superlative quality Street Light Pole. Manufactured using advanced technology, the offered product is assured of premium quality. Easy to install and to maintain, the entire range of street light poles offered by us has amassed words of intense praise among our respected clients.



SPECIFICATIONS	LED street lighting				CFL street lighting	
	200LS	300LS	400LS	750LT	350CS	600CS
Type of lamp	LED	LED	LED	LED	CFL	CFL
Lamp (WxQty.)	7x1	12x1	15x1	30x1	11x1	11x2
PV array wattage (WpxQty.)	35x1	65x1	80x1	75x2	75x1	60x2
Battery (Ah)	40	60	75	150	75	100
Pole height (m)	4	4	4	6	4	4
Light output (lumens)	630	1080	1350	2700	900	1800
Recommended hours of charging at full sun shine (1kW/m2 irradiance) for daily usage of 12 hours*	5	4.5	4.5	5	3.5	4.5
Maximum autonomy days, assuming 12 hours of usage per day (days)	3	3	3	3	4	3
Maximum continuous back up (hours)	45	40	40	40	56	36
Diameter spread on ground (m)	5	5	5	8	5	5
Savings per year as compared to a grid based system (RS)**	2,470	3,310	4,950	9,920	2,470	4,950



GALLERY



HT-LT LINE POLE

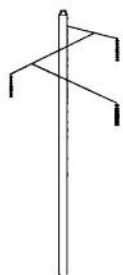
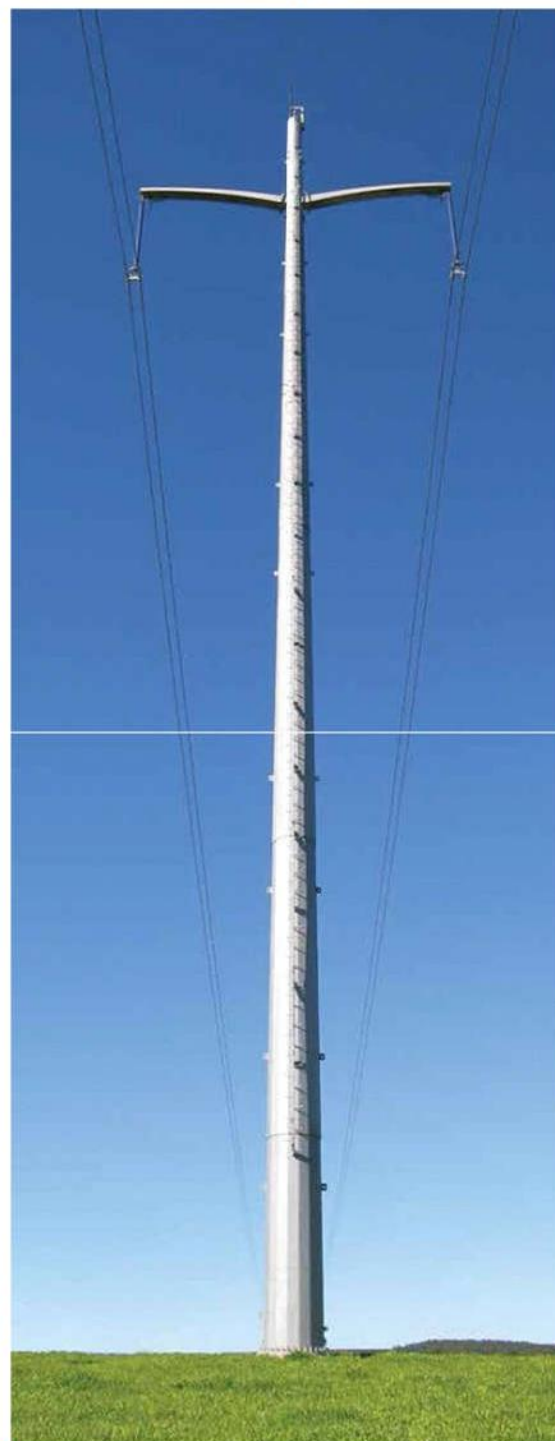
The electric lines that generate the most public interest are often high-voltage transmission lines. These are the largest and most visible electric lines. Most large cities require several transmission lines for reliable electric service.

Transmission lines are larger than the more common distribution lines that exist along rural roads and city streets. Transmission line poles or structures are commonly between 60 and 140 feet tall. Distribution line structures are approximately 40 to 60 feet tall.

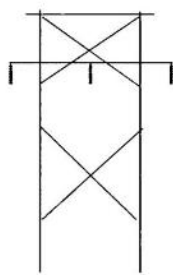
There are several different kinds of transmission structures. Transmission structures can be constructed of metal or wood. They can be single-poled or multi-poled. They can be single-circuited, carrying one set of transmission lines or double-circuited with two sets of lines.

Different transmission structures have different material and construction costs, and require different right-of-way widths, distances between structures (span length), and pole heights. Construction requirements and costs also vary with the different sized voltages. In the past, many transmission lines were constructed on H-frame wood structures and metal lattice structures. New lines are most often constructed with single pole structures because of right-of-way width limitations and environmental considerations. Current right-of-way widths vary between 80 to 150 feet.

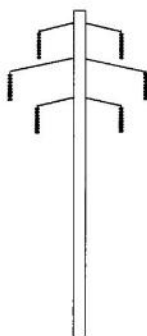
Pole height and load capacity limitations determine the distance between poles (span length) either on the basis of ground clearance or ability to support heavy wind and ice loads. In areas where single-pole structures are preferred, weak or wet soils may require concrete foundations for support. Where a transmission line must cross a street or slightly change direction, larger angle structures or guy wires may be required. Poles with guy wires impact a much larger area. Angle structures are usually more than double the diameter of other steel poles. They are made of steel, usually five to six feet in diameter, and have a large concrete base. The base may be buried ten or more feet below the ground surface. The diameter of the pole and the depth the base is buried depends on the condition of the soils and the voltage of the line.



single-circuit davit



H-frame



double-circuit davit



horizontal line post

Clientele

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