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GNEE EC electric

GNEE EC
CATALOGUE

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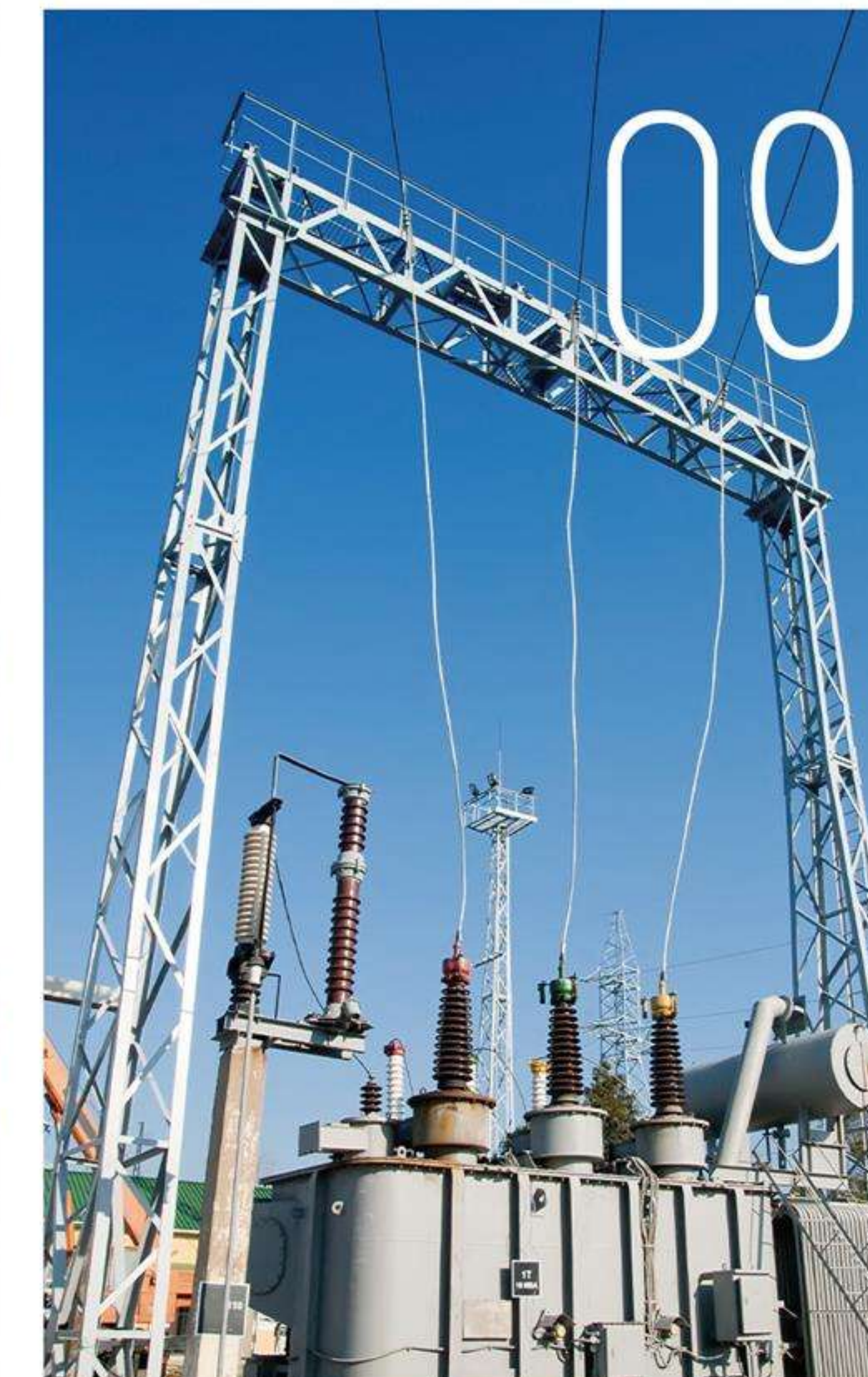
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Company Strength

Industry System

Quality System

Fully Assembled Cores

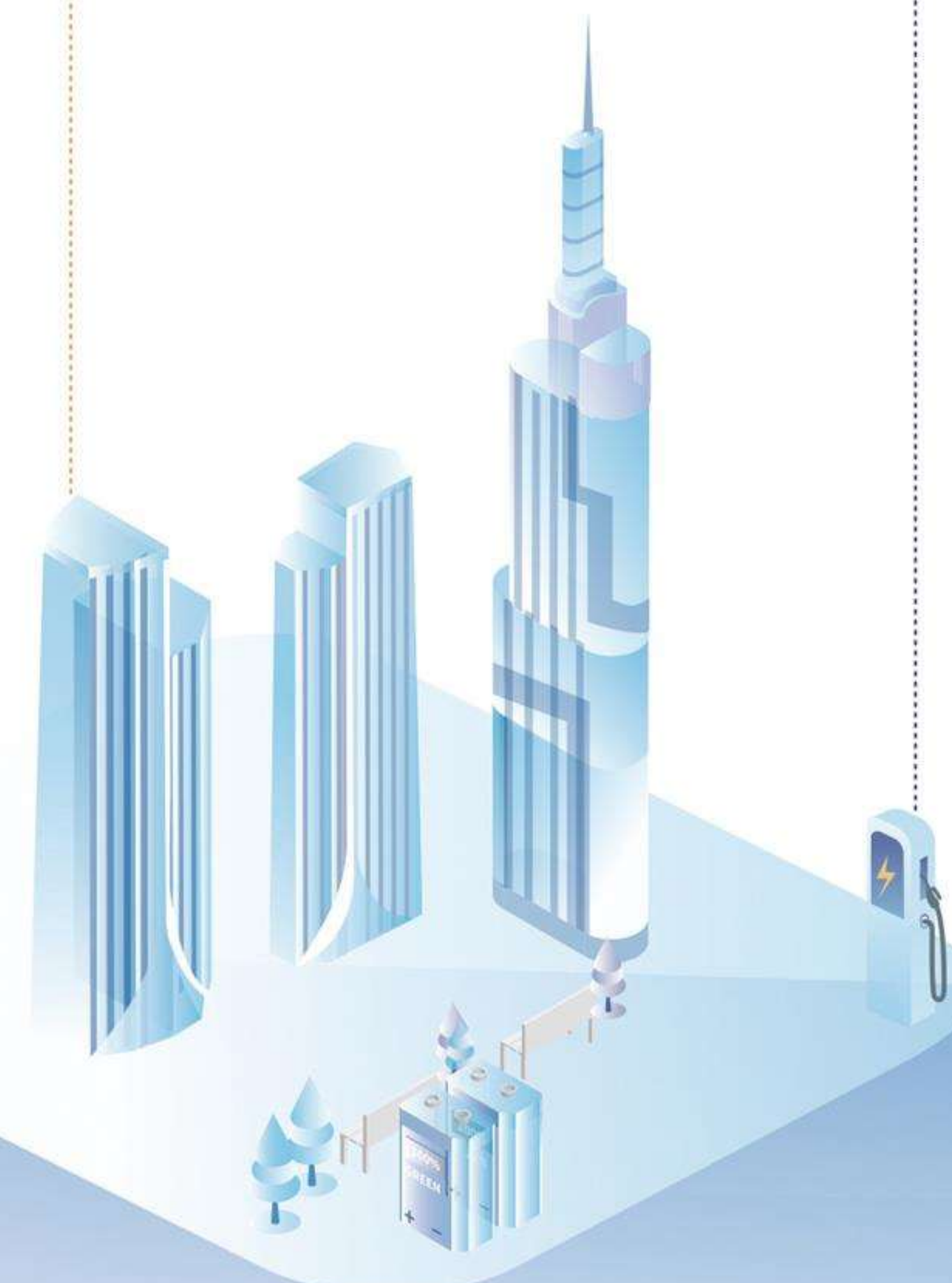
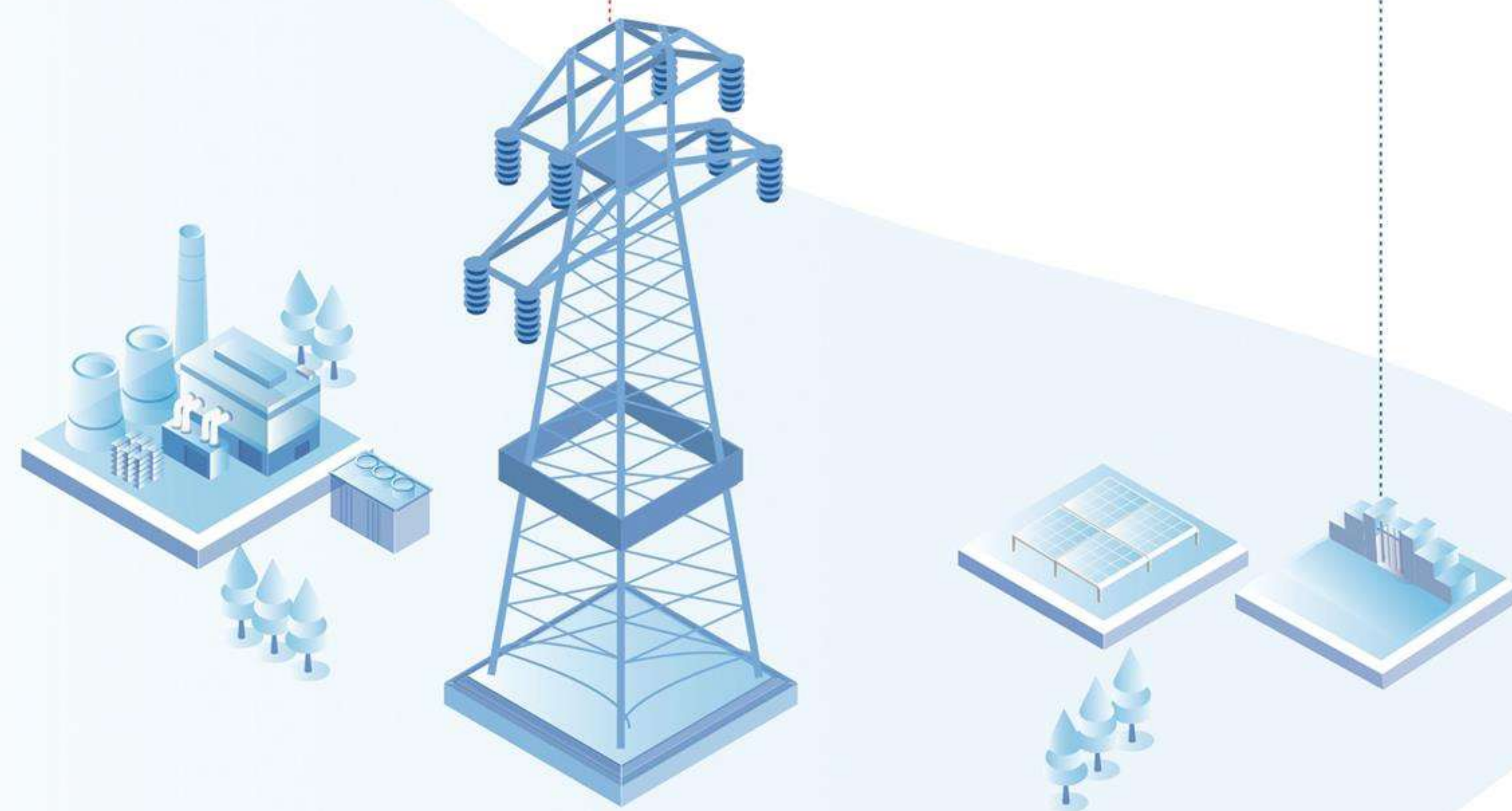
Transformer Series

Dry-type Power Transformer Core

Special Purpose Transformer Core

Oil-immersed Power Transformer Core

Oil-immersed Distribution Transformer Core





■ Finished Goods Warehouse



Transformer Series

- Dry Type Transformer
- Oil-Immersed Transformer
- Prefabricated Substation
- Complete Substation

Vacuum Cast Resin Dry Type Transformer

Phase: Three

Service Voltage: 6KV~35KV Rated capacity: 30KVA
~4000kVA

Vector group: Yyn0, Dyn11

Cooling type: AN/ANAN /ANAF/AFWF

Core material: Silicon Steel

Winding material: Copper/aluminum

Temperature class HV Coil and LV Coil : CLASS F

Protection degree: 100-1P54



Product Advantage

- ① Safe, fire-resistant, pollution-free. Maintenance-free, easy installation, low operating cost
- ① Obvious energy saving effect, strong environmental protection effect, saving urban construction land, low use-cost
- ① Good moisture-proof performance, it can operate normalh/ under 100% humidity, and can be put into operation without pre-drying after shutdown.
- ① Strong heat dissipation capacity, 150% rated load operation under forced air cooling conditions.
- ① Equipped with a perfect temperature protection control system to provide reliable guarantee for the safe operation of the transformer
- ① High reliability. According to the operation study of the products that have been put into operation, the reliability index of the products has reached the international advanced level



10KV Oi-Immersed Transformer

Phase: Three

Service Voltage: 6KV~10KV

Rated capacity: 30KVA~2500kVA

Vector group:Yyn0, Dyn11

Cooling type: ONAN

Core material: Silicon Steel

Winding material: Copper/aluminum

Available fluids: mineral oil and ester fluids

Purpose:Three-phase oil transformers of a sealed version, without oil conservators.

are intended for transforming of electric energy in networks of power systems and in energy consumer networks



10KV Oil-Immersed Transformer Parameters

Oil-Immersed Distribution Transformer Parameters											
Rated Power (kVA)	High Voltage (KV)	Low Voltage (KV)	Vector group	Class I		Class II		Class III		No-load Current (%)	Short Circuit Impedance (%)
				No-load Loss (w)	On-load Loss (w)	No-load Loss (w)	On-load Loss (w)	No-load Loss (w)	On-load Loss (w)		
30	66.31010.511	0.4	Yyn0 Dyn11	65	455/430	70	505/480	80	630/600	2.1	4.0
50				80	655/625	90	730/695	100	910/870	2.0	
63				90	785/745	100	870/830	110	1090/1040	1.9	
80				105	945/900	115	1050/1000	130	1310/1250	1.8	
100				120	1140/1080	135	1265/1200	150	1580/1500	1.6	
125				135	1360/1295	150	1510/1440	170	1890/1800	1.5	
160				160	1665/1585	180	1850/1760	200	2310/2200	1.4	
200				190	1970/1870	215	2185/2080	240	2730/2600	1.3	
250				230	2300/2195	260	2560/2440	290	3200/3050	1.2	
315				270	2760/2630	305	3065/2920	340	3830/3650	1.0	
400				330	3250/3095	370	3615/3440	410	4520/4300	1.0	4.5
500				385	3900/3710	430	4330/4120	480	5410/5150	1.0	
630				460	4460	510	4960	570	6200	0.9	
800				560	5400	630	6000	700	7500	0.8	
1000				665	7451	745	8240	830	10300	0.7	
1250				780	8640	870	9600	970	12000	0.6	
1600				940	10440	1050	11600	1170	145000	0.6	5.0
2000				1082	13180	1225	14640	1360	18300	0.4	
2500				1280	13360	1440	14840	1600	21200	0.31	

Product Advantage

- Low loss: low no-load loss,low load loss, low operating costs.
- Powerful anti-short circuit capacity, high anti-lightning impulse capacity.
- Long service life: The oi tank adopts a fuly sealed structure, the tank and the box edge can be connected by bolts,which can be isolated from the external environment toprolong the service life of the transformer.
- High reliability: The seal parts of the oil tank have been improved to increase the reliability.



35KV Oil-Immersed Transformer

Phase: Three

Primary voltage: up to 35KV

Secondary voltage: up to 800V

Rated capacity: up to 4000kVA

Vector group: Yyn0,Dyn11

Cooling type: ONAN

Core material: Silicon Steel

Winding material: Copper/aluminum

Available fluids: mineral oil and ester fluids



Purpose: Three-phase oil transformers of a sealed version, without oil conservators are intended for transforming of electric energy in networks of power systems and in energy consumer network

Product Structure&Advantage

- ① The full-lined step joint is adopted to improve the flux direction, eliminate the local flux saturation phenomenon at the joint of the iron core, reduce the no-load loss and no-load current of the iron core, and reduce the transformer noise.
- ② In order to enhance the ability to resist short circuit, a number of pressure nails are distributed around the pressure board, and the upper and lower high and low pressure clips are connected by support beams, so that the iron core becomes a whole.
- ③ The surface of the core column is coated with silicon steel sheet special end gluing, so that the silicon steel cut and cut are bonded together, and the iron core becomes a whole body after curing.
- ④ High strength electrical laminated wood supports are used between the lower part of the body and the wall of the tank, making the lower part safe and reliable positioning.

35KV Oil-immersed Transformer Parameters

35kv Oil-immersed Three-phase Double-winding Non-excited Voltage Regulation Distribution Transformer Parameters								
Rated Power (kVA)	Vector group	Class I		Class II		Class III		Short Circuit Resistance%
		No-load Loss (kw)	On-load Loss (75 °C kw)	No-load Loss (kw)	On-load Loss (75 °C kw)	No-load Loss (kw)	On-load Loss (75 °C kw)	
3150	YNd11	1.7	20.7	2.0	20.7	2.4	21.9	7
4000		2.0	24.6	2.3	24.6	2.9	25.9	
5000		2.4	28.2	2.8	28.2	3.5	29.7	
6300		2.9	31.5	3.4	31.5	4.2	33.3	
8000		4.0	34.6	4.7	34.6	5.8	36.5	
10000		4.8	40.8	5.7	40.8	7.0	43.0	8
12500		5.5	48.4	6.5	48.4	8.0	51.1	
16000		6.7	59.2	7.9	59.2	9.7	62.5	
20000		7.9	71.6	9.4	71.6	11.5	75.5	
25000		9.4	84.6	11.1	84.6	13.6	89.3	10
31500		11.1	100.8	13.1	100.8	16.2	106.4	

