Structum is a part of CEP Group Holding
an expert in power and industrial construction area
Structum is the general contractor in electric power industry, which has subdivisions for designing, procurement of equipment and materials, construction of electric-power objects in voltage classes up to 750 kV. Structum is a part of CEP Group Holding - an expert in power and industrial construction area. Resource and technical potential of CEP Group Holding allows us to be flexible and transfer company’s resources from project to project among different countries. Our experience in performance of the greatest infrastructural projects, high level of qualified specialists and technical facilities guarantee timely and safety of project realization of any degree of complexity among Ukraine. We are constantly developing the potential and refining technology to create and implement the most complex projects. All our efforts are aimed at building strong, long-term partnerships with each client.
STRUCTUM CERTIFICATED BY INTERNATIONAL SYSTEM OF CERTIFICATION

1. Quality management system
   SIC.MS. 008.ISO9001.1207

2. Environmental management system
   SIC.MS. 008.ISO14001.1208

3. Occupational health and safety management system
   SIC.MS. 008.ISO45001.1209
ELECTRIC POWER

OHL Overhead transmission lines

- Engineering, procurement and construction
- Right-of-way clearing and access roads
- All tower types installation and erection
- Installation of reinforced-concrete, monolithic, pile foundations
- Installation of phase conductors
- Installation of OPGW
- Testing and commissioning
- Inspection and maintenance
- Emergency restoration
- Experience building up to 750 kV
ELECTRIC POWER

Cable lines

- Engineering, procurement and construction
- Right-of-way clearing and access roads
- Installation of OPGW and signal cable
- Installation of power cable
- Excavation work services
- Testing and commissioning
- Own construction equipment fleet
- Installation equipment for OPGW and power cable
- Inspection and maintenance
- Emergency restoration
- Experience building up to 220 kV
Substations

- Design
- Material and equipment procurement
- Clearing, grading and site preparation
- Foundation construction and civil work
- Equipment installation
- Substation modifications and upgrades
- Inspection services
- Testing and commissioning
- Relay protection
- Experience building up to 750 kV
INDUSTRIAL CONSTRUCTION

- Installation of reinforced-concrete, monolithic, pile foundations for buildings, structures and technical equipment
- Construction of monolithic structures of reinforced concrete buildings
- Installation of building constructions and structures
- Installation of technological equipment
RENEWABLE ENERGY

Wind

- Right-of-way clearing and access roads
- Foundations and civil works
- Substations and grid interconnects
- Turbine erection
- Testing and commissioning

Solar

- System engineering and design
- Equipment supply and installation
- Foundations and civil works
- Pier and panel installation
- Substations and grid interconnections
- Testing and commissioning
Our company has a large group of qualified personnel for the implementation of energy and industrial construction projects, as well as the construction of renewable energy generation facilities.
PERSONNEL STRUCTURE
322 employees

Administration
42 employees
- Management system section
- Legal department
- Finance
- Engineering
- Procurement department

Production
280 employees
- Linemen
- Civil Construction
- Site Management
- Industrial
### Equipment and special machines

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td><strong>Overhead line</strong></td>
<td></td>
</tr>
<tr>
<td>Set of equipment TESMEC for wire lining of OHL 160-180 kH (up to 5 wires in phase)</td>
<td>3</td>
</tr>
<tr>
<td>Set of equipment TESMEC for wire lining of OHL 35 kH-50 kH (up to 2 wires in phase)</td>
<td>3</td>
</tr>
<tr>
<td>Set of equipment TESMEC for wire lining of OHL 25 kH (1 wire in phase)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Cable line</strong></td>
<td></td>
</tr>
<tr>
<td>Set of equipment TESMEC for cable power transmission line lining 70 kH</td>
<td>2</td>
</tr>
<tr>
<td>Set for pneumatic laying of fiber optic communication cables, Cable Jet P01</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of equipment</th>
<th>Specification</th>
<th>Chassis</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Truck crane</td>
<td>14-30 tons</td>
<td>6*6</td>
<td>15</td>
</tr>
<tr>
<td>Semi-trailer truck, L-12m</td>
<td>21 tons</td>
<td>6*6</td>
<td>7</td>
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<tr>
<td>Drop-side truck with a manipulator</td>
<td>12 tons</td>
<td>6*6</td>
<td>11</td>
</tr>
<tr>
<td>Dumper</td>
<td>12 tons</td>
<td>6*6</td>
<td>2</td>
</tr>
<tr>
<td>Drilling rig</td>
<td>diameter 800 mm</td>
<td>6*6</td>
<td>1</td>
</tr>
<tr>
<td>Truck-mounted</td>
<td>26 m</td>
<td>6*6</td>
<td>5</td>
</tr>
<tr>
<td>Truck-mounted</td>
<td>40 m</td>
<td>6*6</td>
<td>2</td>
</tr>
<tr>
<td>Excavator</td>
<td>25 t/1.4 m3</td>
<td>caterpillar track</td>
<td>4</td>
</tr>
<tr>
<td>Bulldozer</td>
<td>16 tons</td>
<td>caterpillar track</td>
<td>10</td>
</tr>
<tr>
<td>Multifunctional engineering machine</td>
<td>42 tons</td>
<td>caterpillar track</td>
<td>3</td>
</tr>
<tr>
<td>Brigade vehicle</td>
<td>12 person</td>
<td>6*6</td>
<td>19</td>
</tr>
<tr>
<td>Brigade vehicle</td>
<td>8 person</td>
<td>4*4</td>
<td>6</td>
</tr>
<tr>
<td>Brigade vehicle Pick-Up</td>
<td>5 person</td>
<td>4*4</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>95</td>
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</table>
PROJECTS
The construction of a diversion of the OHL 330 kV Chornobyl NPP – SS Pivnichna to SS “Kyivska”

The length is 69.3 km, and it lies within the territory of the Vyshhorodskyi, Borodianskyi and Makarivskyi districts within the Kyiv region. At the stage of the new construction of a double circuit line, 269 towers were installed. Also we completed the installation of wires (brand AC 400/51) at a length of 851.3 km. The installation of the ground wire (brand TK 11) was a length of 143.7 km.
The reconstruction of towers section No. 69-140, No. 172 portal SS 330 kV “Dnipro-Donbas” OHL 330 kV L-201/202 “Zaporizka 750 – Dnipro-Donbas №1, №2”

The length of the reconstruction section of the double circuit OHL is 16.3 km. The peculiarity of the OHL 330 kV reconstruction is that the work was carried out in difficult conditions near the operating OHL. In the framework of the project, the installation required 77 towers and the installation of 204.4 km of wire. It also required 34.6 km of ground wire.
The construction of the diversion OHL 750 kV Khmelnytska NPP-Chornobylska NPP at SS 750 kV “Kyivska”

The length of the OHL is 129.7 km. The project execution envisaged the installation of 322 foundations under the towers and 322 power transmission towers. It also required the installation of a wire 2021.6 km long and the installation of a ground wire 267.8 km long.
The construction of OHL 330 kV “Novokakhovska - Khersonska”

The route lies through the Kherson region territory. Within the project implementation, a new double-circuit OHL 330 kV was built with a total length of 15.0 km. The reconstruction of the existing OHL 330 kV had a total length of 35.5 km long. At the stage of new construction, 58 foundations were installed under the towers and 58 power transmission line towers were installed. We also installed wire 185.3 km long, as well as ground wire (including OPGW).
Construction of OHL 330 kV “Novokakhovska-Ostrovska”

The total length of the OHL is 27.6 km. The OHL route runs through the Kherson region territory. The project envisaged a new construction of the double circuit OHL 330 kV, which included the installation of 85 foundations and 85 power transmission line towers, the installation of a wire 339.2 km long, and the installation of ground wire (including OPGW). Reconstruction of the existing OHL 330 kV involved the replacement of 19 towers and foundations, the reinstallation of existing wire, and the installation of a new ground wire (including OPGW).
The Reconstruction of the OHL 750 kV “Zakhidnoukrainska – Albertirsha”

According to the project task, there was provided the project reconstruction of the existing OHL 750 kV “Zakhidnoukrainska – Albertirsha”. Replacement of the existing angle-tension steel tower № 421 with the new angle-tension transposition steel tower (with stand) with zinc-coated. Replacement of insulation and coupling fittings. The total length of route section from the tower №419 to tower №422 to be reconstructed is 0.929 km. The section between №419 - №422 provides for lowering of wires and cables with a total length of 0.929 km.
The construction of OHL 750 kV “Zaporizhia NPP – SS 750 kV Kakhovska”

The length of the OHL is 190 km. The project involves the installation of 495 towers under foundations, 495 power transmission towers, phase wire, and ground wire (OPGW). The project aims to increase the reliability of the southern modes of USE of Ukraine by lifting network capacity restrictions Zaporizhzhya NPP.
The construction of the OHL 330 kV Central SS WPP – Melitopol

For connection of input generating capacities of WPP to the electric power system of Ukraine, there is provided the construction of a single-circuit OHL 330 kV from Central SS 35/330 kV “Zaporizhzhya WPP” to the SS “Melitopol-330”. The length of the OHL is 24 km. The OHL routing passes through the territory of the Pryazovsky and Melitopol districts of Zaporizhzhya region. The project implementation provides the installation of foundations under the steel angle-tension tower in the amount of 37 pieces, installation of 37 steel towers and 72 concrete towers, installation of 147 km of wire, 24 km of ground wire and fibre-optic communication line.