POWER GENERATORS

The current need for generators is about 1,300 units. Half of the need are generators with 10-30 kW and 100-300 kW capacity. There is also a significant need for gas turbines (10+ MW) for the sustainable supply of heat and electricity to consumers.

### Chart: Power Generator Requirements

- **<10 kW**: 45 units
- **10-30 kW**: 16 units
- **30-100 kW**: 44 units
- **100-300 kW**: 54 units
- **300-500 kW**: 11 units
- **500-700 kW**: 1 unit
- **>700 kW**: 10 units

### Chart: Gas Turbine Installations

- **High priority, pcs**: 40

### Geography of received aid distribution

- **More than 100 pcs**
- **50-100 pcs**
- **10-50 pcs**
- **Up to 10 pcs**

energy companies with infrastructure in 2+ regions - 770
The current need for power transformers is over 800 units. The largest and most critical group are medium voltage transformers of 10-40 kV (~600 units), as well as autotransformers (80 units).

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Provided</th>
<th>Not Provided</th>
<th>High Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low voltage</td>
<td>39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium voltage</td>
<td>572</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High voltage</td>
<td>112</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autotransformers</td>
<td>80</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Geography of received aid distribution**

- more than 100 pcs
- 10-100 pcs
- up to 10 pcs

Energy companies with infrastructure in 2+ regions: 90
The largest number of requests for measuring transformers is for low (>0.6 kV) and medium voltage (10-40 kV) current transformers. About 200 units of such equipment were received as aid, i.e. ~5% of the need.

**Geography of received aid distribution**

- more than 60 pcs
- 20-60 pcs
- up to 20 pcs

*energy companies with infrastructure in 2+ regions* 150
**SUPPORTS, CABLE & WIRE**

The frontline areas, where active hostilities occur, have the highest risk of power grids damage and are most problematic in terms of electricity supply. Requests from system operators in Mykolaiv, Zaporizhzhia, Kharkiv, and Chernihiv regions are about 85% of the total needs for power supports and cables. Although most of the aid received is directed there, only 10-20% of these needs are covered.

**OTHER EQUIPMENT**

One of the important prerequisites for prompt restoration of damaged networks is the ability of repair crews to quickly reach the damage site (vehicles) and to perform repairs simultaneously in different locations using special equipment. Such equipment was practically not provided as humanitarian aid.

* "Vehicles" include passenger cars, vans, minibuses, buses

** "Special equipment" includes car towers, mobile cranes, dump trucks, tractors, forklift trucks, excavators, etc.

**Contact to support:** AidEnergy@mev.gov.ua   UkraineEmergencySupport@energy-community.org

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