

**Comprehensive Urgent Needs of the Government of Ukraine in Energy  
Equipment (both Ministry of Energy and Ministry for Development of  
Communities and Territories):**

**I. Power supply**

**1. Power Equipment**

**1.1. Power Transformers and Autotransformers**

- **750/330 kV:** 500 / 750 / 1000 MVA – **4 pcs**
- **330/110/35 kV:** 200 / 250 / 300 / 400 MVA (incl. 330/110 kV autotransformers) – **5 pcs**
- **110/35/10 kV:** 16–40 MVA (incl. 25 MVA) – **34 pcs**
- **150/35/10 kV:** 25–63 MVA (incl. 40 MVA) – **14 pcs**
- **35/10 kV, 35/6 kV:** 2.5 / 4 / 6.3 / 10 / 16 MVA – **47 pcs**

**1.2. Circuit Breakers**

- **SF<sub>6</sub> 750 kV:** 36 pcs
- **SF<sub>6</sub> 330 kV:** 143 pcs
- **SF<sub>6</sub> 110 kV:** 64 pcs
- **SF<sub>6</sub> 150 kV:** 64 pcs
- **Vacuum 35 kV:** 145 pcs
- **Vacuum 6–10 kV:** 368 pcs

**1.3. Disconnectors (Isolators)**

- **750 kV, 330 kV, 110 kV, 150 kV, 35 kV:** 743 pcs

**1.4. Current and Voltage Transformers**

- **750 kV, 330 kV, 110 kV, 150 kV, 35 kV, 6–10 kV:** 1,016 pcs

**1.5. Surge Arresters**

- **750 kV, 330 kV, 110 kV, 150 kV, 35 kV, 10 kV:** 361 pcs

**1.6. Insulators and Bushings**

- **Bushings (110 / 150 / 330 kV, RIP/RIS):** 80 pcs
- **Post insulators 35–110 kV:** 2,109 pcs

## **2. Switchgear and Substation Equipment**

- **KRU / KRUN 6–10 kV:** 78 pcs
- **GIS / compact switchgear 35 kV (KRPZ):** ~3 kits
- **Enclosed & modular substations:** ~8 kits

## **3. Cable Products**

- **Power cables 6–10 kV:** >10 km
- **Control cables (KVVG or equivalents):** >50 km
- **Cable joints/terminations:** >500 kits

## **4. Auxiliary Equipment**

- Transformer oil (T-1500, Nytro, equivalents)
- Battery systems 110–220 V DC & chargers – **>21 pcs**
- Mobile substations 25 MVA, 150/35/10(6) kV – **10 pcs**

## **5. Electricity Generation (Diesel and Backup Power)**

### **5.1. Diesel and Autonomous Generators (Consolidated)**

**Total:** over **1,950 units**, total installed capacity **>530 MW**

**By capacity range:**

- 0.1 MW - approx. 1,100 units
- 0.1–0.6 MW - approx. 460 units
- 1–5 MW - approx. 230 units
- ≥5 MW - approx. 50 units

(including energy facilities, district heating, water supply companies, and mobile reserve stock)

## **II. Heat Generation**

## **6. Cogeneration and Heat Generation Equipment**

### **6.1. Cogeneration Equipment**

- 30–100 kW – 67 pcs
- 0–1 MW: 196 units (51.23 MW)
- 1–2 MW: 51 units (60.4 MW)

- 2–5 MW: 54 units (162.1 MW)
- 5–10 MW: 24 units (190.3 MW)

## **6.2. Modular Boiler Houses**

- 0–0.5 MW: 44 units (10.72 MW)
- 0.5–1 MW: 52 units (32.6 MW)
- 1–2 MW: 89 units (103.44 MW)
- 2–5 MW: 59 units (160.6 MW)
- 5–10 MW: 18 units (110.16 MW)
- 10–20 MW: 10 units (110 MW)

## **7. Electric Motors (or equivalents)**

(for district heating enterprises)

- 4AZM 5000/6000, 6 kV, 5000 kW, 2982 rpm - 1 unit
- DAZO-15-49-8/10, 6 kV, 630/320 kW, 734/595 rpm - 6 units
- AO2-92-4U2, 0.4 kV, 11 kW, 750 rpm - 2 units
- 4AM160M8UZ, 0.4 kV, 11 kW, 730 rpm - 2 units
- AIR160M8UZ, 0.4 kV, 11 kW, 730 rpm - 1 unit
- A02-81-2, 0.4 kV, 40 kW, 2920 rpm - 1 unit
- 4AMN225M2, 0.4 kV, 90 kW, 2930 rpm - 3 units

## **III. Water supply and heat supply Companies**

### **9. Diesel generators water supply: ~869 units (335.3 MW)**

- 0–0.1 MW: 586 units (17.54 MW)
- 0.1–0.6 MW: 169 units (38.64 MW)
- 1–5 MW: 107 units (203.82 MW)
- 5 MW: 7 units (75.3 MW)

### **10. Diesel generators heat supply: ~543 units (196,66 MW)**

- 0–0.1 MW: 364 units (13,04 MW)
- 0.1–0.6 MW: 121 units (25.2 MW)
- 0.6 - 1 MW: 9 units (7.16 MW)
- 1 – 5 MW: 45 units (98,76MW)
- 5 – 22,5 MW: 4 units (52,5 MW)

The total requirement water and heat supply amounts to – 1412 units ( 531,96 MW)

#### **IV. Mobile Equipment Fund/Stock:**

**Operator: SARDI: STATE AGENCY FOR RESTORATION AND DEVELOPMENT OF INFRASTRUCTURE**

##### **Block-modular boiler houses:**

- 1–3 MW: 586 units (1,284,185.23 kW heat power)

##### **Diesel generators:**

- AVR 1.5 MW: 136 MW (funded via state budget)

#### **V. Urgent need for cogeneration for the city of Kyiv (Kyivteploenergo Municipal Enterprise)**

- Gas reciprocating unit (GPU) 2.3 MW 11 units
- Gas reciprocating unit (GPU) 2.5 MW 19 units
- Gas reciprocating unit (GPU) 4.5 MW 20 units
- Gas reciprocating unit (GPU) 5.0 MW 2 units
- Gas reciprocating unit (GPU) 10.0 MW 5 units
- Gas turbine unit (GTU) 57 MW 2 units
- Steam turbine unit (STU) 46 MW 1 unit
- Battery energy storage system (BESS) 10 MW 2 units

#### **Focal points**

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