

## ZERO-EMISSION ENERGY POWER PLANT - Z-EEPP

**Renewable energy** encompasses wind, biomass (such as landfill gas and biogas), hydropower, solar (thermal and photovoltaic), geothermal energy, and tidal power. These renewable sources are intended as alternatives to fossil fuels (oil, coal, natural gas) and nuclear fuel (uranium). The concentration of these renewable energy sources has a significant impact on their utilization. While solar energy is the most abundant, it is also the most dispersed. Wind energy can be more concentrated, with a single wind turbine having a capacity ranging from several to a dozen megawatts. Hydropower plants in Poland, utilizing water from a large area, can generate power in the order of megawatts, and the largest pumped storage power plant in Poland has a capacity of 716 MW.

**Through a novel application of physics**, the utilization of several highly unique innovations, and the combination of various cutting-edge technologies, we have managed to create an innovative and, so far, the only stable, emission-free, fully accessible, environmentally friendly source of energy. It can successfully compete with well-known renewable energy power plants (solar, wind, water) as well as conventional power plants based on fossil fuel combustion (coal, gas, oil, uranium).

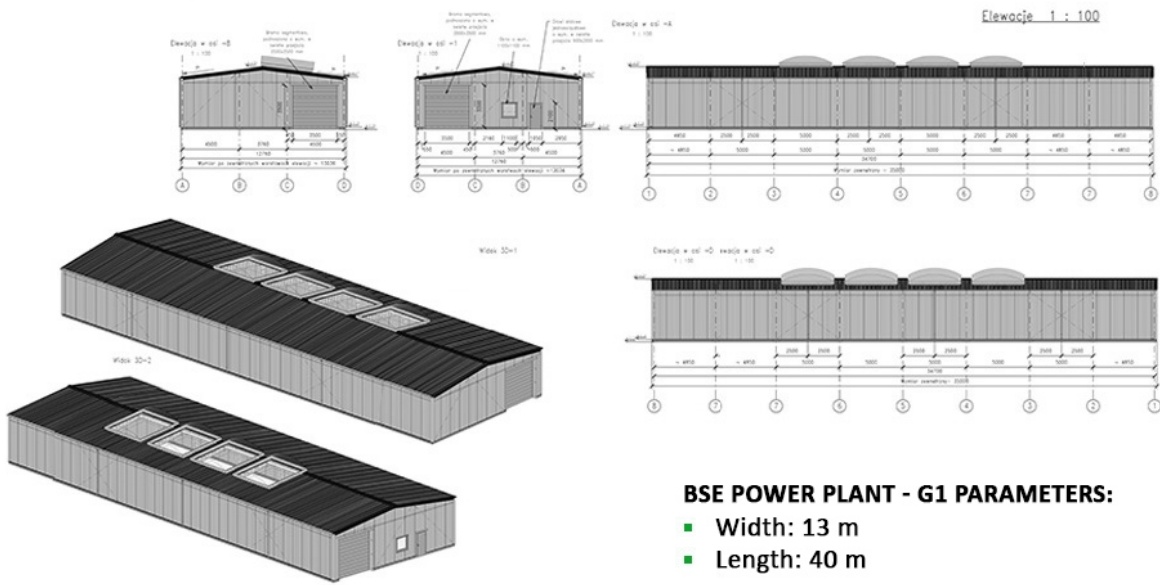
**ZERO-EMISSION-ENERGY POWER PLANT –Z-EFPP** is several times more efficient than other known solutions in the market for energy production. A sample module of the **ZERO-EMISSION-ENERGY POWER PLANT** has a nominal power of **5 MW** (productivity: 8760h x 5 MW = 43,800 MWh/year) and consists of **10 generators** with a continuous power of **5 MW**, operating steadily 24 hours a day. The land use for a **5 MW** power plant is very small, around 2500 m<sup>2</sup>. The **ZERO-EMISSION-ENERGY POWER PLANT** can be built with any capacity in the range of **1-50 MW** by combining multiple smaller modules.

**ZERO-EMISSION-ENERGY POWER PLANT 5 MW** and **PV – Photovoltaic Power Plant 45 MW** are installations with similar annual energy production and have project parameters: **Z-EEPP** – productivity **1 MW = 8760 MWh/year**, **PV** – productivity **1 MW = 1100 MWh/year**; investment area/plot for **Z-EEPP– 0.25 ha** for **PV – 35 ha**; stability of energy production for **Z-EEPP** – stable 24 hours a day for **PV** – unstable/works only on sunny days; time to obtain PnB for **Z-EEPP** – 0.5 years for **PV** – at least 1.5 years; the energy produced by **Z-EEPP** and **PV** is ecological energy.

### Other favorable arguments for the EFP project:

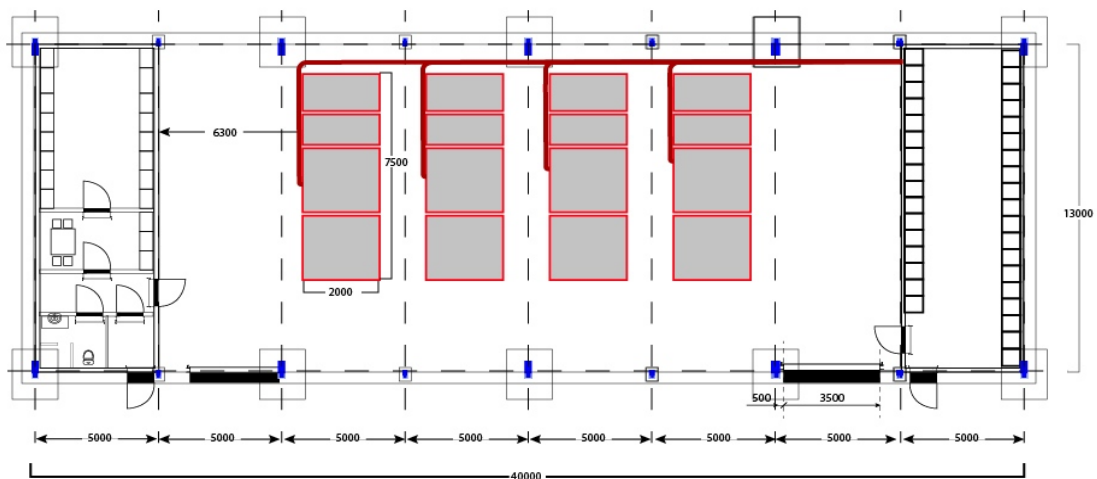
- The ZERO-EMISSION-ENERGY POWER PLANT is located at the facility/energy recipient – no transmission costs and capacity fees.
- Energy costs for the end customer are 30-50% lower (depending on cooperation conditions) than current market prices.
- EFP has full investment financing without the involvement of the end customer's capital.
- Land tax is significantly lower due to the investment area.

## BSE POWER PLANT-G1/2 MW – INSTALLED POWER: 2 MW

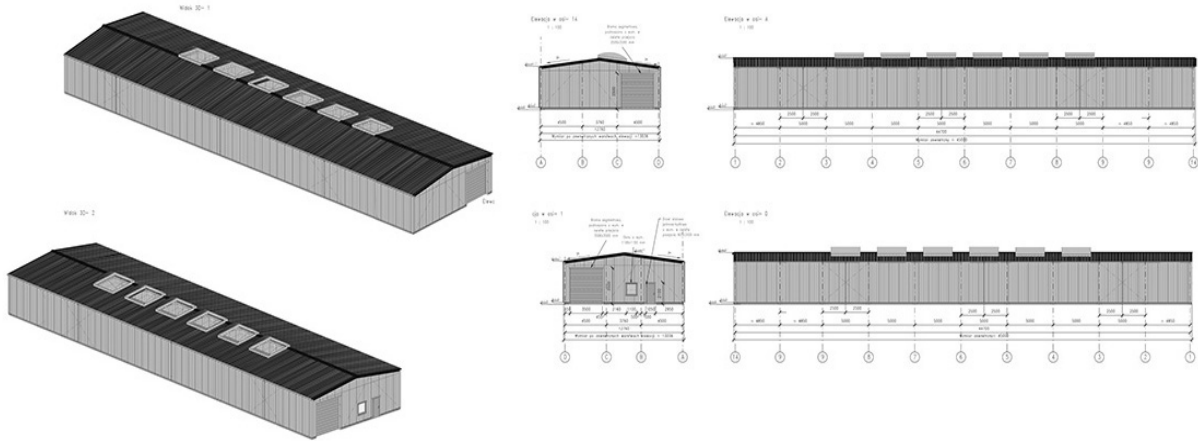


**BSE POWER PLANT - G1 PARAMETERS:**

- Width: 13 m
- Length: 40 m

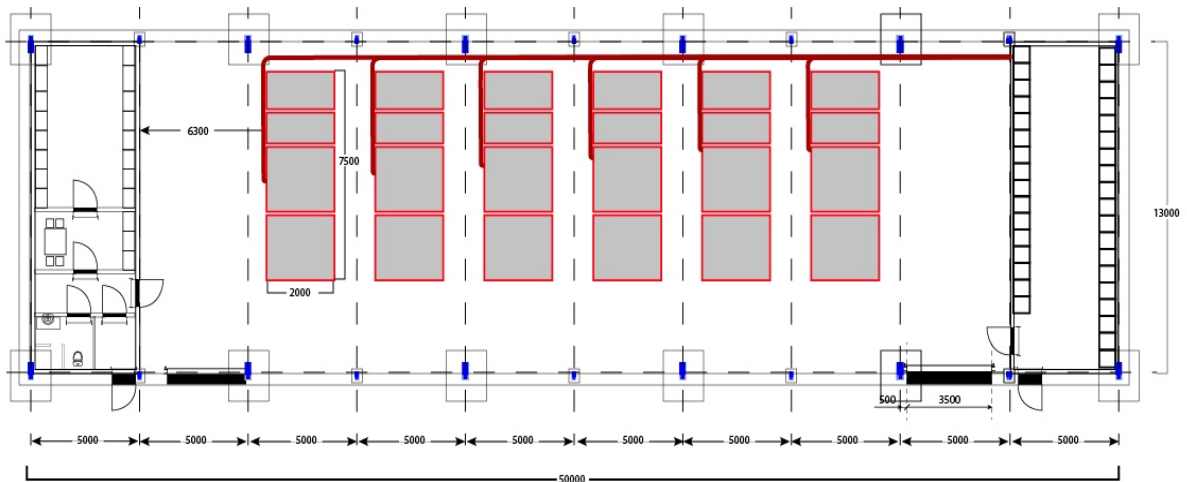


## BSE POWER PLANT-G1/3 MW – INSTALLED POWER: 3 MW

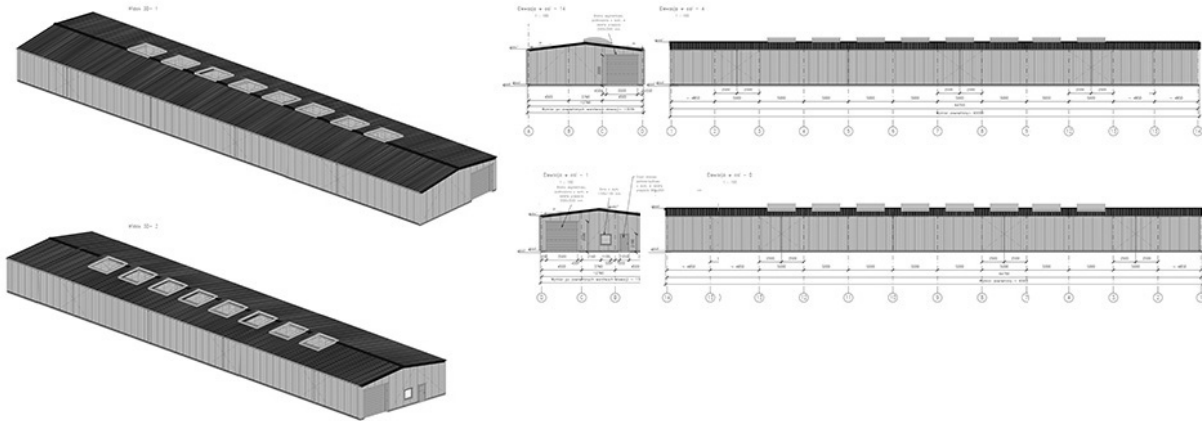


### **BSE POWER PLANT - G1 PARAMETERS:**

- Width: 13 m
- Length: 50 m

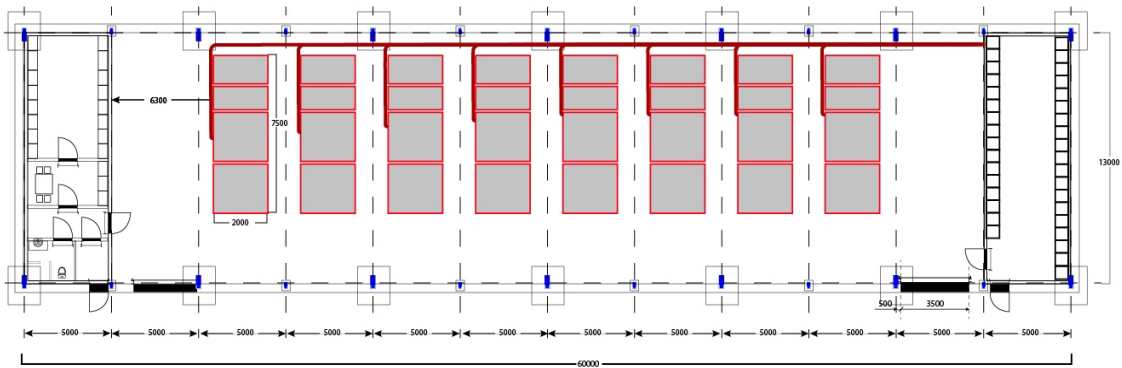


## BSE POWER PLANT-G1/4 MW – INSTALLED POWER: 4 MW

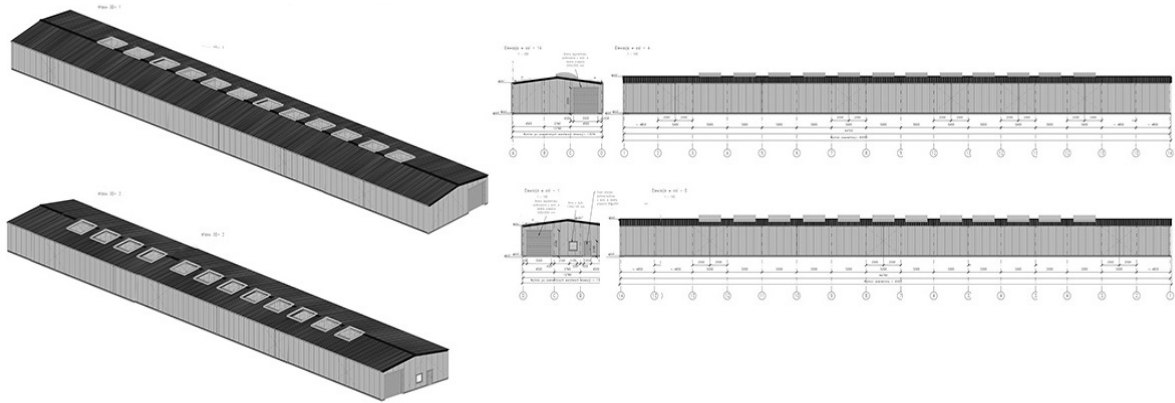


### **BSE POWER PLANT - G1 PARAMETERS:**

- Width: 13 m
- Length: 60 m

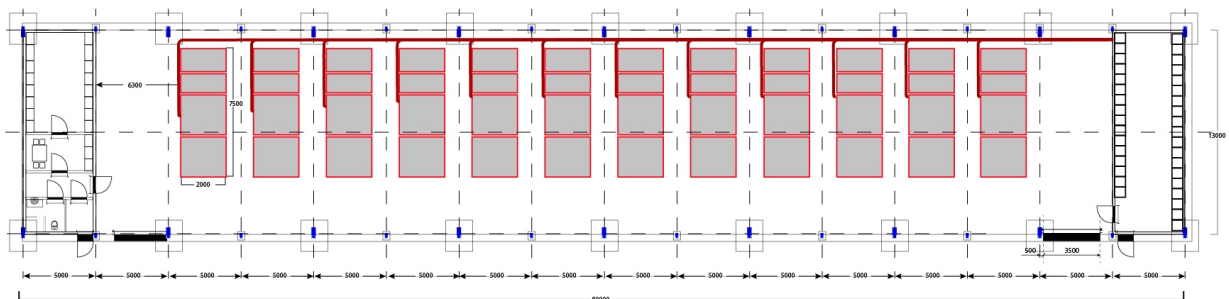


## BSE POWER PLANT-G1/6 MW – INSTALLED POWER: 6 MW

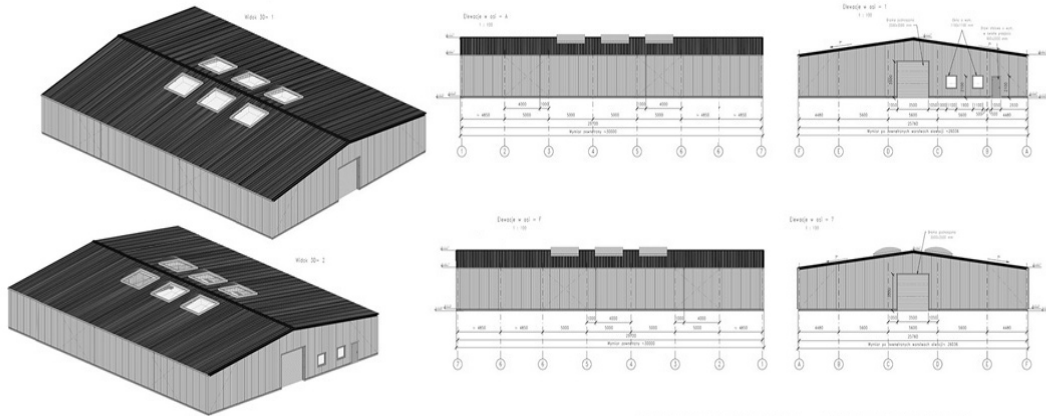


### BSE POWER PLANT - G1 PARAMETERS:

- Width: 13 m
- Length: 80 m

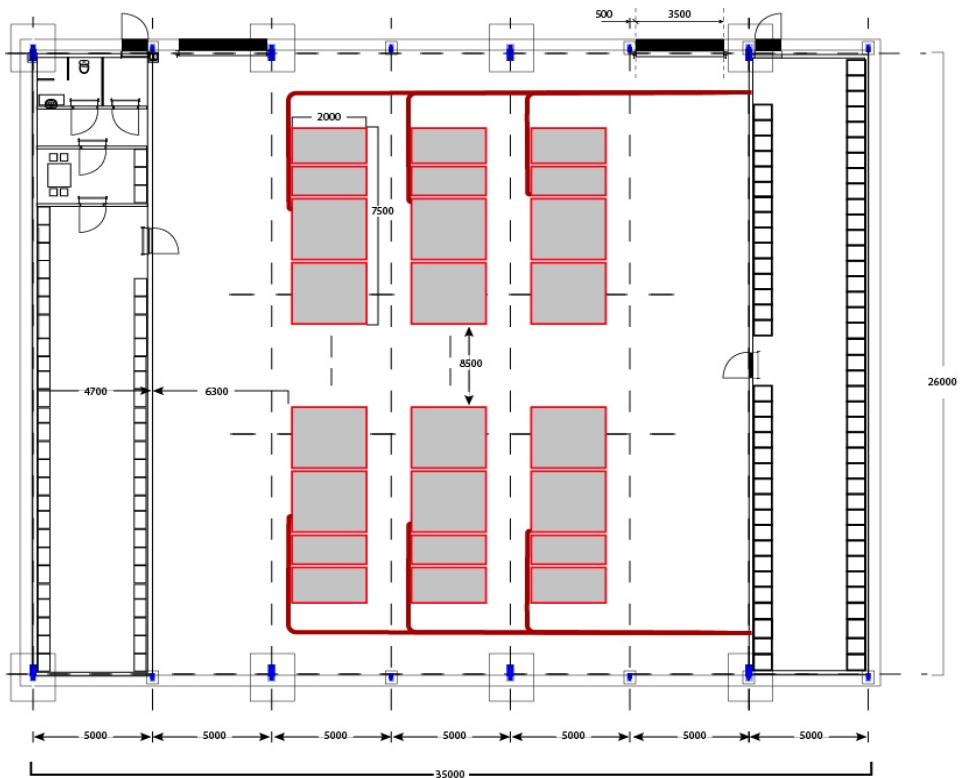


**BSE POWER PLANT-G2/3 MW – INSTALLED POWER: 3 MW**

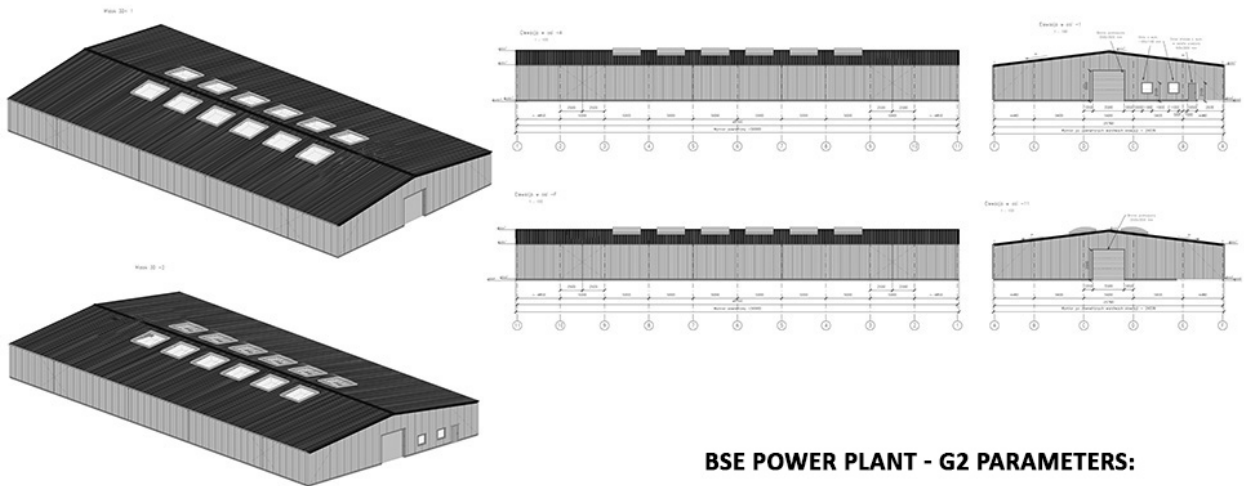


**BSE POWER PLANT - G2 PARAMETERS:**

- Width: 26 m
- Length: 35 m

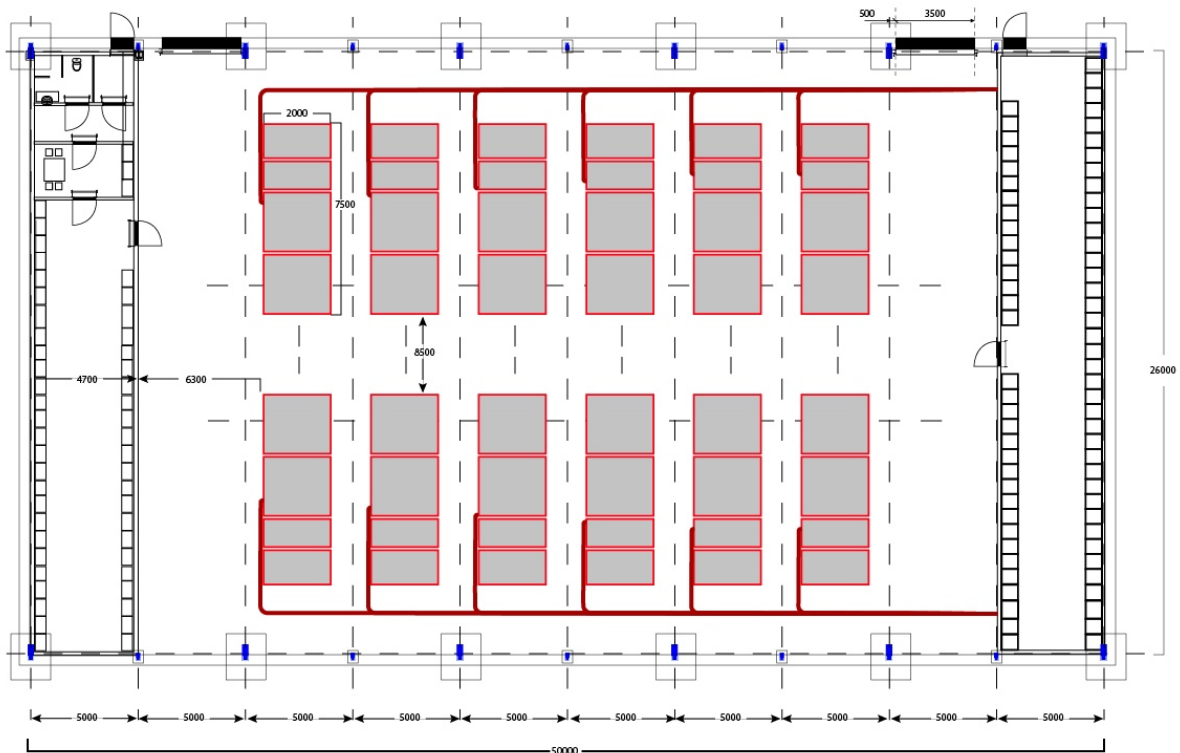


## BSE POWER PLANT-G2/6 MW – INSTALLED POWER: 6 MW

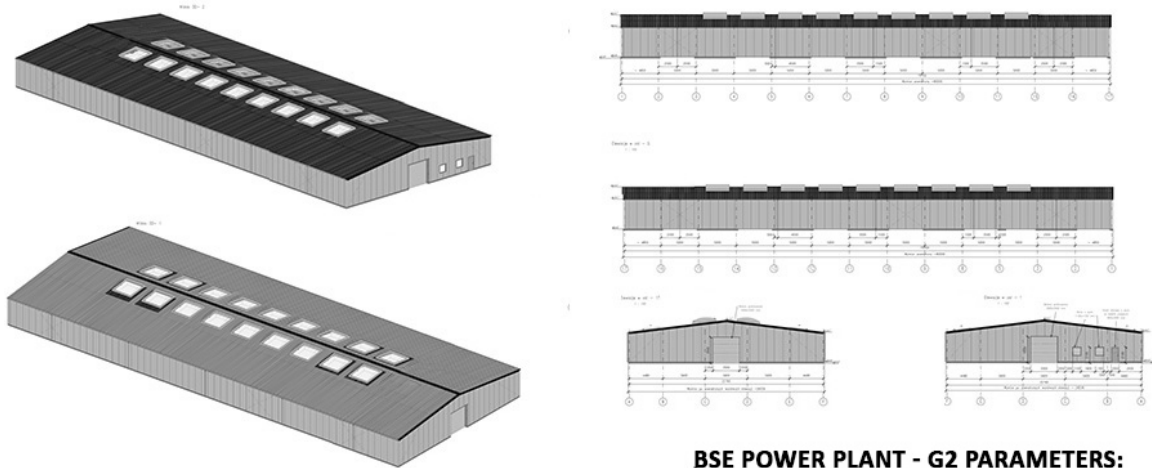


### **BSE POWER PLANT - G2 PARAMETERS:**

- Width: 26 m
- Length: 50 m

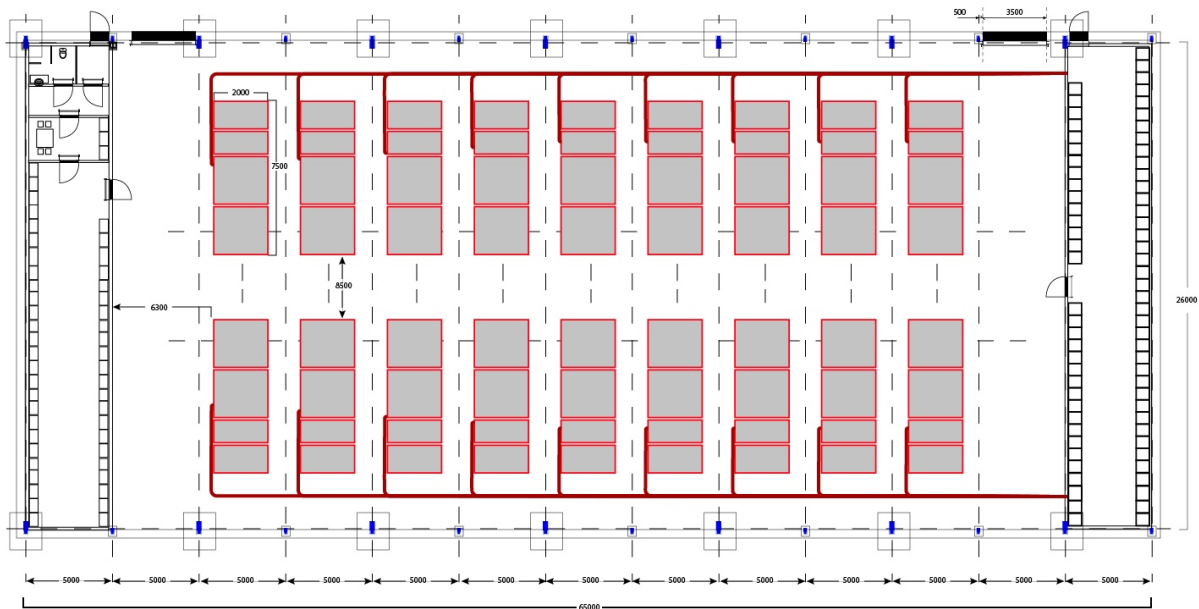


**BSE POWER PLANT-G2/9 MW – INSTALLED POWER: 9 MW**



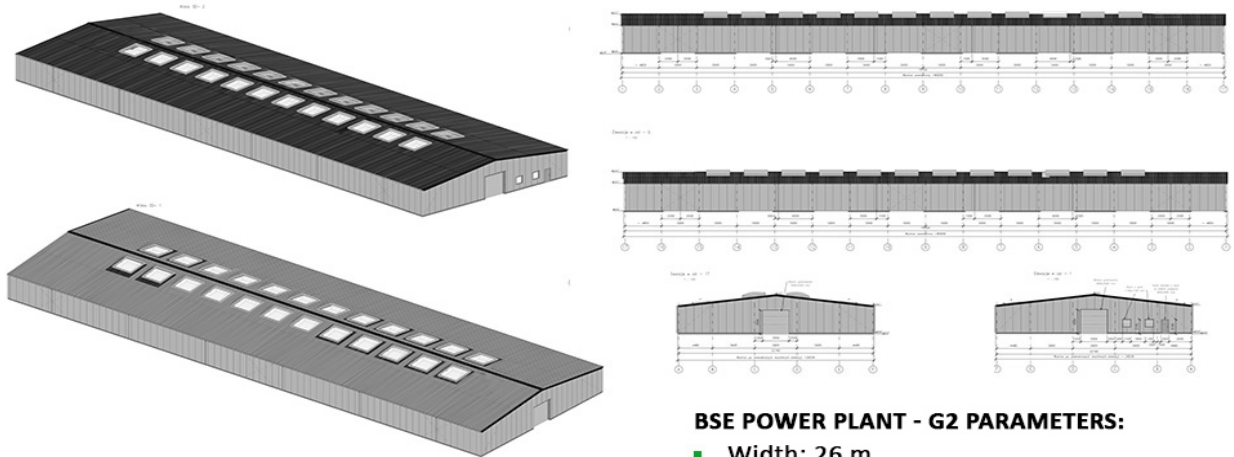
**BSE POWER PLANT - G2 PARAMETERS:**

- Width: 26 m
- Length: 65 m





## BSE POWER PLANT-G2/12 MW – INSTALLED POWER: 12 MW



**BSE POWER PLANT - G2 PARAMETERS:**

- Width: 26 m
- Length: 80 m

