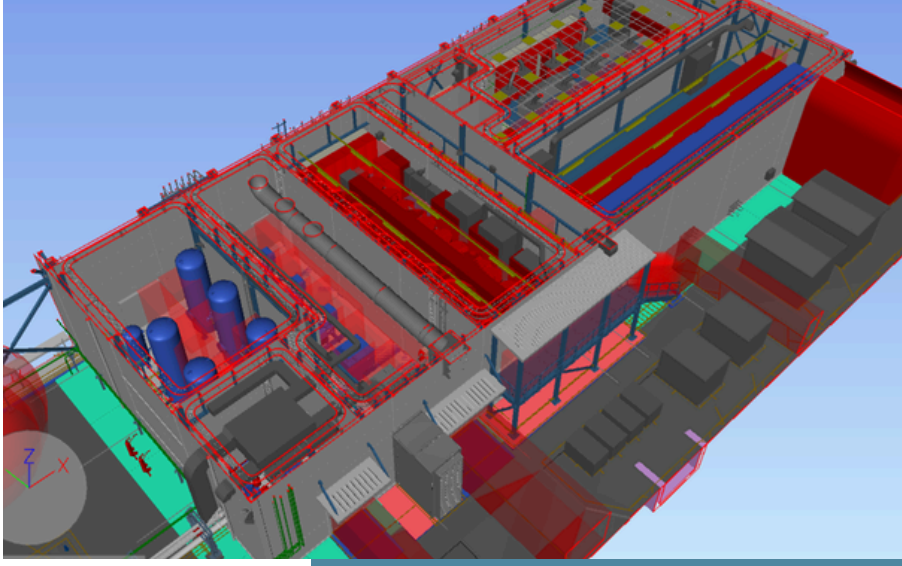
TRILLINI ENGINEERING

EPKO GROUP

MANGYSTAU HYBRID POWER PLANT (HPP)



Sector: Industry & power

Year: 2025 / on going

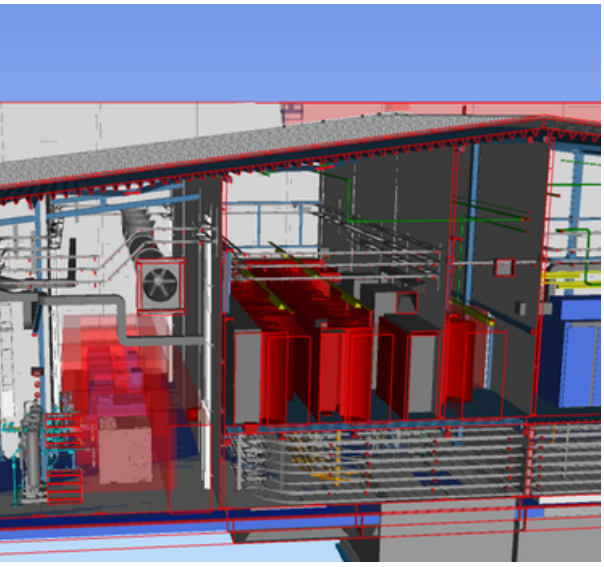
Place: Kazakistan

Direct client: KCOI LLP

End client: Confidiential

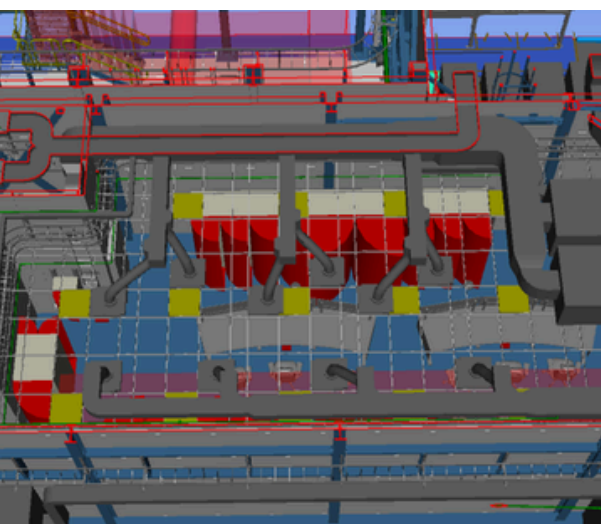
OBJETIVES

The scope of work includes the **HVAC detailed engineering** related to a **Utility Building** serving a **thermoelectric** power plant associated with a **photovoltaic field**.
The HVAC engineering was fully managed by the **Trillini Engineering** team, including the **technical evaluation of bids** and the **follow-up of the designated vendor**.
All the developed engineering documentation was reviewed and approved by the final client.



MAIN ACTIVITIES

HVAC PSL activities (on behalf of **KCOI**), including the definition of the system architecture, engineering calculations, project specifications, datasheets and material requisitions, followed by the **technical alignment of bids** and the **engineering follow-up of the designated vendor.**



SOLUTIONS

The project involved an **HVAC PSL**, who acted as **interdisciplinary interface** with the other disciplines on the client side, while coordinating a team of **n.3 HVAC designers.**
The main challenge of this project was to adapt the design of an **industrial air conditioning system** within **highly congested rooms** with **minimal installation and maintenance clearances**, while at the same time defining **equipment specifications** compliant with the **EAC Eurasian certification.**