HOPE Programme Poland 2023





Source: aranjuezmedinaon Freepik.com



Who are we?

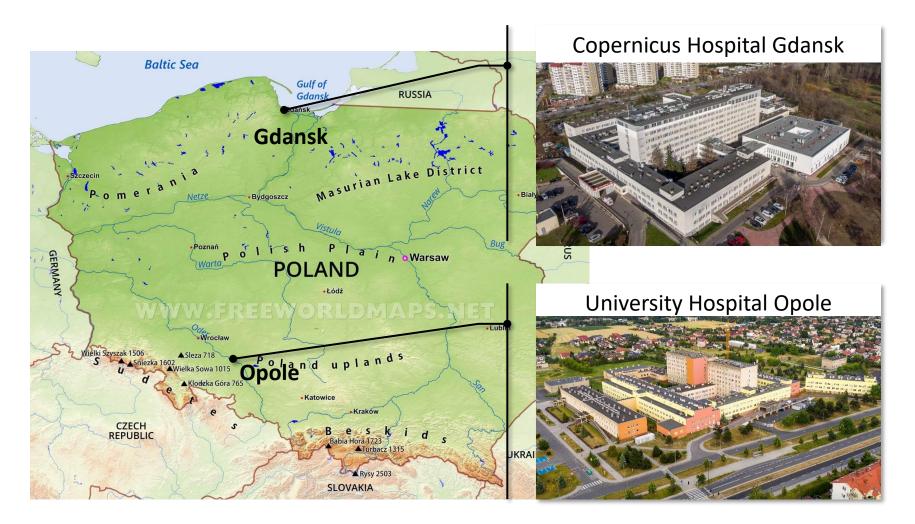


Marine Castaing (Italy), Mette Nielsen (Denmark), Jose-Luis Sampedro (Spain), Tassilo Bauer (Germany)





Where have we been in Poland?

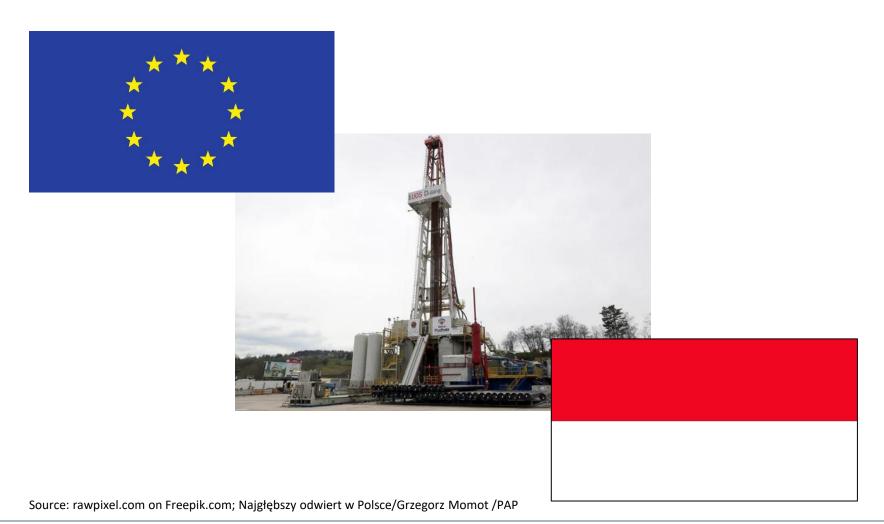


Source: www.freeworldmaps.net





The Polish approach to climate change







Decrease the demand of energy of the buildings

Use more efficient equipment

Use of renewable sources of energy



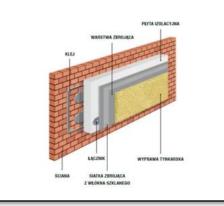


Decrease the demand of energy of the buildings

Use more efficient equipment

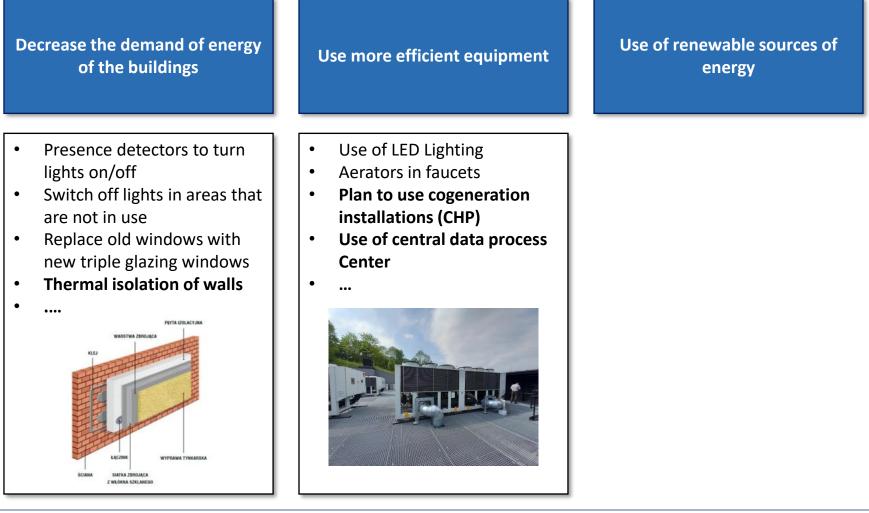
Use of renewable sources of energy

- Presence detectors to turn lights on/off
- Switch off lights in areas that are not in use
- Replace old windows with new triple glazing windows
- Thermal isolation of walls



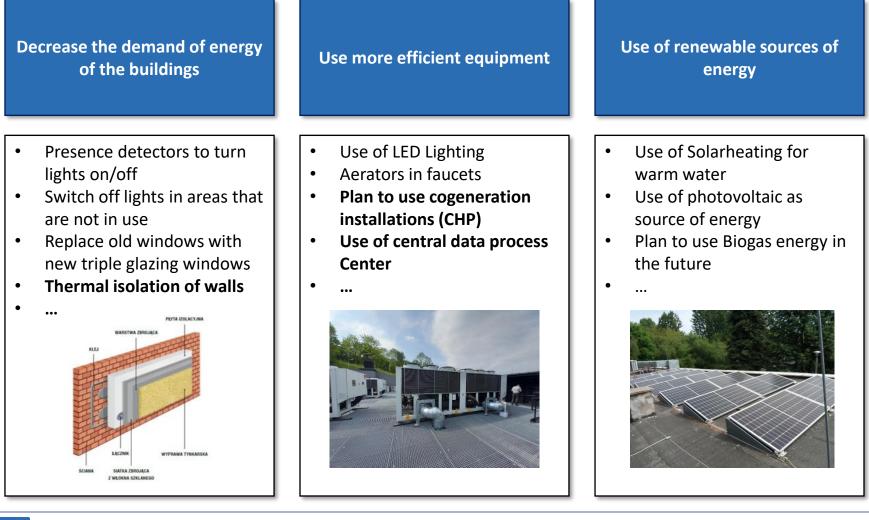
















I) Insulation modernisation (1)

Division of buildings:

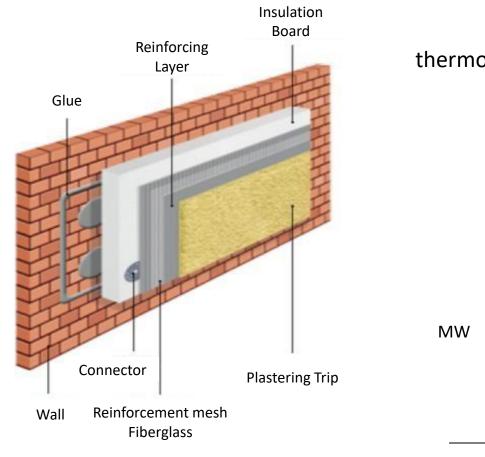
- Main complex of hospital buildings
- Complex of Medical Facilities buildings
- Building of the Research and Development Center, a building adapted from a former laundry
- Complex of technical buildings
- A complex of administrative and residential buildings.



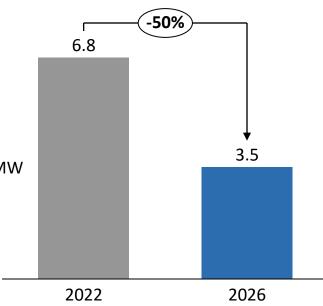
Source: Opole University Hospital



I) Insulation modernisation (2)



After completion of thermomodernization works, the demand for heat will decrease by **50%**



By courtesy of Prof. Zbyszek Plutecki's permission, University of Opole





II) Cogeneration installations (1)

Until 2021 Opole University Hospital used to run its own coal-fired power plant

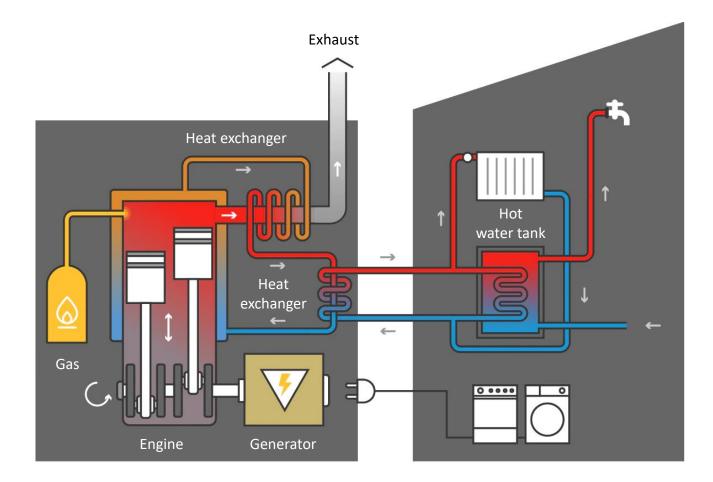


Source: Opole University Hospital





II) Cogeneration installations (2)

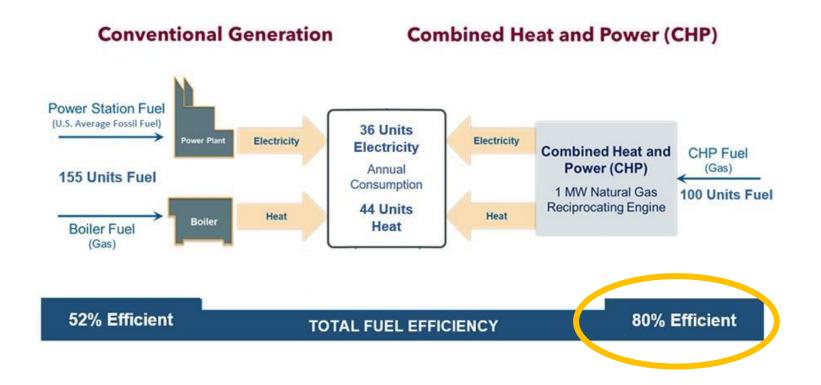


Source: heizung.de





II) Cogeneration installations (3)



By courtesy of Prof. Zbyszek Plutecki's permission, University of Opole

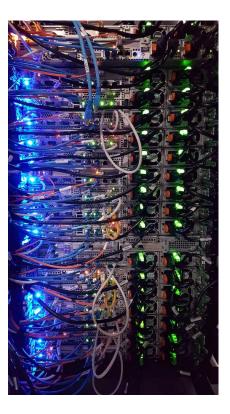




III) Centralization of data process center (1)

So far Copernicus Hospital is running several data centers in the hospital building that are cooled by split climatisation systems

- Use of own servers
- Unefficient split cooling system
- No recuperation of heat





Source: Unsplash Massimo Botturi wildmax; Picture Tassilo Bauer



III) Centralization of data process center (2)

Copernicus Hospital is step by step transfering the servers to the regional data processing center that works in a highly energy saving context / efficient



Source: Picture Tassilo Bauer





III) Centralization of data process center (3)



More Energy efficient cooling system:



~ 25% less energy for the same cooling power

Source: Picture Tassilo Bauer





III) Centralization of data process center (4)



More Energy efficient cooling system:

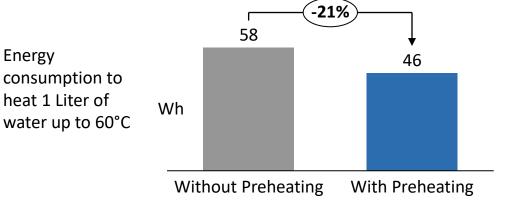


~ 25% less energy for the same cooling power



Source: Picture Tassilo Bauer

Recovery of heat from cooling system for warm water and heating





Thank you to all our national / local coordinators in Poland!

HOPE Programme Poland 2023

POLSKA FEDERACJA



hope European Hospital and Healthcare Federation

