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Challenges
facing designers of
medical facilities
prepared for emergency
situations

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Resilience
by design

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Physical protection
from attacks



Monolithic

RC structures prove to be most resistant to impact



Shelters

Critical to provide
operational continuity

Protection from attacks



DZIENNIK USTAW RZECZYPOSPOLITEJ POLSKIEJ

Warszawa, dnia 13 listopada 2025 r.

Poz. 1548

ROZPORZĄDZENIE
MINISTRA SPRAW WEWNĘTRZNYCH I ADMINISTRACJI¹⁾

z dnia 4 listopada 2025 r.

**w sprawie warunków technicznych dla budowli ochronnych oraz warunków technicznych
ich użytkowania i usytuowania²⁾**

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Energy
independence



Power outages
Back-up generation



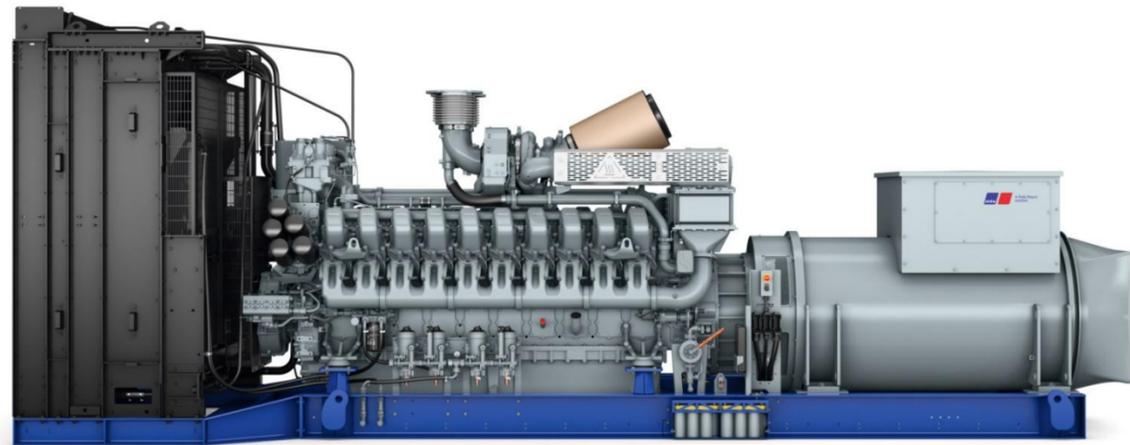
Energy efficiency
to reduce energy demand



Renewable energy
Improved resilience
through redundancy



Energy storage
generation maintained
on-site



Trigeneration integration to HVAC design

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Resources supply



Water wells
continuous water supply



Sufficient storage
in case of supply shortages



Hospital kitchen
can provide food for non-
medical visitors



Hospital laundry
reduces reliability on
external services



Autonomous systems of medical waste disposal

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IT and communication
security



In-house data centres



Wired telephony
independent from
external providers



Radio and satellite
back-up connectivity

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Flexibility

to respond to current
demands



Immediate **scaling of operations and adaptation** to changing medical needs.

Modularity and scalability

Rapid transformation into medical spaces (lecture rooms etc)

Provision of critical installations in all rooms

Removable walls

Provision of adequate space in the vicinity of hospitals

Logistics flexibility

Evacuation and supply routes

Landing pads for medical drones

Access for civil and military vehicles

Emergency-ready



Medical ambulance – height 2,6 m



Polish armed forces ambulance – height 3,5 m

Emergency-ready



H135 medical helicopter, 2910 - 2950 kg



AW 101 armed forces helicopter, 15 600 kg

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Civil – military
cooperation and
integration

Strategic location



Rapid reaction units

Medical transit centres in the vicinity of transport hubs

Rehabilitation centres

Challenges facing designers of medical facilities prepared for emergency situations

- Physical protection
- Energy independence
- Resource supply
- IT and connection security
- Flexibility
- Civil – military cooperation

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There is never enough time to do **everything**, but there is always time to do **the most important thing**

Brian Tracy

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