



- Background
- Project Challenge
- Passive / Active concept
- OPI benefits

## ***OPI Project***

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# Background

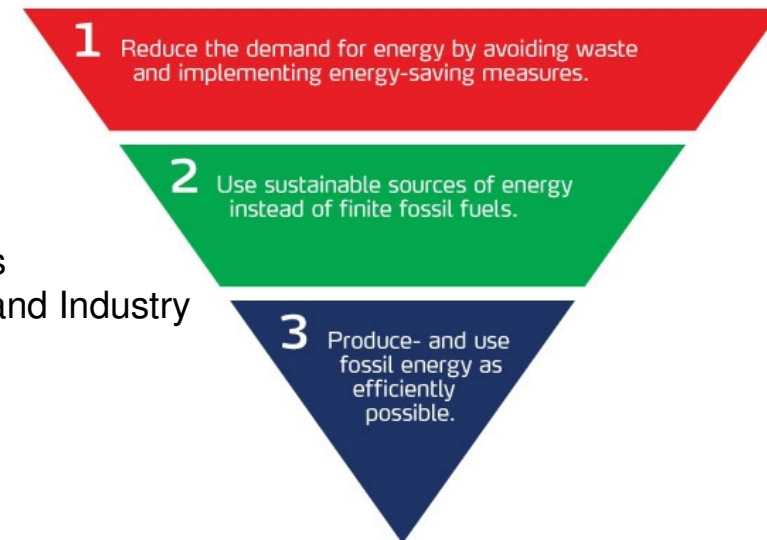
## ■ Energy Challenge

- EBD 2015 /2020
- Reduce / Sustainability / Produce
- Need better energy refurbishment solutions
- Need closer cooperation b/w construction and Industry

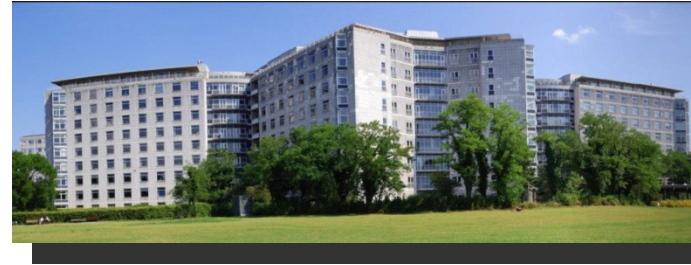
## ■ OPI initiative:

- Concentrate on a **low energy facade solution**
- Network of **innovative** companies within:
  - Windows, ventilation, radiant heat collection & distribution, solar energy, insulation, cladding
- Anchor the innovation to **actual project**: Glosstrup Hospital
- Seek funding for development of innovative solutions that **work in harmony** to meet project requirements

**The Trias Energetica concept:**  
the most sustainable energy is saved energy.



## Project challenge



- Glostrup Hospital's vision toward sustainability and energy renovation:
  - Operate hospital; sustainably, environmentally, economically, and comfortably
  - Energy renovation to be holistic approach, rather than isolated actions
  - Think long term rather than short-term
  - To share knowledge & contribute to research, innovation and development
  
- Needs at Glostrup Hospital:
  - Poor insulation and not tight
  - Overheating is a problem
  - Increasing need for comfort cooling
  - Strict hygiene rules (cross-contamination)
  - Facing the requirement to produce energy
  - FINAL SOLUTION TO BE EASY AND CHEAP TO MAINTAIN!

# Passive / Active concept

## ■ Concept

- ROCKWOOL offers an innovative PASSIVE external insulation system.
  - Simple, fast, durable, adaptable, highly effective, sustainable, design freedom
  - Ideal for refurbishment
- "Plug & Play" ready = ACTIVE elements are "plugged in" to the new external layer
  - Ventilation through facade
  - Solar energy collection & distribution
  - Shading and reduction of radiant heat
  - Highly efficient windows & thermal bridge free connections

## ■ Target results

- Innovation: thin, efficient facade that generates it's own energy
- User comfort: reduced noise, drafts, radiant hot spots, increased control
- Operational: low inconvenience, low cost, low maintenance

## ■ Method: Concept showcase

- Design & construct mock-ups on Glostrup hospital
- Showcase the effect of different element combinations
- Share the knowledge for consideration at other hospitals

## Benefits of OPI

- Together we go farther...
  - OPI = 3rd level of maturity : dependant, independant, ***interdependant***
  - Solve challenges that are greater than 1 product / 1 profession / or 1 business area
  - **Think big thoughts** – go beyond the corporate strategy
  - Funding promotes motivation, participation, **economic reassurance**
  - Knowledge sharing leads to **competitive products** suited to market needs
  - **Credibility** at time of market introduction

Thankyou !

