

Wellness in Energy Efficient Buildings

A Dream come true!



Member of



Hellenic Federation of Enterprises

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Indoor Building Environment



Energy Efficient Buildings

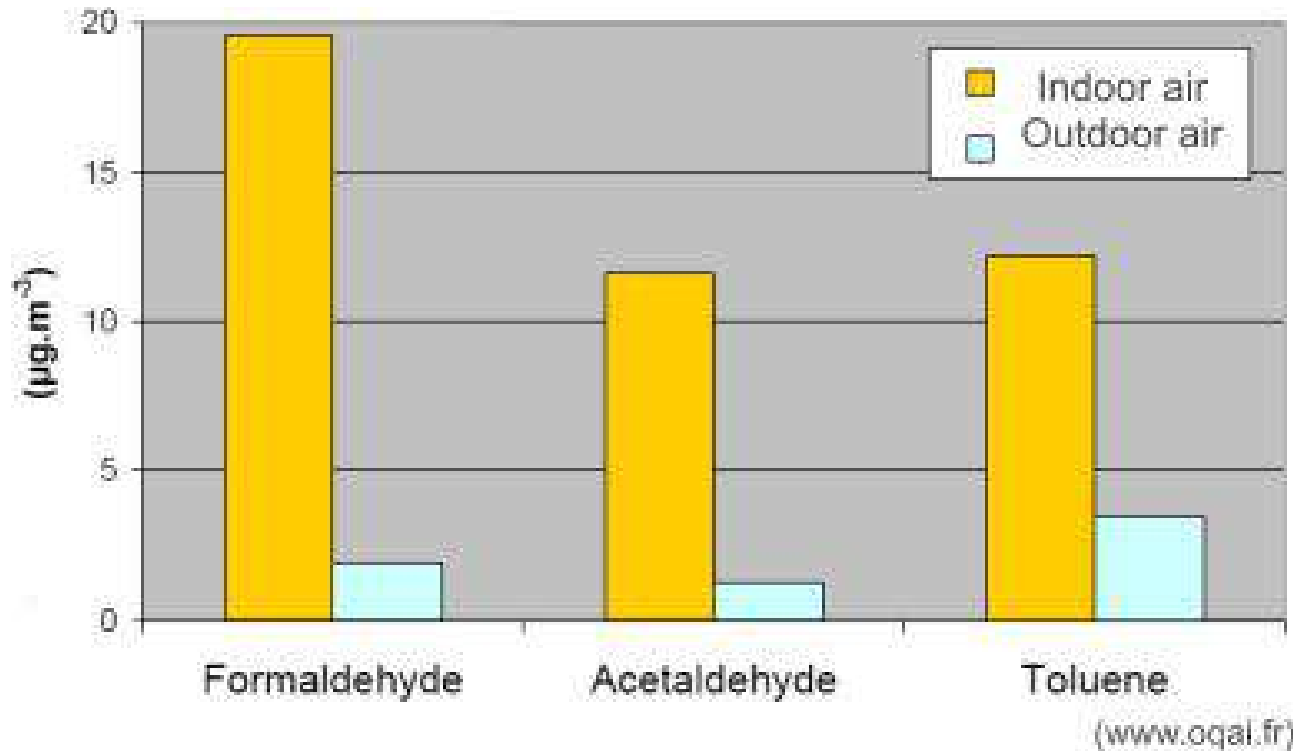


Headaches and loss of productivity

Creating a more positive place
to live and work.



How important is the quality of air we breath?



- Amount of water we drink per day: 2-2.5 lit/~0.5 gallons
- Amount of air we breathe per day: 2000 gallons of air / 7.5 m³ OR
20000 breaths per day =
25 sextillion (25 followed by 21 zeros) molecules

Global Problem

Consequences of Pollutants in the Indoor environment



20%
European population
suffers from **asthma** or
allergies

400,000
premature deaths in EU each
year due to air pollution

16 billion €
in lost workdays

160,000
deaths due to **respiratory diseases** in US in

4 billion €
in healthcare

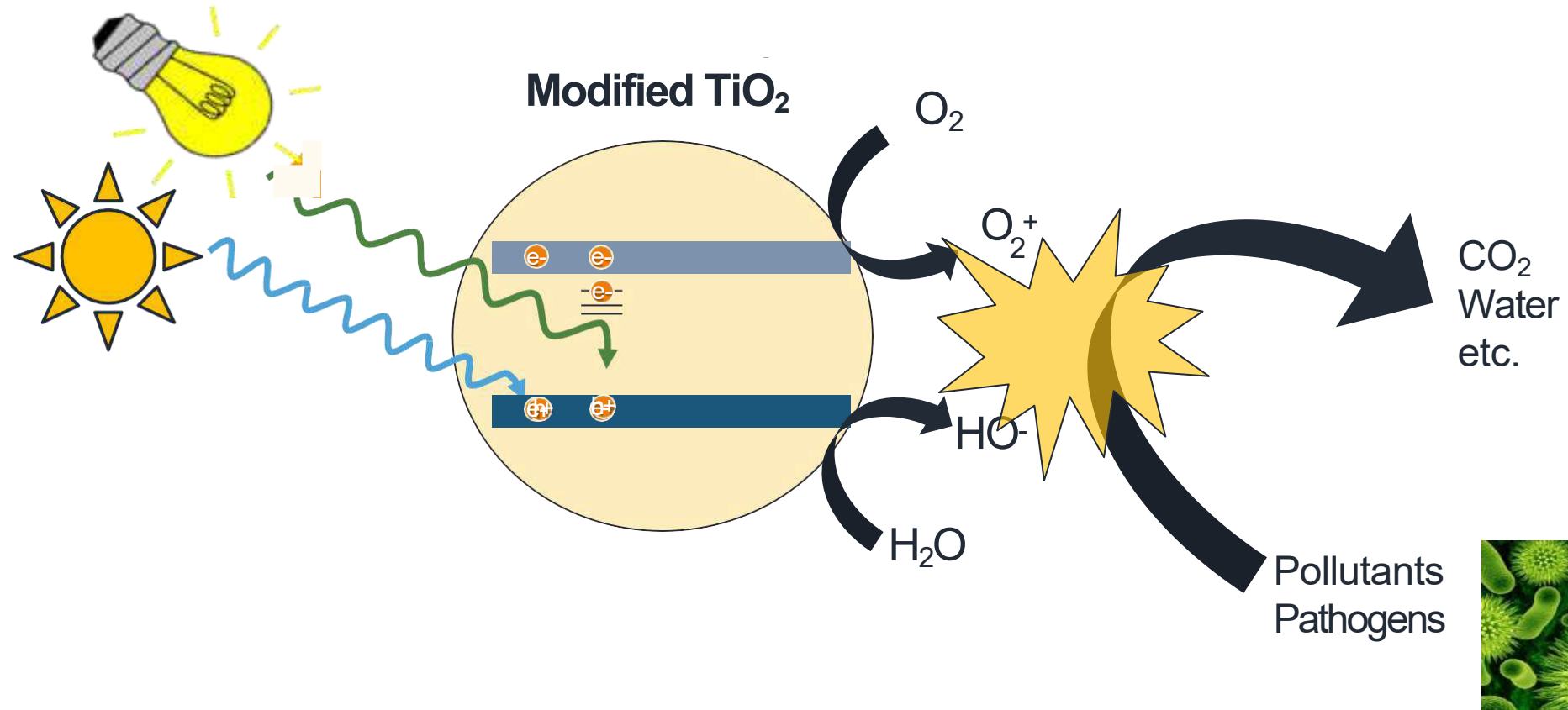
Solution

***Photocatalytic materials do light-induced
reduction of pollutants & save energy!!***

- **Energy saving** (A/C power -50 %/ CO2 reduction ~ 70%) (AUTH / Greece)
- **No harmful by-products** makes our product much safer to use (JRC-ISPRA Italy)
- **Self-clean material** / protective coating

Scientific base of P/C Technology

Patented Visible light-activated photocatalyst



Decomposes VOCs, BTXs, Odors

Improves indoor/outdoor air quality

Field tests by AUTH / Energy saving 7-9%



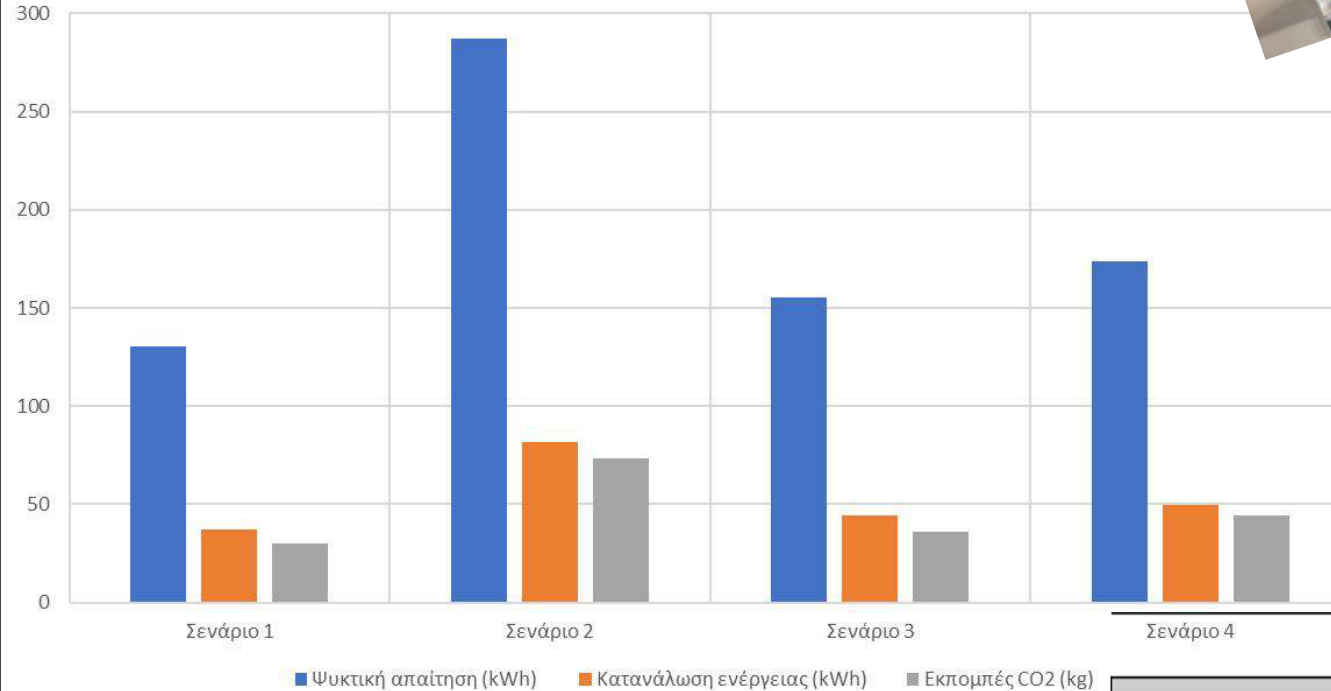
InnoVative photocatalytic paints
for healthy environment and eNergy Saving

<https://lifevisions.gr/>

Demo Houses at FORTH

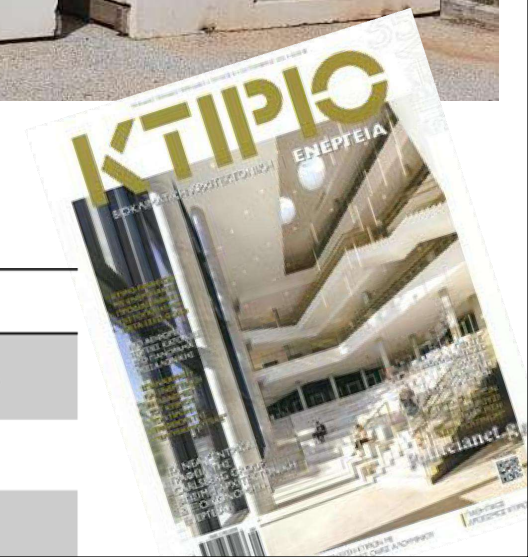


Ενεργειακή και περιβαλλοντική απόδοση των εξεταζομένων σεναρίων



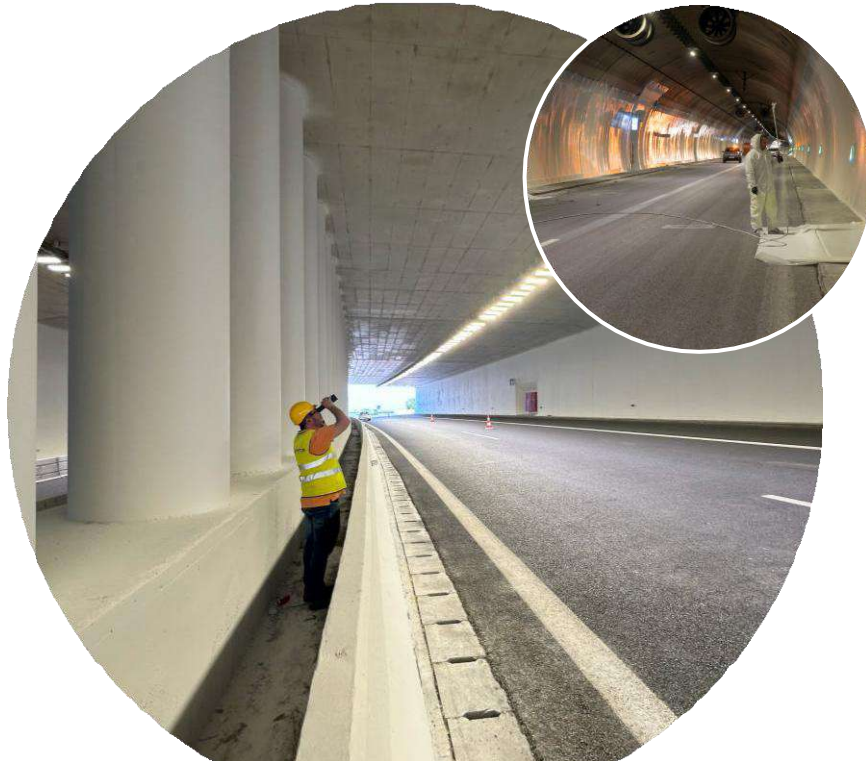
Ποσοστιαία Μεταβολή Συγκέντρωσης Ρύπων

	Σενάριο 1	Σενάριο 2	Σενάριο 3	Σενάριο 4
NO	-68.40%	-66.10%	-27.00%	-52.40%
NO ₂	-66.80%	-66.10%	-27.10%	-52.40%



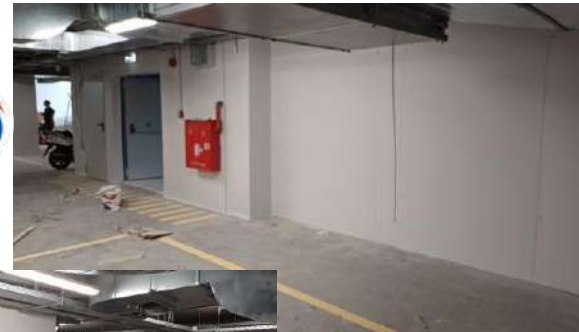
Projects Portfolio

Project: Road Tunnels



Project: Underground parking lots

New Admin Building of Region of Crete



Project: Re-development of sidewalks

Municipality Ag. Anargiron Attika. 2023

Total coverage 10.000 m2



Project- Metro stations

Panormou 2024



Project: Athens-Patra-Pyrgos,

23 Tunnels 2023-24/ 125000m2



Έργο Υποδομής
Βαφή εσωτερικών
χώρων

Νέα Γραφεία Ομίλου
Metaxas Hospitality
Group
Κρήτη



Βαμμένο τούνελ μήκους 1.200m
αποδομεί έως και **1,7g NO_x / λεπτό**
που αντιστοιχεί στην
πλήρη αποδόμηση ρύπων NO_x από
καυσαέρια **20 διερχόμενων**
οχημάτων * / λεπτό
ή 1.200 οχημάτων / ώρα.

** Euro 6 Category refers to
acceptable levels of NO_x
emissions
for diesel cars to 80 mg/km
and for petrol to 60 mg/km*





PCNano
materials

Thank you

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