The Energy Challenge in UAE

- Rapid Economic & Demographic Growth – Good !!!
- Pushing ME Energy Grids to the Limits.
- Growing steadily @ 12 % + PA
- Demand likely to Double by the end of the decade

What is the answer!
DID YOU KNOW!

That BASALT ROCKS from FUJAIRAH can also be used as INSULATION MATERIAL!!

PROCESS OF ROCKWOOL FORMULATION

BASALT + LIMESTONE + COKE → CUPOLA → SPINNER → FIBER
PRODUCTION LINE

Best Basalt around the World
Presence of Aluminum makes The Best Fiber

FUJAIRAH ROCKWOOL PRODUCTS

- Loosewool
- Pipe Section (with and w/o foil)
- Slab (with & w/o foil, polybag, black veil)
- Blanket (S.S., C.I., wiremesh)
I. TO SAVE ENERGY

Of this energy, heating & cooling systems use about 55%, while the others at 45%.

II. BETTER MAINTENANCE

Insulation from outside prevents 80% of cracks.
Fire Risk

Fire Test
00:01:43:15

House Without Rockwool

House With Rockwool
Performance of Heat Insulation

Without Heat Insulation

- 45°C
- 35°C
- 25°C
- 15°C

Exterior | Masonry | Interior

With Heat Insulation

- 45°C
- 35°C
- 25°C
- 15°C

Exterior | ETICS | Masonry | Interior

You Have to Cool Down 10 Degrees
You Have to Cool Down 3.5 Degrees

Save More Than 40% Energy
ENERGY CONSUMPTIONS / ENERGY SAVING

Test Report

INSIDE TEMPERATURE 18°C

CONTAINER 1
WITH (200mm) ROCKWOOL INSULATION

A/C 5.4KWh

CONTAINER 2
WITHOUT ROCKWOOL INSULATION

Test Repeated Daily Every 2 Months

“Average Energy Saving - More than 50%”
ROCKWOOL INSULATION
APPLICATION

IN HOUSE
Saves More Than 40%
In Houses & In Buildings

INDUSTRIAL
High Potential To Save Energy.
SAMPLE OF ROCKWOOL INSULATION COST

NORMAL VILLA: 10 X 10Mtr
You need ≈ 3.5t
of rock wool insulation material
Cost ≈ Approximately Dhs15,000

NORMAL VILLA: 10 X 10Mtr
Ready rock wool insulation system
from outside with 10yrs warranty
also for the color
Cost ≈ Approximately Dhs 60,000

You can use Rockwool for:
- Thermal comfort
- Saving Energy
- Safety from Fire
- Acoustic comfort
Thank You
Fujairah Rockwool Factory
Saving Energy for UAE for 30+ Years

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