

Green Not Expensive

– Expensive Not Green



Gregers Reimann, MD
IEN Consultants, Malaysia
gregers@ien.com.my
hp +60122755630
www.ien.com.my

International Monetary Fund (IMF)



How Large Are Global Energy Subsidies?

IMF Working Paper

How Large Are Global Energy Subsidies?

by David Coady, Ian Parry, Louis Sears, and Baoping Shang

INTERNATIONAL MONETARY FUND

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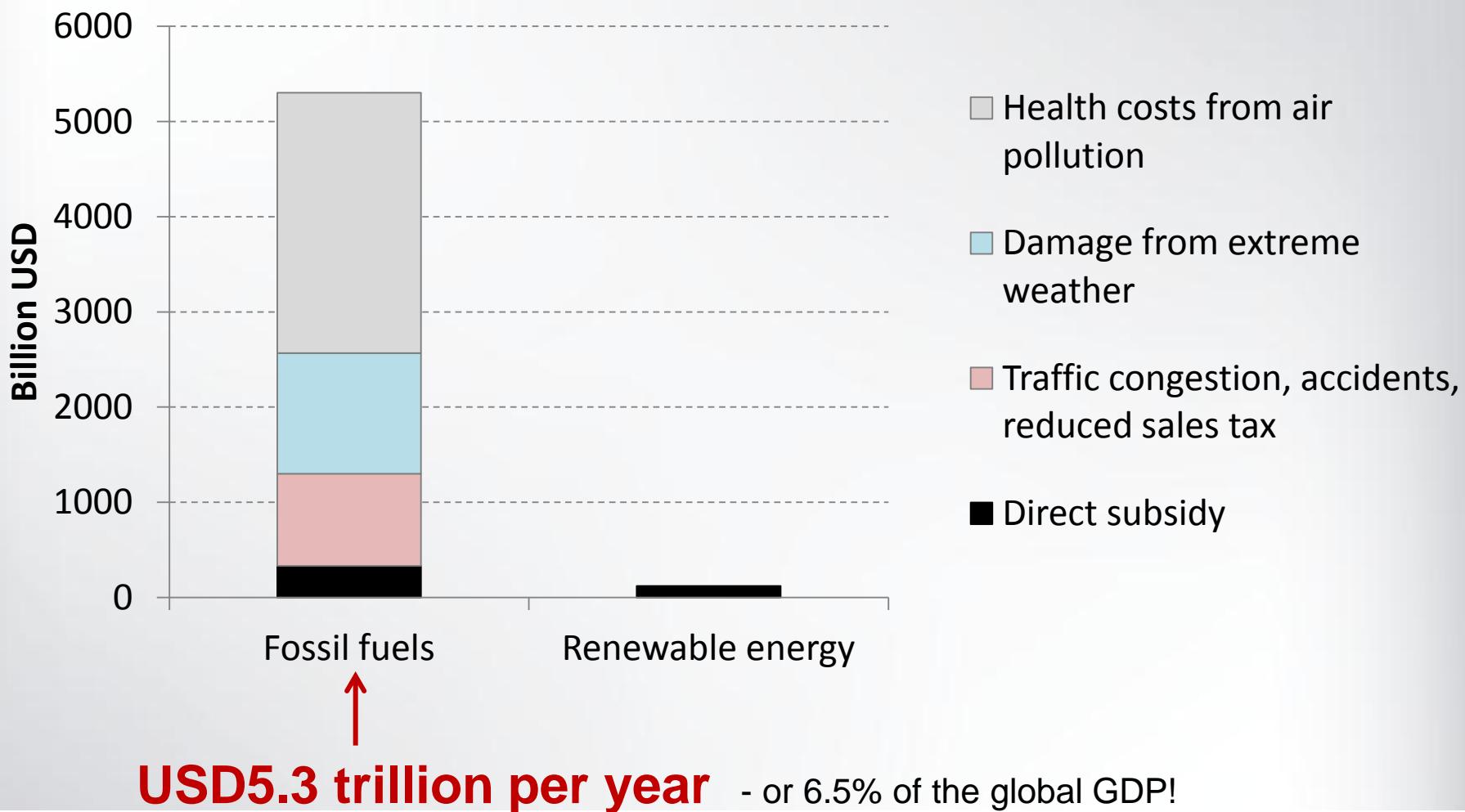
How Large Are Global Energy Subsidies?

ANSWER:

6.5%

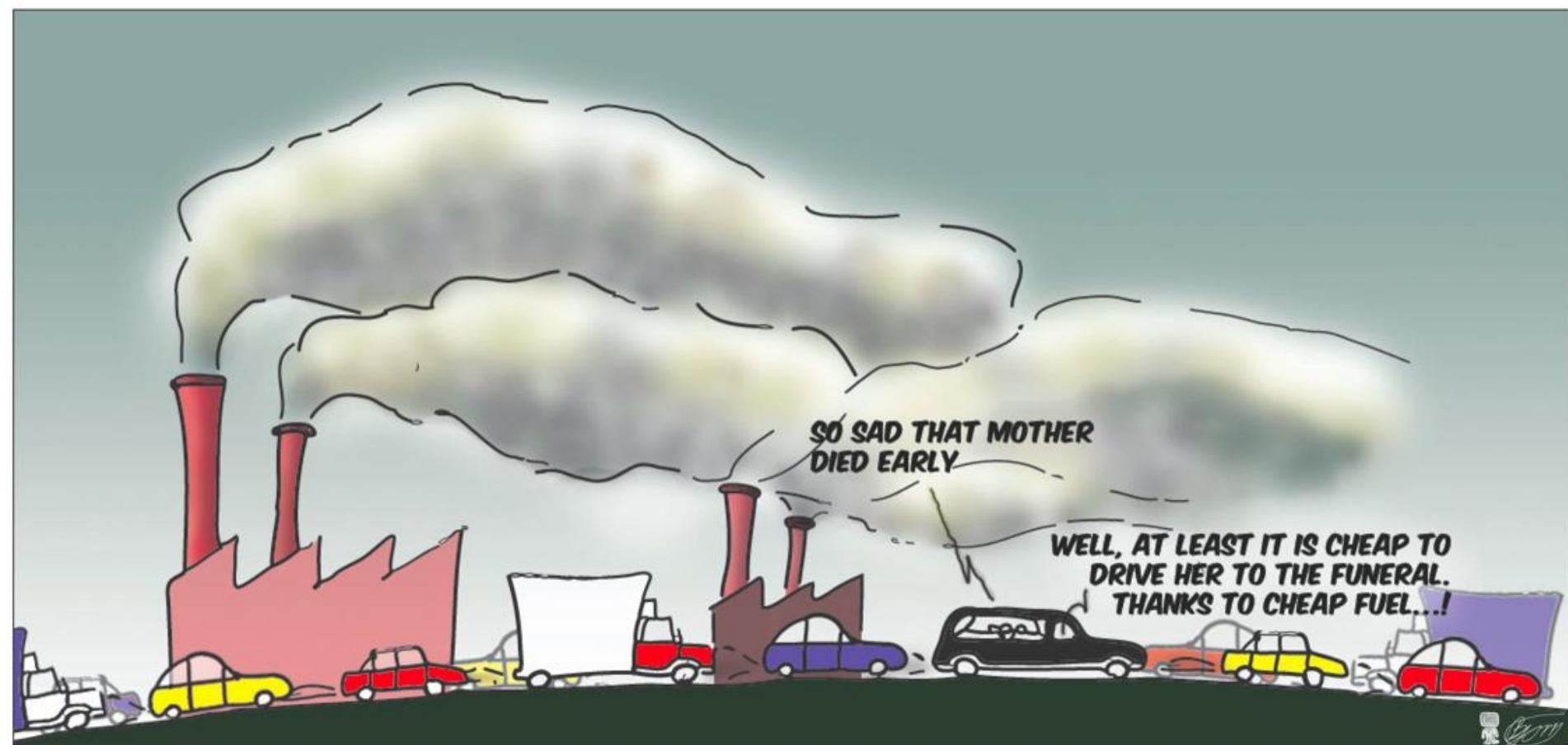
of global GDP

International Monetary Fund (IMF)



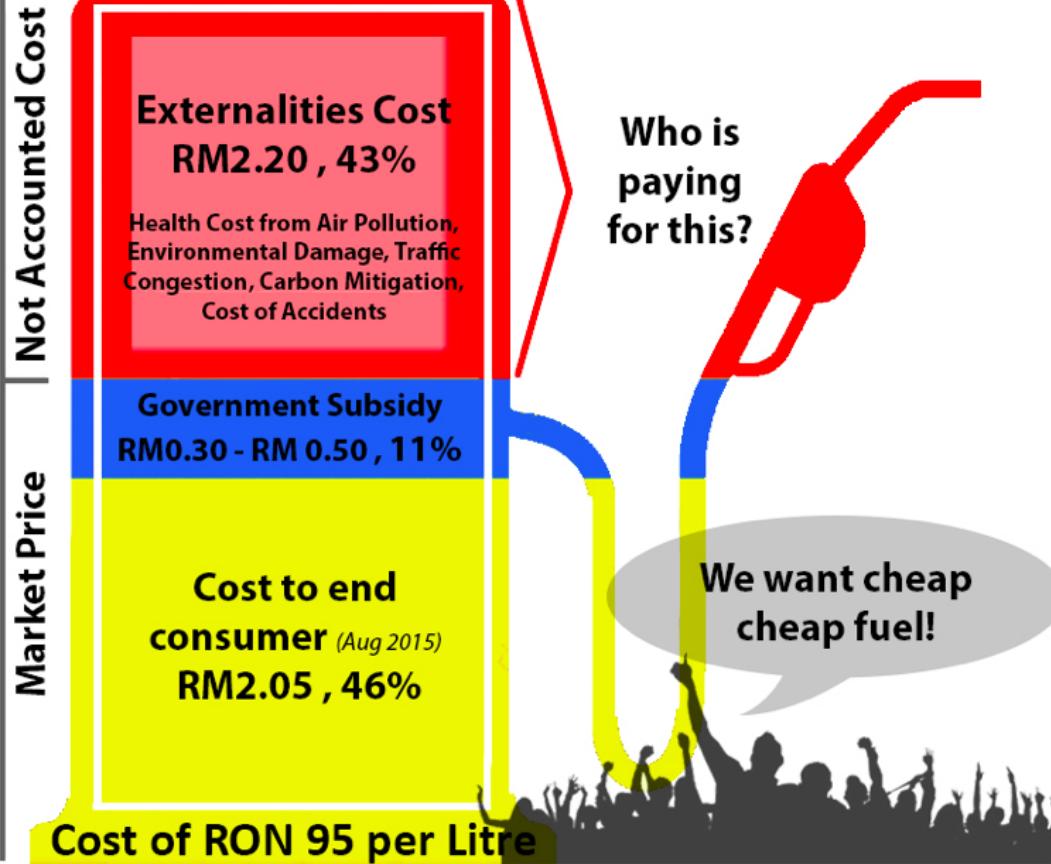
Cheap Energy – but at what price?

4400 PEOPLE DIE FROM AIR-POLLUTION EVERY DAY IN CHINA!



‘Cheap’ Energy in Malaysia

Actual Cost RM4.40/Litre 120% Increase

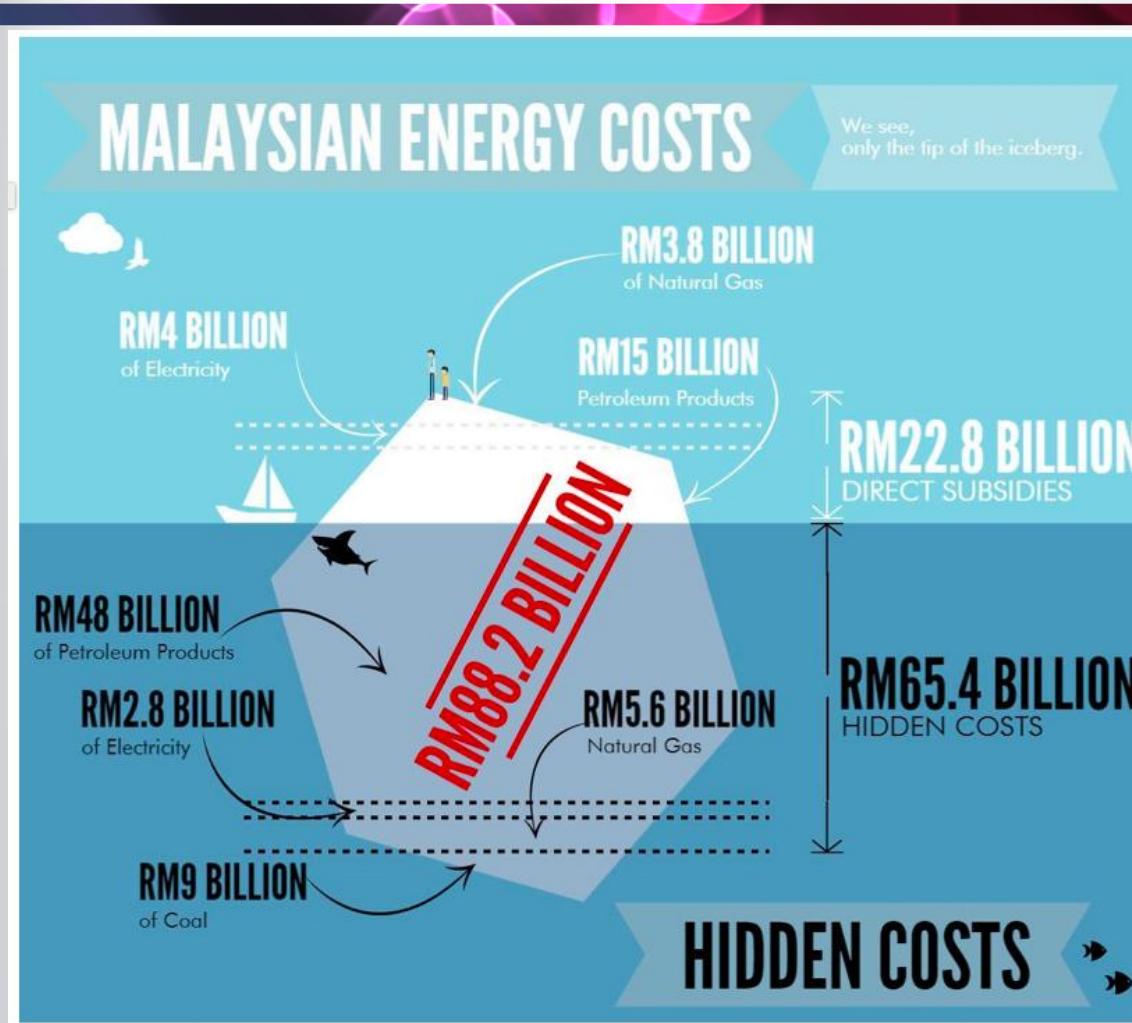


RM 4.40
the real petrol price

IMF “Getting Energy Prices Right” (2014)

Source: IMF “Getting Energy Prices Right”, 2014

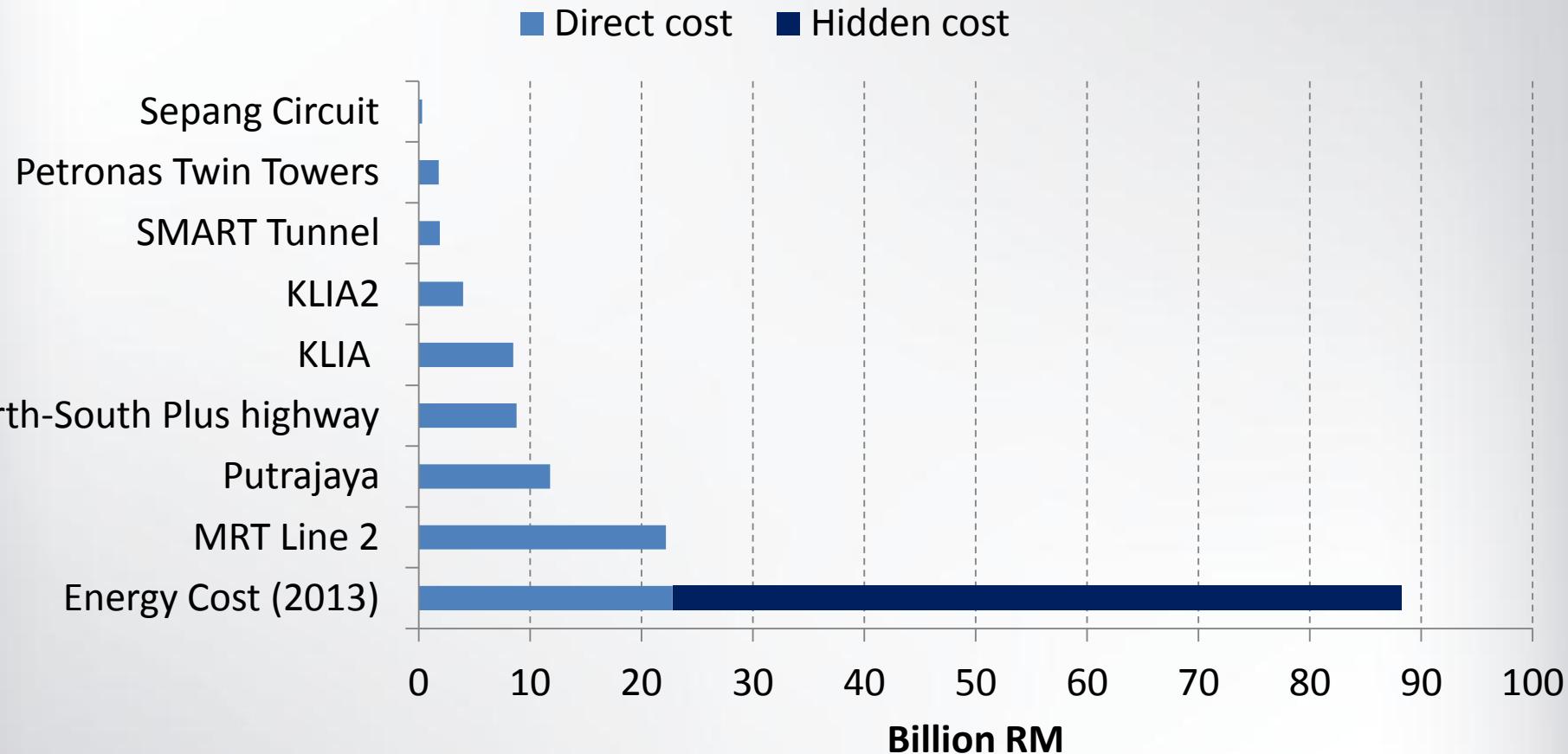
‘Cheap’ Energy in Malaysia



Direct energy subsidies are just the tip of the iceberg

IMF, Malaysian figures (2013)

‘Cheap’ Energy in Malaysia



Fossil Fuels are even more expensive....!



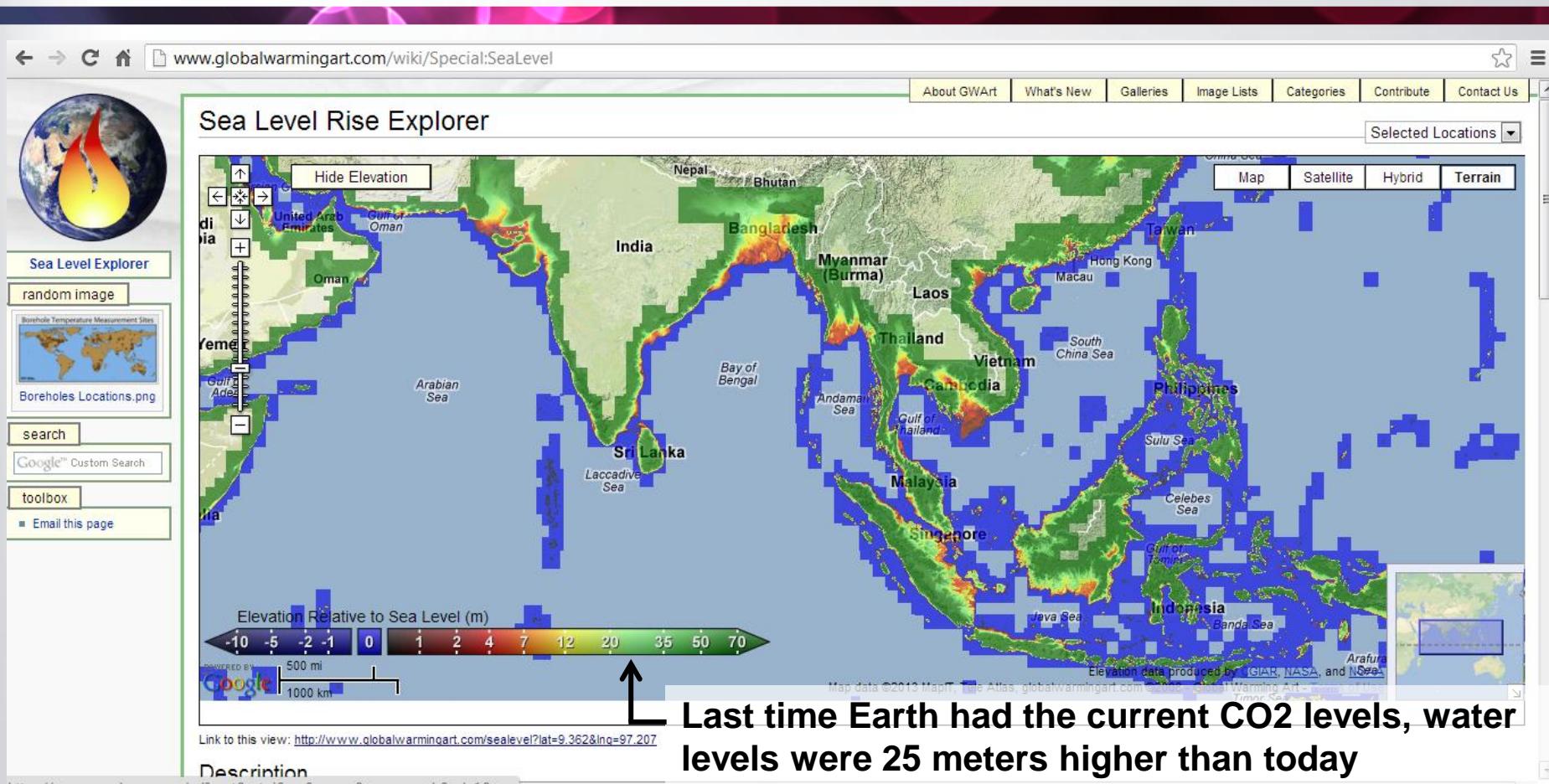
Fossil Fuels are even more expensive....!

1.5 meters above sea level

Time to start planned retreat from Bangkok?

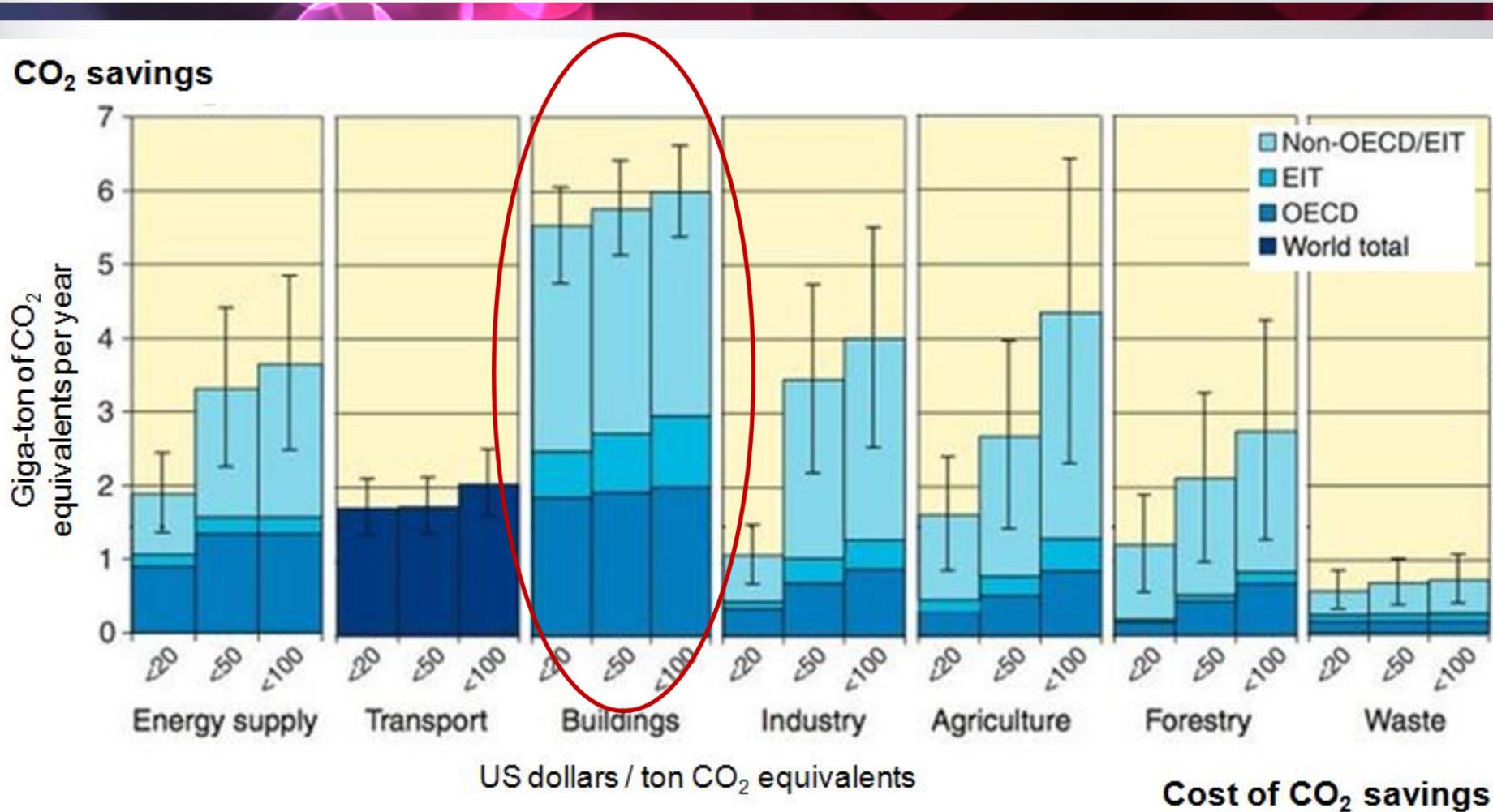


Test if your own hometown will be under water



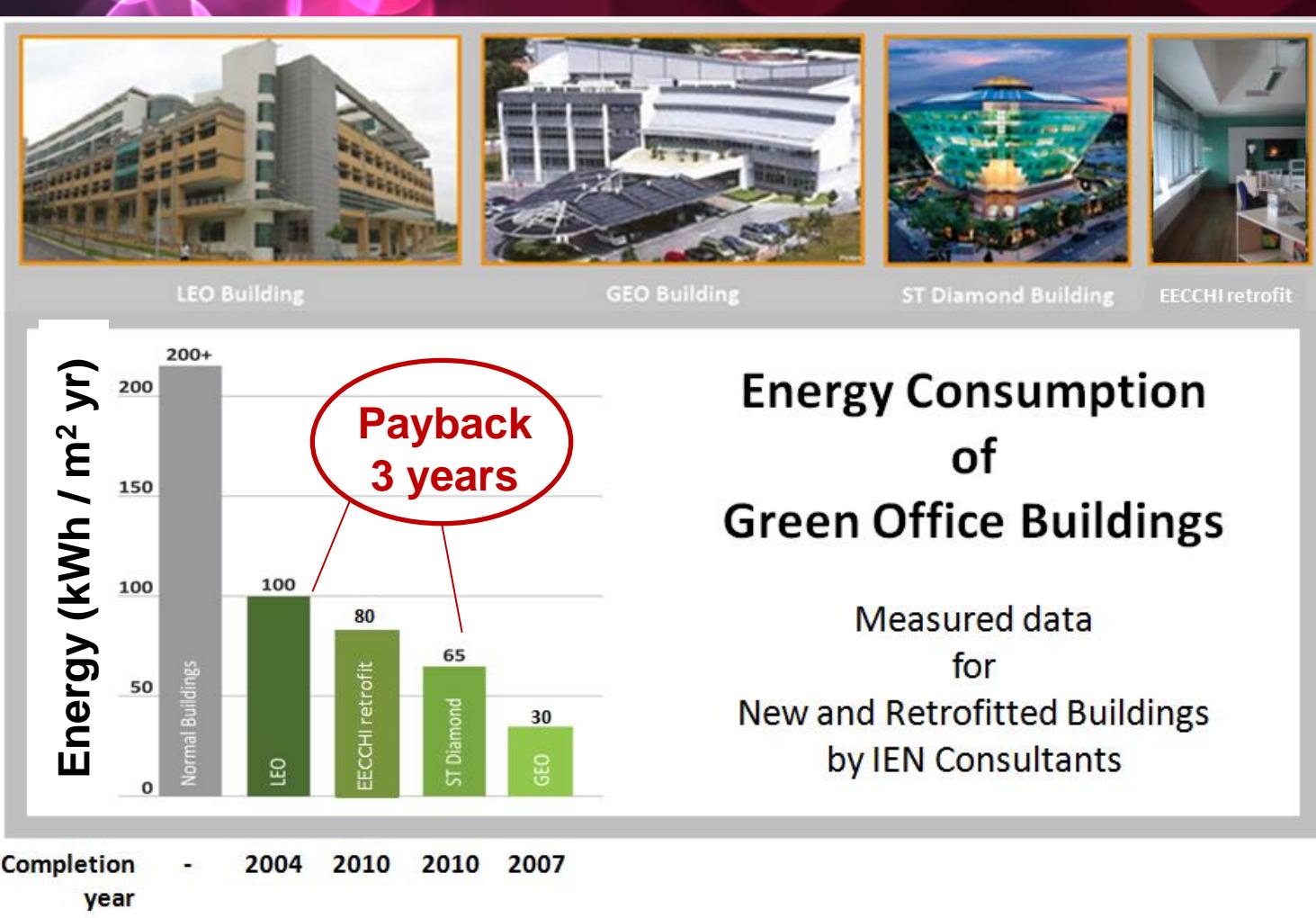
<http://www.globalwarmingart.com/wiki/Special:SeaLevel>

Huge CO₂ Savings from Green Buildings



Good News!

Green Buildings in Malaysia already proven to be inexpensive from energy savings alone



Keeping Construction Costs Down

Avoiding the common problem of Over-Design

Building owners get double-penalty of:

- Higher CAPEX
(higher construction cost)
- Higher OPEX
(higher operating cost)

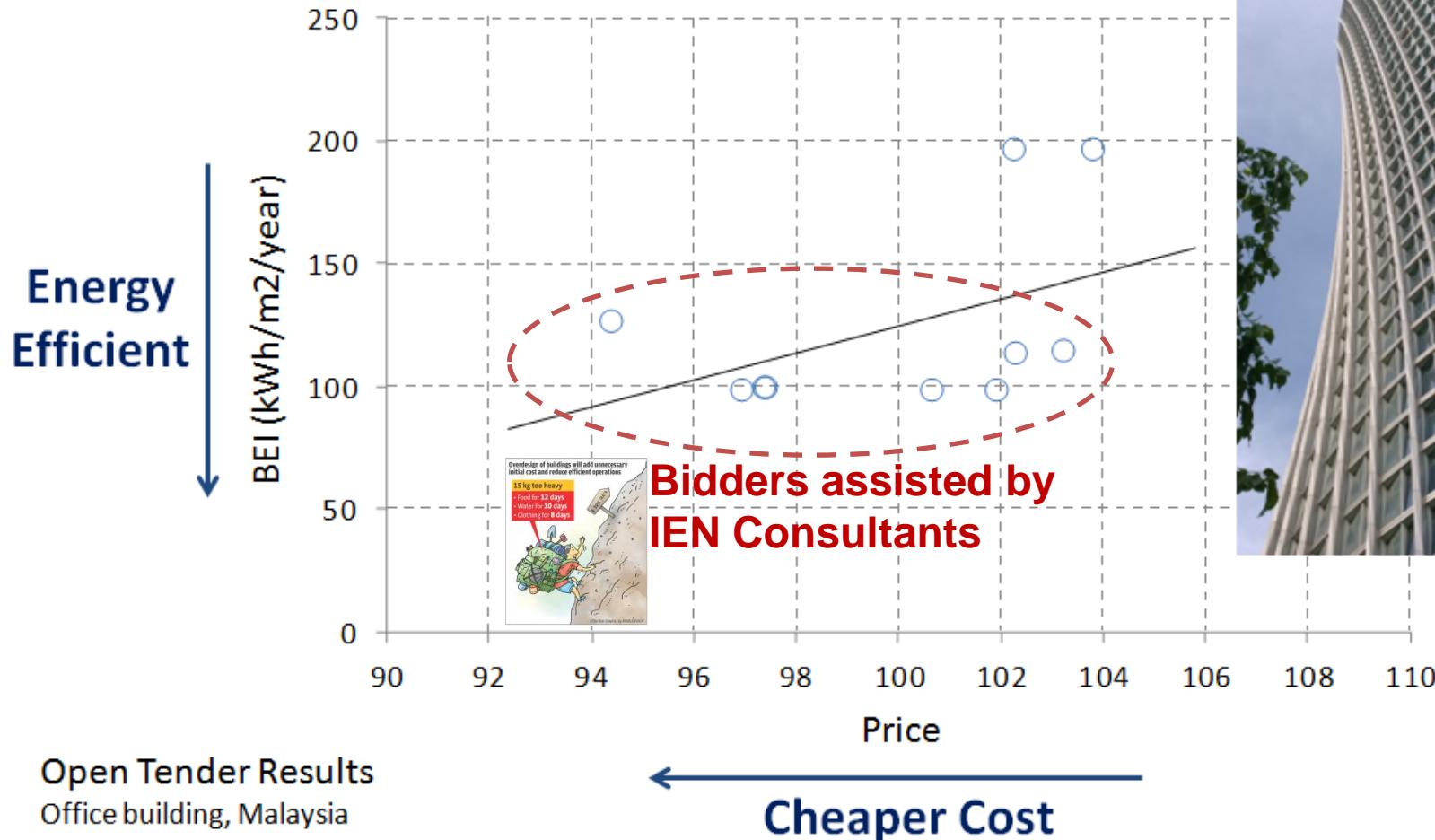
Building owner



Cartoon by IEN Consultants / The Star newspaper (2014)

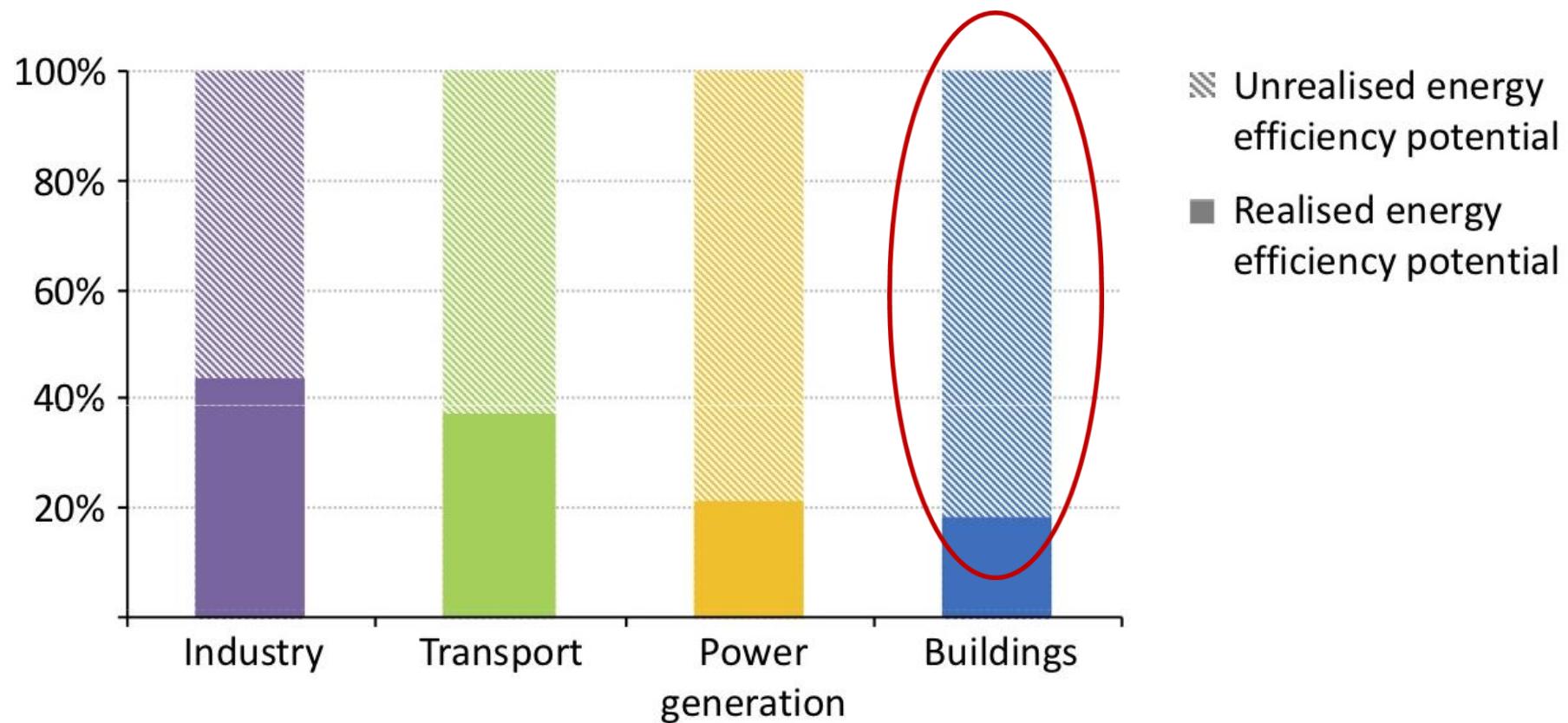
Keeping Construction Costs Down

Case Study: Cheapest bidders were also most energy efficient by avoiding over-design



Huge Energy Savings Potential from Green Buildings

Energy efficiency potential used by sector in the WEO 2012 New Policies Scenario



Energy Label for Buildings?

Making Operating Costs one of the sales parameters when buying & renting buildings



Already working
on this for
Malaysia through
the EUMCCI

Mandatory Energy Labeling for Buildings

Denmark requires 3rd party energy labeling of buildings upon sale or rental

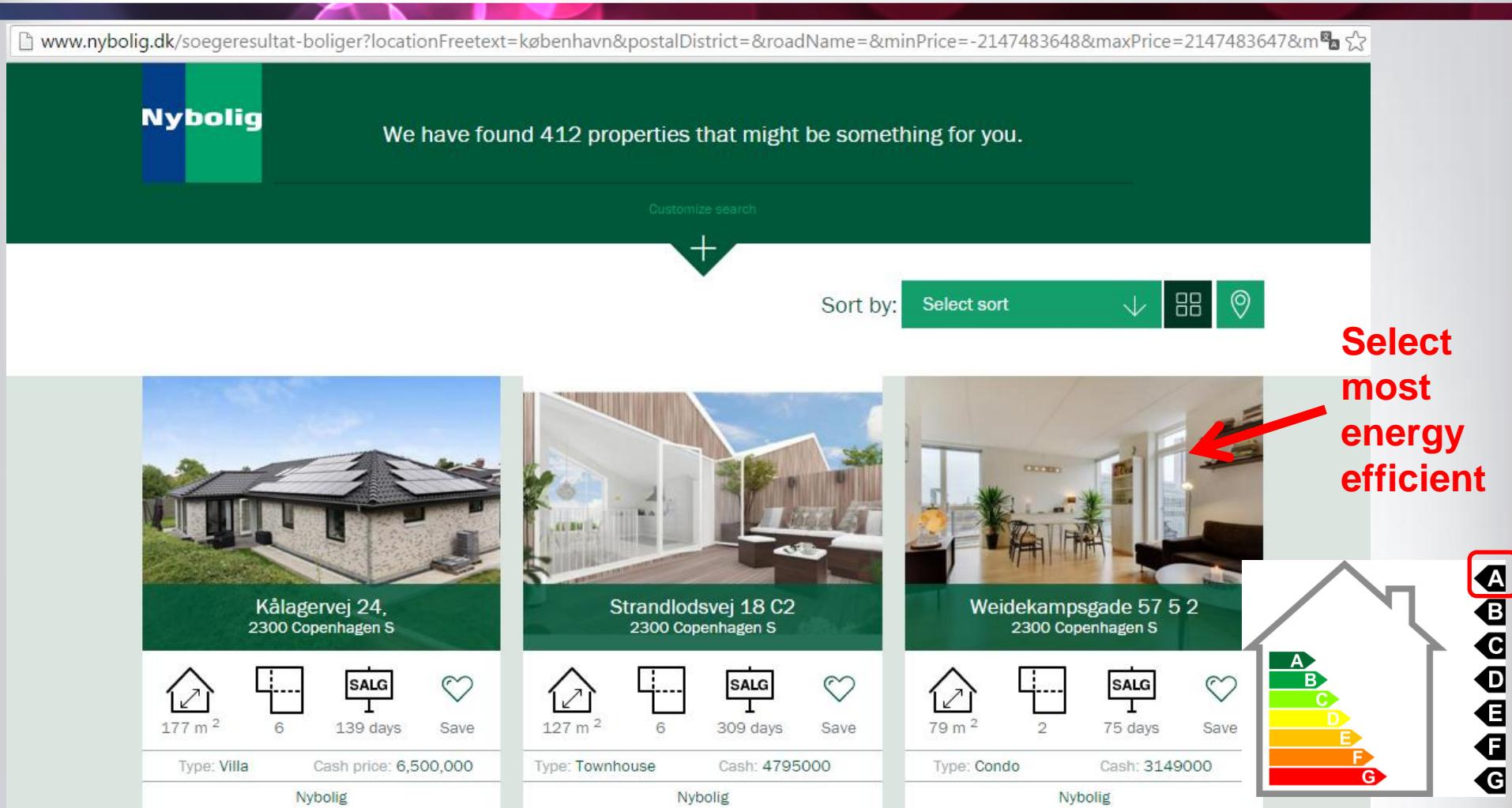
The screenshot shows a search interface for real estate in Copenhagen, Denmark. The filters include:

- Property Size: 0 m² - 300+ m²
- Lot Size: 0 m² - 2000+ m²
- Number of rooms: 1 - 6+
- Year: Before 1900 - 2016
- Level: 0 level - 5 plan
- Floor: Basement - 8+ floor
- length of stay: 0 - 1000+
- Energy: A - G (highlighted with a red oval)

On the left, there is a graphic of a house with a vertical energy scale from A (green) to G (red). A red oval highlights the 'Energy' filter. At the bottom, it says 'Show homes: 2,081 homes' and 'Danish real estate website. Search criterion' with a 'Reset criteria' link.

Mandatory Energy Labeling for Buildings

Denmark requires 3rd party energy labeling of buildings upon sale or rental



www.nybolig.dk/soegeresultat-boliger?locationFreetext=københavn&postalDistrict=&roadName=&minPrice=-2147483648&maxPrice=2147483647&m=1

Nybolig

We have found 412 properties that might be something for you.

Customize search +

Sort by: Select sort ↓

Kålagervej 24, 2300 Copenhagen S
177 m² 6 SALG Save
Type: Villa Cash price: 6,500,000 Nybolig

Strandlodsvæj 18 C2, 2300 Copenhagen S
127 m² 6 SALG Save
Type: Townhouse Cash: 4795000 Nybolig

Weidekampsgade 57 5 2, 2300 Copenhagen S
79 m² 2 SALG Save
Type: Condo Cash: 3149000 Nybolig

Select most energy efficient



A
B
C
D
E
F
G

Mandatory Energy Labeling for Buildings

Denmark requires 3rd party energy labeling of buildings upon sale or rental

The screenshot shows a real estate listing for an apartment at Weidekampsgade 57, 5. 2. 2300 Copenhagen S. The listing includes a photograph of the interior, a camera icon with 'Explore home' text, and a green sidebar with action buttons: 'Come out and see the property', 'Make an offer', 'Get the documents', and 'Save'. The listing details are as follows:

type	Apartment
Size	79
cash price	3149000
Owner Per capita spending. md.	2,213

A red box highlights the 'Owner Per capita spending. md.' value of 2,213. Below the listing, a red box highlights the 'Monthly energy bill: RM1410 (DKK2213)' text. To the right, a house-shaped energy efficiency rating chart shows an 'A' rating, with a red box around it. The chart also includes a vertical scale from A to G and a 'SALG' icon. Below the chart, energy efficiency icons are shown: a house with a double arrow, a square with a double arrow, a house with a double arrow, a stack of blocks, a year (2006), a line graph with a downward arrow, a scale icon with 'SALG', and a timer icon with '75 days'.

Monthly energy bill:
RM1410
(DKK2213)

79 m² 2 5th floor 2006

A

GREEN BUILDINGS & PARKS WORLD

Buildings are like a Leaky Bucket



with lots of unnecessary wastages

Plug the holes, and you are well on the way to a green inexpensive buildings
that people appreciate to use

Thank You



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