



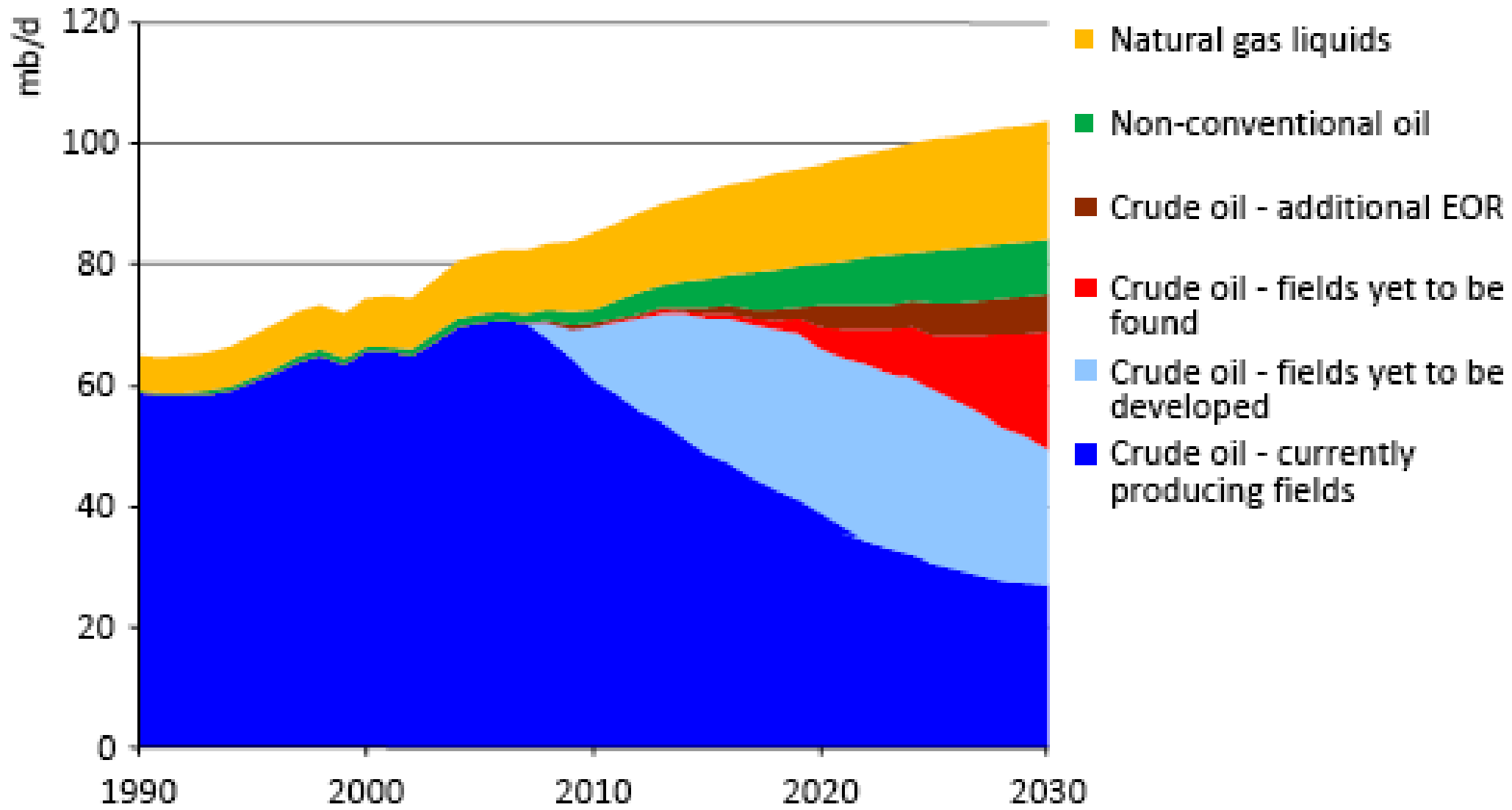
Planetary Engineering Group Earth

Independent thinktank

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1991 in Europe - Austria - Salzburg

We need an international organization for the oil exit



# Yet to be developed – yet to be found



The WEO – world energy outlook - 2008 figure tells us, that we have to find and develop 5 times Saudi Arabia until 2030.

But we will not find 5 times Saudi Arabia, there is only the chance to find the most difficult, most dangerous, most expensive oil fields ever.

Any failure to find and develop 5 times Saudi Arabia until 2030 will crush world economy by extreme high oil prices and delivery shortages

The time where economy was based on cheap oil ended 2008.

Where would be the oil price today with the economic growth of spring 2008?

US\$ 20 price elasticity per million barrel a day

1 million more demand than offer,  
the price raises US\$ 20

1 million more offer than demand,  
the price falls US\$ 20

Economic growth in the western world like spring 2008,  
3 million barrel more demand and we would have today  
an oil price beyond US\$ 147.27

International organization for the oil exit

The target:

Destroy oil demand like 5 times Saudi Arabia  
oil production until 2030

The method:

Replace oil demand by electric power mainly from  
sun and wind

The basic calculation:

1 million barrel less demand means  
US\$ 20 lower price

At 90 million barrel a day,  
this saves all oil consumers world wide

US\$ 1.8 billion a day

US\$ 657 billion a year

US\$ 6,570 billion over 10 years

1 million barrel less oil demand

200 million electric scooters

400 GWh lithium batteries

80 TWh electric power per year



1 million barrel less oil demand

40 million electric cars

1200 GWh lithium batteries

100 TWh electric power per year



1 million barrel less oil demand

1 litre fuel oil replaced by 1 kWh  
electric power for heat pump,  
air exchange with heat recovery  
better insulation

25 million apartments, small houses  
50 TWh electric power per year

The basic demand

2% of the price of the world wide oil consume should be invested into the budget of the international organization for the oil exit.

This would be at the current consume and price

90 million barrels a day \*

US\$ 95 oil price \*

365 day \*

2% =

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US\$ 62 billion a year

# Cheapest method: policy change

The cheapest available method for the oil exit is to promote policy changes in all the countries funding the organization.

But this method has 2 limitations:

- 1.) The production capacity of the industry producing photovoltaic, buffer batteries, electric vehicles – all the stuff for the oil exit
- 2.) People have to be able to follow new policies. Even when they have the same expenses at the bank instead of the gasoline station, they could have problems to obtain the credit.

# Main task credits and investment

- 1.) Investment in research & development
- 2.) Investment in building up the necessary production capacity of the oil replacing industry
- 3.) Investment in building up the necessary mining capacity for all the necessary raw materials.
- 4.) Credits for consumers for replacing oil consume by purchasing products of the oil replacing industry

# Beyond saving world economy

It's not only to keep the oil price in a range not destructive for the world economy.

It's also an investment in all the industry dealing with the challenges of the 21<sup>th</sup> century.

The minimum investment is 2% of the oil consume, the ROI is having a share of this industry.

# Policy: back stop

2008, oil price decreased from US\$ 147.27 by US\$ 114.87 to US\$ 32.40 caused by a big economic crisis.

But cheap oil in an economic crisis stops only the necessary oil exit, gives the illusion, that it's not necessary to escape oil dependence.

Back stop  
by increasing  
taxes on oil

Reduce budget deficit

Furtherance  
for oil exit

Reduce dues on  
human work

As soon as the oil demand is falling  
because replaced by electric power  
from sun and wind,  
humanity will know, it's also possible  
to solve the whole CO2 problem  
with the climate change.

The oil exit is the first big step towards  
a stable durable harmonic civilization.