









# **Breaking Greek Oil Addiction**

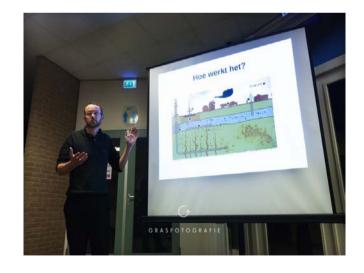
# Peter Polder

Independent oil expert working for environmental and other NGO's on oil and natural gas issues.

Peakoil Netherlands: Dutch Think tank on resource depletion

and energy issues

·@peterpolder



# Breaking Greek Oil Addiction

- · Oil use & the effect of high oil prices in Greece
- · Radical changes in the oil and gas market
- Breaking the addiction

## **Energy Mix**

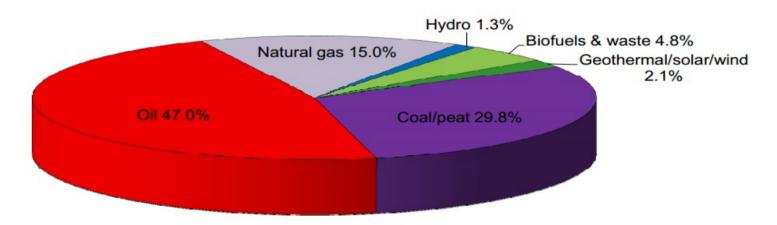
**IEA Energy Statistics** 

Statistics on the web: http://www.iea.org/stats/index.asp



#### Share of total primary energy supply\* in 2011

#### Greece

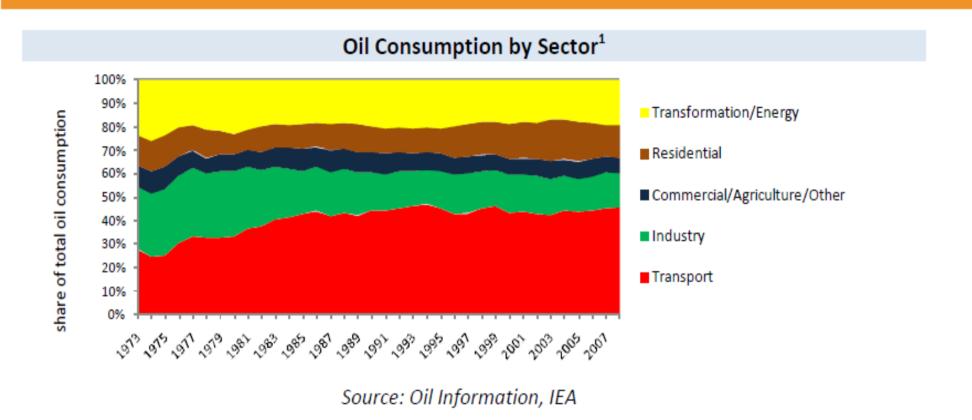


27 Mtoe

<sup>\*</sup> Share of TPES excludes electricity trade.

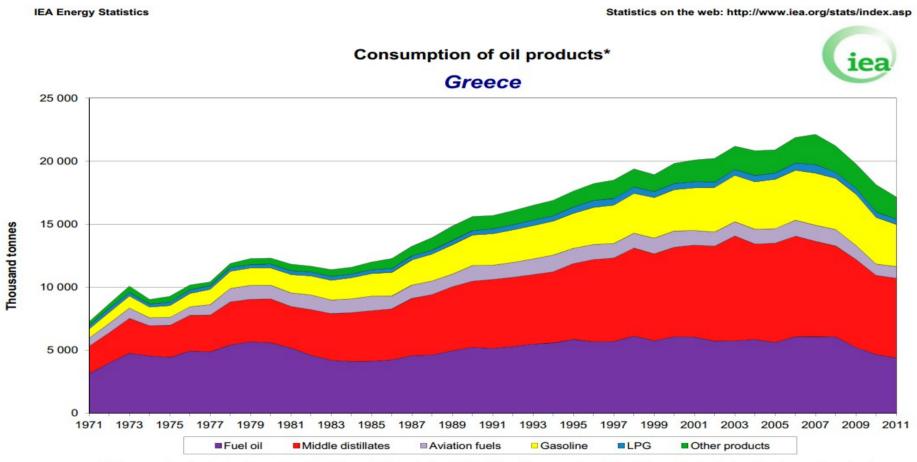
Note: For presentational purposes, shares of under 0.1% are not included and consequently the total may not add up to 100%.

### Greece oil consumption



<sup>&</sup>lt;sup>1</sup> Total Consumption (including refinery consumption), does not include international marine bunkers.

## Greece oil consumption



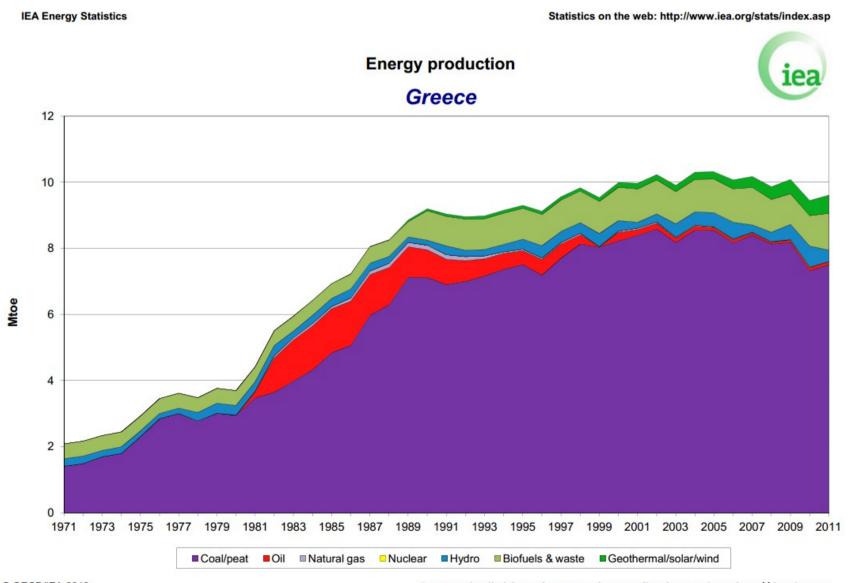
\* Consumption includes international bunkers. LPG includes LPG, NGL, ethane and naphtha. Other also includes direct use of crude oil and other hydrocarbons.

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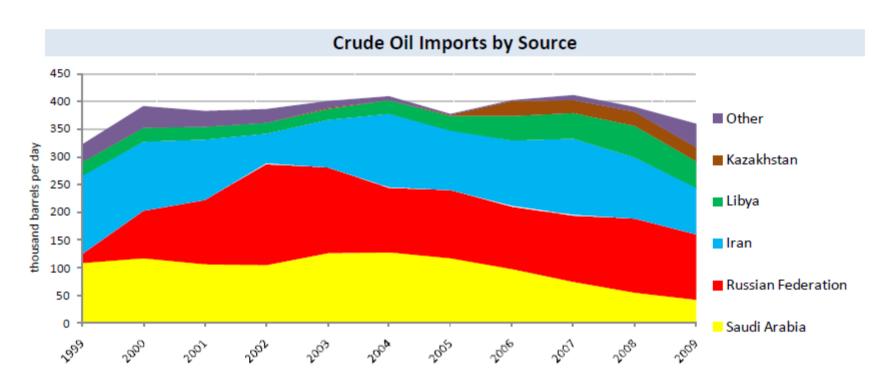
\* Consumption includes international bunkers. LPG includes LPG, NGL, ethane and naphtha. Other also includes direct use of crude oil and other hydrocarbons.

For more detailed data, please consult our on-line data service at http://data.iea.org.

# Greece energy production



## Greece oil imports



Source: Monthly Oil Statistics, IEA

#### Greece oil crisis

Growing number of people not able to buy heating oil

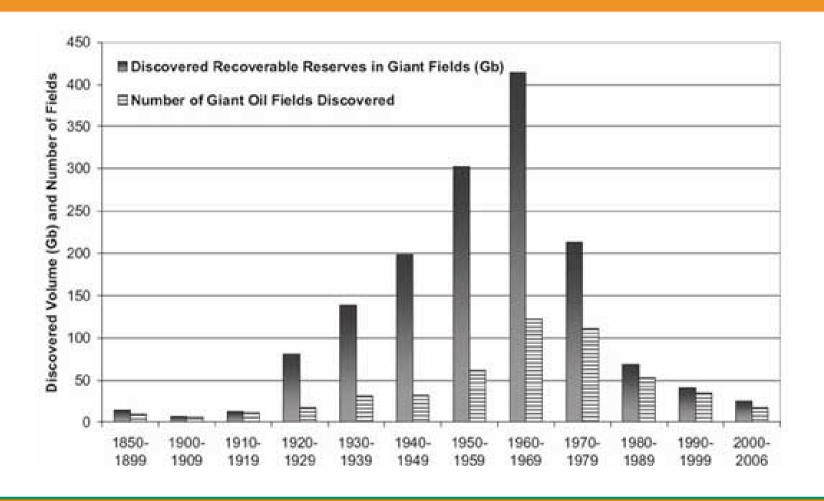
Growing number of people not able to acces transport

Rising costs for oil powered electricity production

High costs of fuel and feedstock hamper economic growth

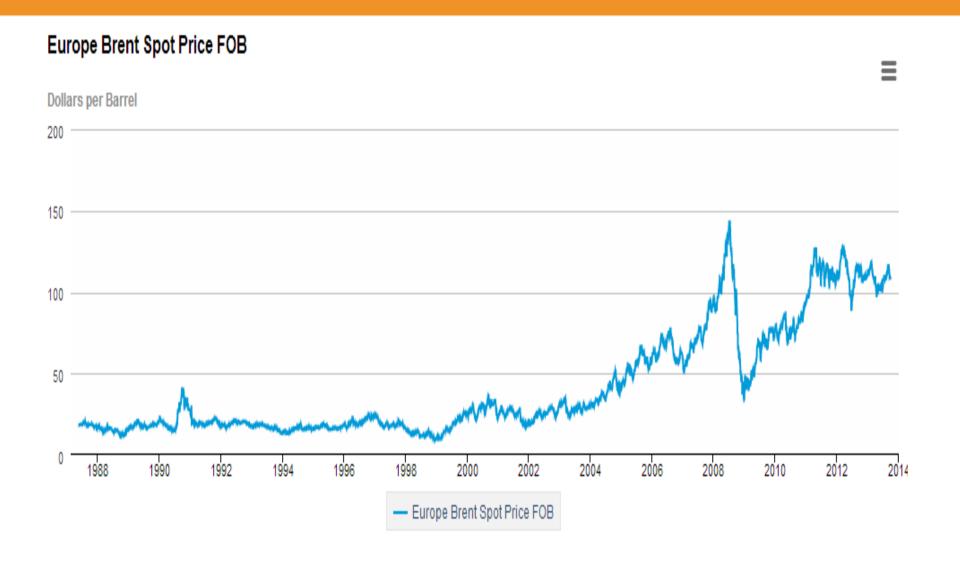


# Limits on oil production

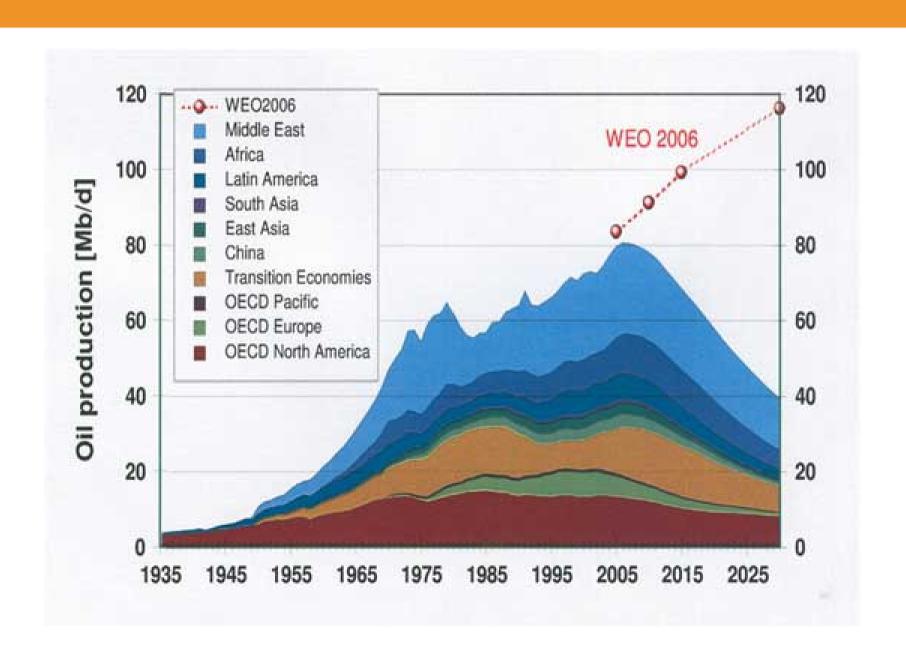


Since 1986 more oil consumption than discovery In period 2000 – 2008: ±90 billion barrels found 253 billion barrels used

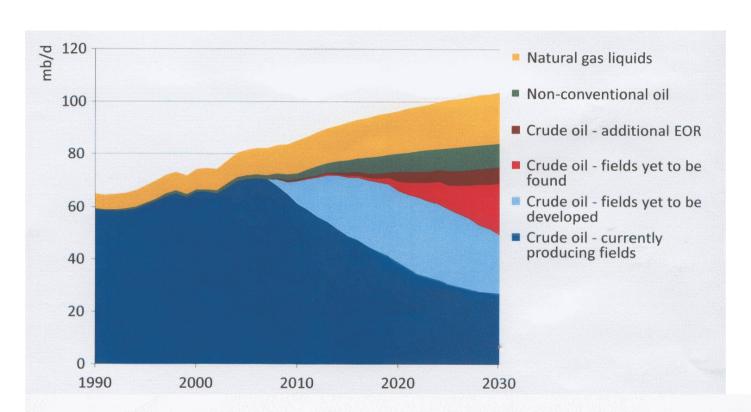
# High Oil price, \$100 the new normal



# Peakoil?



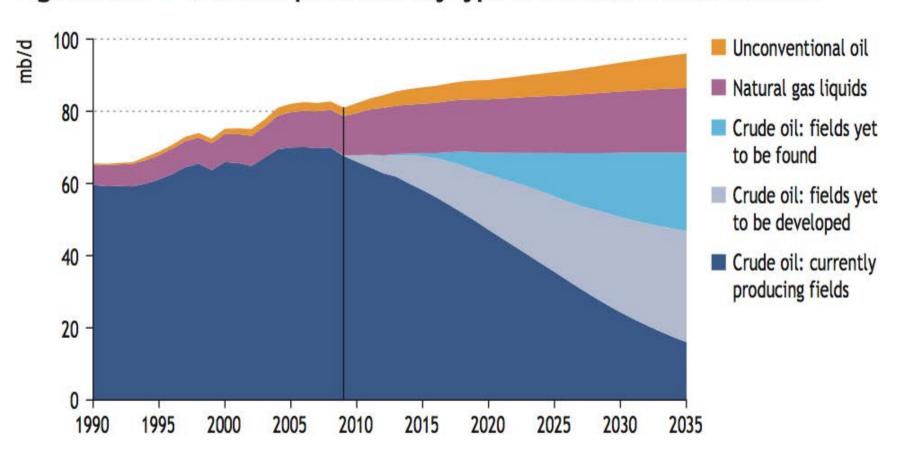
# IEA forecast 2008, 104 mbd



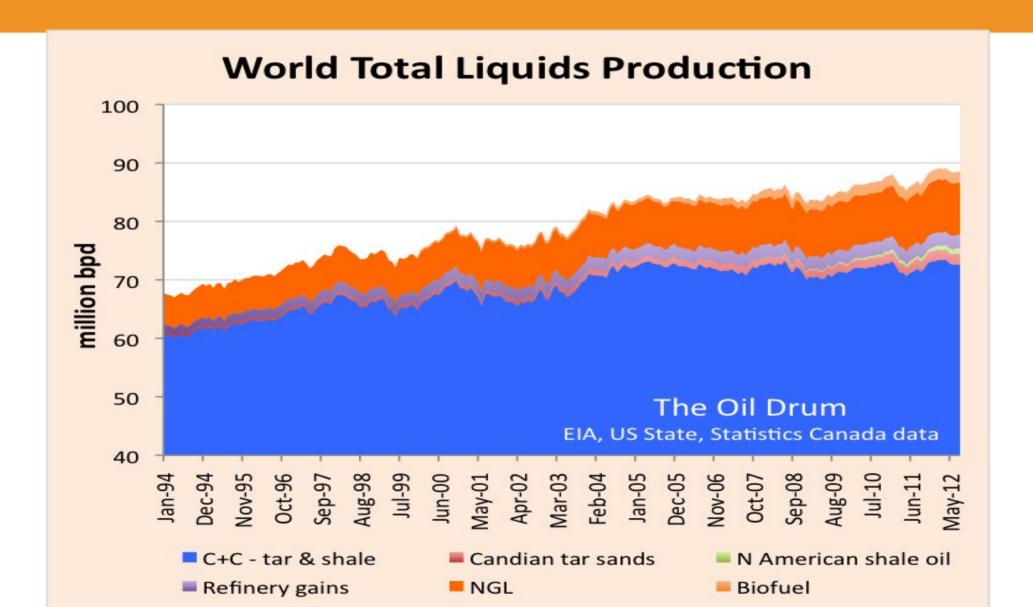
Production reaches 104 mb/d in 2030, requiring 64 mb/d of gross capacity additions – six times the current capacity of Saudi Arabia – to meet demand growth & counter decline

# IEA forecast in 2010, 96 mbd

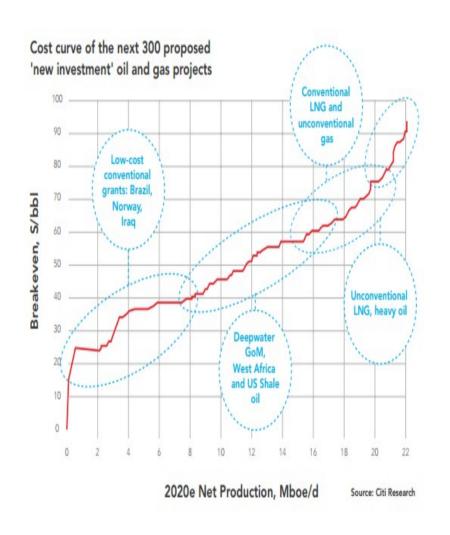
Figure 3.19 • World oil production by type in the New Policies Scenario

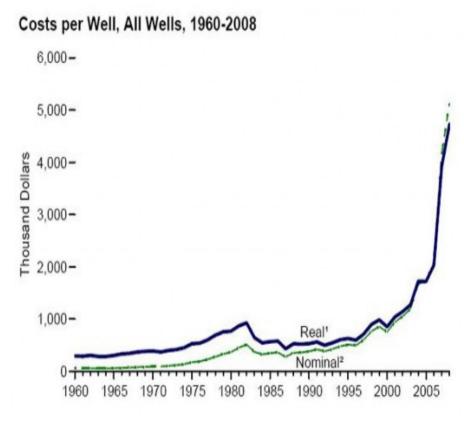


Peak Cheap Oil in 2005

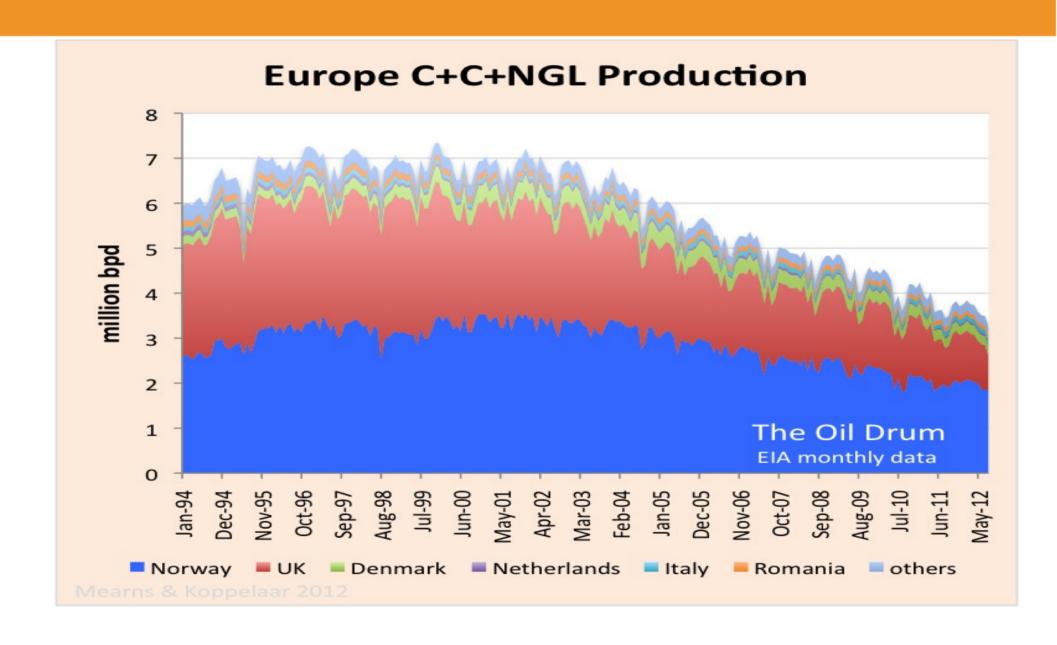


# **Expensive Oil**





# Peakoil for Europe



### High oil prices wil stay

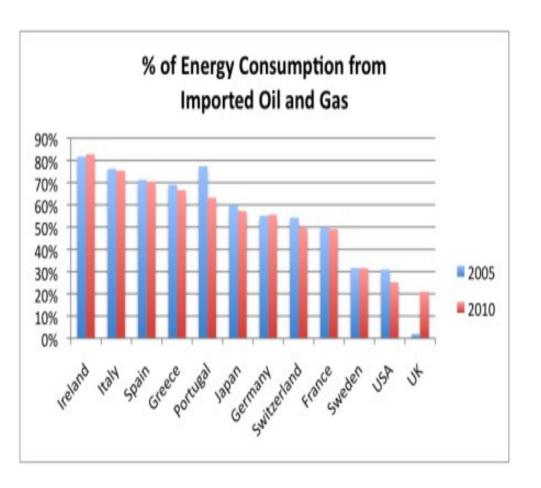
High oil prices wil stay

Oil production in the future

- More risks
- More costs
- More Co2
- More volatile
- Less oil after 2020?
- Smaller number of big producers
- More state owned producers
- More energy intensive

Oil price will fluctuate between to high for consumers and to low for producers. Slowing demand and production.

#### Oil and the Crisis

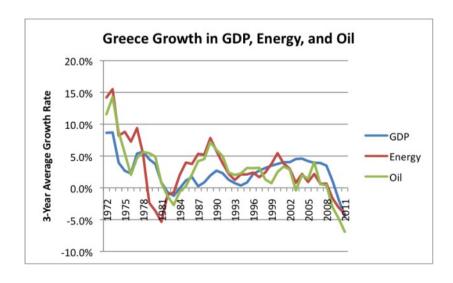


Trade balance problems

Slows economic growth

Job losses

Less tax incomes



# Breaking the addiction

- Setting an oil reduction tartget
- Scenario's and planning with real oil price forecast

- More research
- Starting now with available alternatives
- Education

- \* Lower maximum speed, limit car acces and parking
- \* Heating and electricity to Natural Gas & renewables
- \* Isolation
- \* Biobased chemicals
- \* Replace old vehicles
- \* Natural Gas in shipping
- \* Localize the economy

# Oil and capitalism

#### Post oil

- Cooperative local energy
- Stable economy
- Independence
- Localized economy
- Living within planetary boundries



#### Oil

- Monopoly
- Endless growth
- Recourse wars
- Globalisation
- Climate changes



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# **Meer informatie**

