

# Burning Oil to Keep Cool: The Hidden Energy Crisis in Saudi Arabia

Paul Stevens

Senior Research Fellow, Energy, Chatham House Emeritus Professor, University of Dundee Visiting Professor, UCL Australia

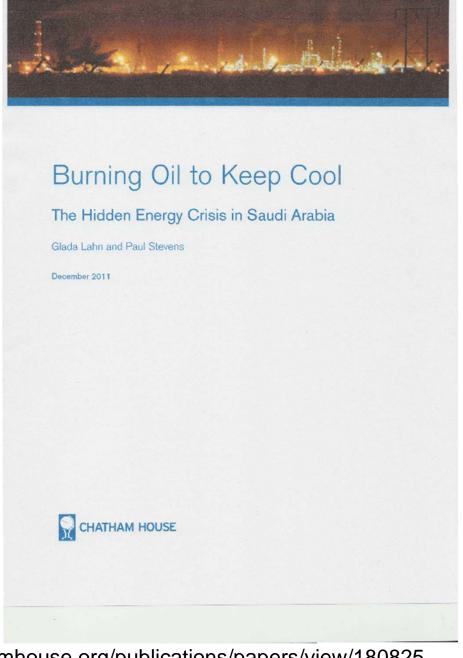
Glada Lahn

Research Fellow, Chatham House

London 28<sup>th</sup> June 2012

## Outline

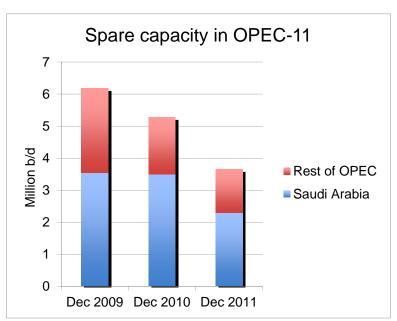
- Saudi Arabia's role in global oil markets
- Current domestic oil consumption in Saudi Arabia
- Why might this be a problem?
- Solutions?

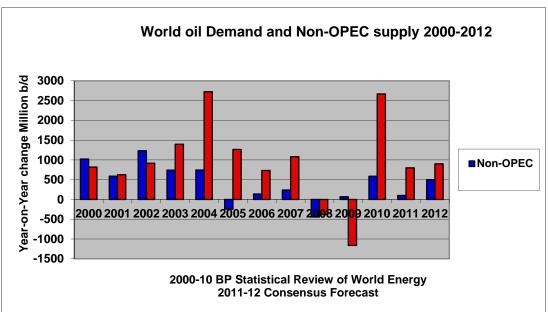


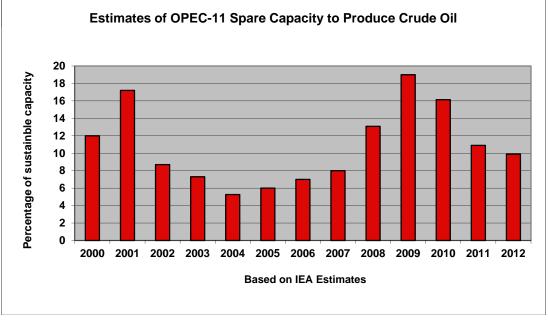


# Saudi Arabia's role in global oil markets

- Maintain spare capacity (2–2.5 mn b/d)
- Use this to try and balance the market



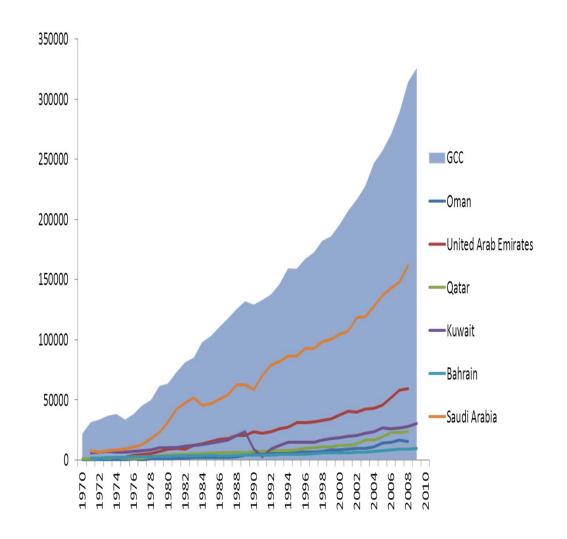




# Current domestic oil consumption in Saudi Arabia

- Has been rising rapidly
- This might be viewed as a good thing
  - Energy as a factor input
  - Energy as a key input into standards of life

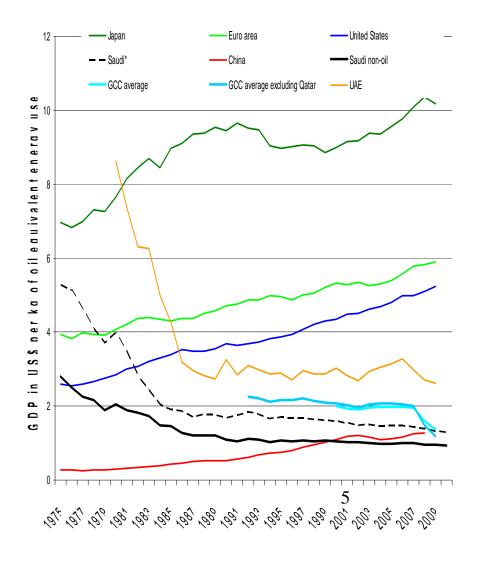
Energy consumption in the GCC (ktoe)





# Current domestic oil consumption in Saudi Arabia

- BUT energy intensity is rising while elsewhere it is falling
- Energy use is extremely inefficient Brzeen Hotel Case Study





# Why might this be a problem?

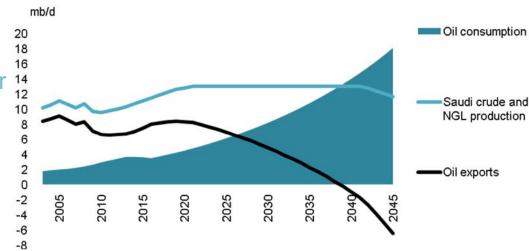
- It is a waste
- Environmental impact including air pollution and high transactions costs from congestion
- Low prices benefit the rich and lead to smuggling

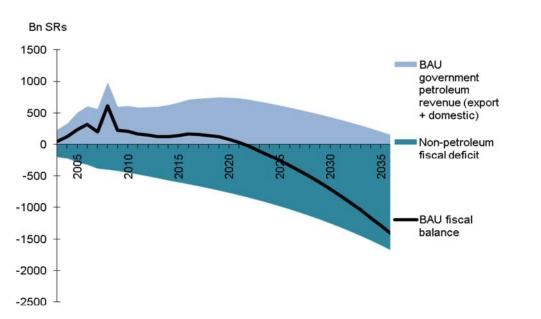


# Why might this be a problem?

- It is a waste
- Environmental impact including air 14 pollution and high transactions costs from congestion
- Low prices benefit the rich and lead to smuggling
- It might eat into Saudi Arabia's role in the world oil market
- It shortens the period of transition for Saudi when the non-oil economy must be developed

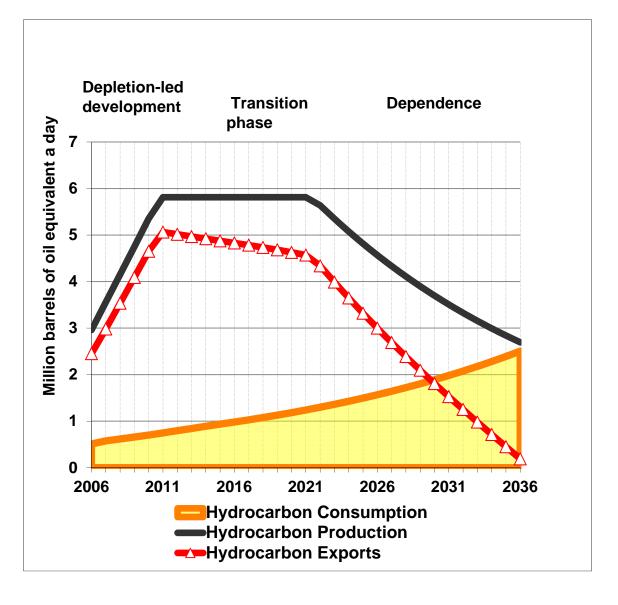






#### Transition issues

- Oil revenue is not income
- Simply re-shuffling the country's asset portfolio
- The key is to remove the nonhydrocarbon fiscal (and current account) deficit



John V Mitchell and Paul Stevens Ending Dependence: Hard Choices for Oil-Exporting States. July 2008

http://www.chathamhouse.org/publications/papers/view/108858

## Solutions?

- Need to realize there is a problem
- Identify causes
  - Industrial strategy
  - Increasing living standards in a harsh climate



## Solutions?

- Need to realize there is a problem
- Identify causes
  - Industrial strategy
  - Increasing living standards in a harsh climate
  - Low fuel prices

## Oil demand = derived demand

1. To buy or not to buy the appliance?

2. If yes – what type of appliance?

Fuel type?

Efficient or inefficient?

3. Capacity utilization?

**OIL CONSUMPTION** 



## Solutions?

- Need to realize there is a problem
- Identify causes
  - Industrial strategy
  - Increasing living standards in a harsh climate
  - Low fuel prices
    - Inefficient appliances
    - Culture of waste

## Oil demand = derived demand

1. To buy or not to buy the appliance?

2. If yes – what type of appliance?

Fuel type?

Efficient or

inefficient?

3. Capacity utilization?

**OIL CONSUMPTION** 



#### Solutions

- Low prices
  - Problem of the social contract
  - Lifeline rates electricity smart cards for gasoline
  - Possibilities for price discrimination against expatriates
- Inefficient appliances
  - Appliance standards
  - Imposing maintenance requirements –e.g. Abu Dhabi and aircon.
- Culture of waste
  - Islamic dimension

