



المنتدى العربي للبيئة والتنمية
ARAB FORUM FOR
ENVIRONMENT AND DEVELOPMENT

ARAB ENVIRONMENT IN 10 YEARS

10th Annual Conference of the Arab Forum for Environment and Development (AFED)
2 - 3 November 2017, Le Bristol, Beirut

Economic and Social Commission for Western Asia

SUSTAINABLE ENERGY PATHWAY FOR THE ARAB REGION



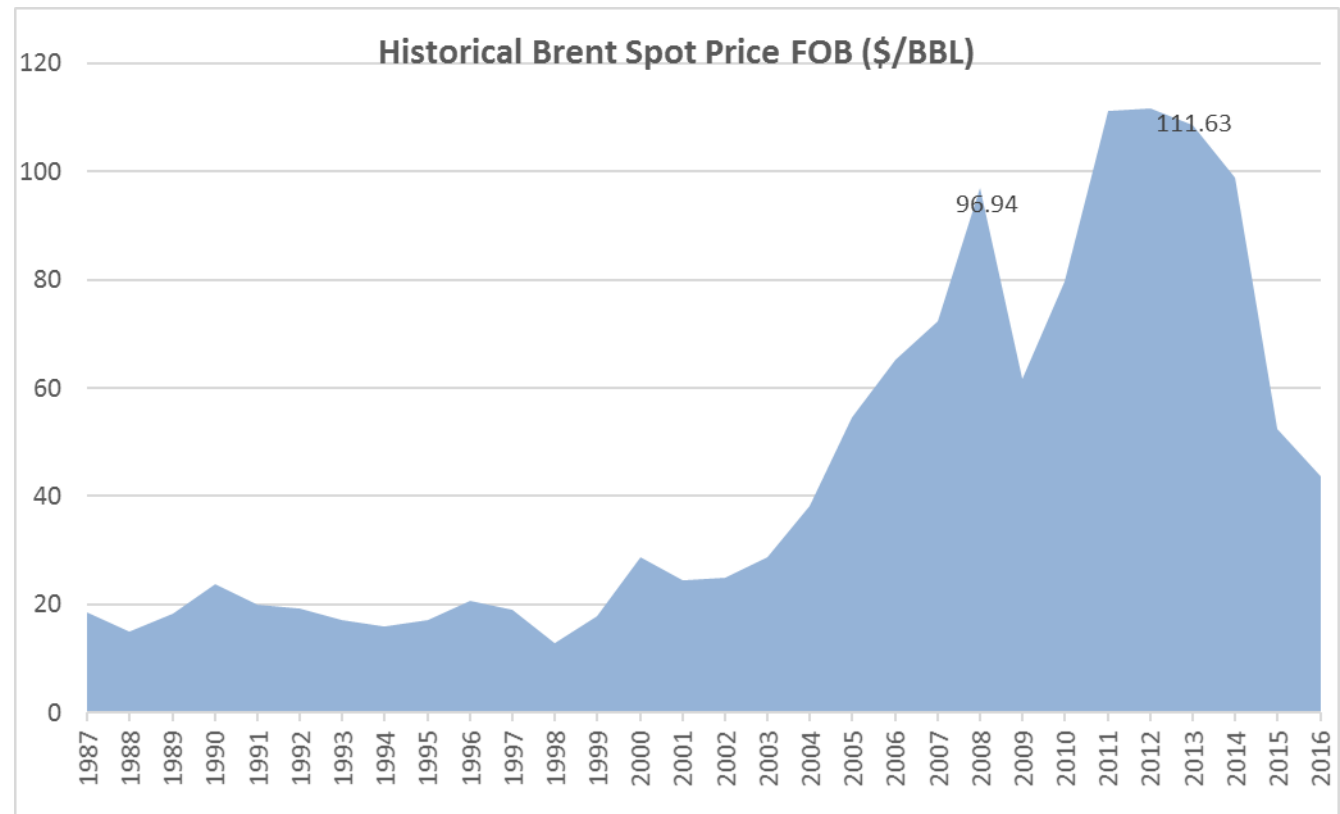
UNITED NATIONS

الاسكوا
ESCWA

Ms. Radia Sedaoui
Chief Energy Section
Sustainable Development Policies Division

Oil prices have declined, creating a growing source of concern and structural change of the global energy market

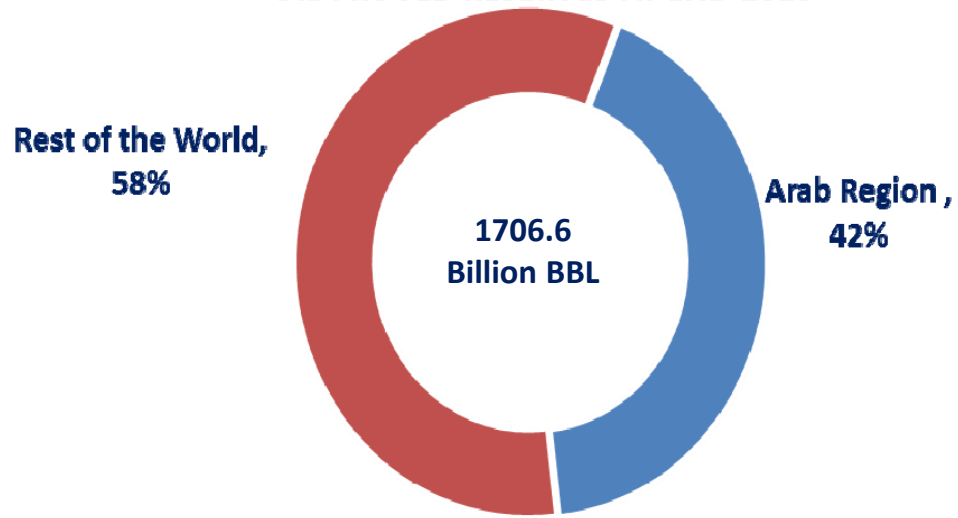
- Hydraulic fracturing and related technologies created new ways of producing hydrocarbons;
- Structural economic shifts, saturation effects and efficiency gains.
- Investments continue to decrease, not only in the oil industry but also in the gas and power sectors.
- Solar panels and batteries, wind turbines, biomass gasification and tidal energy, among other technological innovations are changing the face of the energy industry.



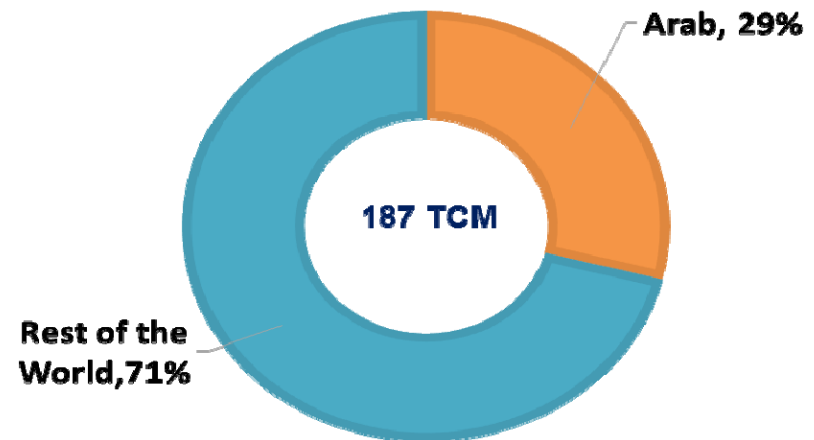
Source: U.S. Energy Information Administration, 2017

Fossil fuels form an integral part of the Arab region's modern socio-economic development trajectory

OIL PROVED RESERVES AT END 2015

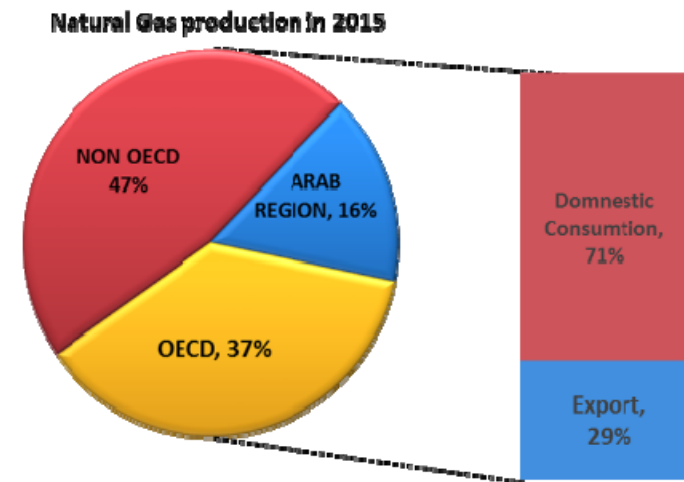
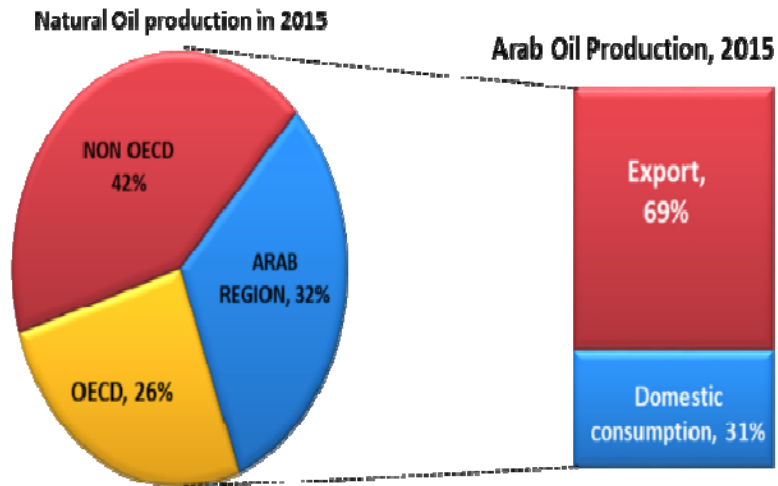


GAS PROVED RESERVES AT END 2015



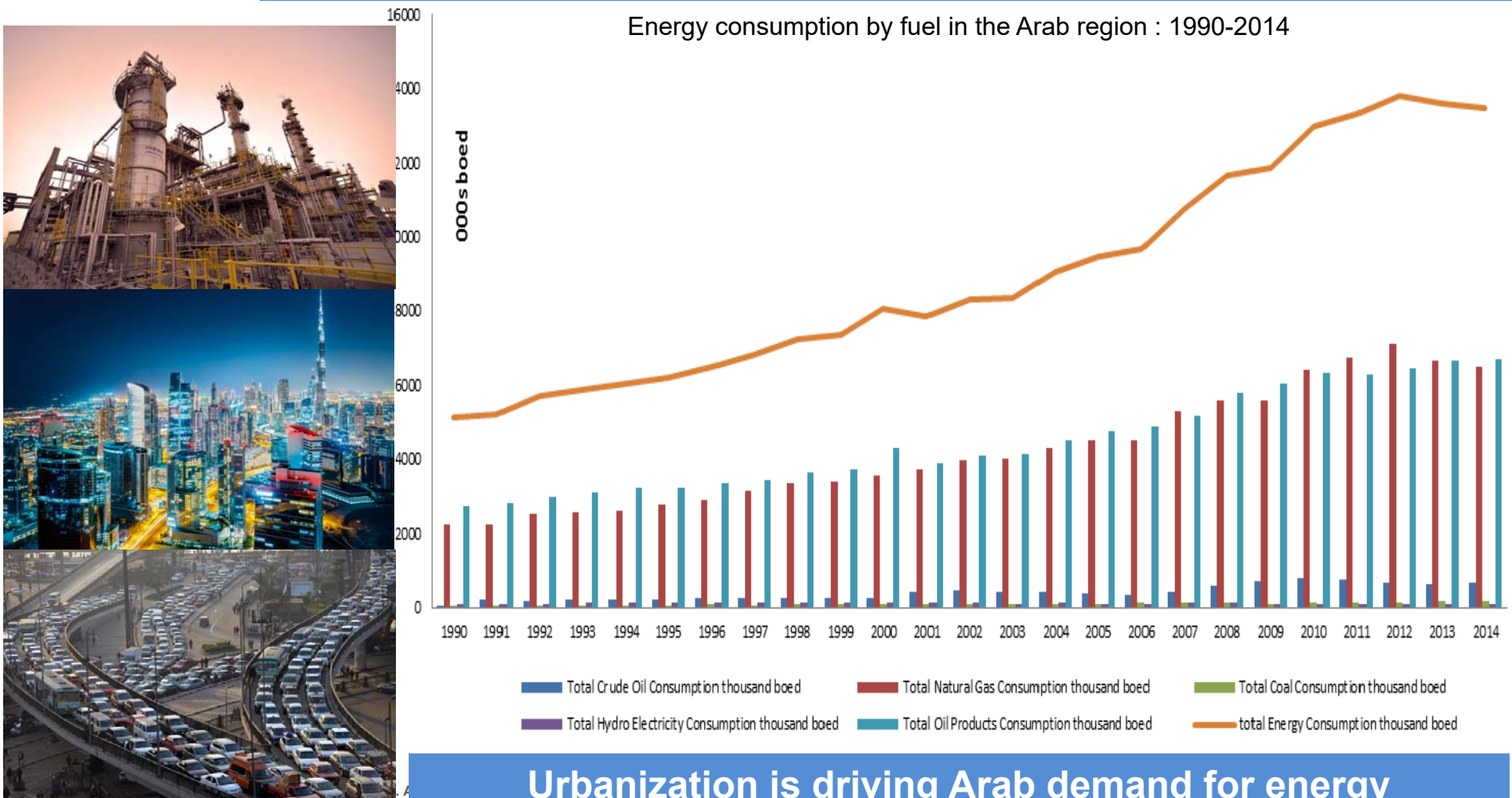
The Arab region large oil and natural gas resources have defined the region's status as a key supplier to world markets

Arab Countries' reliance on Fossil Fuels



The current business-as-usual scenario in the areas of energy and wider natural resource management in the Arab region is unsustainable

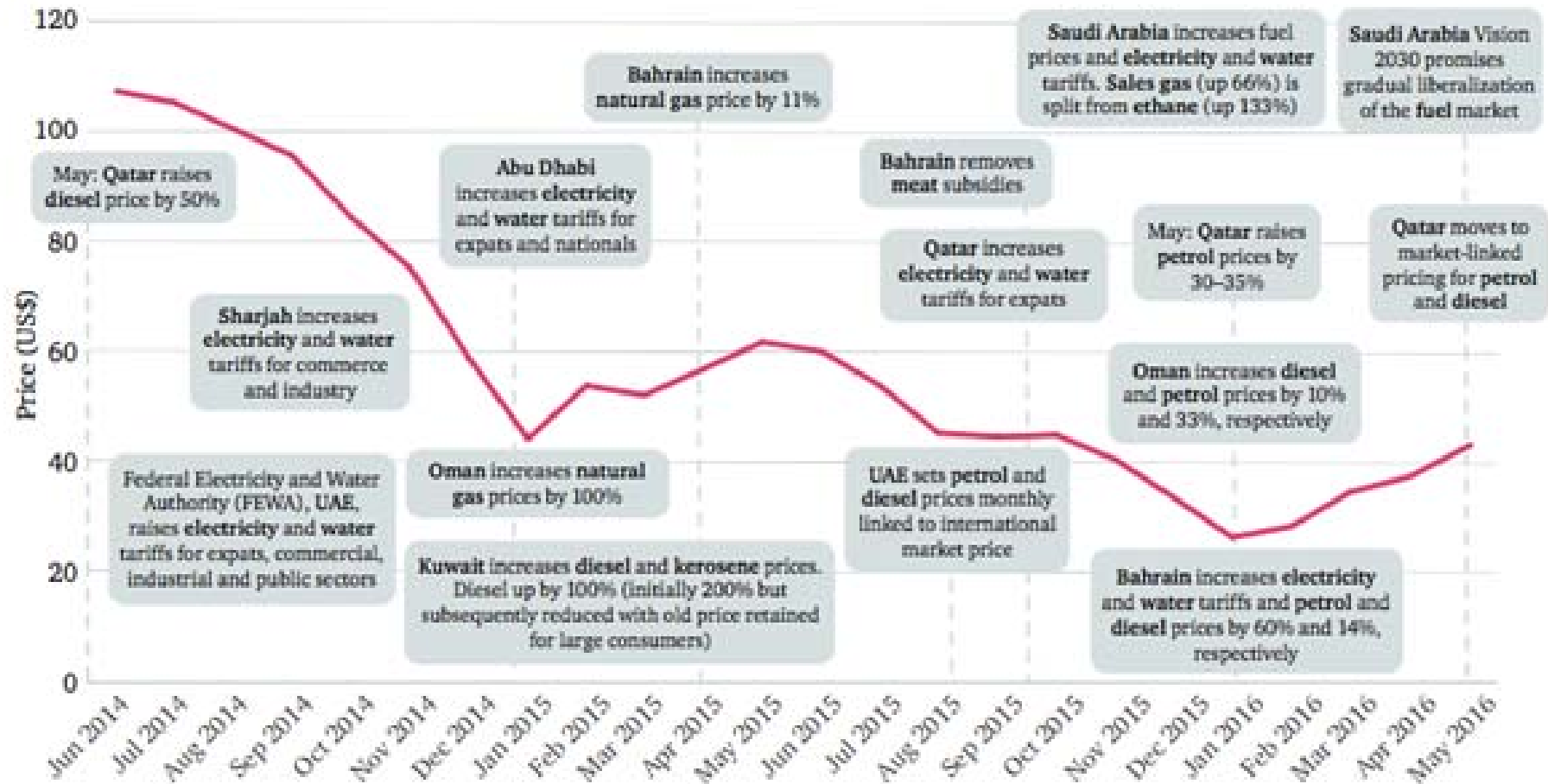
Energy consumption more than doubled in the Arab region since 1990



Urbanization is driving Arab demand for energy

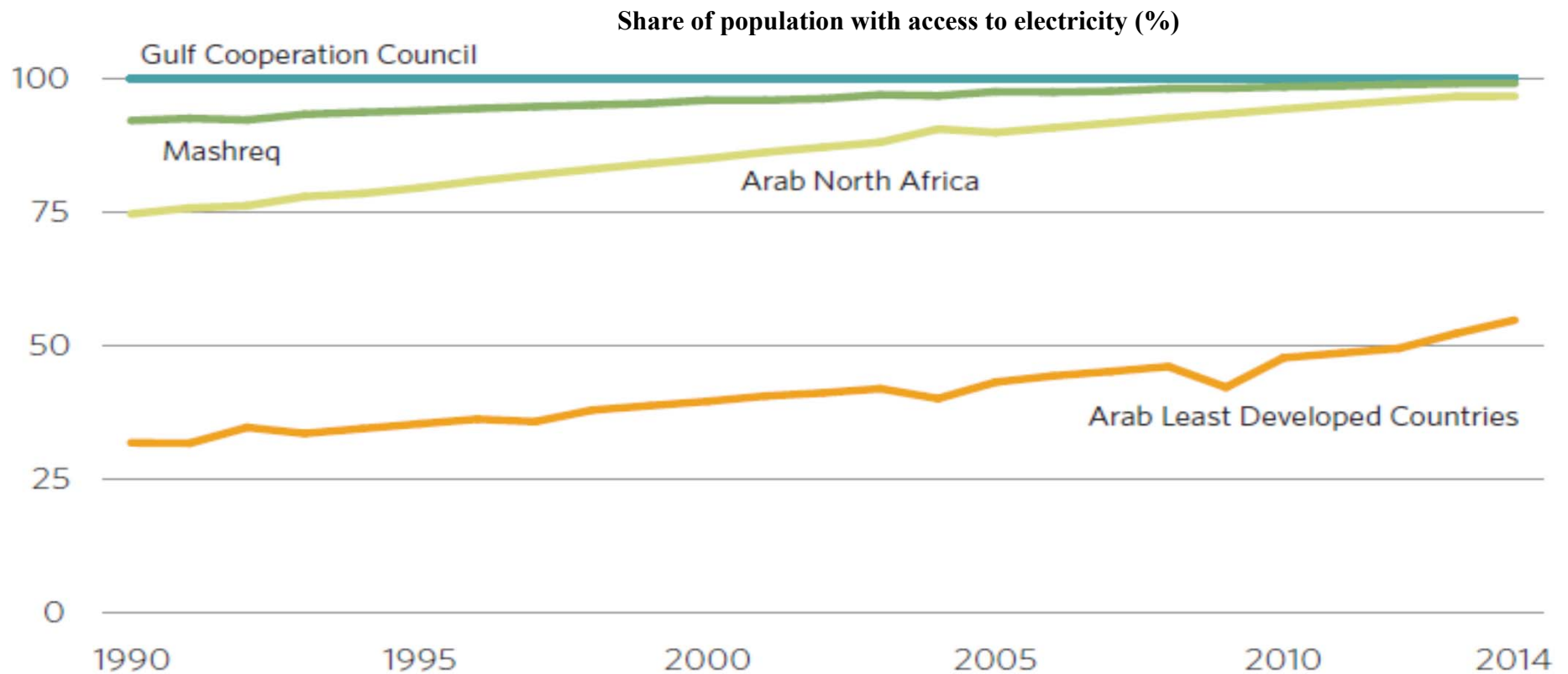
Growing domestic energy demand challenges subsidy reforms

GCC domestic price reforms in the context of falling international oil prices



(Source: Chatham House, 2016)

Pathway Toward Universal Energy Access

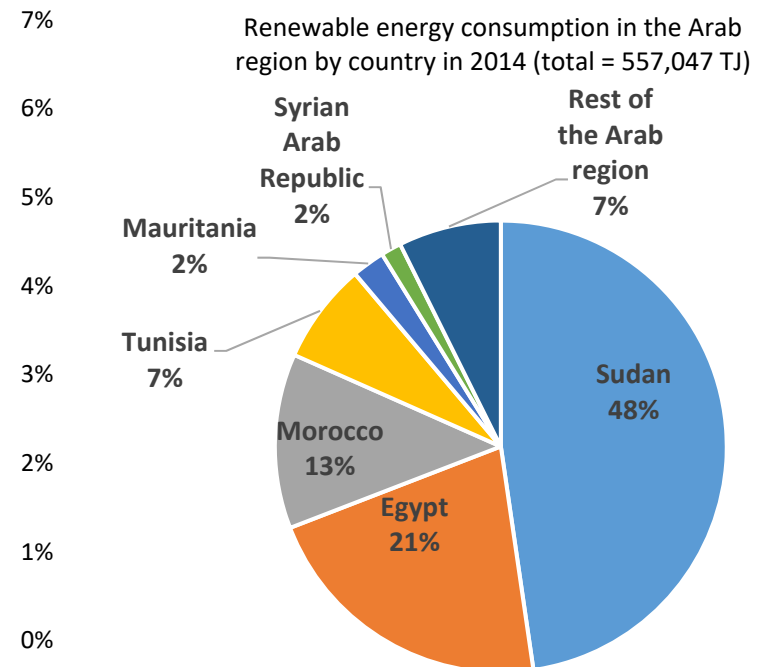
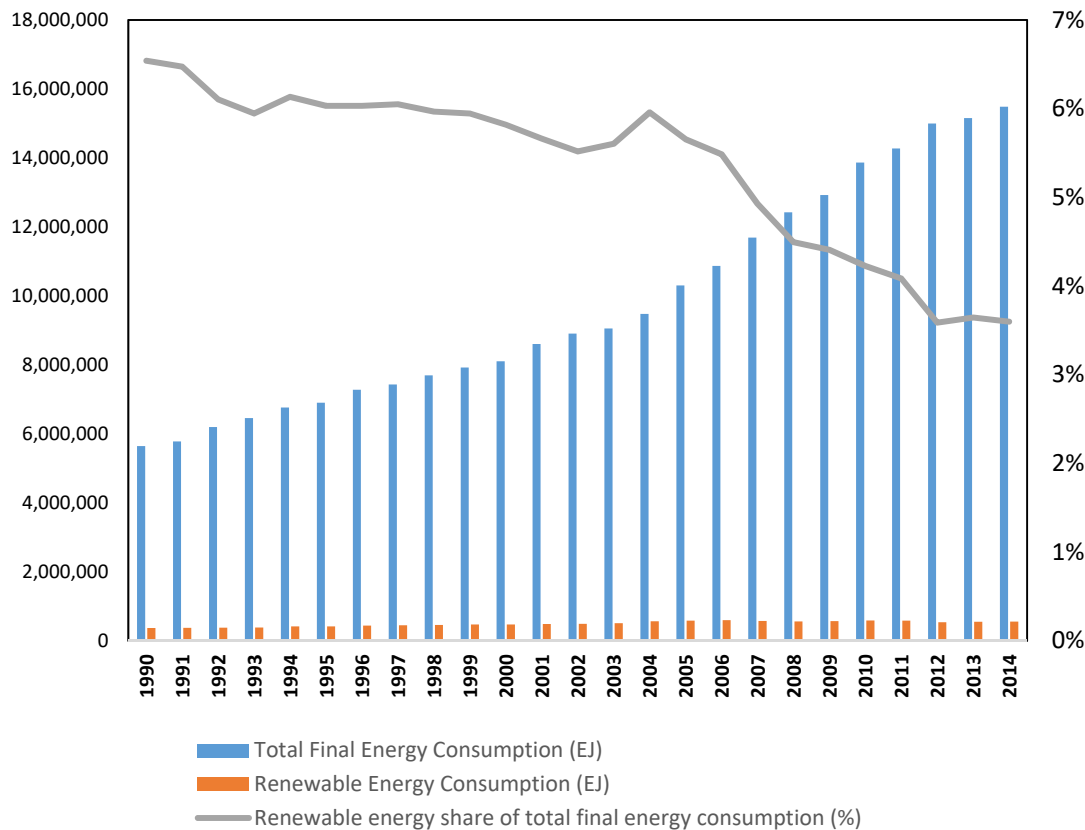


(Source: GTF, 2017)

The Arab region ranked third globally and was assessed as approaching universal access to electricity

The Arab region display the smallest role in developing RE...This lie less in the resource base for RE – but rather in the region’s own development Model

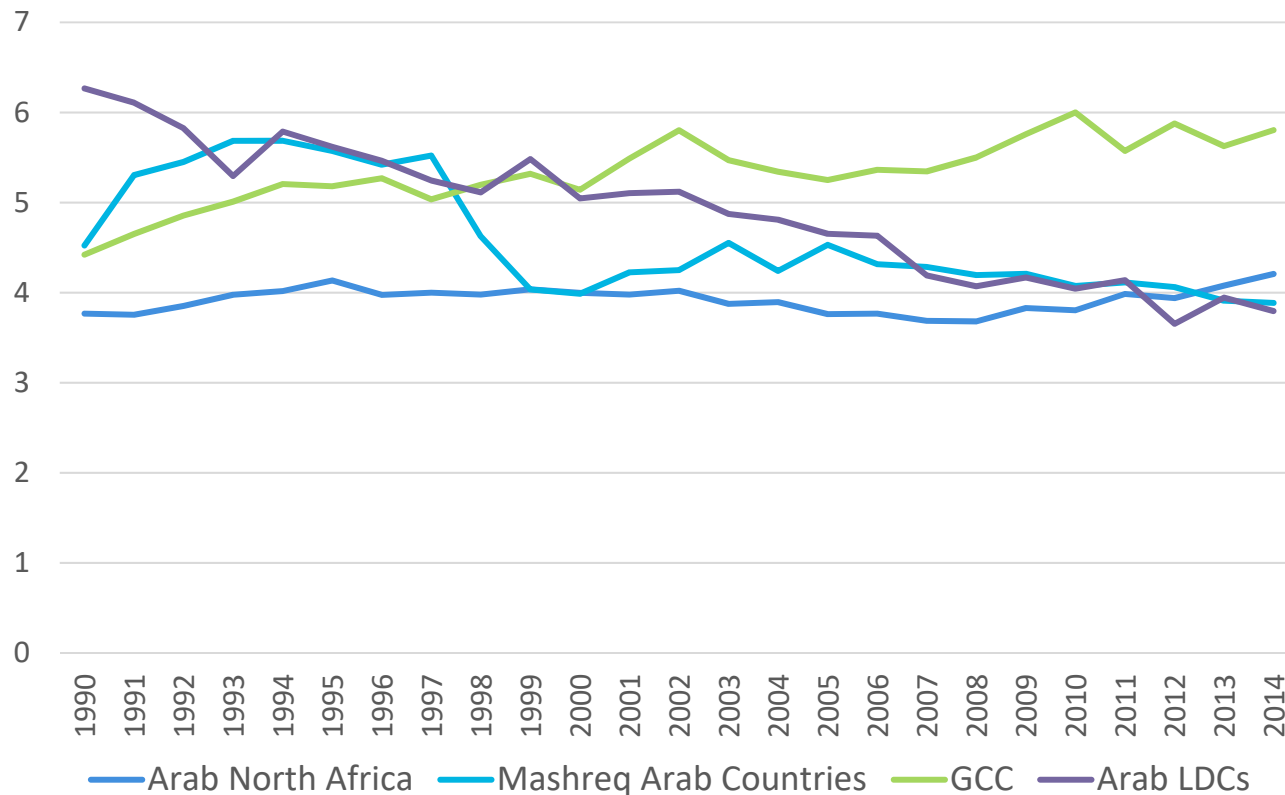
Share of RE in TFEC in the Arab region, 1990-2014



The outlook for wind and solar power in the Arab region is generally positive provided further policy reform continues to incentivize investment in new sources of energy

Progress in energy efficiency needs to accelerate much more

Energy Intensity in the Arab region by sub-region, 1990 – 2014
(MJ / GDP PPP 2011 \$)

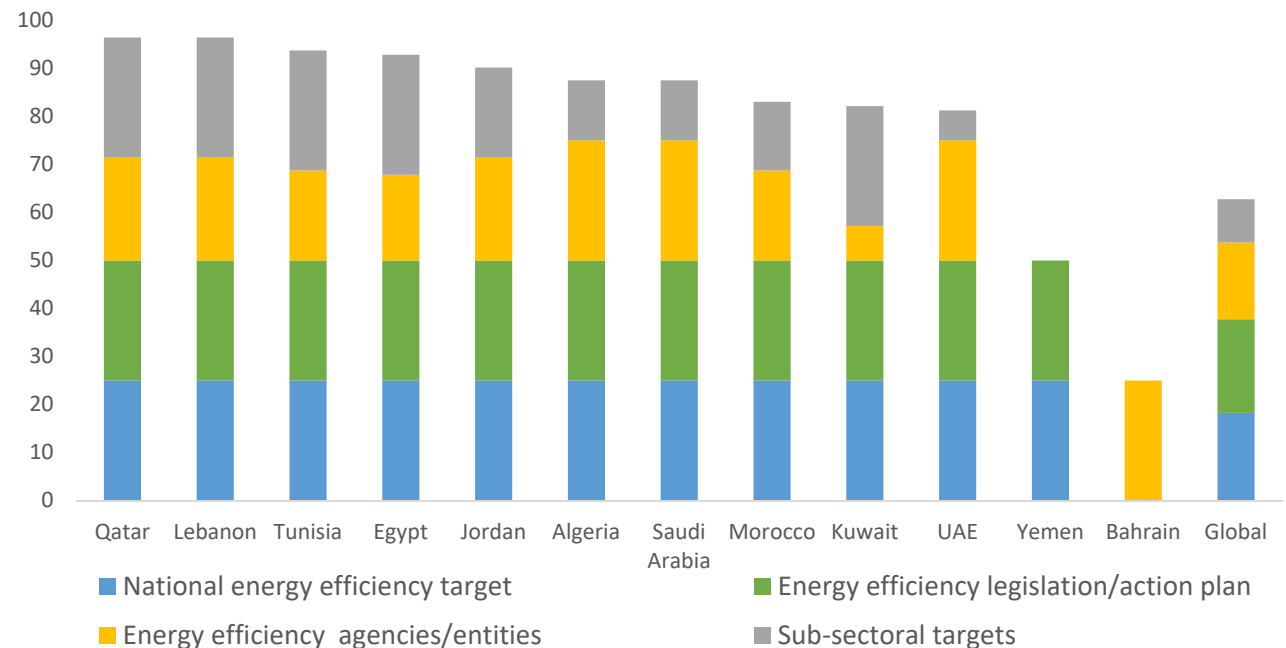


- No significant shift from energy-intensive activities towards less energy-intensive services activities;
- Limited domestic market incentives to conserve energy and to invest in more energy efficient technology.

Regulatory and Policy Frameworks Key to Energy Efficiency in the Arab Region

The indicators chosen have been shown to be effective in many countries in enabling investments in energy efficiency, and can hence provide an idea of where countries stand relative to each other

RISE energy efficiency (EE) indicators for the Arab Countries



(Source: World Bank, 2017a)

Policymakers are key to accelerating progress in sustainable energy over the coming years.

Conclusion and Recommendations

SUSTAINABLE ENERGY PATHWAY FOR THE ARAB REGION

- The world is in the midst of an important energy transition, **the 2030 Agenda for Sustainable Development** and the adoption of **Paris Agreement** are also key factors in changing the future energy mix and sustainability of energy resources;
- New solutions and a new mix of energy sources with a high focus on sustainability need to be developed through improvement in **Energy efficiency and Renewable energy**;
- Review and adapting the **Fiscal policies and frameworks, Governance and transparency** are required;
- Enhancement of the business environment is necessary by encouraging the growth of the **private sector**, providing **economic incentives** and access to **finance**;
- A **strategic and forward-looking** is required for better **management of natural resources** through **economic diversification** of the Arab economies.

Economic and Social Commission for Western Asia



UNITED NATIONS

الاسكوا
ESCWA

THANK YOU

sedaoui@un.org

40
YEARS