# Jordan Country Report

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## **Country Overview**

- Jordan's Climate is characterized as a hot, dry climate characterized by long, hot, dry summers and short, cool winters.
- Jordan's population is approximately 11 Million
- Jordan's GDP is about 47 \$ Billion.
- Jordan's Economy is mostly from Commercial & Service Sector (60%) and the Industry Sector (23%)
- Jordan's main natural resources are phosphates, potash and oil Shale.
- Jordan lacks large oil and gas reserves and is highly dependent on imported energy sources (85%).



## Energy Sector Vision and Strategic Goals



Jordan's energy sector is well-developed with clear vision, mission, and strategic goals.



## Energy Sector Structure

#### Jordan's energy sector has a simple structure and clear responsibilities

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# Jordan's Primary Energy Supply



#### The primary energy mix is evolving, with renewable energy and local sources shares are rising.



# Jordan's Final Energy Consumption



#### However, Jordan's final energy consumption breakdown is not changing.



# Jordan's Energy Strategy 2020-2030



#### The Energy Strategy contributes to achieving the sector's vision and strategic goals.



# Way forward?



Challenges

#### Demand Behaviour

• Temporal mismatch with renewable availability

Renewables Variability

- Matching supply with demand Reduced capacity factor and efficiency of othe generation units.
- Increase O&M costs and system costs

Solutions and Actions

Demand Response – Time of Use Tariff

• Increase demand flexibility and improve temporal matching with renewables.

Interconnection with neighbouring countries

• Reduce variability in supply and demand

#### Pumped-hydro Storage Project

• Reduce renewable curtailment and allow for renewables expansion

## **Energy Transition – Electric Mobility**

- Electric Vehicles has high market share.
- Rapid upetake coupled with noninteractive charging are exacerbating peaky demand.
- Comprehensive study is ongoing to address issues and challenges of grid impact, infrastructure promotion, and electric tariffs.

## Energy Transition – Low Carbon Hydrogen



Low-carbon Hydrogen is under intense study in Jordan!





# Jordan Energy Strategy Update





## Looking Forward to the Program!



Leverage the new knowledge and skills to advance Jordan's energy security by enacting sustainable policies and practices.

How to develop energy efficiency legislation to create a

comprehensive regulatory framework

How to develop policies to promotion creation a hydrogen-based

economy



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# Thank You