Pan-Arab Electricity Market (PAEM) Information Request

This information request is being organised by the LAS on behalf of the Steering Committee, under the Arab Electricity Expert Committee. The aim is to establish a common understanding of the electricity arrangements across all the countries in the region in order to facilitate the process to build the PAEM.

If some information is not immediately available, please fill in what you can. It is intended that the requested information can be updated in the future, and any missing data can also be added once it is available.

The responses to this survey will be treated as confidential. The purpose of this survey is, however, to facilitate the development of PAEM and so it is anticipated that some or all of the survey may be shared with the ARC and TSO Committee (or the Arab Electricity Expert Committee pending the establishment of these new committees). Please indicate if any particular elements of your response may not be shared on this basis without your prior consent.

Country

Organisation name

Type of organisation
Choose an item.

Name

E-mail

1. Industry Statistics

2022 Generation Mix

	Installed Capacity (MW)	Annual Generation (TWh)
Open cycle gas turbine		
Combined cycle gas turbine		
Steam turbine - gas-fired		
Steam turbine - oil-fired		
Steam turbine - coal-fired		
Diesel generator		
Hydroelectric		
Nuclear generation		
Wind farm		
Solar photovoltaic (PV)		
Solar thermal		
Other*		

* Describe "Other"

Projected Generation Mix (estimate, c. 2030)

	Share of installed Capacity (%)
Open cycle gas turbine	
Combined cycle gas turbine	
Steam turbine - gas-fired	
Steam turbine - oil-fired	
Steam turbine - coal-fired	
Diesel generator	
Hydroelectric	
Nuclear generation	
Wind farm	
Solar photovoltaic (PV)	
Solar thermal	
Other*	
	100%

* Describe "Other"

Demand

	2022	2030 (estimate)
Annual demand (TWh)		
Peak load (GW)		
Base load (GW)		

Exchanges

	2022
Sum of import (GWh)	
Sum of export (GWh)	

Transmission Grid

	Circuit Length (km)
AC at 500 kV	
AC at 400 kV	
AC at 220 kV	
AC at 150 kV	
AC at 132 kV	
AC below 132 kV	
HVDC	

Existing Interconnection

	Bordering country/TSO	Rated Capacity (MW)	Type (AC/DC)
1			
2			
3			
4			
5			
6			

Planned New Interconnection

	Bordering country/TSO	Likely Capacity (MW)	Type (AC/DC)	Status	Potential go-live date
1				Choose an item.	
2				Choose an item.	
3				Choose an item.	
4				Choose an item.	
5				Choose an item.	
6				Choose an item.	

2. Industry Structure

2.1 *Organisation*

TSO

- ☐ Fully independent entity
- ☐ Independent entity (e.g., own board, financial reporting) within holding entity
- ☐ Separate management unit (e.g., own MD) within holding entity
- ☐ Operational department

What changes (if any) to the TSO are currently planned or anticipated?

National Regulator

- ☐ Independent body responsible for electricity regulation, separate from energy ministry
- ☐ Independent body responsible for electricity regulation, under the energy ministry
- ☐ Dedicated function responsible for electricity regulation within the energy ministry
- ☐ No regulatory body appointed – e.g., electricity regulation not applicable at present

What other industries (if any) does the national regulator also cover?

What changes (if any) to the national regulator are currently planned or anticipated?

Supply: Single Buyer

- ☐ Fully independent entity
- ☐ Independent entity (e.g., own board, financial reporting) within holding entity
- ☐ Separate management unit (e.g., own MD) within holding entity
- ☐ Operational department

What changes (if any) to the Single Buyer are currently planned or anticipated?

2.2 *Generation*

Generation Ownership Mix (MW installed capacity)

	2020	2030 (estimate)
Single national utility		
State-owned entities		
IPPs under PPA (e.g., with Single Buyer)		
Uncontracted IPPs (e.g., out of PPA)		
Other*		

*** Describe "Other"**

2.3 *Supply: direct contracting*

Current arrangements for Direct Contracting (generation-customers)

- ☐ Qualified buyers can procure power from IPPs across the system (TSO-wide access)
- ☐ Qualified buyers can procure power from local IPPs (no system-wide access)
- ☐ No direct contracting possible
- ☐ Other*

*** Describe "Other"**

What are the necessary conditions to be a "qualified buyer"?

What proportion of overall demand is currently entitled to direct contracting?

What changes (if any) to direct contracting are currently planned or anticipated?

What mechanism are currently planned or anticipated to facilitate domestic trading (e.g., trading platform, day ahead auction)

2.4 *Subsidies*

What subsidy arrangements are currently used?

- ☐ Fuel at below market prices
- ☐ Differential tariffs (e.g., subsidised electricity prices for households at expense of large consumers)
- ☐ Subsidised PPAs or capacity payments
- ☐ Other*

*** Describe "Other"**

What changes (if any) to the subsidy arrangements are currently planned or anticipated?

2.5 *Cross-border trade*

Which entity(ies) are currently able to undertake cross-border trading

- ☐ TSO
- ☐ National utility
- ☐ State-owned generators
- ☐ Single Buyer
- ☐ Qualified buyers
- ☐ Other*

*** Describe "Other"**

What changes (if any) to cross-border trading access are currently planned or anticipated?