



غرفة صناعة عمان  
AMMAN CHAMBER OF INDUSTRY

# **"The Creation of Regional Industrial Associations of EE & REs components' manufacturing"**

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## Main Topics:

- 1. Brief of Amman Chamber of Industry (ACI)**
- 2. Jordan Manufacturing Sector - Main Indicators.**
- 3. Energy Challenges for Jordan Manufacturing Sector.**
- 4. Amman Chamber of Industry Main Initiatives**
- 5. Examples of Jordanian manufacturers of RE&EE components**
- 6. Experience of creation industrial associations**
- 7. Amman Chamber of Industry point of view to establish Regional association for manufacturers of RE&EE components**



# Amman Chamber of Industry



**Amman Chamber of Industry (ACI) was established in 1962 as a non-profit organization with a membership that includes 9,000 industrial enterprises classified under several industries varying in size from small to medium and large industries.**

<http://www.aci.org.io/>



# Amman Chamber of Industry



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## **Vision:**

To have a leading role in serving its members and to be a main driver for developing the national industry and enhancing its competitiveness.

## **Mission:**

To represent and advocate the interests of the industrialists, also to offer them unique services and programs in order to fulfil their needs and expectations and enhance the competitiveness of the Jordanian industrial products towards strengthening the national economy



# Amman Chamber of Industry



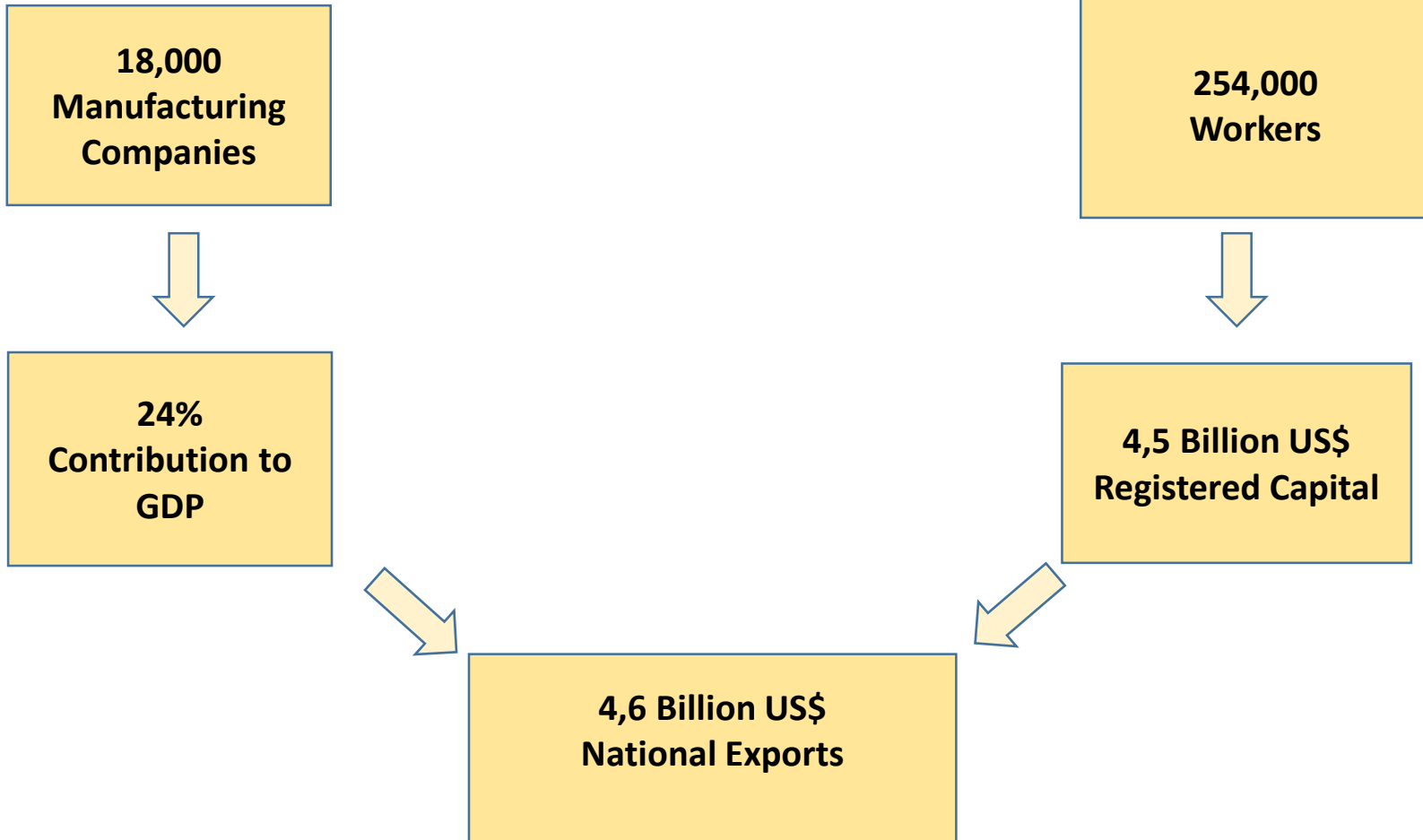
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- **Main Activities:**

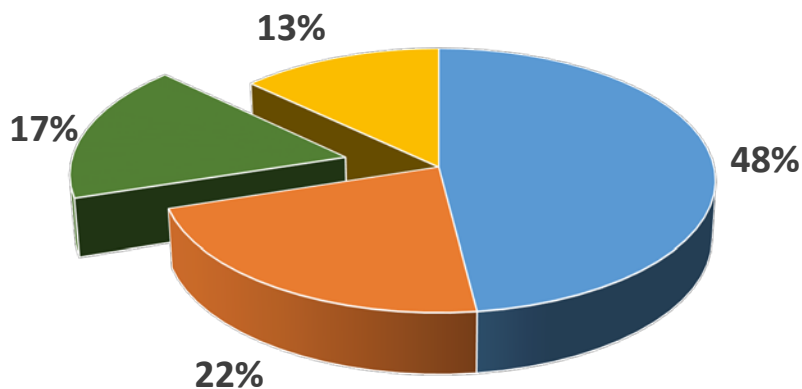
1. Issuance of certificates of origin of Jordanian industrial products.
2. Organizing several technical and financial support programs and services provided to its members covering different management, technical and business development areas.
3. Organizing meetings, workshops and training courses aimed at increasing member's capabilities in various areas in addition to discussion of the industrial issues.
4. Contributes to organizing exhibitions, trade delegations and promotion of activities aimed at developing Jordanian exports.
5. Contributes to promotion of investment in Jordan.
6. Contributes to development of the local society.

# Jordan Manufacturing Sector Main Indicators



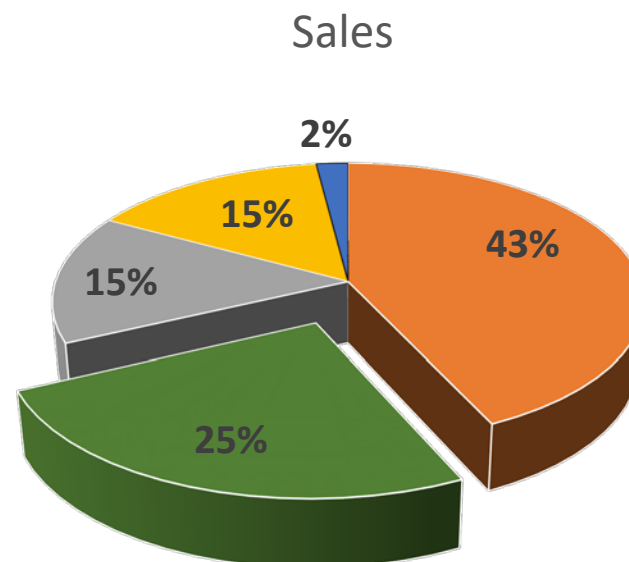
# Jordan Manufacturing Sector Energy Consumption Ranking

- Ranked The Third in Total Energy Consumption



- Transportation
- Household
- Industrial
- Other sectors

- Ranked The Second in Electricity Consumption



- Household
- Industrial
- Commercial
- Water pumping
- Street Lighting



# Energy Challenges Facing Jordan Manufacturing Sector



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- 1. High electricity tariff for Jordan Manufacturing Sector in comparison with tariffs of several surrounding countries.**
- 2. During the last 10 years, electricity tariff increased by 93%, which affected negatively on the competitiveness of Jordanian industries.**
- 3. Intensive energy industries such as aluminum, steel, plastic, cement, food and chemical industries face difficult competition due to high production cost which is mainly due to high energy cost.**
- 4. Difficulties facing small and micro industries to use the available green financing schemes.**
- 5. Lack of energy efficiency awareness.**
- 6. Regional situation which caused high uncertainty and difficult investments decisions.**



# Amman Chamber of Industry “ACI” Strategy & Energy Issues



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*ACI Strategy focused on energy issues mainly Energy Efficiency & Renewable Energy as priority, therefore it provided technical & financial support to the manufacturing sector in Jordan/ Mainly SMEs by several development initiatives and projects in order to face energy challenges.*



# Amman Chamber of Industry “ACI” Main Initiatives



**1. Energy Audit & Consultations**

**2. Financial Support & Grants**

**3. Awareness & Training**



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# Amman Chamber of Industry “ACI” Main Energy Projects



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**1. PV power plant project (100 Mw/ wheeling )**

**2. Natural Gas project for industrial areas**



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## **Examples of Jordanian manufacturers of RE&EE components**

# Philadelphia solar company



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- **Established in 2007**
- **a built-up area of 14,000 m<sup>2</sup> at Al-Qastal industrial area / Amman**
- **Philadelphia Solar is the first MEA-based company that manufactures, develops, designs, constructs, owns and operates utility-scale commercial and industrial photovoltaic plants.**
- **Main Products:**
  1. **Solar Panels ( Mono & Poly crystalline )**
  2. **Mounting Structure (fixed and tracker)**
- **44 Countries Exported**
- **220 MW capacity production (yearly)**
- **More than 200 Mw projects developed**

<https://www.philadelphia-solar.com/>



# Wiosun for Renewable Energy



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- **Established in 2016**
- **The company is located at the economic zone in Aqaba city.**
- **The factory is extended to 30 years of German experience in the production of photovoltaic panels.**
- **Main Products is PV-MODULES**
- **50-60 MW capacity production (yearly)**

<http://wiosun.com>

# EE components manufactures Company



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- **More than 40 company in Jordan**
- **Capital of 20 million USD**
- **Main EE Products :**
  - 1. Solar Heaters**
  - 2. Led lighting**
- **About 10 countries exported**





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## **Experience of creation industrial associations**



# Energy Efficiency Networks in the Industrial Sector

- **Established in 2019 by Jordan Chamber of Industry in the partnership with the German Agency for International Cooperation on energy efficiency in the industrial sector.**
- **The main objective of establishing energy efficiency networks is to support the principle of joint work in energy efficiency within factories, exchange of experiences, knowledge and best practices on the applications of energy efficiency.**
- **Two energy efficiency networks will be established in Jordan's industrial sector (number of members will be 12-15 factories per network) :**
  1. **Sectoral Network:** is an efficient network within the same sub-sector and includes factories from the same sub-sector.
  2. **Regional Network:** a network of factories from different sub-sectors and within a relatively close geographical area.



# Energy Efficiency Networks in the Industrial Sector



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- **During the project activities, the most important information and experiences will be exchanged between the factories, also application of the procedures and the calculation of the savings achieved with a continuous assessment of the reality of the plant based on the savings achieved from the application of various energy efficiency measures.**
- **Three to four annual meetings will be held for each energy efficiency network, during which all steps and procedures of all member factories will be discussed and the results analyzed.**
- **the costs of establishing the network, the costs of the project management staff, the costs of setting up all the regular meetings, and the costs of the consultants hired for some specialized issues will be covered by (GIZ) for the first two years, until the idea is sustained and applied in the industrial sector**



# National Sector Skills Councils (NSSC) ( Energy Sector )



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- **The National Sector Skills Councils (NSSC) is permanent employer body that promotes skills development in a given economic sectors, also a platform of cooperation in which many different types of stakeholder are involved.**
  
- **Members of NSSC :**
  1. **Employer and representatives of employers organizations**
  2. **Line government entities**
  3. **Representatives of workers organization.**
  
- **General Objective:**
  1. **Develop, manage and maintain an effective Labour market intelligence system**
  2. **Matching supply and demand of skills and qualification's in the sector of energy.**
  3. **Advocating for contributing to improvement it TVET sector (including training for energy sector).**
  4. **Monitoring and evaluating the progress and results of training provision.**



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**Amman Chamber of Industry point of  
view to establish Regional association  
for manufacturers of RE&EE  
components**



## Expected Aims & Activities of Creation of Industrial association for Manufacturing of RE&EE Components



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- **Exchange experience about areas of manufacturing between members.**
- **Capacity building for members of association (organizations & companies) in field of manufacturing of RE&EE components.**
- **Promoting the industrial companies to facilitate the access for the international tenders by one consortium around the Southern and Eastern Mediterranean Countries.**
- **Negotiate with governmental entities & decision-maker in each country for improvement of public polices and provide incentive for local manufacturing companies.**
- **Organizing the exhibitions just for manufacturing companies around the Southern and Eastern Mediterranean Countries.**



# Expected Aims & Activities of Creation of Industrial association for Manufacturing of RE&EE Components



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- **Promoting manufacturing integration of RE & EE components between the members association.**
- **Assessment and for caste the last update and trends in the international technologies for Manufacturing of RE&EE Components.**
- **Issuing and publish annual reports, studies and guidelines for the situation of the manufacturers of RE&EE components at the Southern and Eastern Mediterranean region.**



# Suggested Structure of the Industrial Association



- **Hosted member for each country in the first phase for creation of the industrial association.**
- **Extension the membership of association to include the industrial companies (after data collection from hosted member and analyzed it).**
- **Design the yearly plan of association including (training, promoting ,organizing exhibition) for industrial companies and entities.**
- **The costs of establishing the association suggested to finance by donors for the first two years, until the idea is sustained and may be to finance from the Member subscriptions and fees.**



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***Thank You All ...***