IAOS/Abu Dhabi

Energy Data to Develop the Energy Sector
Case Study Palestine

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Palestinian Central Bureau of Statistics

Introduction

• Palestine imports most of its energy needs
• Palestine Produces some renewable energy Types
• Palestine has proven reserves of natural gas in Gaza Strip discovered in 2000 and still not utilized due to the political situation
• Palestine also has some oil and gas reserves in the West Bank where these reserves utilized by Israel
The Governmental agencies responsible for Energy Sector

- Energy Authority
- Petroleum Corporation
- Ministry of Finance
PCBS/Energy Outputs

- Energy Balance
- Report of Household & Transport Survey
- Detailed Energy Tables
Energy Available by Source

- Imported: 84%
- Produced: 14%
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Energy Imports/Electricity

- Palestine imported around 90% of its needs in 2014
- 95% of the imports are from Israel, the rest from Egypt and Jordan
- There is only one small electricity plant and located in Gaza Strip
Energy Imports/Oil Products

- No Refinery
- Diesel, gasoline & LPG are imported From Israel
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Renewable Energy/Biomass

34% of households use Biomass

Olive cake Industry
Renewable Energy/Solar

57% of households use solar heaters

1.5% of the total installed capacity from photovoltaic
Solar thermal/Solar Heaters

Percentage of Households that use Solar Water Heaters, 2001-2015

Year: 2001 - 2015
Percentage: 72.5% to 56.5%
Percentage of Households that have Solar Water Heaters, 2015

- Cyprus: 90%
- Palestine: 57%
- Jordan: 15%
Jordan vs Palestine/Solar

- **Solar Heaters**
  - **Palestine**: Approximately 58% (high bar)
  - **Jordan**: Approximately 12% (medium bar)

- **Photovoltaic**
  - **Palestine**: Approximately 2% (low bar)
  - **Jordan**: Approximately 3% (low bar)
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Energy Consumption

Percentage of Energy Consumption by Sector, 2014

- Transport: 49%
- Household: 38%
- Commerce & public services Sector: 8%
- Industry: 4%
- Agriculture: 1%
7.1.1 Access to Electricity

✓ 99% of the Palestinian households are connected to electricity network

✓ In Gaza Strip 81% of households have less than 8 hours of electricity service

✓ Palestinians pay 0.16 US Dollars/KWh which is very high compared to neighboring countries
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SDGs-Goal 7

7.1.2 Reliance on Clean Fuels and Technology

29% of households used wood as a main energy type for heating.
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SDGs-Goal 7

7.2 Share of renewable energy

Graph showing the share of renewable energy from 2005 to 2014.
7.3 Energy Efficiency

- The Palestinian energy Authority Started an energy auditing program in 2012

- They saved 25 GWh through 230 audits

- This constitutes less than 0.5% of the consumed electricity
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SDGs - Goal 7

7.3 Energy Efficiency

- Transport + Households = 87%

Industry Service = 12%
Palestinian Central Bureau of Statistics

SDGs-Goal 7

7.3 Energy Efficiency
Palestinian Central Bureau of Statistics

SDGs-Goal 7

7.a Investment on modern energy
Recommendations

• Accelerating the restructuring of the energy sector to put all energy types under one authority
• Increase the number of solar heaters by making its installation mandatory
• Adopting clean fuels and technologies for all main household energy use, and by adopting advanced heating facilities and cooking stoves
• Promote and encourage investment in renewable energy
• Implementation of energy auditing for the transport and household sectors
Thank You