



# Regional energy efficiency observatory

## Plenary Session 4: Monitoring Energy Efficiency

Activity Leader : Didier Bosseboeuf - ADEME  
with the collaboration of Hossam Alherafi - RCREEE

# Specific energy efficiency indicators in buildings and appliances New Indicators

Energy efficiency week

Date : 31/12/2022



Funded by the  
European Union



## Involved Countries



Algeria



Egypt



Jordan



Lebanon



Morocco



Palestine



Tunisia



## New commers



Egypt



Jordan



Palestine



## Previous indicators in the Households Sector

### Data

- Number of households;
- Characteristics of dwellings: by type and use; floor space; annual construction
- **Electrical appliances\*: stocks, sales, equipment rate; specific consumption**
- Efficient equipment (lighting, solar water heaters, refrigerators, heat pumps, air conditioners): number, sales (inc. by energy label);
- Energy consumption of households by end-use (space heating, water heating, cooking, electrical appliances, lighting, air conditioning)

\*Electrical appliances :  
Refrigerators  
Washing machines  
TVs  
Microwaves  
Electric water heating  
Air conditioners  
Fans

### Indicator

- Energy/electricity intensity;
- Energy/electricity consumption per dwelling (actual and climate corrected);
- Energy consumption per dwelling by end-use :
- Space heating,
- Space cooling,
- Water heating
- Cooking
- Electrical appliances
- Lighting;
- Equipment rate and heat production of SWH;
- Efficient equipment: lighting (LED and CFL), heat pumps, electrical appliances\*

**Note: For electrical appliances, we ask for sales by energy label (A or better, B) for refrigerators, washing machines and air conditioners.**



# New indicators in the Households Sector

Data

Electrical appliances\*: stock, sales;  
specific consumption.

**\*New Electrical  
Appliance :**

- Freezers
- Dishwashers
- Electric hot and cold-water dispenser

Indicator

- Energy consumption per dwelling by end-use
  - Electrical appliances
  - Lighting;
- Efficient equipment: electrical appliances\*

**Note:** For electrical appliances, we ask for sales by energy label (A or better, B) for Freezers and C for air conditioners.



# New indicators in the Households Sector

Freezers	Dishwashers	Electric hot and cold-water dispenser	A/C
Number of dwellings with freezers	Number of dwellings with dishwashers	Number of dwellings with electric hot and cold-water dispenser	
% of dwellings with freezers	% of dwellings with dishwashers	% of dwellings with electric hot and cold-water dispenser	
% of households with at least one freezers	% of households with at least one dishwashers	% of households with at least one electric hot and cold-water dispenser	
Annual sales of freezers	Annual sales of dishwashers	Annual sales of electric hot and cold-water dispenser	
% of new freezer in label class A (or most efficient label) % of new freezer in label class B (or most efficient label)			% of new AC in label class C (or second most efficient label)
Specific consumption of freezers	Specific consumption of dishwashers	Specific consumption of electric hot and cold-water dispenser	
Specific consumption of new freezers	Specific consumption of new dishwashers	Specific consumption of new electric hot and cold-water dispenser	



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