IKI Project Accelerating 0-emission building sector ambitions in the MENA region

REGIONAL WORKSHOP

Wednesday 04 – Thursday 05 July 2018, Mövenpick Hotel, Beirut

Session : NDC and National Strategy Integration

Regional status of NDCs

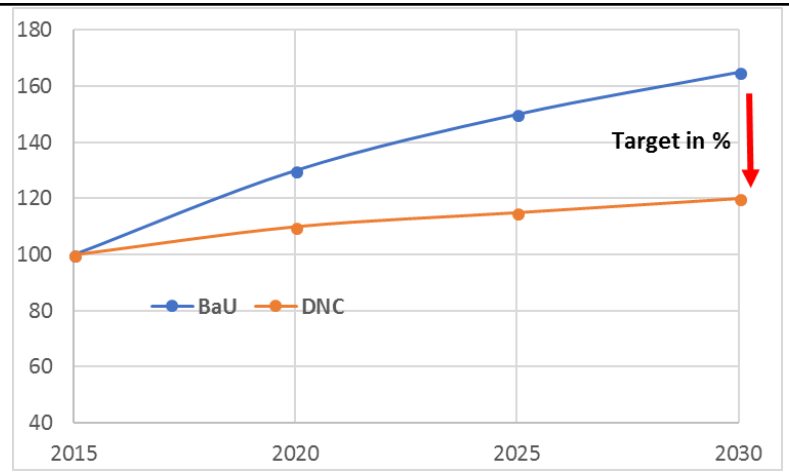
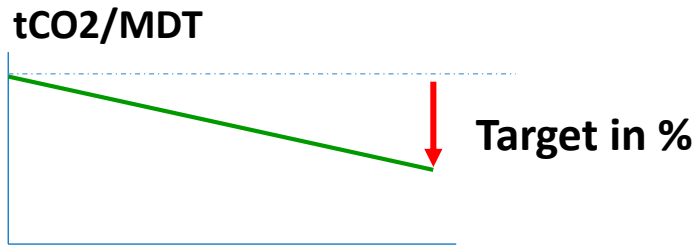
Dr. Rafik Missaoui, Alcor

Content

- **Benchmark of NDCs targets in the region**
- **Role of energy sector and building in NDCs targets**
- **Some exemplary initiatives in the region**
- **Some conclusions**

Benchmark of NDCs targets in the region

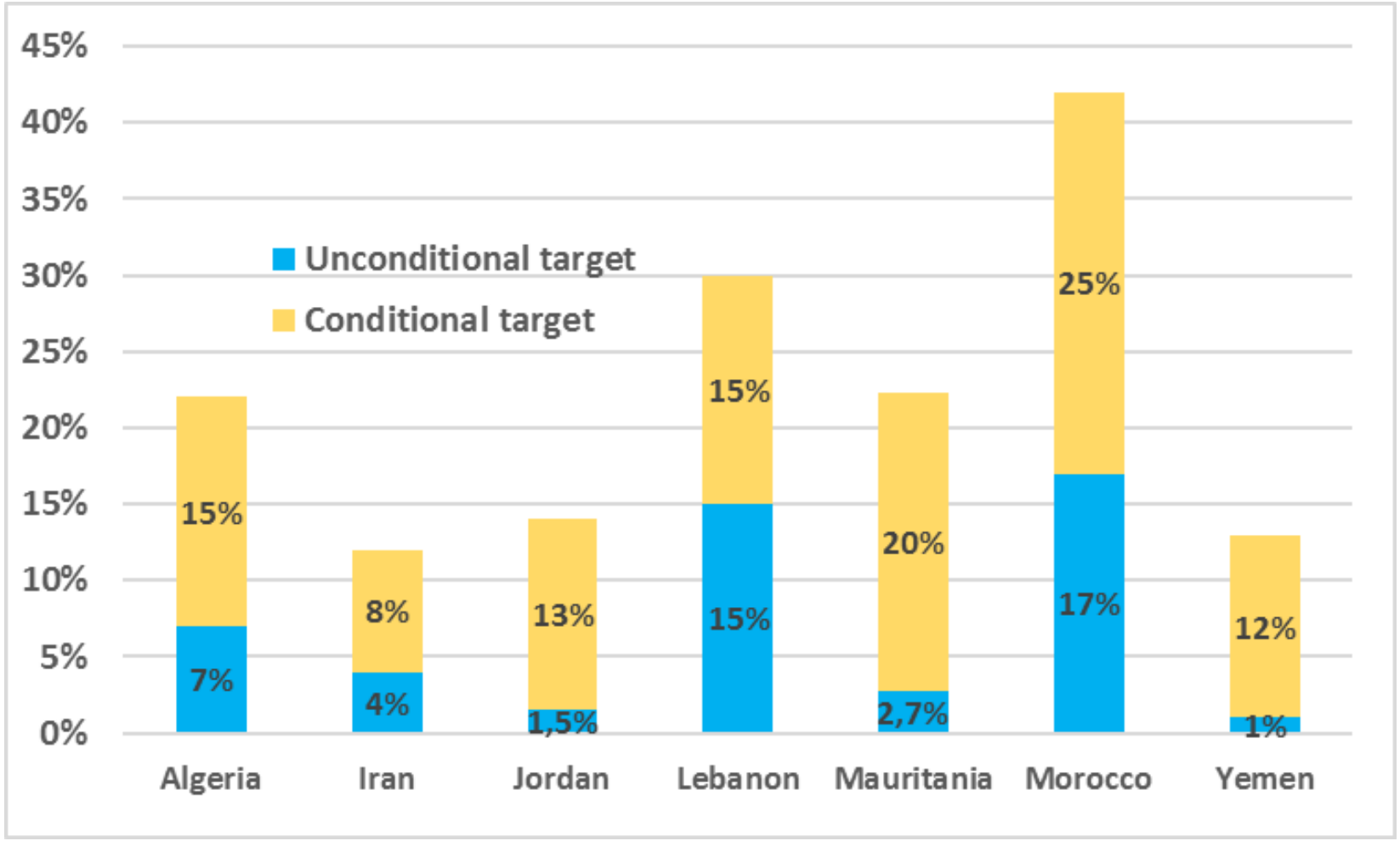
Type of targets in the region

Countries	Type of objectives	Illustrations
Algeria **Morocco** **Mauritania** **Jordan** **Lebanon** **Yemen** **Iran**	% of reduction of GHG emission compared to BaU in 2030	
Tunisia	% of decrease of carbon intensity compared to 2010	
Bahrain / Kuwait **Oman / Qatar,** **Saudi Arabia / UAE** **Sudan / Iraq**	Qualitative objectives	Sectoral measures Vision

Benchmark of NDCs targets in the region

Some targets in the region

NDC targets in 2030 expressed in GHG emission reduction compared to BaU scenario

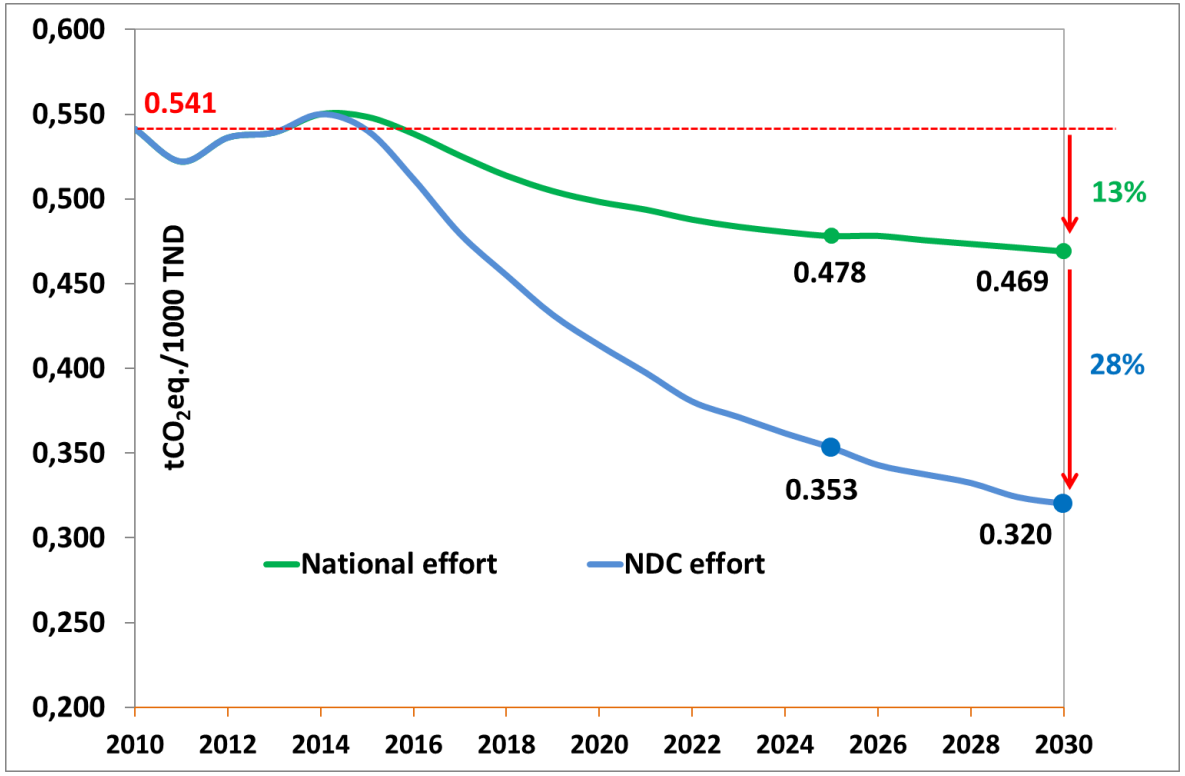


- Conditional objectives are higher than unconditional ones
- The objective of some countries are highly ambitious
- The real emissions reductions will depend from **the BaU and from the economic scenario**

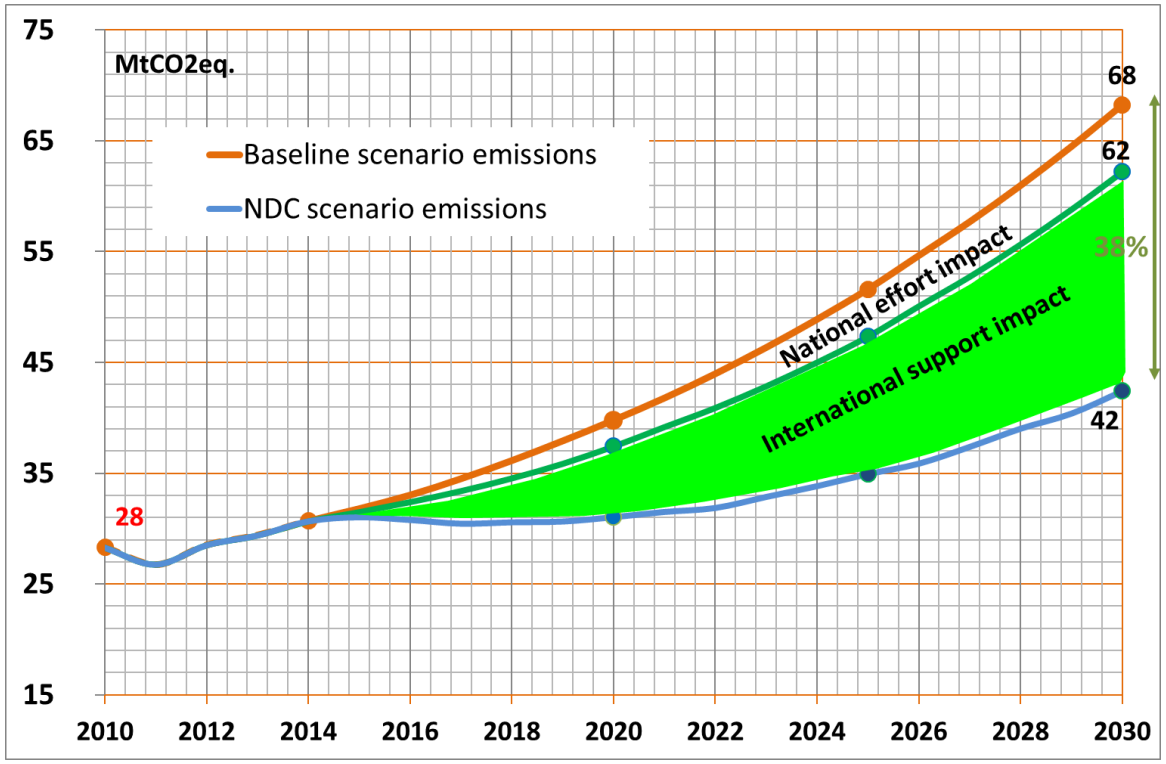
Benchmark of NDCs targets in the region

Target in Tunisia

NDC targets in 2030 of Tunisia expressed in carbon intensity reduction



Equivalent target in emission reduction compared to BaU in 2030



Role of energy sector and buildings in NDCs targets

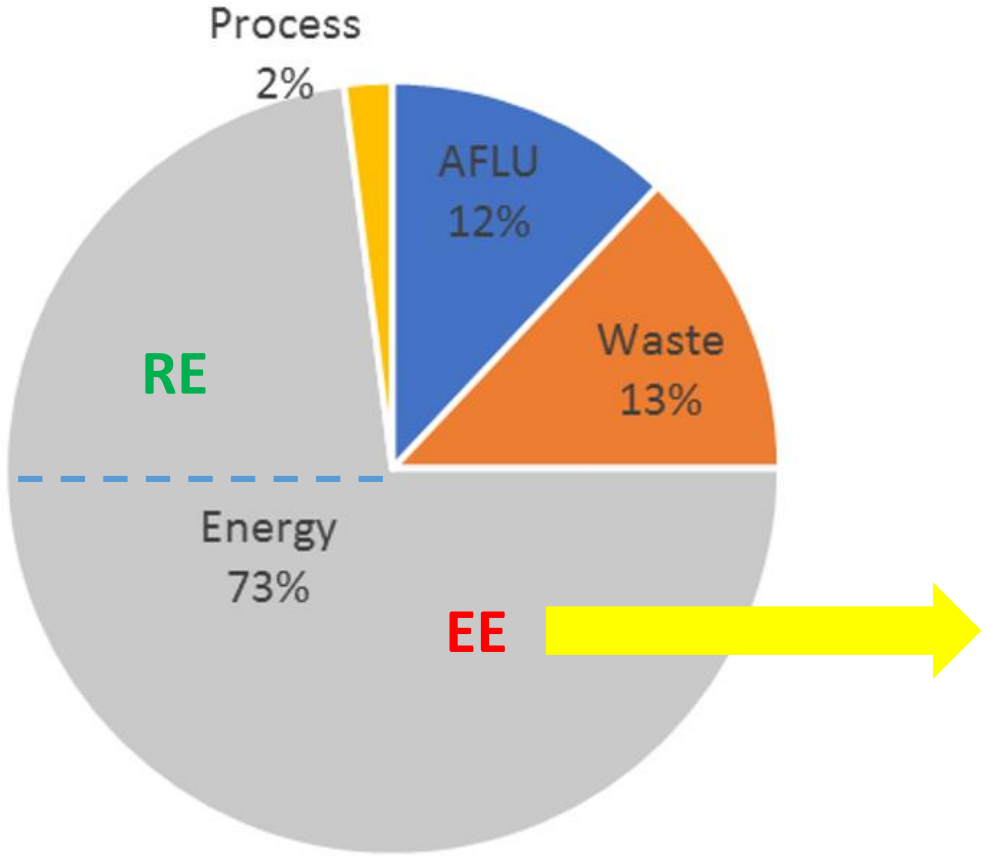
Building is part of mitigation measures of all countries

	Main sectors covered by mitigation in Energy	Main mitigation measures in Building sector
Algéria	Generation – transport – **building** – industry – oil and gas	Generalization of efficient lighting Thermal insulation (21-30)
Morocco	Generation – **building** – transport – industry	Building code – solar water heater – lighting – EE appliances
Tunisia	Generation – transport – industry – **building**	Solar water heater – EE appliances – thermal insulation in existing building – EE lighting
Lebanon	Generation – transport – industry – **building**	Solar water heater – EE aplliances – lighting – building code
Egypt	Generation – oil and gas – industry – transport – agriculture – **building**	Solar water heater Energy efficiency
Jordan	Generation – industry – **building** – water pumping - transport	Solar water heater Building Green code Solar cooling – lighting – EE appliances

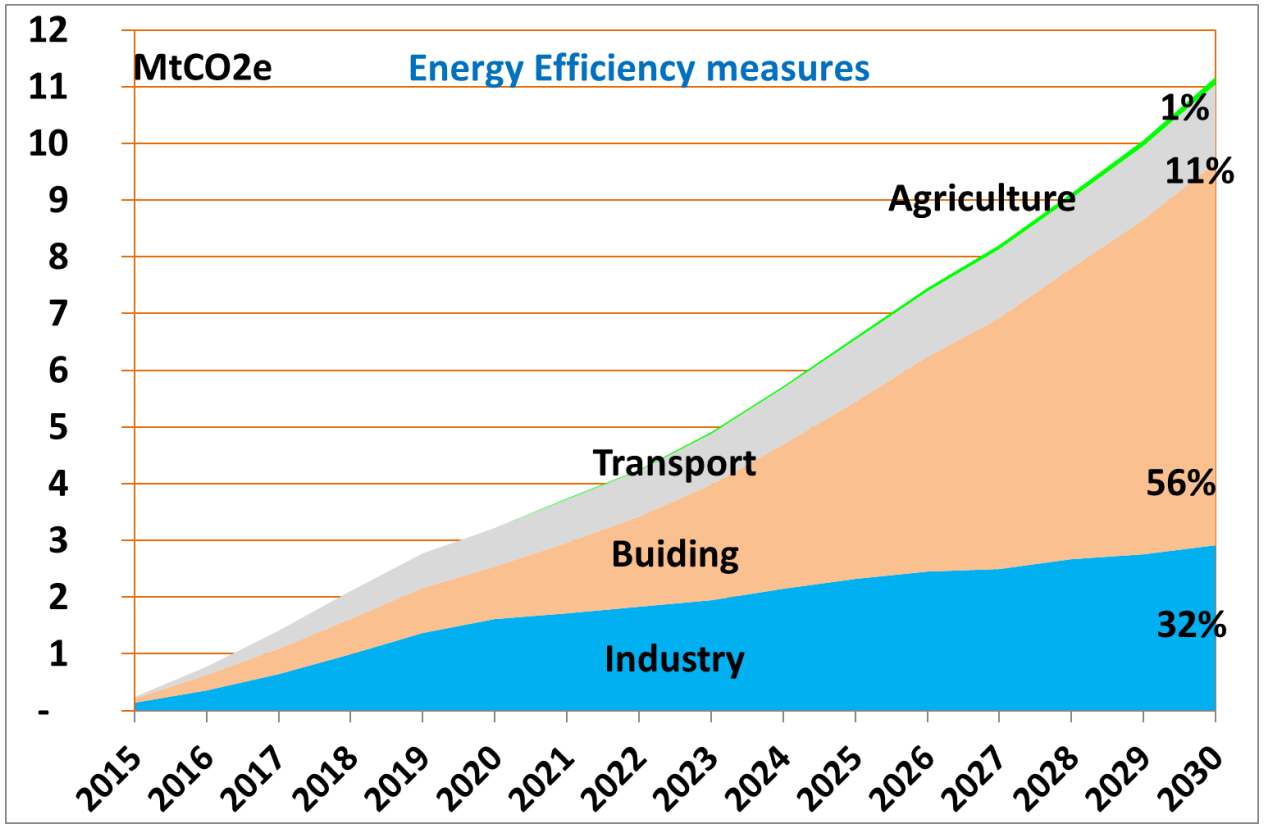
Role of energy sector and buildings in NDCs targets

Case of Tunisia

Mitigation mix

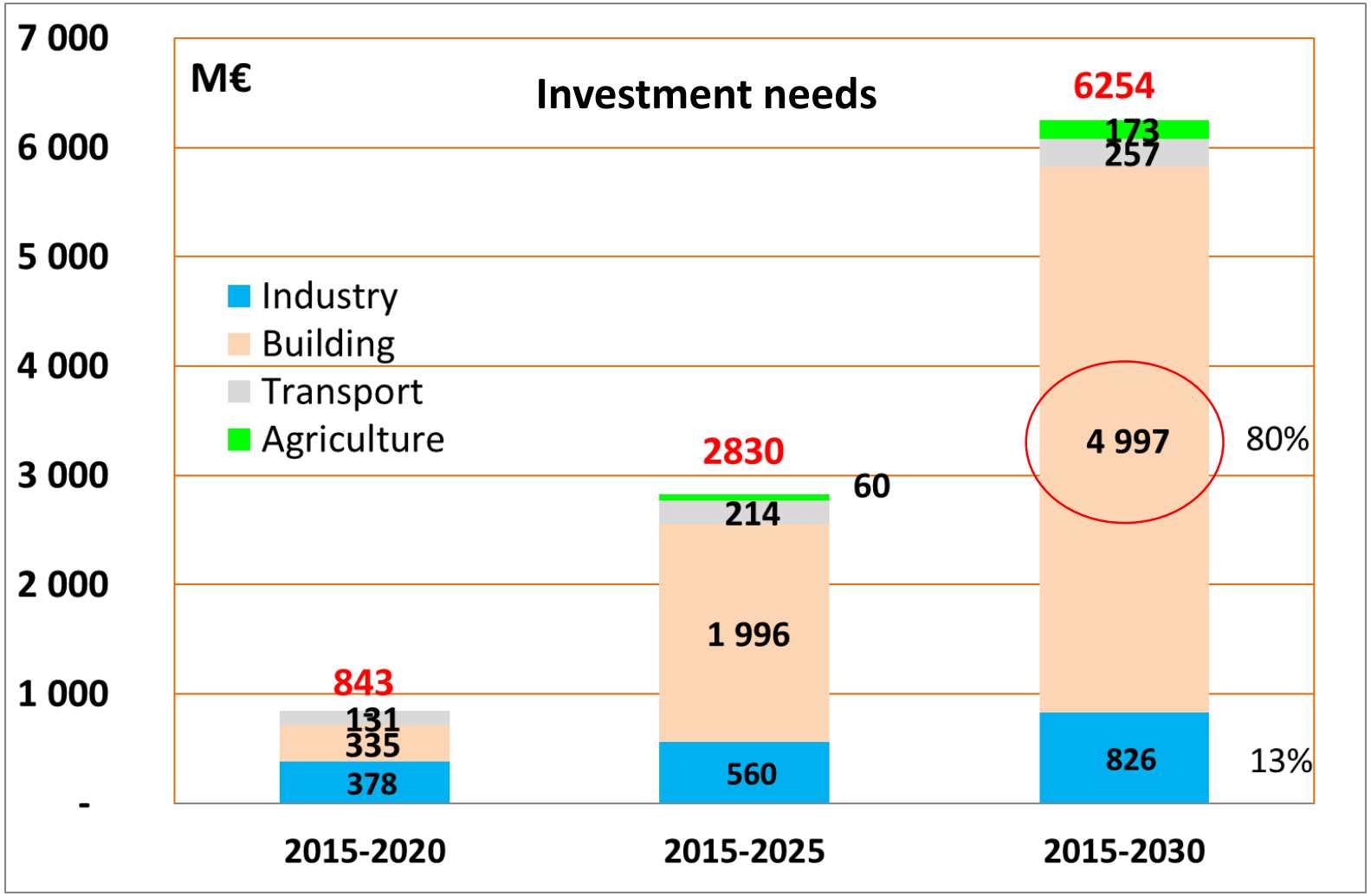


Mitigation mix in energy sector



Role of energy sector and building in NDCs targets

Case of Tunisia



Some exemplary initiatives in the region

Countries	Initiatives and programs
Tunisia	Prosol for SWH Prosol Elec for rooftop PV Promo-Isol for rooftop insulation
Jordan	SWH and PV rooftop with JREEEF Financing
Lebanon	NEEREA for EE and RE in building and industry
Morocco	Green platform to create capacities (FORMABAT, etc.) Promasol for SWH

Some conclusions

1. Energy efficiency in building is a large mitigation potential in the region
    - Main energy consumer sector
    - Demand is increasing very fast particularly electricity
    - Large stock of low efficient building
2. Building is at the heart of the energy transition process
    - Energy efficiency
    - End user RE (SWH, rooftop PV, etc.)
3. High potential co-benefits
    - Investment optimization in power sector
    - Energy independence
    - Economic growth
    - Job creation
    - Energy poverty fighting

Some conclusions

4. Target also existing building
    - High potential
    - Thermal insulation
    - Accelerate appliances stock renewal
5. Need for innovative financial mechanisms
    - Coupling smart subsidy and loans based on win-win situation
    - Concessional Financial resources
    - Quality control
    - **Support to supply side including capacity building**
4. Climate financing can help
    - Green Climate Fund
    - Carbon Market Mechanisms

Thanks

Rafik Missaoui

r.missaoui@alcor.com.tn