

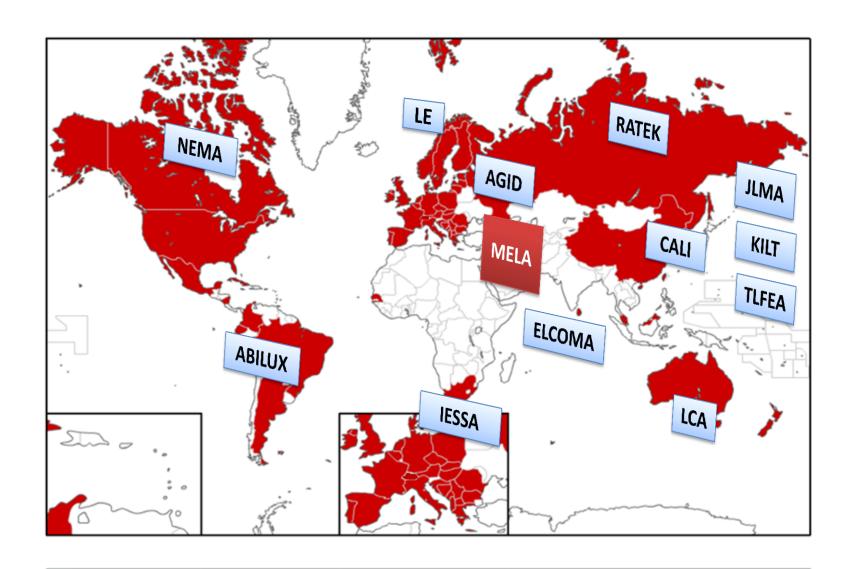
Content for this presentation has been kindly provided by the Middle east Lighting Association & the UNEP en.lighten program – May 2015

# **CONTENTS**

- 1. MELA intro & policy objectives
- 2. Global lighting policy approach
- Regional lighting policy developments to date

to date

# WHY MELA?



# WHO?























- Set up as an international non profit association in 2014
  - ✓ Producers of light sources, luminaires & lighting control gear
  - ✓ Code of Conduct
- Supply major share of lighting products on the Middle East market today
- Scope
  - ✓ Initial scope UAE and KSA
  - ✓ Now including Qatar, Bahrain, Jordan & Egypt.

## WHAT?

# Mission

'To support key regional stakeholders to move towards a **sustainable lighting future** for the benefit of each segment of the community, through effective implementation of efficient lighting policy.'

# MELA GENERAL CODE OF BUSINESS CONDUCT

- Under no circumstances should members exchange information on any competitive parameter.
- 2. Information to be exchanged shall be limited to the implementation of the policies of MELA.
- Any sensitive information shall be provided if necessary only to an independent third party.
- Every meeting between MELA members shall have a specific demonstrable purpose
- Any other kind of contact between MELA members shall be for legitimate purposes only

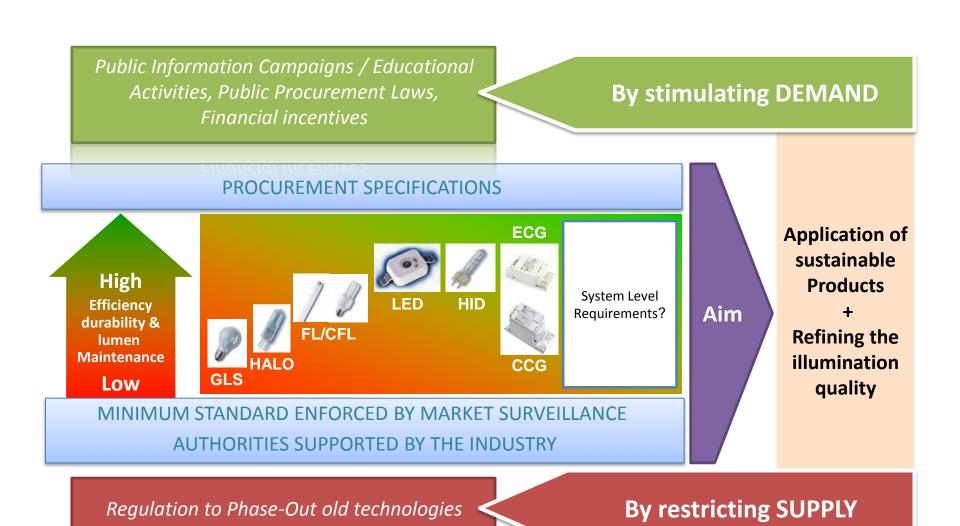
Any violation shall be seen as a serious breach and shall be severely sanctioned.

# **FOCUS AREAS**

- Standardisation
  - IEC International Standards into local law (safety & performance)
  - ISO or EN standards for systems
- Mandatory Minimum Requirements
  - Energy Performance & Quality
- Market Surveillance
- E-Waste Collection & Recycling
- Materials, Health & Safety
- Smart lighting



# MELA APPROACH TO REGULATION

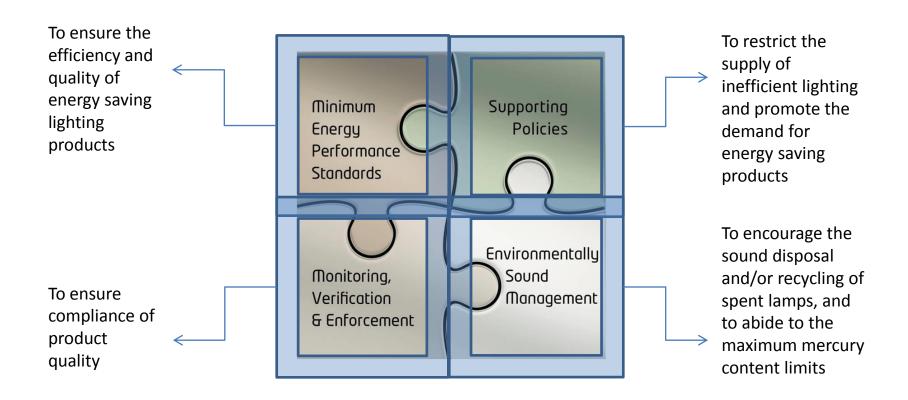


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# OVERVIEW OF THE INTEGRATED POLICY APPROACH

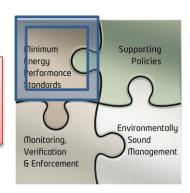






## WHAT ARE MEPS?

✓ Regulatory measures specifying minimum efficiency levels acceptable for products.



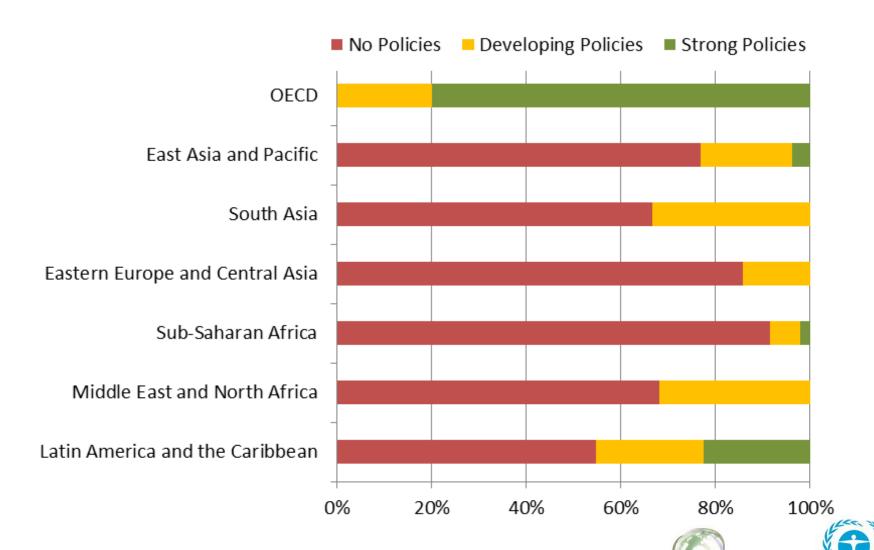
#### Why should countries establish MEPS?

- Ensures availability of high performance and good quality products
- Encourages manufacturers to increase efficiency of existing products, or, replace less efficient products with new models

#### How to establish MEPS?

- Consultation with manufacturing and sales stakeholders
- Cost/benefit analyses to ensure positive economic outcomes
- Ongoing monitoring, control, testing and enforcement of full compliance
- MEPS success is enhanced by aligning country standards with regional trading partners

### MINIMUM ENERGY PERFORMANCE STANDARDS



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# WHAT ARE SUPPORTING POLICIES? (MEPS+)

- ✓ Regulatory & control mechanisms
- ✓ Economic & market-based instruments
- ✓ Fiscal instruments & incentives
- ✓ Information & voluntary action



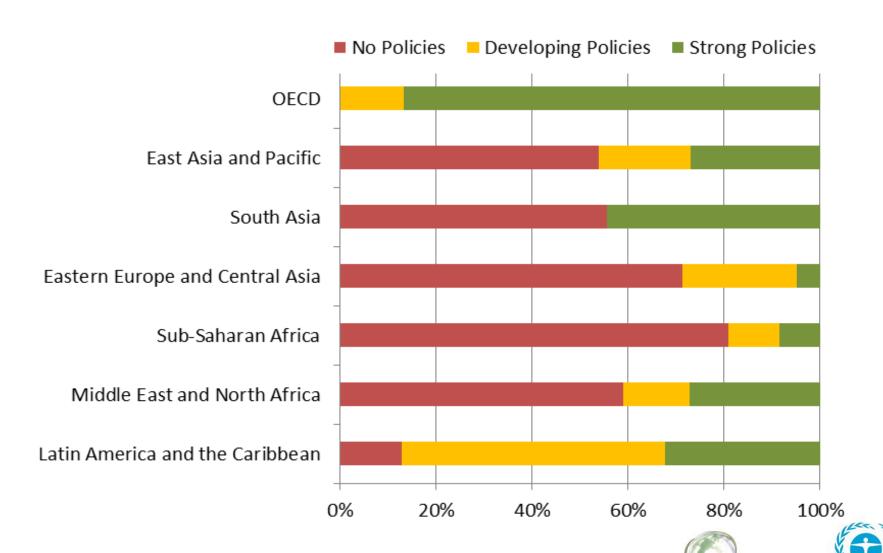
#### Why should countries establish supporting policies?

Ensure the effectiveness and smooth implementation of MEPS

#### How to establish supporting policies?

- Consultation with all relevant stakeholders according to type of policy.
- Conduct cost/benefit analyses
- Must be supported by ministries of finance or economy
- Involve end-users from the beginning: education and communication campaigns

### **SUPPORTING POLICIES**



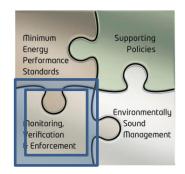
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# NATIONAL INITIATIVES TOWARDS TRANSITION TO EFFICIENT LIGHTING IN ME REGION

Country	Government Commitment USD (m)	Number of CFL's replaced (m)	Target date for IL phase out
Bahrain	NA	2	2015/2016
Egypt	18	17	2020
Lebanon	7	3	2012
Iran	NA	65	NA
Jordan	NA	NA	2014/2019
Turkey	NA	6.6	NA
Morocco	46.5	6	2016
UAE	NA	1	2014
Tunisia	NA	8	2014
Qatar	NA	NA	2015/2016
Total		108.6	

## WHAT IS MVE?

- ✓ Monitoring measurement to verify product efficiency
- ✓ Verification measurement to confirm declarations of conformance by lighting suppliers
- ✓ **Enforcement -** actions taken by programme administrators against suppliers of non-compliant products



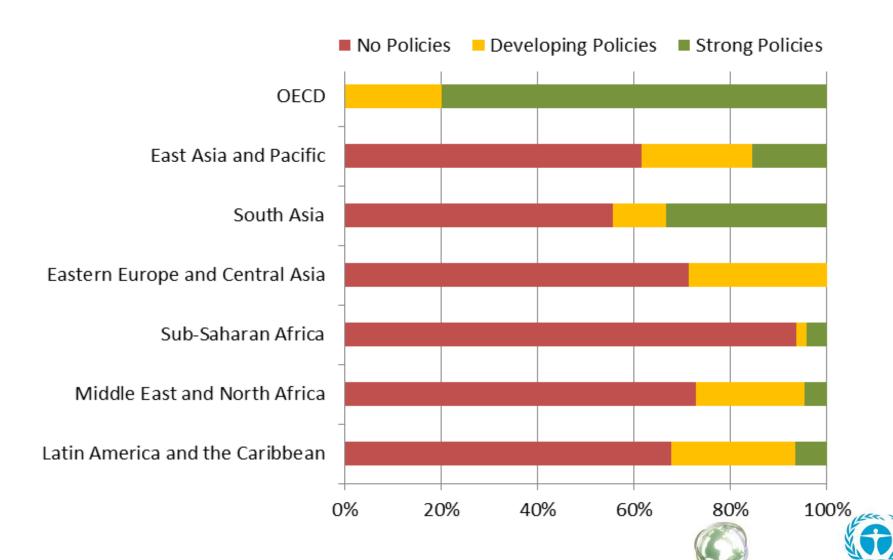
#### Why should countries establish MVE?

- Prevent substandard products from entering the market & prevent endusers disappointment
- Guarantee the reduction of energy and financial savings from the transition to efficient products

#### How to establish MVE?

- International and regional cooperation: sharing of test capacities, programmes and test data
- Develop regulations to enable enforcement actions

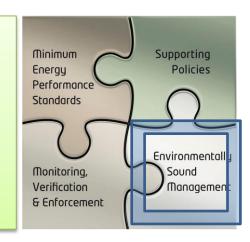
# MONITORING, VERIFICATION AND ENFORCEMENT



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## WHAT IS ESM?

- ✓ Environmental sustainability legislation: extended producer responsibility
- ✓ Reduction of mercury levels in lamps (Minamata convention on Hg)
- ✓ Collection, recycling, and disposal of waste from products at endof-life: (Basel Convention on the Control of Transboundary Movement of Hazardous Wastes and their Disposal)



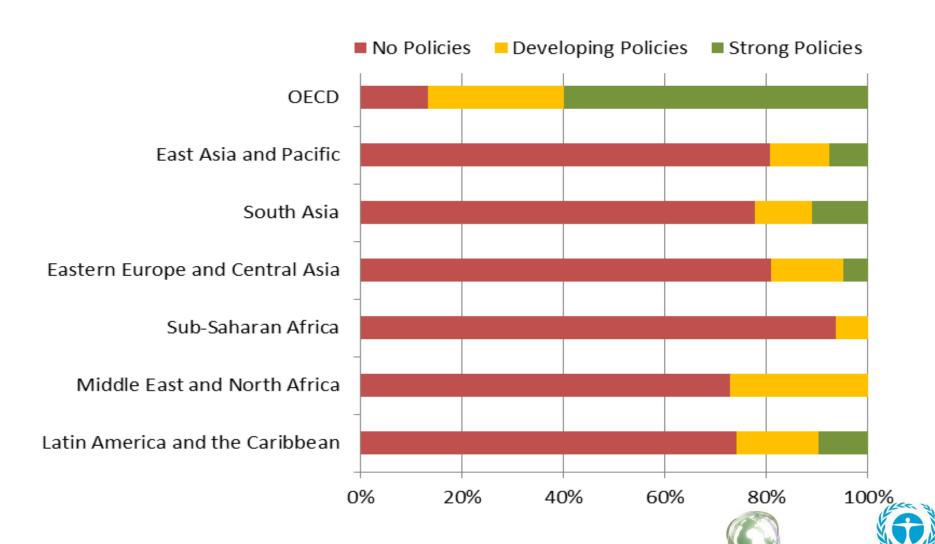
#### Why should countries establish ESM?

- Minimize health and safety risks (Hg, ODS, PCBs, etc.)
- Decrease pollution of natural resources (water, air, soil)

#### How to establish ESM?

- Develop a legal framework for environmentally sound management of electronic and hazardous waste
- Establish collection and recycling services organizations (collection channels and recycling facilities)
- Involve end-users from the beginning: education and communication campaigns

### **ENVIRONMENTALLY SOUND MANAGEMENT**



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# For further discussion

- CFLs and LEDs are responsible for lower global mercury and greenhouse gas emissions than incandescent lamps
  - ✓ Widespread adoption necessitates sound management at all lifecycle stages
  - ✓ Compliant, high-quality lamps are essential
- Policymakers should consider international best practice for guidance
- Recycling is manageable, affordable and can create new jobs
- Extended producer responsibility can be effective
- Basel Guidelines on hazardous waste management will help eliminate emissions
- Success requires legislative frameworks, sustainable funding, communication and awareness

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# TYPICAL DISTRIBUTION OF LAMP TECHNOLOGIES



(UAE RESIDENTIAL SECTOR 2013)

Lamp Technology	% of total				
	UAE	EU 2007	US 2010		
Incandescent	50.1	54.1	62		
Halo	7.8	23.7	4.4		
CFL	21.8	14.7	22.8		
LF	20.1	7.5	9.9		
LED	0.2	0	0.9		
Total	100	100	100		
Source: Baseline assessment RTI/UAE					

Source: Baseline asses	sment RTI/UAE	
Total		

# UAE RESIDENTIAL LIGHTING SCOPE



- Incandescent lamps ≥ 16W (watts)
- Linear fluorescent lamps (excluding energy efficiency and functionality requirements i.e. just safety is covered)
- Compact fluorescent lamps (CFLs)
- Halogen lamps
- Light emitting diode (LED) lamps
- Control gears for general lighting purposes
- Luminaires for general lighting purposes (i.e. only Electrical Safety Requirements apply)

# **POLICY STATUS - UAE**



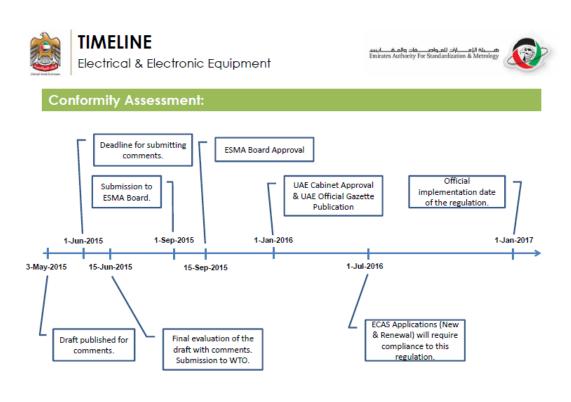
- Sales ban on inefficient incandescent lamps came into effect on 1 July 2014
- Formally entered into force as of the 1<sup>st</sup> January 2015.
- Initiative of (ESMA) is expected to save the country \$182 million a year on energy bills and the equivalent of 165,000 cars in carbon emissions.
- Other light sources and control gear for fluorescent lamps have been included in the regulation.
  - Now MELA has recently been invited to discuss policy initiatives aimed at regulating commercial lighting in 2015.
  - Ongoing issues with lack of market surveillance.

# HAZARDOUS SUBSTANCES IN EE



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- Most EU RoHS
   exemptions have
   been copied, but
   exclude those for
   mercury in low
   pressure discharge
   lamps.
- Text in the RoHS
   regulation needs
   to be aligned with
   the UAE
   Residential
   Lighting
   Regulation.



EESL - 5010-1:2014 & 5010-5:2014

# **POLICY STATUS - BAHRAIN**



- Exchange of views with BSMD regarding the draft regulation on Requirements for non-directional household lamps in the Kingdom of Bahrain.
  - Base is EU lighting regulations
  - LED functionality from EU 1194
  - Amendment of EC/244/2009 which is 859/2009 on UV requirements
  - Clear and frosted INCANDESCENT lamps will be phased out in single stage
- Special purpose marking requirements
- Now An exclusive requirement for amalgam dosed lamps –
   MELA position deployed

# **POLICY STATUS - JORDAN**



- Technical Regulations on Ecodesign and Energy Labelling of Electrical Products, Resolution No. 1, 2014.
  - On-going issue with the 3rd party/ISO17025 test reports requested for safety and performance.
- The status of the implementing stages of the regulations is as follows:
  - Jordanian technical regulation # <u>2093/2013</u> transposed from EU directive 245/2009
    - Stage 1 date of entry into force 1<sup>st</sup> July 2014
    - Stage 2 date of entry into force 1<sup>st</sup> April 2015.
- Now With Eco Design implementation there appears to be some confusion. Local customs claim that Eco Design requirements are mandatory.
- Energy efficiency label to be printed on all lighting products (the label to be printed is currently the old EU label (A to G) but new EU label (A++ to E) is accepted.

# **POLICY STATUS - QATAR**



- Recent report that the Ministry of Environment considering import of the tungsten lamps into the country and replacing them with energy saving LED lamps.
  - Ministry's Assistant Under Secretary of the Laboratories and Standardisation Affairs Mohamed Saif al-Kuwari quoted as saying '....the decision to ban tungsten lamps is being made as they are found to be at least 30% more energy consuming and studies have found the lamps are making enormous amounts of thermal emissions which contribute to harm the environment.'
- The ministry has completed the procedures for adopting Qatar standards and specifications for the modern lighting systems that would help conserve the environment and save energy.
- Implemented within the framework of the implementation of the standards of sustainability and new Qatar construction code.

# **POLICY STATUS - EGYPT**



- Ministerial Decree no. 975/2014
   mandates Egyptian Standard ES
   7823/2014 "Energy Efficiency
   Requirements for Electrical Lamps"
- ES7823/2014 establishes
   requirements for labelling and
   providing supplementary product
   information and energy efficiency
   requirements for electrical lamps
   such as:
  - Filament lamps, fluorescent lamps, compact fluorescent lamps, high-intensity discharge lamps & LEDs.
  - Entry into force July 2015

- Excluded from the scope (lamps with a luminous flux less than 30 lumens; lamps marketed for operation with batteries; lamps marketed for applications where their primary purpose is not lighting).
- Standard is allegedly in conformity with European directive (EU) No. 1194/2012, (EU) No. 874/2012 (however major discrepancies have been found & are being addressed).

## **MELA SUPPORT TO REGULATOR & MEMBERS**

- Responded to the call for increased expertise in lighting policy in the ME region.
- 2. Part of a large global network (best practice).
- 3. Support to:
  - Regulatory authorities drafting residential & professional lighting regulations to stimulate demand & restrict supply.
  - ✓ Member companies in discussions with regulators.
- 4. Provide technical & policy based expertise & data.
- 5. Support market surveillance initiatives where necessary to improve product quality.
- 6. ....more to come

