

Launch of the FM Energy Accreditation Scheme

In support of the DSCE's efficient cooling programme



Zoom Best Practice:

- Please mute yourself when you are not speaking.**
- If you have a question or comment, please "raise your hand".**
- You can also raise any questions, comment, or chat with fellow participants in the chat box.**

The Zoom meeting control bar at the bottom of the screen, showing icons for Unmute, Start Video, Participants (2), Chat, Share Screen, Record, Reactions, and a red Leave button.

The Zoom chat and interaction controls, including icons for Raise Hand, yes, no, go slower, go faster, more, Invite, Unmute Me, and Reclaim Host.

An overview of today's agenda

Introduction, Graeme Sims, RSB Executive Director

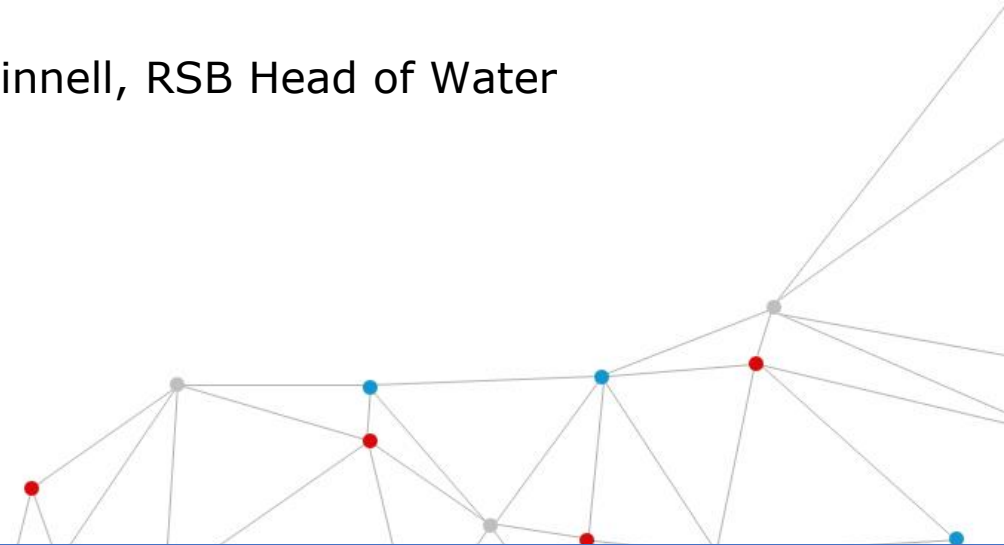
Keynote address by H.E. Ahmad Al Muhairbi – SCE Secretary General

Welcome note by H.E. Ali bin Abdullah Al Owais, RSB Chairman

The role of the scheme in the DSM plan, Graeme Sims

Accreditation scheme criteria and administration, James Grinnell, RSB Head of Water

Q&A and Close, Graeme Sims and James Grinnell



About the RSB

- ◆ Established by Executive Council Resolution in 2010
- ◆ Responsible for regulating the Emirate's electricity and water sector supported by 2011 Law which established a framework for IWPPs
- ◆ A new Executive Council Resolution gives us powers in relation to Dubai's district cooling sector
- ◆ Supports Dubai's demand side management strategy through accreditation of
 - ESCOs
 - Energy Auditor

The revised house of DSM



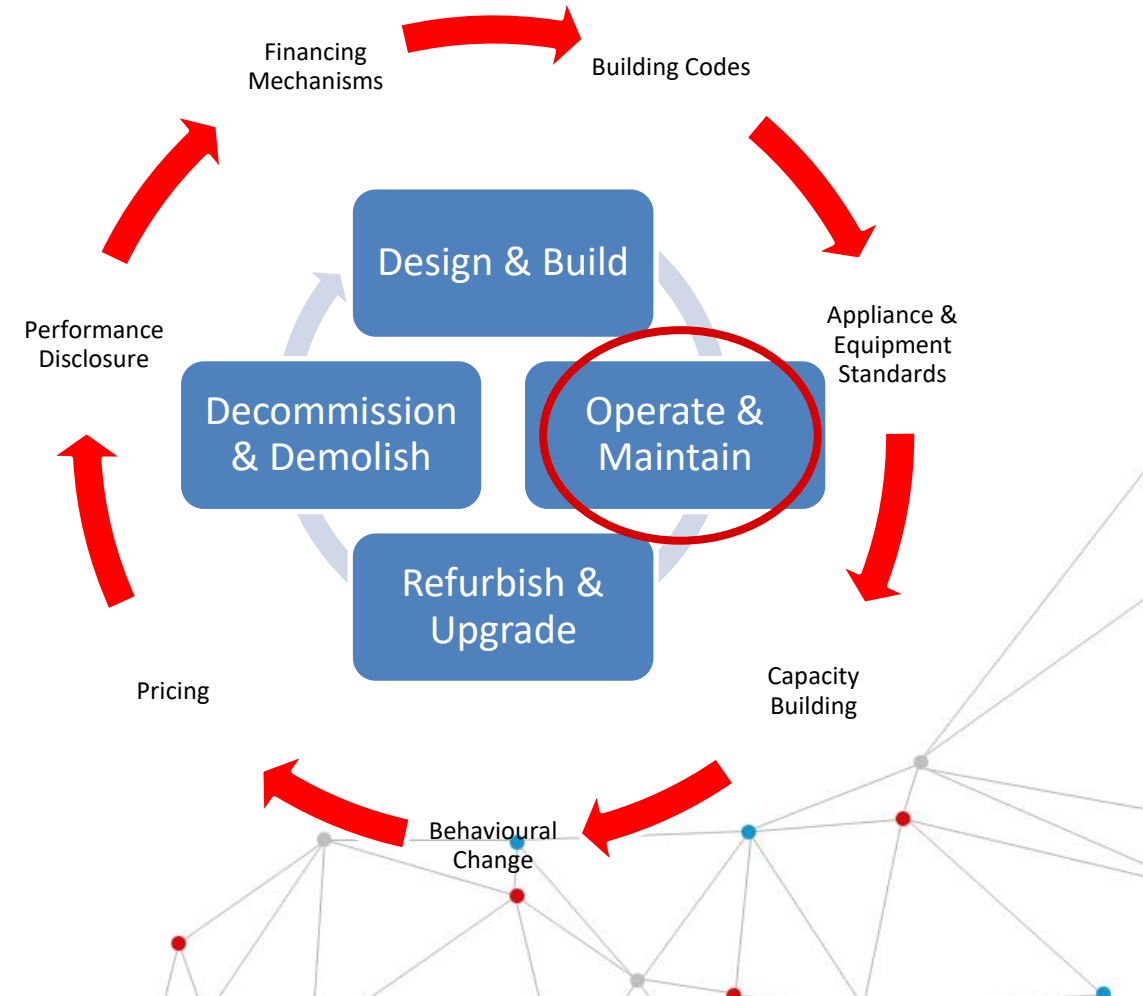
Dubai will become a leader
in efficient management of electricity & water demand
in collaboration with its citizens and businesses, to achieve or exceed a 30% savings target by 2030

Dubai as a leader
in clean, efficient vehicles

	Buildings & Infrastructure				Equipment, Devices & Processes			Tariffs	Water Resource Management	Efficient Vehicles	
	P1: Green Building Regulations	P2: Building Retrofits	P3: Outdoor Lighting	P4: Efficient Cooling	P5: ESMA Standards & Labels	P6: Consumer Behaviour	P7: Shams Dubai	P8: Tariffs	P9: Recycled and Ground Water Demand Management	P10: Efficient Mobility and Smart Charging	P11: Fuel & Engine Efficiency
PROGRAMS	1.1 DGBR (Existing and Update) 1.2 Preparation of Net Zero Emission/ Energy Buildings (NZEB)	2.1 Building Retrofits 2.2 Improvement in Energy and Water Performance	3.1 Outdoor Lighting (LED Retrofits) 3.2 Outdoor Lighting (New Developments)	4.1 Coordinated Urban Planning for District Cooling 4.2 DC Retrofits 4.3 Facility Management	5.1 Update Existing Standards (incl. A/C, motors, pumps, washing machines, A/V) 5.2 New Standards & Implementation (inc. Industrial) 5.3 Outdoor Lighting Std.	6.1 Consumer Behaviour Analytics (incl. consumer counselling) 6.2 Installation of Smart Devices & Appliances	7.1 Distributed Solar 7.2 Building Integrated PV (BIPV)	8.1 Change of Electricity and Water Tariffs	9.1 Use of Recycled Water in District Cooling 9.2 Optimization of Recycled Water Network and Transition to Smart Water Network 9.3 Efficient Irrigation Practices 9.4 Water Saving Practices	10.1 EV/Hybrids Promotion Initiatives 10.2 EV Charging Point Network Initiatives	11.1 Monitoring and Reduction of Fossil Fuel Consumption 11.2 Upgrade Fuel Standards and Engine Specifications
Supporting Champions	بلدية دبي Dubai Municipality	البنادق Dubai Municipality	RTA DfZC Dubai Roads & Transport Authority	RSB FOR ELECTRICITY & WATER	البنادق Dubai Municipality	ديوا Dewa	ديوا Dewa	ديوا Dewa	بلدية دبي Dubai Municipality	ديوا Dewa	RTA Dubai Roads & Transport Authority
Saving Support/Champion	3.1 TWh 16% 14.2 BIG 31%	1.4 TWh 7% 4.9 BIG 10%	0.2 TWh 1% -	2.6 TWh 13% -	7.9 TWh 41% 6.4 BIG 14%	1.1 TWh 6% 1.8 BIG 4%	0.9 TWh 5% -	2.2 TWh 11% 9.6 BIG 21%	- 9.4 BIG 20%	-	-

What's the problem with energy management in buildings?

- ◆ Building design requirements set high expectations for energy management. But.....
- ◆ If not properly installed, commissioned, operated and maintained, high performing equipment can quickly fall into disrepair.
- ◆ Indoor air quality and energy efficiency deteriorate, driving up the whole life cost of the building and worsening the experience and health of occupants.
- ◆ **This affects a building's single largest cost item – Land Dept data shows energy and water costs are typically at least 50% of total service charges.**



Our new accreditation scheme is designed to support and encourage improved energy management in buildings.

- ◆ By accrediting those that manage the daily operation of buildings we expect to raise standards
- ◆ Higher standards of energy management can play a key role in:
 - Meeting the government's DSM targets
 - Reducing costs of for building owners
 - Reducing the cost of living in Dubai by reducing service charges.
- ◆ We aim to accredit commercial and in-house facility management entities to recognise their ability to manage energy consumption in buildings efficiently.
- ◆ In granting accreditation and promoting the scheme we expect to raise awareness amongst building owners of the benefits of using accredited companies for their FM needs.
- ◆ We expect, over time this will encourage more building owners to:
 - Exclusively use accredited firms
 - Incentivise energy performance in contracts

The FM Energy Management Accreditation Scheme consists of the following elements

- ◆ Appropriate licensing from DED & organizational structure
- ◆ Health & Safety
 - Policy, manual and evidence of the manual being applied through health and safety performance reports.
- ◆ Energy management
 - We would like to use ISO50001 as a qualification criterion but to keep pace with the market this will not be a requirement at the launch of the scheme. Instead, we will look for components such as:
 - Energy policy and Energy planning
 - Monitoring, measurement and analysis
 - Non-conformance and corrective actions
 - Use of standard operating procedures
- ◆ Staff qualifications and training
 - Both relevant professional qualifications and in-house training. E.g. CEM/CMVP
 - An appropriate number of qualified staff for the portfolio of buildings managed
- ◆ Portfolio assessment in which the principal assessor shall review:
 - Buildings & floorspace served, property uses and typical management duration.
 - Three buildings shall be subject to a detailed assessment
- ◆ Site visits to buildings managed
 - To validate applicant's claimed capabilities

Scheme administration

- ◆ Applications will be received by email to: FMEnergyAccreditation@RSBDubai.gov.ae. Queries about accreditation can also be submitted to this address or to james.Grinnell@RSBDubai.gov.ae
- ◆ We expect to allow a period of about 6 months before the first approval Board meeting to allow companies to prepare their applications. Although this will depend on demand.
- ◆ There will be no application fee for the initial period.
- ◆ Accreditation will be valid for three years subject to compliance with the terms and conditions of the scheme.

What to expect as an Accredited FM Energy Manager

- ◆ Governance – accredited companies must:
 - maintain all staff/processes/ certifications, required to maintain accreditation
 - provide annual return data to the RSB to assess scheme performance
- ◆ The RSB will promote the scheme through various social media channels and at conferences
- ◆ As the scheme matures, we hope that government entities will choose only to contract FM services from accredited companies, as has been the case in respect of the ESCO accreditation scheme.
- ◆ A list of accredited FM Energy Management Companies will be provided for reference on the RSB's website.

Q&A

