

الاتحاد  
Etihad

لخدمات الطاقة  
Energy Services

# ETIHAD Energy Services Super ESCO of Dubai



Established in 2013



## Vision

To make Dubai one of the most sustainable cities in the world



## Mission

To make Dubai's built environment a leading example of energy efficiency for the region and the world

# Targets



**1.7 TWh**

of Electricity to be saved by 2030



**5.6 Billion IG**

of Water to be saved by 2030



**1 Million Tons**

of CO<sub>2</sub> to be abated by 2030



**30,000 Bldgs**

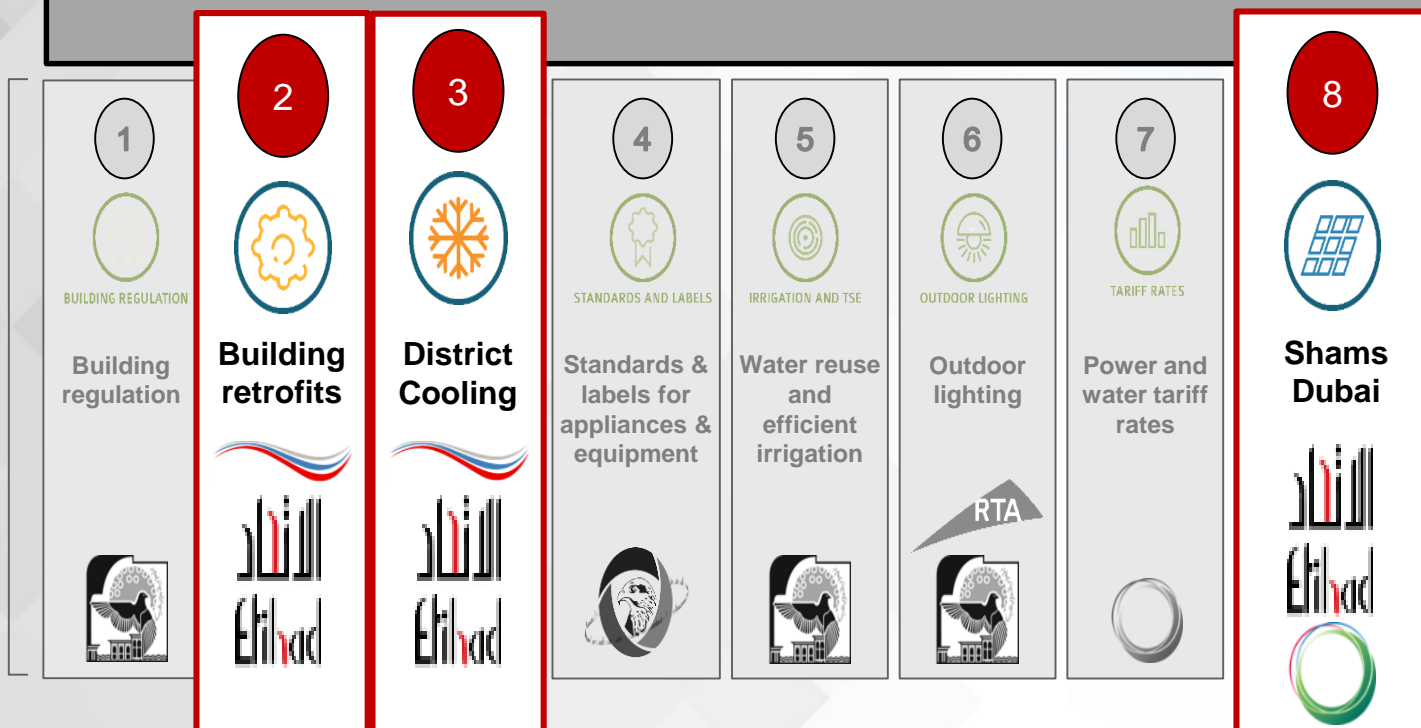
Potential for energy reduction out of 120,000

# Demand Side Management

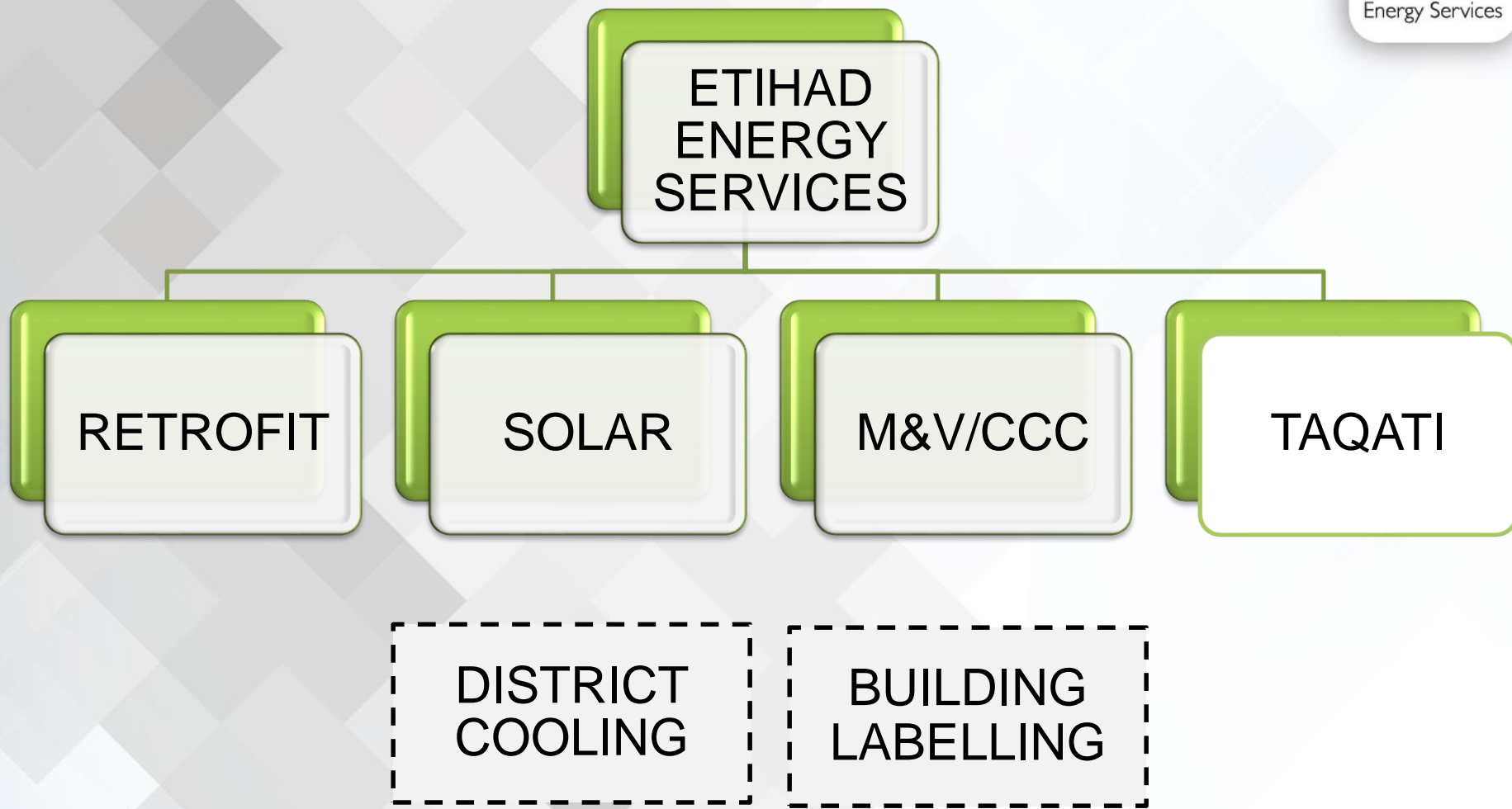
DSM goal

Dubai to become a role model in energy efficiency by implementing cost-effective electricity and water demand saving measures and developing a green service market

8 DSM programs



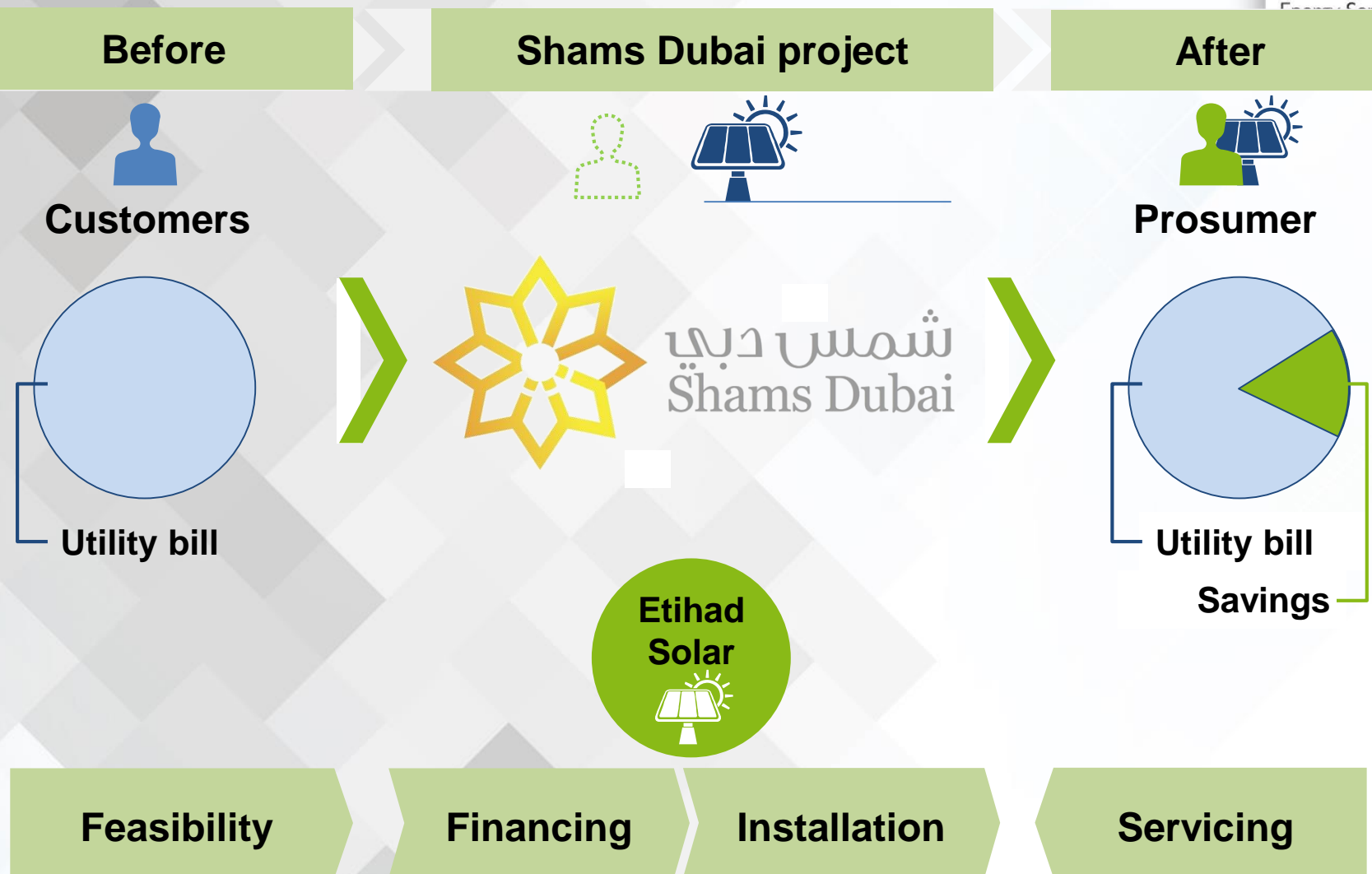
# Our Integrated Service Lines



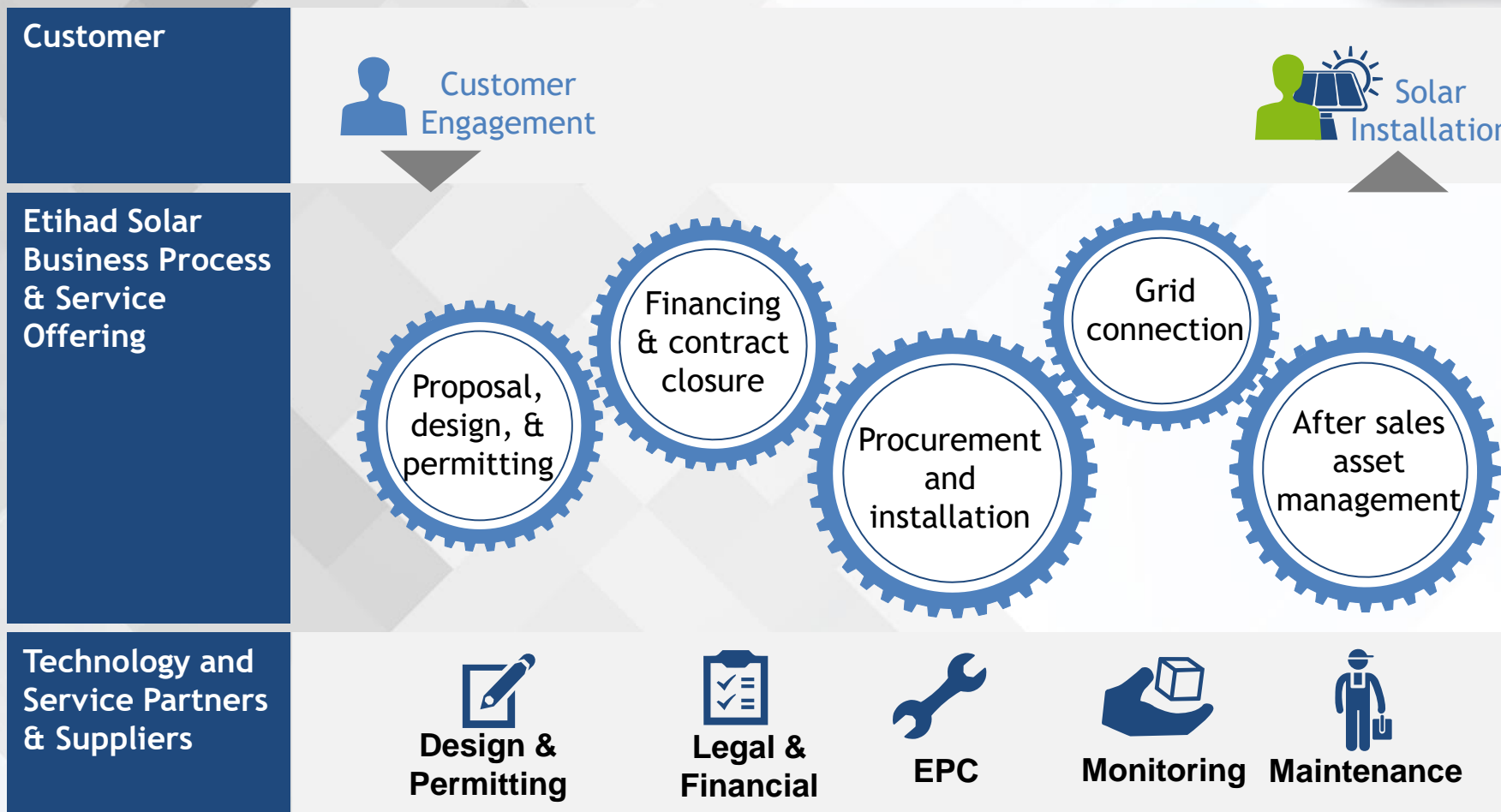


# Solar Solution

# ETIHAD Solar Fosters Distributed Solar Market Development



# Etihad Solar Integrated Service Platform





# Solar Projects in execution - Status

New

acquisition

Mai Dubai™  
water is life

وحدل للعقارات  
wasl properties

متحف المستقبل  
MUSEUM OF  
THE FUTURE

دوكاب  
Ducab

New  
acquisition



Dubai Airports  
Connecting the World



مركز الجليلة لثقافة الطفل  
Al Jalila Cultural Centre For Children



مجمع دبي للاستثمار  
DUBAI INVESTMENTS PARK

هيئة كهرباء ومياه دبي  
Dubai Electricity & Water Authority



TESLA

اينوك  
enoc

42 MWp under execution

139 Mil AED project value

67 GWh solar generation

# Etihad Solar Projects

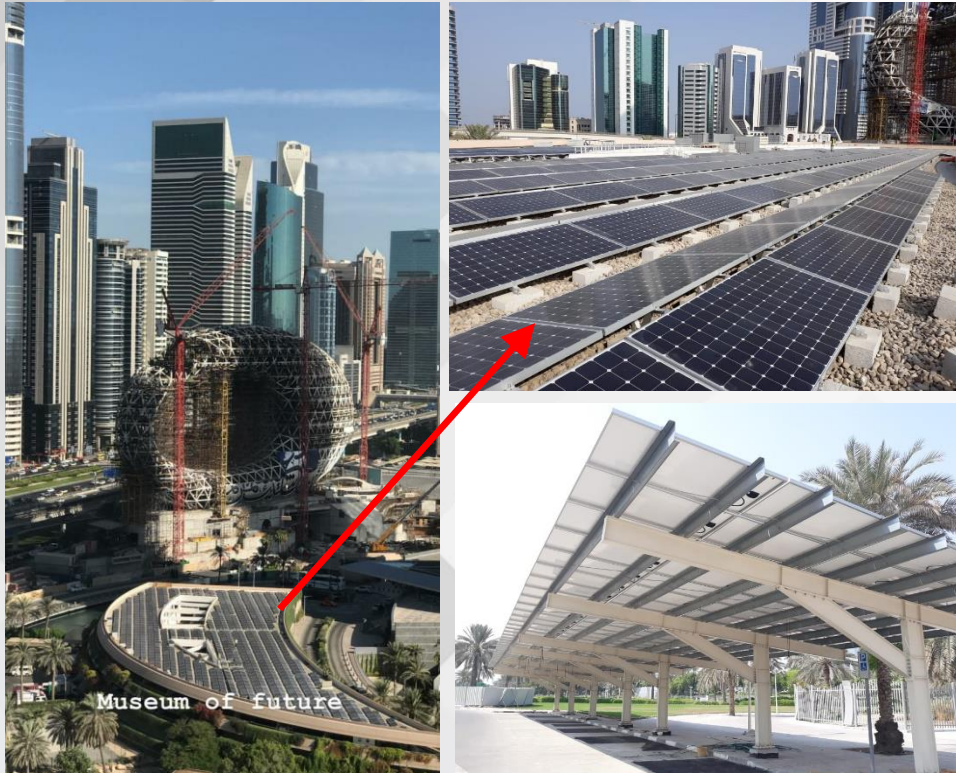


HATTA - 640 Villas

Total Installed Capacity - 3 MWP



# Major projects – Museum of the Future



2.8 MWp

15 Mil  
AED

4.3 GWh/year

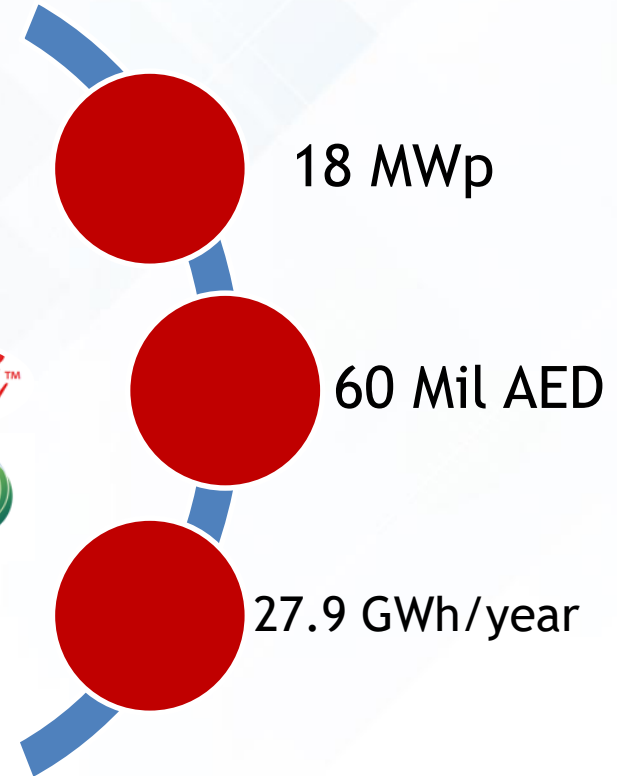


# Major projects – Mai Dubai / Ghaffat

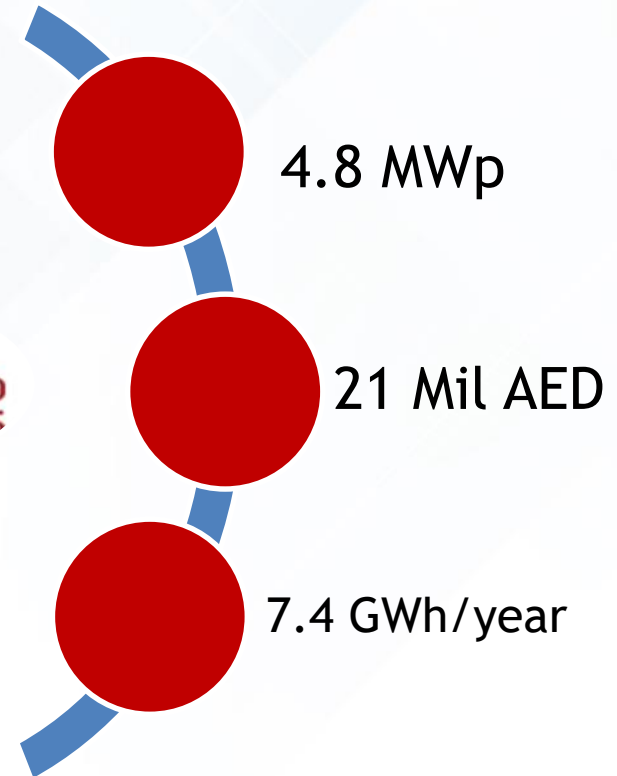


*Mai Dubai™*  
water in the

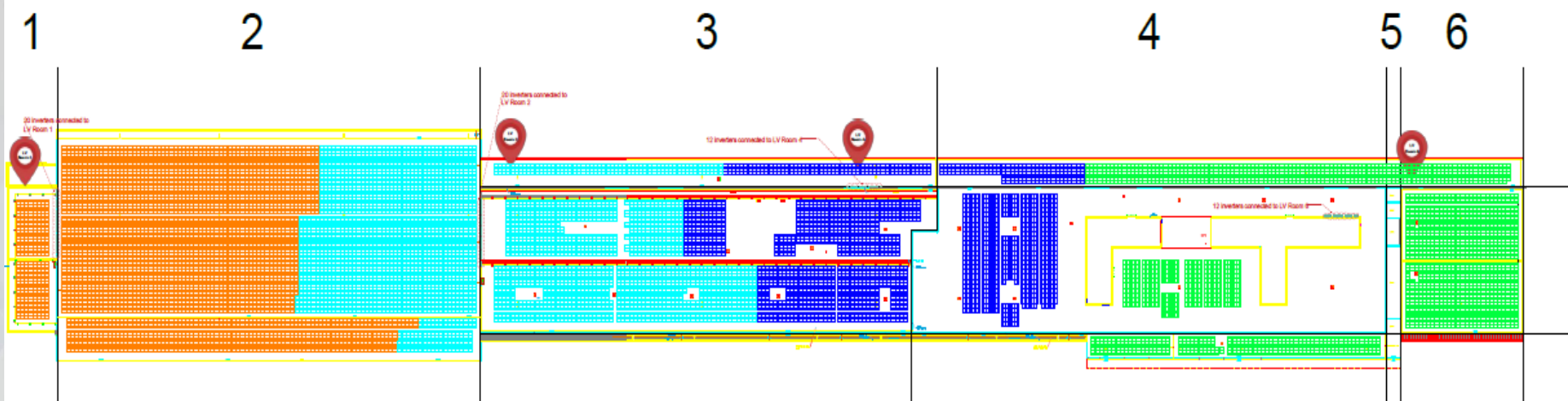
هيئة كهرباء ومياه دبي  
Dubai Electricity & Water Authority



# Major projects – Al Wasl Properties



# Etihad Solar Projects

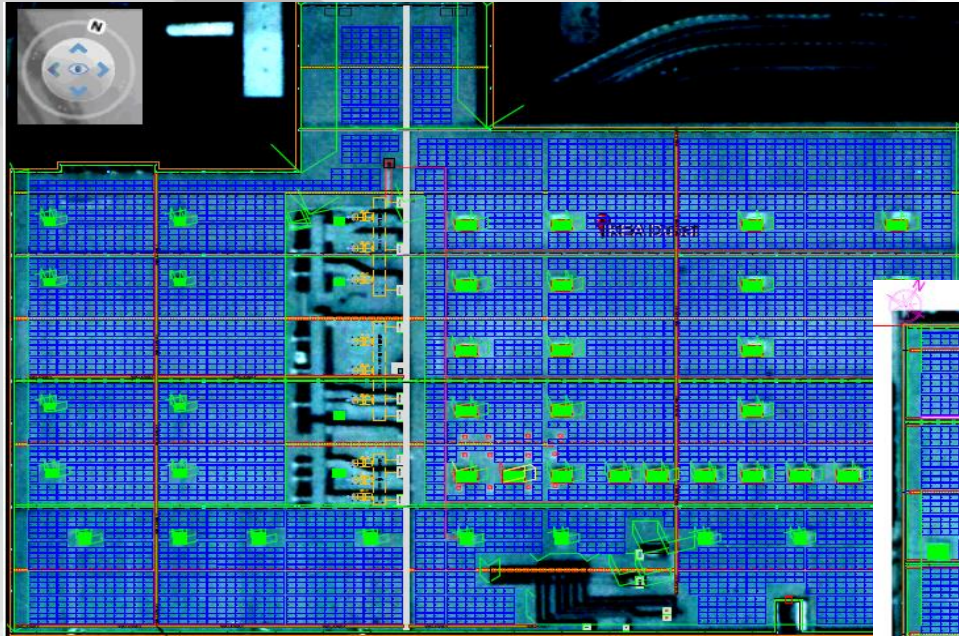


DUBAI AIRPORTS

Total Capacity - 5 MWP

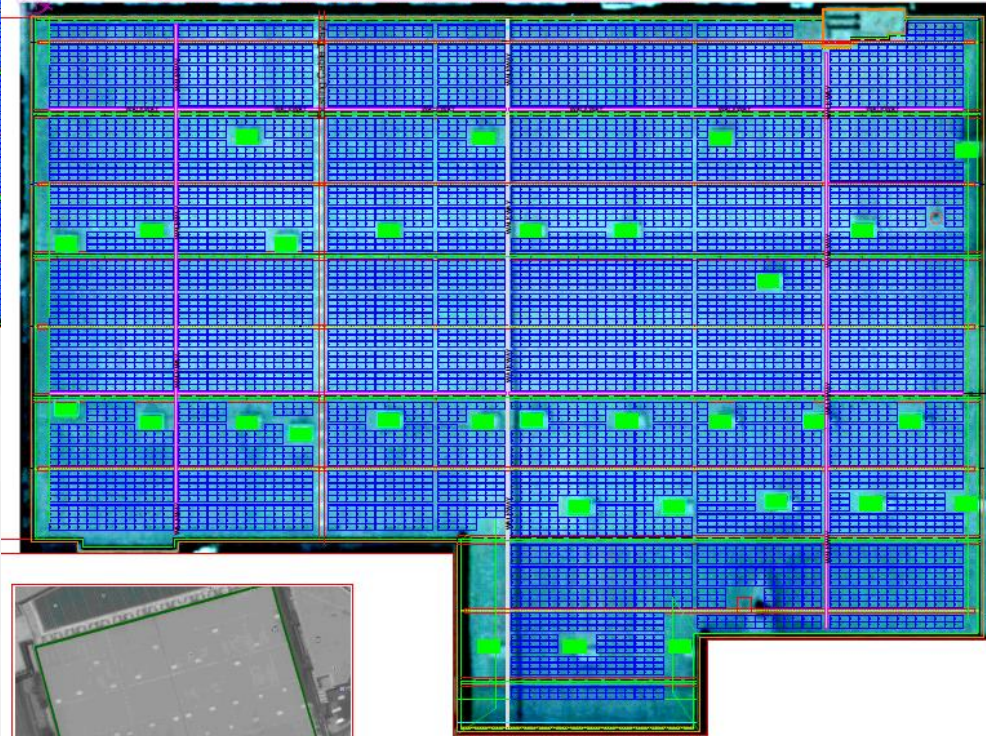


# Etihad Solar Projects



Dubai Festival City

PV LAYOUT DRAWING WITH 325 Wp HIT MODULE FOR IKEA, DUBAI



Total Capacity - 2.5 MWP

# Etihad Solar Projects

## DUBAI WORLD TRADE CENTER

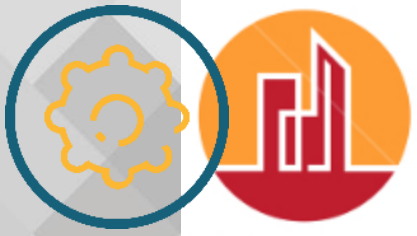


Total Capacity - 1 MWp + 3MWp upcoming



# Etihad Solar Key Projects

- Hatta Solar Roof Top Projects (Residential) - 3 MWp
- Dubai World trade Center - 1 MWp + 3 MWp
- Wasl Properties Dubai - 5 MWp+
- Al Jalila Cultural Centre for Children - 480 kWp
- Dubai Airports - 5 MWp
- DEWA Water Reservoirs - 60 MWp+
- Dubai Festival City - 2.5 MWp



# Building Retrofit Solution

# Conservation Areas



Cooling Retrofits



Lighting Retrofits



Water Fixture Retrofits



Solar



Building Envelope and  
Other Retrofits



**20 – 70 %**

Potential Savings

# Projects Completed

Description	Completion Year	Saving (%)	Savings in GWh	Savings in mAED	Number of Facilities
DEWA Lighting P-1	2016	74	15.33	6.82	6 Power Stations
DEWA Lighting P-2	2017	68	8.20	3.65	6 Power Stations
DEWA Building*	2018	30	4.93	2.23	7 Buildings
DIFC	2017	75.2	10.58	4.71	14 Buildings
JAFZA P1 & P2*	2017	30	26.39	22.13	156 Buildings
MBRH	2017	80	6.33	0.57	1656 Villas
ENOC	2018	36	0.32	0.14	1 Fuel Station
<b>Total</b>			<b>72.08</b>	<b>40.25</b>	<b>1845</b>

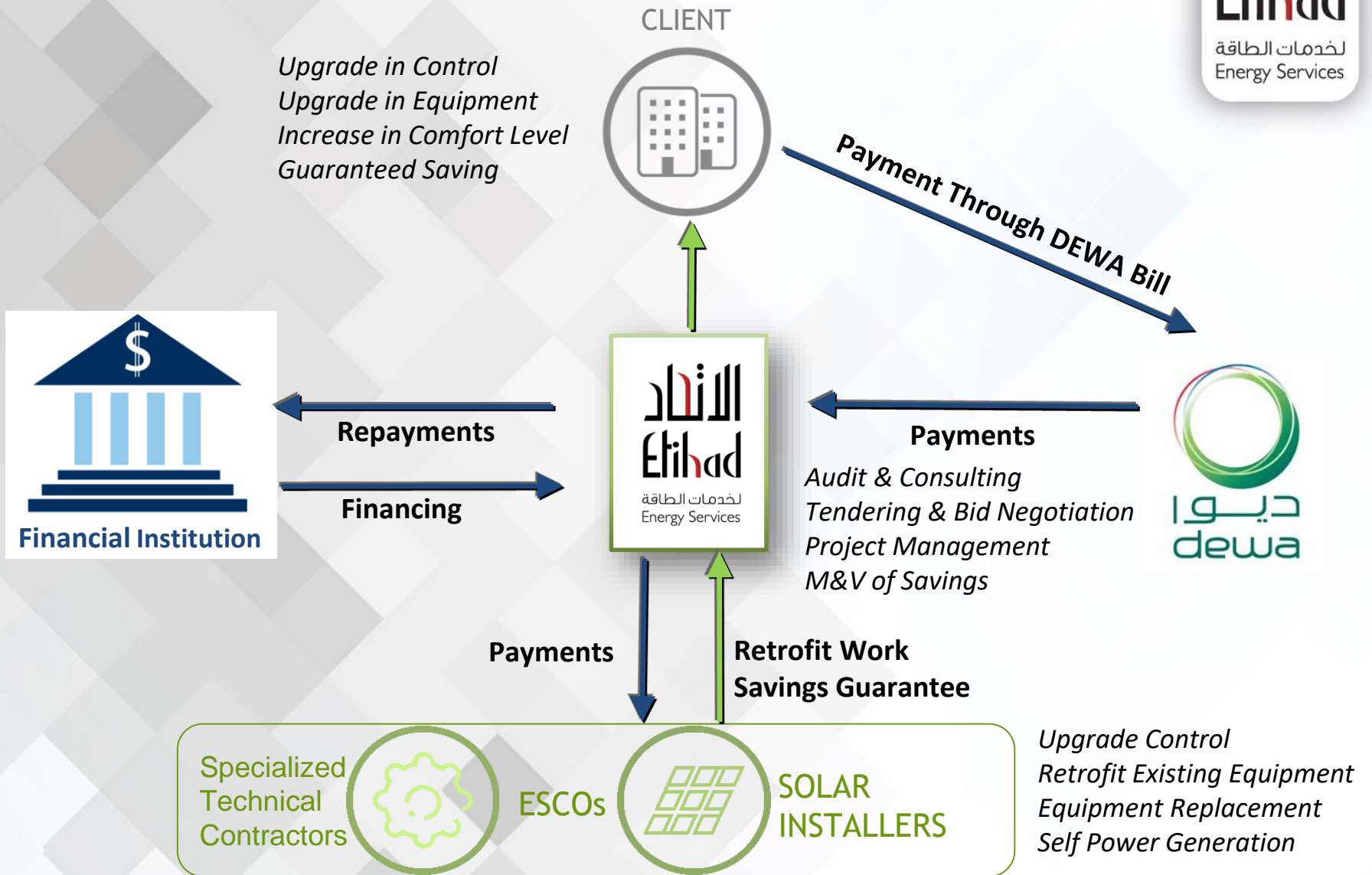
\* Saving is inclusive of Water Savings

# Projects Under Implementation

Description	Expected Completion	Saving (%)	Savings in GWh	Savings in mAED	Number of Facilities
WASL*	2018	27	33.3	15	243 Buildings
Dubai Airport - Phase 1	2019	23	65.5	29.9	4 Buildings
Dubai Golf *	2018	27	7.53	4.42	35 Buildings
Dubai Healthcare City	2018	60	1.03	0.46	3 Buildings
DEWA Lighting P-3	2019	71	22.74	10.12	8 Power stations
Dry Docks *	2019	25.2	1.48	1.15	23
Seven Tides *	2019	14.8	13.25	7.3	22
Dubai Airport Lighting	2020	52	49.88	22.2	4
IACAD Phase 1 *	2019	20.4	4.69	3.1	117
JAFZA Package 3 *	2019	26	10.63	4.9	26
DEWA Initiative Ph 2 *	2019	70	6.9	2.6	2,200 Villas
<b>Total</b>			<b>217</b>	<b>101</b>	<b>2,685</b>

\* Saving is inclusive of Water Savings

# Business Model



**Thank You**