



هيئة كهرباء ومياه الشارقة

Sharjah Electricity & Water Authority

# Overview on Energy Efficiency & Renewable initiatives in Sharjah Emirate

24 January 2018



الشارقة مدينة الترشيد

SHARJAH CITY OF CONSERVATION

# Sharjah Vision



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SHARJAH CITY OF CONSERVATION



# SEWA ENERGY EFFICIENCY INITIATIVES AND SERVICES

ساعة الترشيد



Peak Hour

1<sup>st</sup> July 2:30 to 3:30 PM

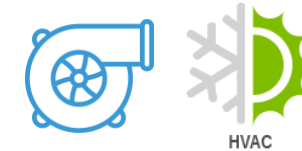
## Awareness

- Peak hour



## Efficient Equipment & Appliances

- LED
- Pumps
- HVAC



**LED light is mandatory for all the new projects**



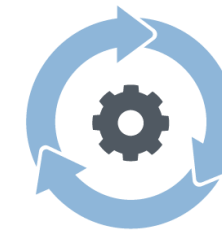
1. Energy saved 40MW last year
2. Huge Campaign through the GCC and MENA region

## Consultancy

- Energy Audits
- ESCO Program
- Design approvals



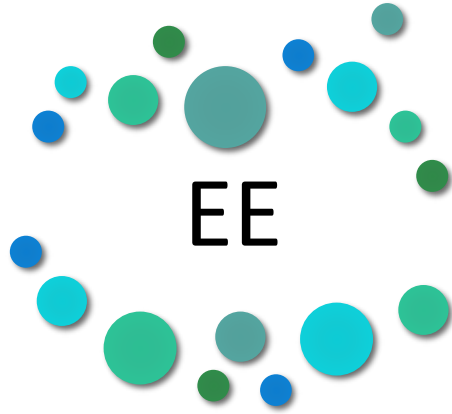
## Energy Management



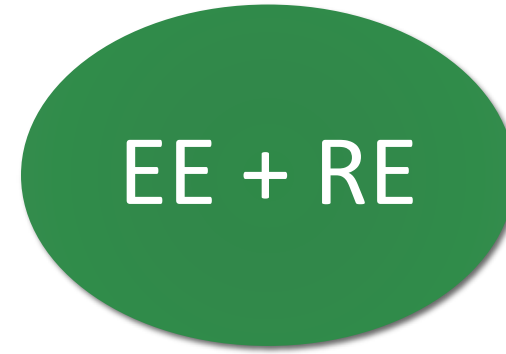
- ISO 50001EnMS/BMS
- Energy Monitoring & Controlling



# EE & RE Approach in SEWA



Efficiency First !



Sector Coupling

# Why doing a retrofit ?

- Buildings use between **40%** to **60%** of all the energy produced
- In the UAE, **60%** to **75%** of the electricity consumed is used for air-conditioning
- Improving or replacing in-efficient equipment can cut energy costs by **20%** up to **70%**



ENERGY RETROFIT

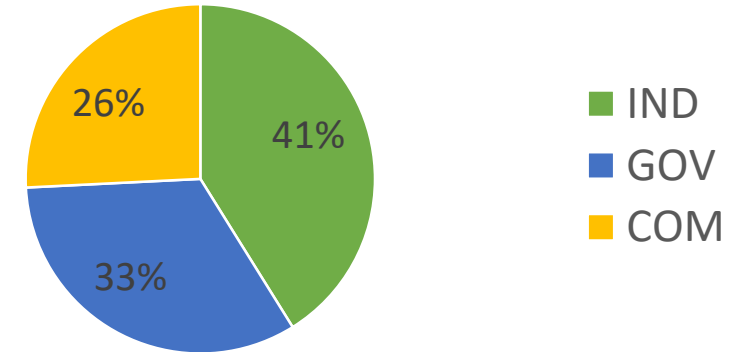
# Retrofit Program in Sharjah

- SEWA has recently launched an ESCO registration process as a first step of the ESCO program in Sharjah



## Top100 Total consumption

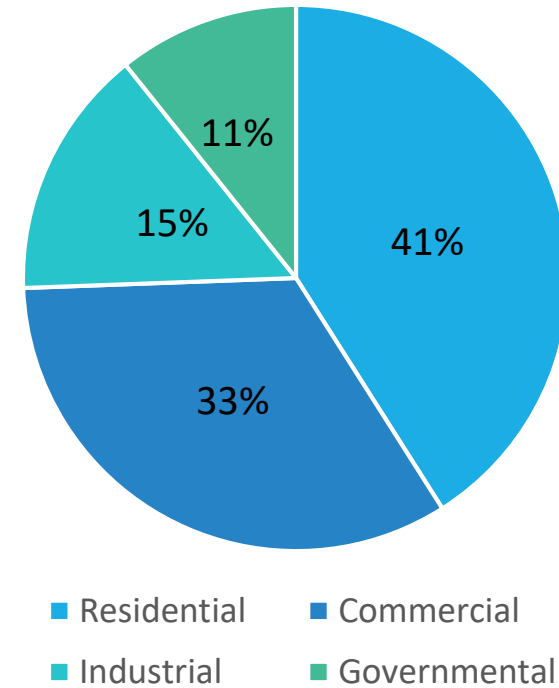
- Focus on the Top 100 consumers in the Emirate as the first phase



# The Industrial EE Opportunity in Sharjah

- With a few thousand clients, the Industrial sector represents **15%** of the total energy consumption in Sharjah
- Nearly **40%** of the electricity consumption of the Top 100 Consumers of SEWA is from Industrial clients
- The opportunity for Sharjah industrial clients to save energy & costs is large

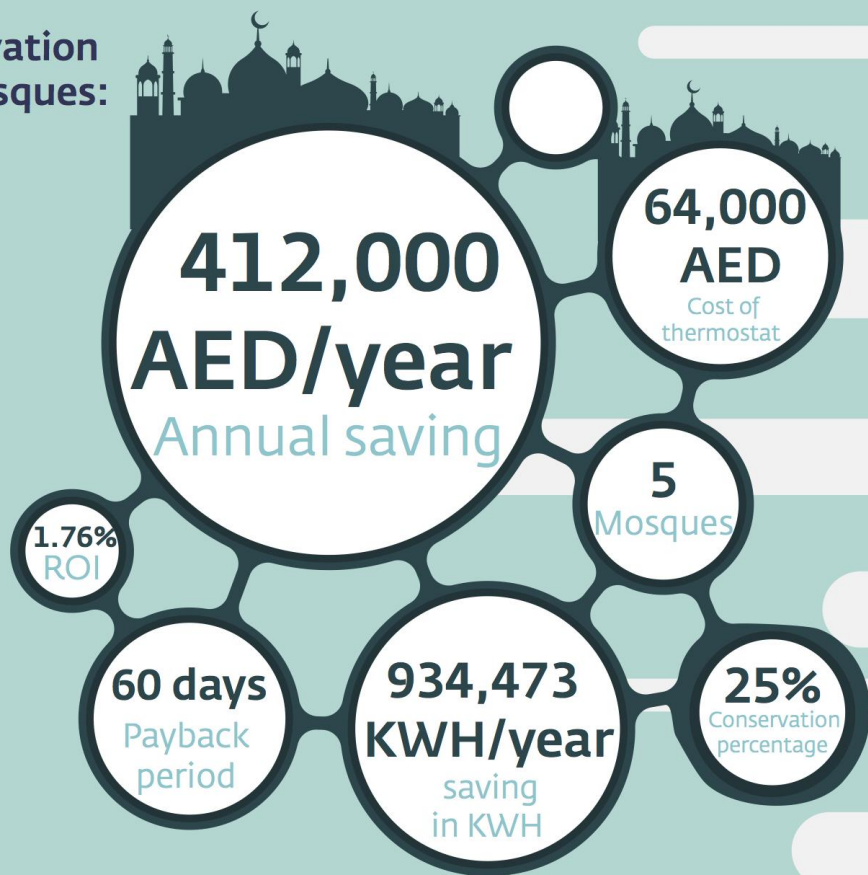
Electricity Consumption by Sector in Sharjah  
(2015)



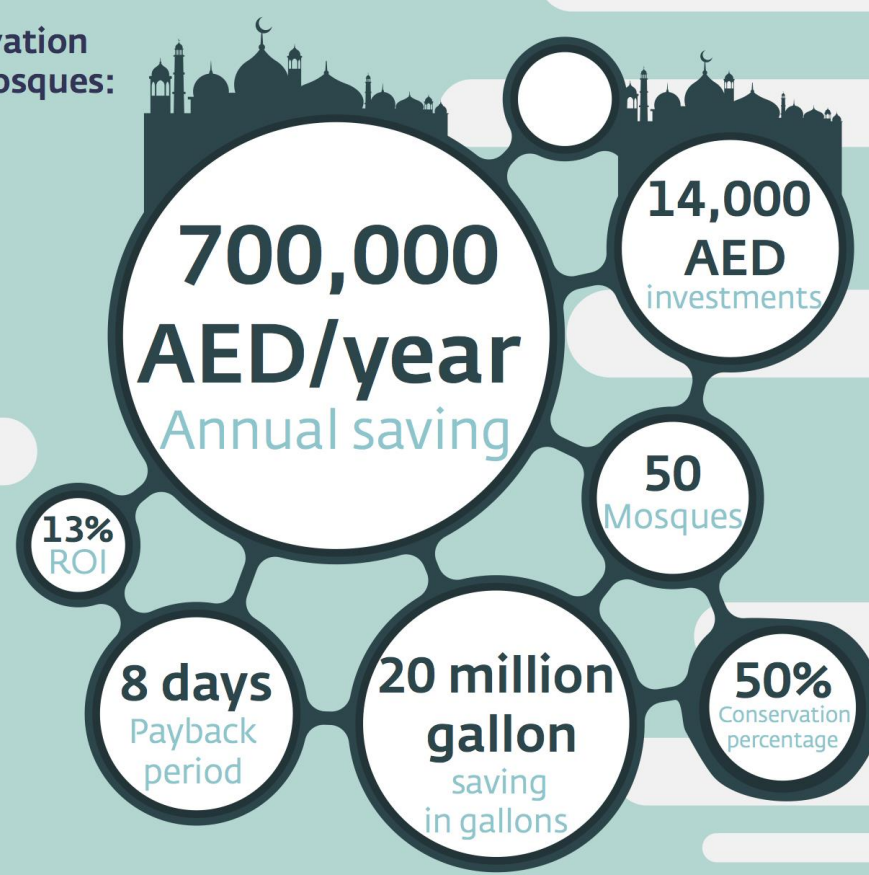


# Energy Efficiency in Mosques

## Energy Conservation in Sharjah City Mosques:



## Water Conservation in Sharjah City Mosques:







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# Solar/LED Streetlights

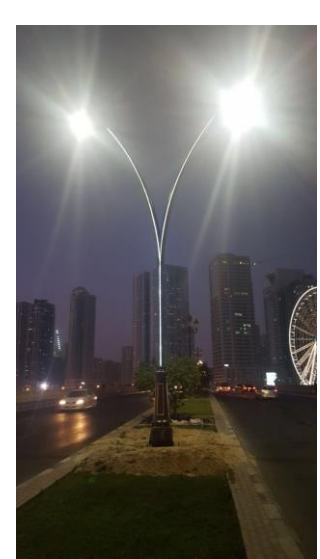
Covered more  
than 50km of  
Solar Streetlight

1197  
solar  
streetlights

2479  
LED streetlights

Reduced  
1054 Tons of  
CO2 emission

Saved  
737MW



Thank You!

