

Supplementary Materials S1
List of abbreviations mentioned in the paper.

Part 1: General Abbreviations

Abbreviation	Description	Measurement Unit
UAE	United Arab Emirates	N/A
DOE	Department of Energy Abu Dhabi	N/A
FEWA	Federal Electricity & Water Authority	N/A
DEWA	Dubai Electricity & Water Authority	N/A
SEWGA	Sharjah Electricity, Water and Gas Authority	N/A
GWh	Gigawatt hours	N/A
AC	Air Conditioning	N/A
CO₂	Carbon Dioxide	Kilogram (kg)
EPI	Energy Performance Index	kWh/m ²
ESMA	Emirates Authority for Standardization and Metrology	N/A
LR	Replacement of existing inefficient lights/Retrofitting.	N/A
LT	Lighting Automation.	N/A
MSQTHR	Mosque Thermostat.	N/A
EEACU	Energy Efficient Air Conditioning Units,	N/A
HVAC	Heating, Ventilation, and Air Conditioning.	N/A
HVACA	HVAC Options A- (installation of Energy saver for Split Units).	N/A
IBSC	IOT Based Smart Control.	N/A
EIFWF	Efficiency Improvement for water fixtures	N/A
A	Aerators	N/A
SCFWA	Self-Closing Faucets with Aerators	N/A
WR	Water Recycling	N/A
ECMS%	Energy Savings from Energy Conservation Measure	%
%TES	Percentage of Total Energy Saving	%
PBP	Simple Payback Period	No. of years
AED	United Arab Emirates Dirhams	N/A
Std Err	Standard Error	N/A
95% CL Mean	95% Confidence Limits of the Mean	N/A
Std Dev	Standard Deviation	N/A
95% CL Std Dev	95% Confidence Limits of the Standard Deviation	N/A

Part 2: Abbreviations used in the parameters for data collection.

Parameter Code	Parameter Description	Parameter Unit
Y	Year of Construction	N/A
A	Building Usable Area in m ²	Square meter (m ²)
PEC	Pre-Audit Electricity Consumption	Megawatt hour (MWh)
PCO₂	Pre-Audit CO ₂ Emission	kg.CO ₂
PEPI	Pre-Audit Energy Performance Index (EPI)	kWh/m ²
ES	Types of existing systems in mosques prior to audits	N/A
ECMs	Types of Energy Conservation Measures implemented in the mosque post-energy audit.	N/A
ECMS%	Percentage of ECMs savings (ECMS%).	%
ECMS (kWh)	ECM's Savings (Electricity)	kWh
TECMS	Total ECM's Savings	kWh
IC	ECM Implementation Cost (Electricity)	Dhs (AED)
TIC	Total ECM Implementation Cost	Dhs (AED)
PBP	Payback Period for both electricity and water	No. of Years
PAEC	Post Audit Electricity Consumption	kWh
PAEPI	Post Audit Energy Performance Index	kWh/m ²
PACO₂	Post Audit CO ₂ Emission	kg.CO ₂
TES%	Percentage of Total Electricity Savings	%
PCWC	Pre-Audit Chilled Water Consumption	m ³
PWUI	Pre-Audit Water Unit Intensity (WUI)	m ³ /m ²
WCMs	Types of Water Conservation Measures implemented in the mosque post-energy audit.	N/A
PACWC	Post Audit Chilled Water Consumption	m ³
PAWUI	Post-Audit Water Unit Intensity (WUI)	m ³ /m ²
TWCMS	Total WCM's Savings	Dhs (AED)
WCMW	Water Conservation Measure Savings	kWh
WCMIC	Water Conservation Measure Implementation Cost	Dhs (AED)