



THE 20TH INTERNATIONAL OPERATIONS & MAINTENANCE
CONFERENCE IN THE ARAB COUNTRIES

Role of Facility Management in Sustainability and Energy Efficiency

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Contacts

- **Oman Facility Management Market.**
- **Introduction to Sustainability.**
- **Energy efficiency strategies and Procedures.**



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• Oman Facility Management Market

- Facility management is contained and defined as “an integrated approach for operating, maintaining, improving and adapting building and infrastructure assets to support the primary objectives of occupants, owners and facility managers”.
- The Oman facility management market is expected to grow at a CAGR of 13.52% during the forecast period, 2022-2027.
- Facility management is a growing for real estate industries.
- The increasing impact of information technology (IT) systems requires more reliable and flexible studies for the improvement of techniques and instruments in practice.
- This overall approach is focused on the needs of the different actors involved in the life cycle of the facility .



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Sustainability

Sustainability as “meeting the needs of the present without compromising the ability of future generations to meet their own needs.”

How to achieve sustainability?

- **Procedures** and Guideline
- equality .
- High quality technologies.
- Continuous development.



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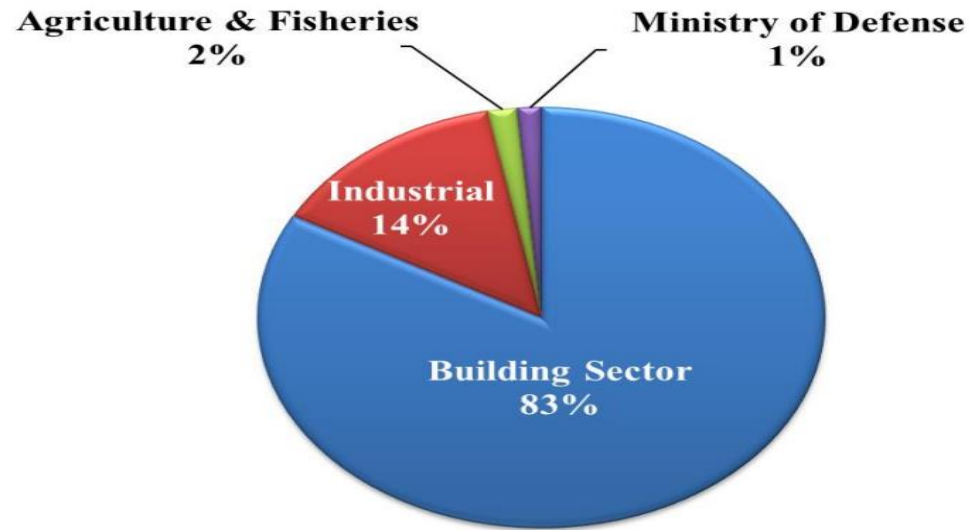
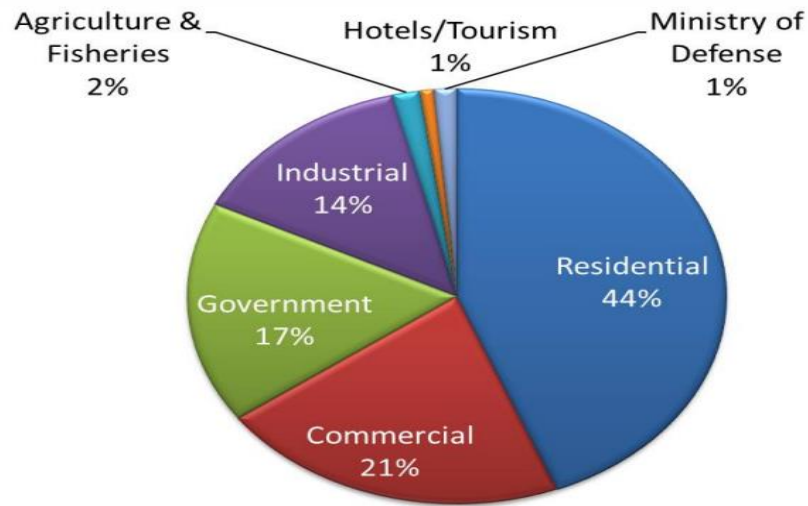
Energy Management part of FM Responsibilities

Energy management is the process of tracking and optimizing energy consumption to maintain usage in a building.

There are a few steps to the Energy management process within FM activities :

- Continuous data collection and analysis.
- Determine improvements in equipment schedules, identify points and flow rates to improve energy efficiency.
- Calculate the return on investment.
- The units of energy saved can be measured and calculated exactly the same as the units of energy delivered.
- Implement energy optimization solutions.

Energy consumption in Building sector

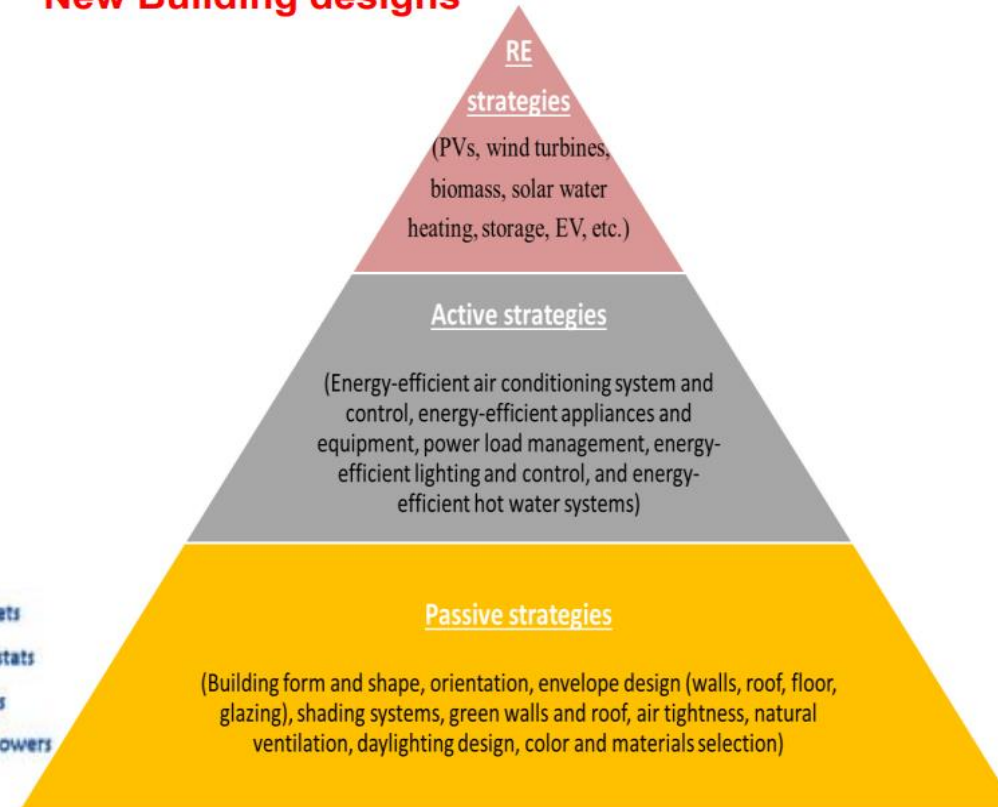


Source: Authority for Public Services Regulation-Oman. (2021). *Annual Report for the year 2020.*

Energy conservation and Energy efficiency strategies

Existing Buildings

New Building designs





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Energy Efficiency provides many benefits for:

1. Lower electricity bills
2. Longer asset life of equipment
3. Quality of life
4. Lower O&M costs
5. Less investment in power infrastructure
6. Sustainability in natural resources
7. Reduce environmental pollution & CO2



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