



هيئة تنظيم الكهرباء - عمان
AUTHORITY FOR ELECTRICITY REGULATION, OMAN

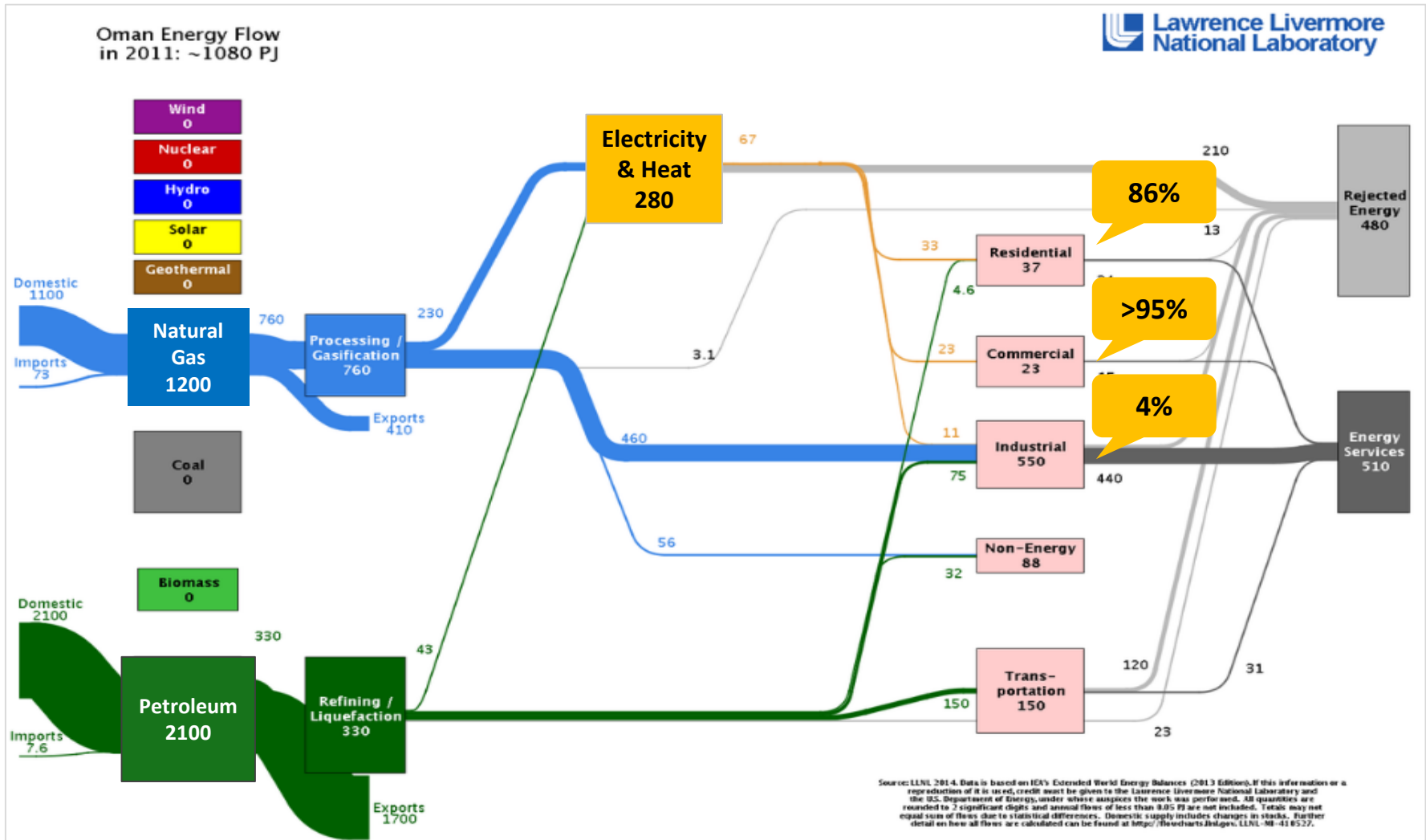
Energy Efficiency in Oman: Trends, Efforts & Opportunities

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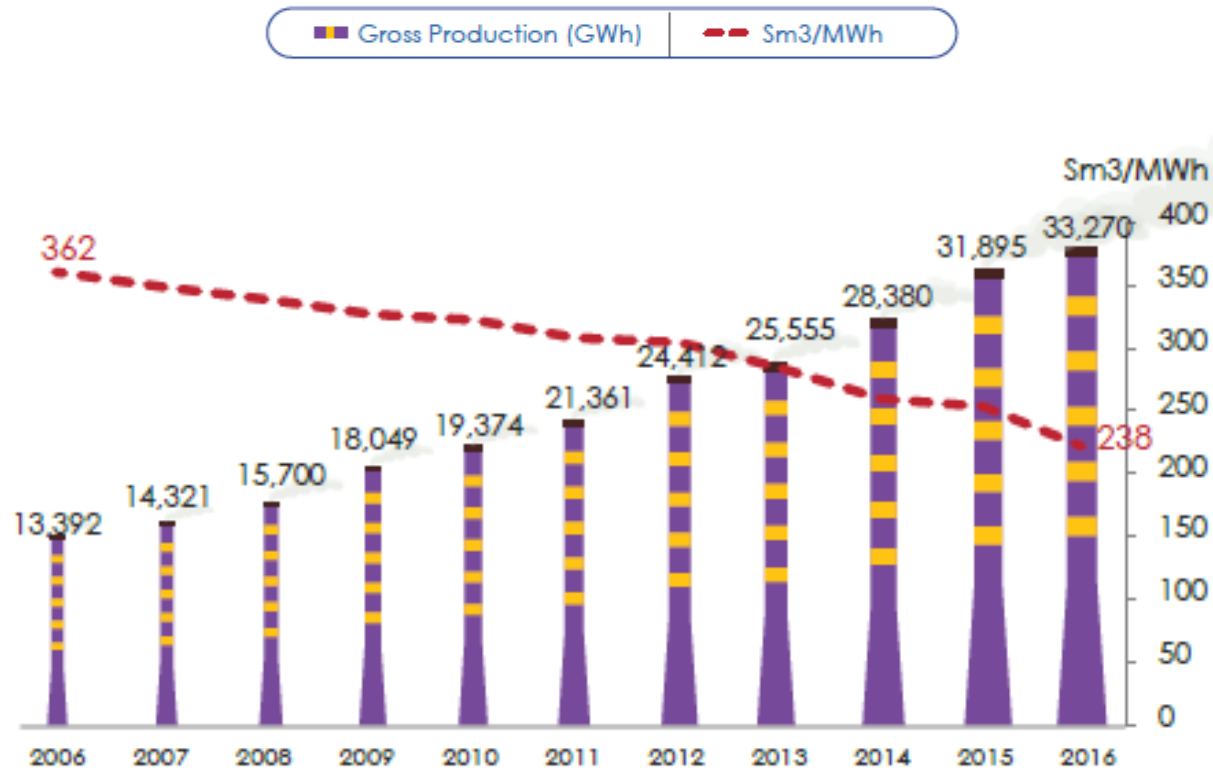
National Energy Balance - 2011



Trends in Electricity Production



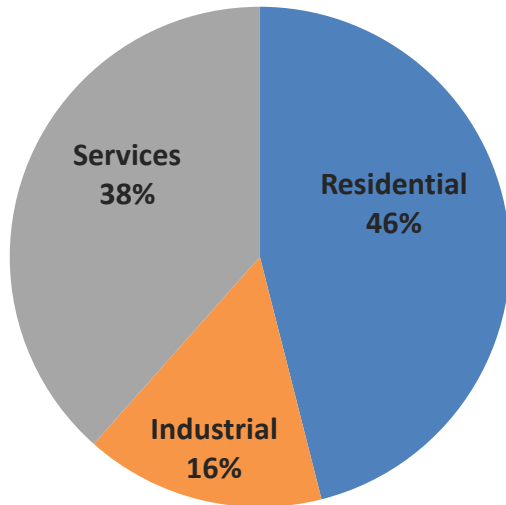
Electricity Production & Gas Consumption



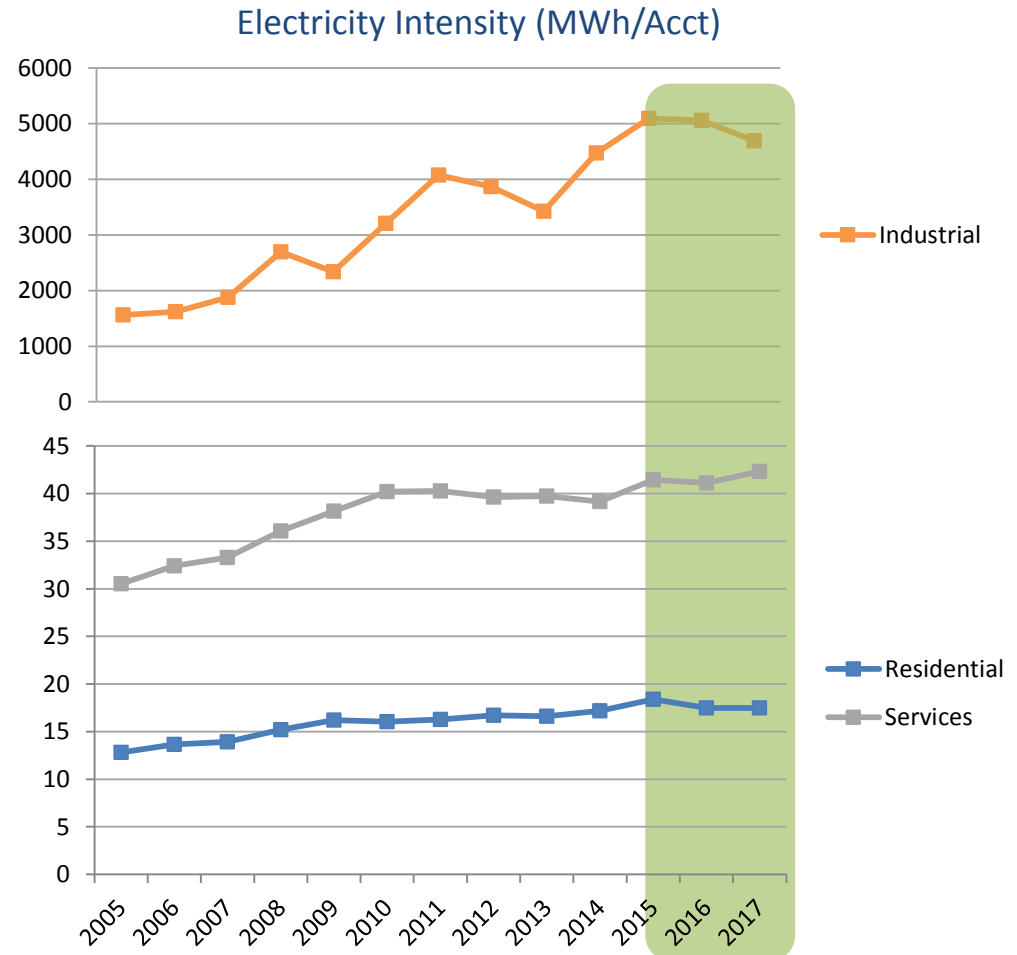
Trends in Electricity Consumption



2017 Total Electricity Consumption was 32 TWh broken down as follows:



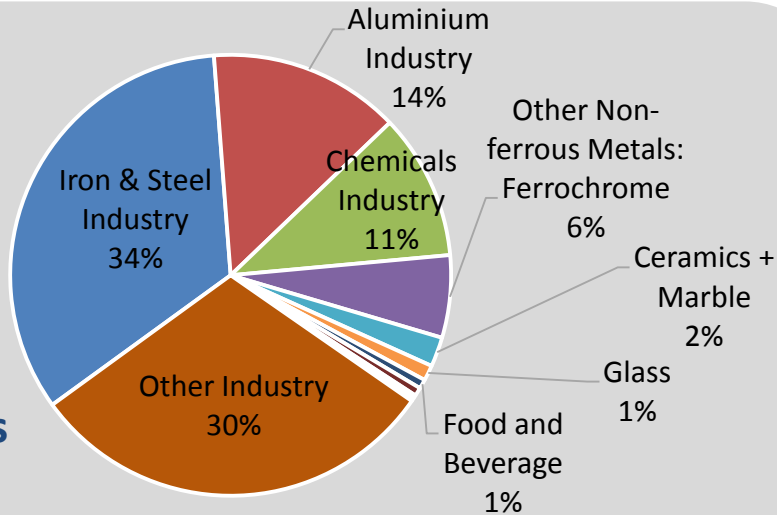
Source: Authority data



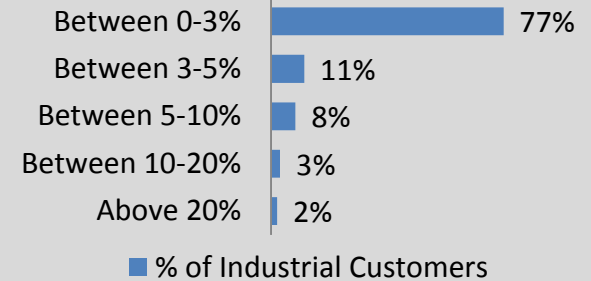
Industrial Sector



Sub-categories



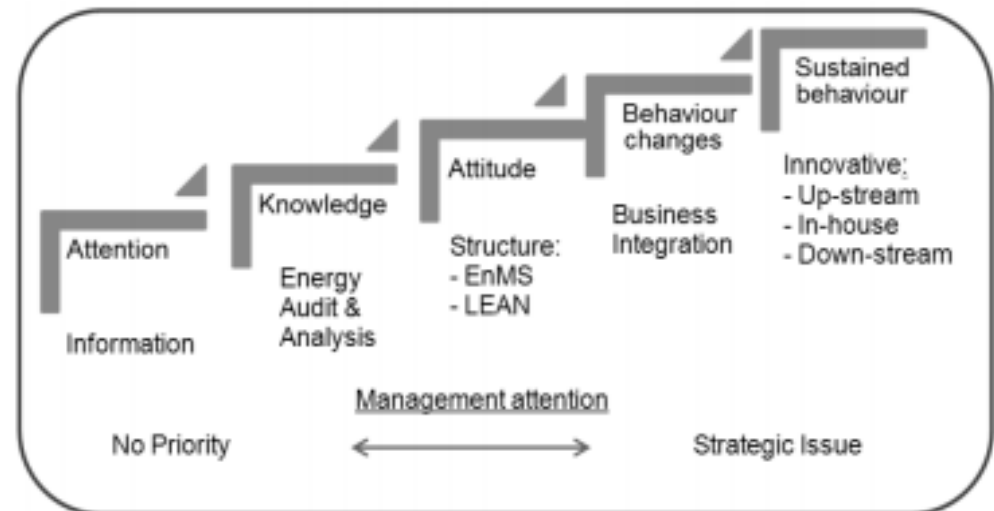
Electricity % of Total Costs



Efforts

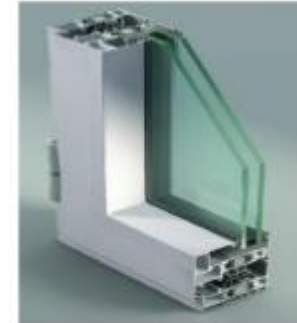
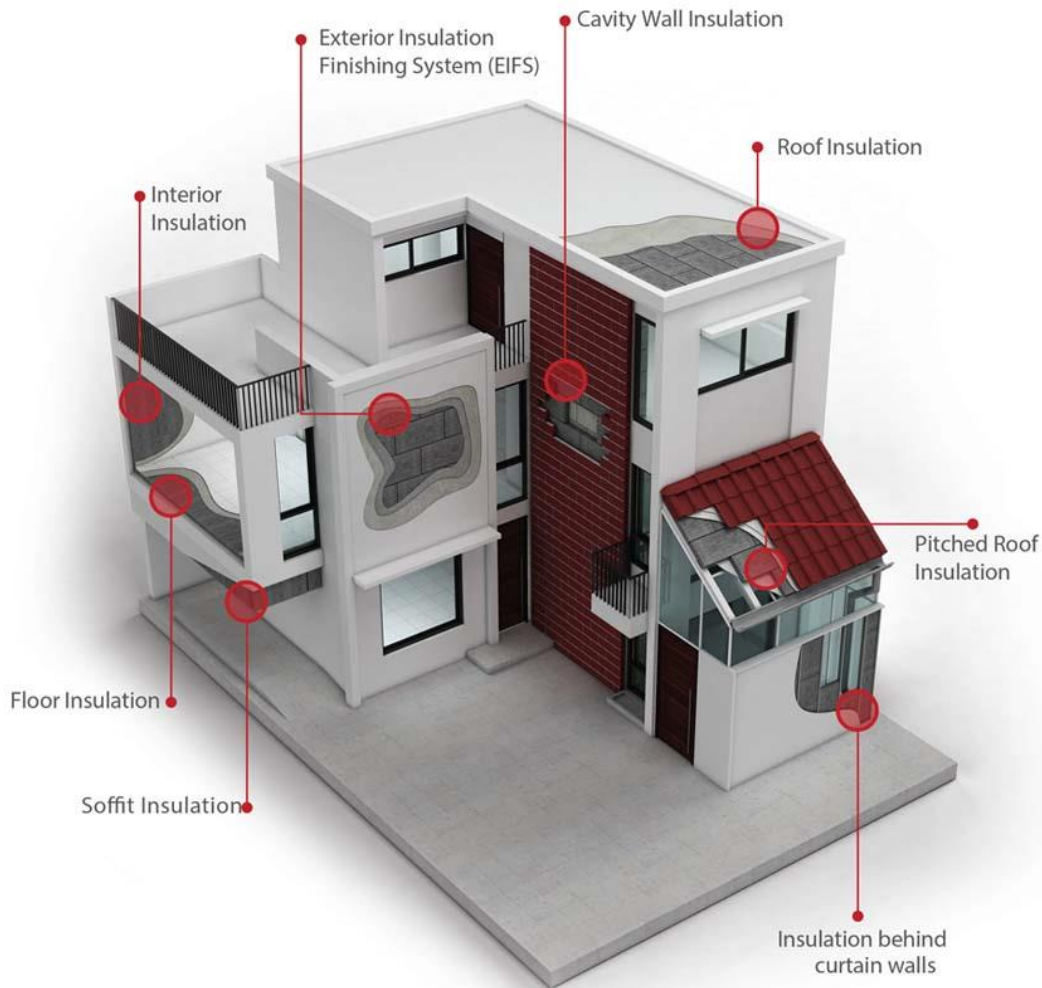
Cost Reflective Tariffs introduced in 2017; already inducing a change in attitudes

Opportunity: Introduce Energy Management Systems



Source: (GSEP Energy Management Working Group, 2014)

Buildings – Trends & Opportunities



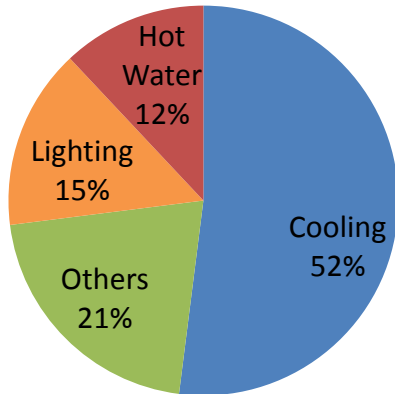
- Double glazed windows

- Architects
- Materials
- Landscaping
- Urban planning - orientation

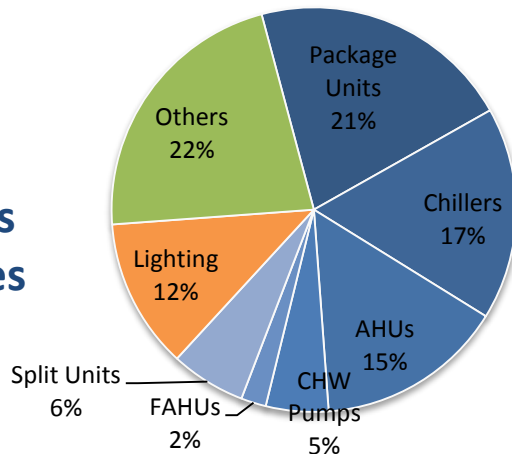
Appliances – Trends & Opportunities



Residential End-Uses



Services End-Uses example



- Market for more efficient appliances
- Market for new appliances
 - Sensors – help behaviours
 - Automation – water heating, office equipment
- Big data and new energy services

Awareness & Energy Services



- General motivations, awareness, concern and understanding of energy efficiency: **very low**
- Multiple efforts in training & awareness

Public Awareness Campaign 2018



20 Live Demonstrations



Continuous one to one Sessions



Over 1,000 Brochures handed out



1,000 Coloring Pages



More than 500,000 accounts reached



Energy Efficiency Training



- Training program on Energy Efficiency in the Built Environment
 - Participants included: Muscat Municipality, MOCI, Supreme Council of Planning, PAEW and AER;
- Data Framework & Building Audits
- EMS Awareness workshop
- Workshop for Gov't CRT Customers
 - Over 60 CRT Governmental entities invited to attend
- CEA Training & Certification



Program Timeline



Phase 1 2018 Q4

Hire consultant to draft the RfP & Contractual Framework

Phase 2 2019 Q1

RFP for ESCOs to Service Government Buildings (1st Batch)

Phase 3 2019 Q2 & Q3

Building Audits Commencement

Phase 4 2019 Q4

Commencement of Building Retrofits



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Thank you