

Energy Trends Within Malta's Manufacturing Sector

Experiences from the WE MAKE Project
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Introduction to Malta Business Bureau



Founded in 1996

MBB is the joint business advisory office of the Malta Chamber of Commerce & the Malta Hotels and Restaurants Association.

Over 10 years of experience in energy efficiency projects

Currently working on WE MAKE project running 2021-2023 on energy efficiency in manufacturing.

MBB's focus is twofold

EU policy advocacy and lobbying, and policy implementation through EU and nationally funded projects.

Manufacturing in Malta - Factsheet



Manufacturing

A pillar of Malta's economy and a major employer, but as an island suffers from double-insularity.

Mostly composed of SMEs

Registered legal entities specialising in manufacturing stood at **3,690** in 2016, accounting for slightly less than 4% of the total business units registered for the whole economy.

Small Maltese companies treated the same way as bigger European mainland competitors, also despite double-insularity.

Around 92% (3,395 units) of manufacturing firms were micro-enterprises

Accounting for 22% of total employment in the sector. More than 7% of the firms were considered as small and medium enterprises (SME) which together offered slightly more than half of the jobs in the sector.

The rest were large enterprises, generating 27% of total manufacturing employment.

Compared with the rest of the economy, the distribution of firms in the manufacturing sector is skewed slightly more towards SMEs, while the share of micro enterprises is slightly smaller.

Drivers for Energy Efficiency

- Funds for energy audits, replacement of machinery, investments which reduce carbon emissions, save energy, etc.
- “Financial considerations are almost exclusively the primary motivator for SMEs which set annual environmental/energy goals. Non-SMEs appear to be motivated strongly by both financial considerations as well as CSR.”

“National or international goals... no impact on companies’ goal setting...

... Companies set internal targets based on what they feel to be an ambitious but achievable improvement for their particular circumstances and operations.”



Barriers to Energy Efficiency



Infrastructure lock-in



Lack of financial/human resources



prevents Building Management Systems (BMS)

“Companies acknowledged that they can search for schemes themselves, however, given work loads and work priorities, and that they don’t really know where or when to search for schemes, it would be easier for them if they were to be approached by scheme promoters as schemes are issued.”



WE MAKE Project



Energy efficiency – one of the few factors which a manufacturing company can control.



WE MAKE project – 2-year initiative with Energy & Water Agency to promote uptake of energy audits, efficiency investments and projects through 1-1 contact events.



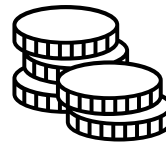
Experience of the project reflected by MBB's study, Energy Trends Within Malta's Manufacturing Sector.

Workshops



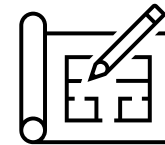
RDI workshops

- 29th April – Industrial Energy & Water Research
- 31st October – Heating & Cooling in Manufacturing



Financing workshops

- 15th February – Energy & Water Financing Measures
- 28th July – Applying for Energy & Water Funds



Best practice workshop

- 27th June – Energy Efficiency in Practice: Air Compression Case Studies

Mentoring on Air Compression

Events



23rd September – De La Rue



25th November – Baxter



No-Cost Measures

- Calibration
- Operator Procedures

Low-Cost Measures

- Leak Detection Equipment

Other Measures

- Replacing / Upgrading Equipment



Energy Audit Research



Interviewed 14 large companies to learn what actions they have or have not adopted from their past 2 energy audits.



Most common improvements were switches to LED lighting, and improvements to heating & cooling systems.



Companies were motivated by equipment reaching end of life, improvements to productivity, company energy targets and favourable ROIs.



Audits generally recommended building envelope improvements, but long pay back periods were a major obstacle.



Conclusion – Bridging the Gap for SMEs

Barriers

Financing

Human
Resources

Support

Grants

One-on-One
Guidance

Thank you

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