

The Malta Resources Authority invites you to an

Information session on Energy Efficiency in the Building Sector Energy Efficiency Initiatives at home

Date	Tuesday 1st October 2013
Time	17:00 till 19:45
Venue	Victoria Hotel, Gorg Borg Olivier Street, Sliema
Dress code	Casual Smart

Attendance is free of charge and on a first come and first served basis.
Refreshments will be served. Complimentary parking (subject to availability).

Kindly reserve a seat by Monday 30th September 2013
Tel: 2295 5151 | Email: events@mra.org.mt

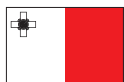


Operational Programme I – Cohesion Policy 2007-2013
Investing in Competitiveness for a Better Quality of Life
Project part-financed by the European Union
European Regional Development Fund (ERDF)
Co-financing rate: 85% EU Funds; 15% National Funds
Investing in your future



Information session on Energy Efficiency in the Building Sector Energy Efficiency Initiatives at home

TIME	TITLES	PRESENTER
17:00 – 17:30	Registration & welcome coffee	
17:30 – 17:40	Welcome address	CEO
17:40 – 17:55	The Energy Performance Certificate	Ing. Samuel Farrugia <i>BRO</i>
17:55 – 18:00	Questions & Discussion	
18:00 – 18:15	Energy Labelling in household appliances	Ing. James Spiteri <i>MCCAA</i>
18:15– 18:20	Questions & Discussion	
18:20 – 18:35	Yearly Appliance Energy Cost Indication – Supporting the uptake of energy efficient products	Mr. Stephan Schaa <i>Projects in Motion Ltd.</i>
18:35 – 18:40	Questions & Discussion	
18:40 – 19:00	Coffee Break	
19:00 – 19:15	Stand-by Power	Ing. George Cassar <i>MRA</i>
19:15 – 19:20	Questions & Discussion	
19:20 – 19:35	Maintaining the efficiency of Refrigeration and Air-Conditioning equipment	Mr. Daniel Privitera <i>MCAST</i>
19:35 – 19:40	Questions & Discussion	
19:40 – 19:45	Concluding remarks & round-up	CEO



Operational Programme I – Cohesion Policy 2007-2013
Investing in Competitiveness for a Better Quality of Life
Project part-financed by the European Union
European Regional Development Fund (ERDF)
Co-financing rate: 85% EU Funds; 15% National Funds
Investing in your future





Co-funded by the Intelligent Energy Europe
Programme of the European Union

Yearly Appliance Energy Cost Indication

Supporting the uptake of energy
efficient products



Stefan Schaa, Projects in Motion Ltd.

MRA Information Session, Malta
1st October 2013

The sole responsibility for the content of this presentation lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the EACI nor the European Commission are responsible for any use that may be made of the information contained therein.

About Us

Projects in Motion Ltd. is a private company **specialised on EU-funded energy R&D, studies and energy efficiency dissemination projects.**

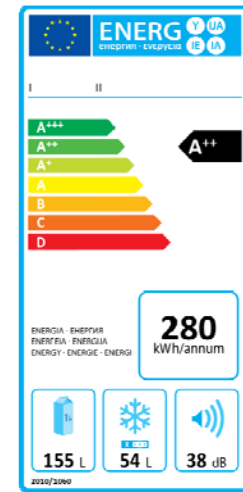
EU funding programme	Project
 <p>INTELLIGENT ENERGY EUROPE FOR A SUSTAINABLE FUTURE</p>	<p>Nearly Zero Energy Buildings www.opendoorsmalta.eu</p> <p>Yearly Appliance Energy Cost Indication www.appliance-energy-costs.eu/mt</p> <p>Come On Labels www.come-on-labels.eu</p>   
 <p>SEVENTH FRAMEWORK PROGRAMME</p>	<p>ee-Wise –Energy Efficiency Knowledge Transfer Framework for Building Retrofitting in the Mediterranean Area www.eewise.eu</p> <p>DiGeSPo - Distributed Combined Heat and Power Generation from Small Size Concentrated Solar Power www.digespo.eu</p>  



Co-funded by the Intelligent Energy Europe Programme of the European Union

Introduction

- The EU **energy label** informs consumers about energy efficiency and other energy related aspects of appliances;
- However consumers' purchasing decisions are more influenced by running/**energy cost differences and the purchase price.**



Energy costs per year: € 22





YAECI
Yearly Appliance
Energy Costs
Indication



Co-funded by the Intelligent Energy Europe
Programme of the European Union

Some Facts about the Energy Cost Indicator (YAECI) project

- 3 year project in Malta and 10 other European countries, co-financed by the Intelligent Energy Europe Programme;
- Based on a successful pilot launched in 2010 in the Netherlands called "EnergieWeter" (Energy Indicator);
- **aims to provide consumers with information about the yearly running cost of household appliances directly in the shops...The Energy Cost Indicator.**



Co-funded by the Intelligent Energy Europe Programme of the European Union

What does the Energy Cost Indicator look like?

- The Energy Cost Indicator is either a sticker like this
- or the running costs are directly printed on the price tag by the salesman.
- It allows you to compare products of different brands and in different shops; helps you to find the product that best fits your needs.

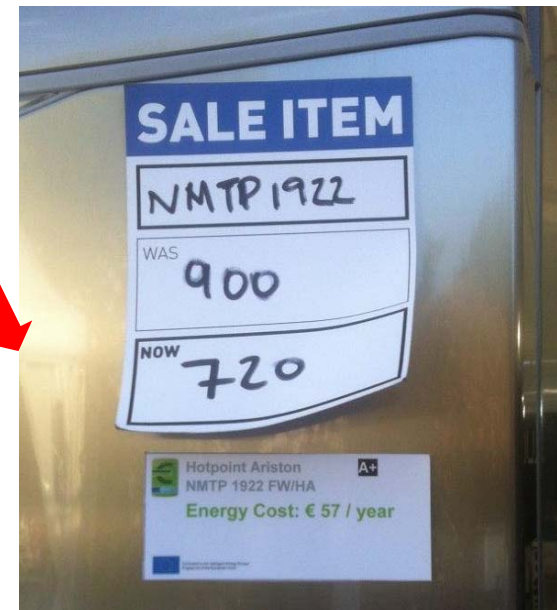


Bosch
KSR38S71

Energy Cost: € 26 / year



Co-funded by the Intelligent Energy Europe Programme of the European Union





Co-funded by the Intelligent Energy Europe
Programme of the European Union

For which appliances is the energy cost indicator available?

Product	Energy Cost Indicator available?
Refrigerators, Freezers, and combinations*	Yes
Washing machines	Yes
Dishwashers	Yes
Televisions	Yes
Combined washer-dryers	Partly
Tumble dryers	Yes
Air-conditioners	Yes
Ovens	No
Other small electrical household appliances	No

*excluding wine refrigerators



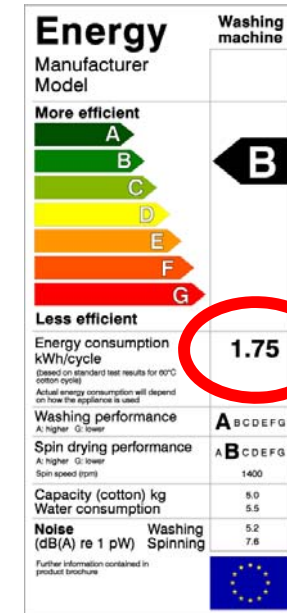
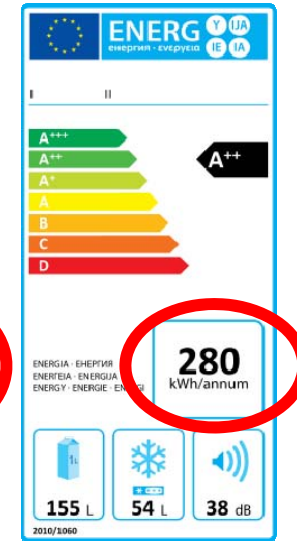
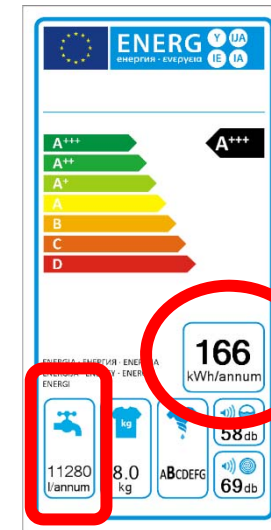
Co-funded by the Intelligent Energy Europe Programme of the European Union

How is the Energy Cost Indicator calculated?

1. Annual energy cost = yearly consumption in kWh according to the new energy label x electricity price applicable to Malta (€ 0.17)

2. Annual energy cost = kWh consumption *per cycle* of the old energy label x some usage patterns x electricity price applicable to Malta (€ 0.17)

+ water costs for washing machines, dishwashers, and washer-dryers.





Co-funded by the Intelligent Energy Europe Programme of the European Union

Some energy cost indicator examples

Fridge freezer
(352kWh)



Blomberg
KGM9690P WHT

A+

Energy Cost: € 61 / year



Co-funded by the Intelligent Energy Europe Programme of the European Union

Upright Freezer
(231kWh)



Bosch
GSN36VI30

Energy Cost: € 40 / year



Co-funded by the Intelligent Energy Europe Programme of the European Union

Tumble dryer (4 kWh/cycle)



Thinking 4 you
Electrolux
EDI97170W

B

Energy Cost: € 87 / year



Co-funded by the Intelligent Energy Europe Programme of the European Union

Washing machine 8 kg
(260 kWh,
14000 L / year)



Hotpoint Ariston
AQ113D 697EU/A

A+++

Energy Cost: € 45 / year
Water Cost: € 44 / year



Co-funded by the Intelligent Energy Europe Programme of the European Union

Dishwasher
(0.78 kWh/cycle)



Bosch
SPS50E32EU

Energy Cost: € 40 / year
Water Cost: € 8 / year



Co-funded by the Intelligent Energy Europe Programme of the European Union



Co-funded by the Intelligent Energy Europe Programme of the European Union

What makes the Energy Cost Indicator reliable?

1. Energy cost indicator only uses official data from the EU energy label;
2. energy cost information displayed in the shop are checked regularly;
3. all shops follow the same calculation methodology as explained before;
4. Watch out for this logo. It tells you that a shop is registered with us.





Co-funded by the Intelligent Energy Europe
Programme of the European Union

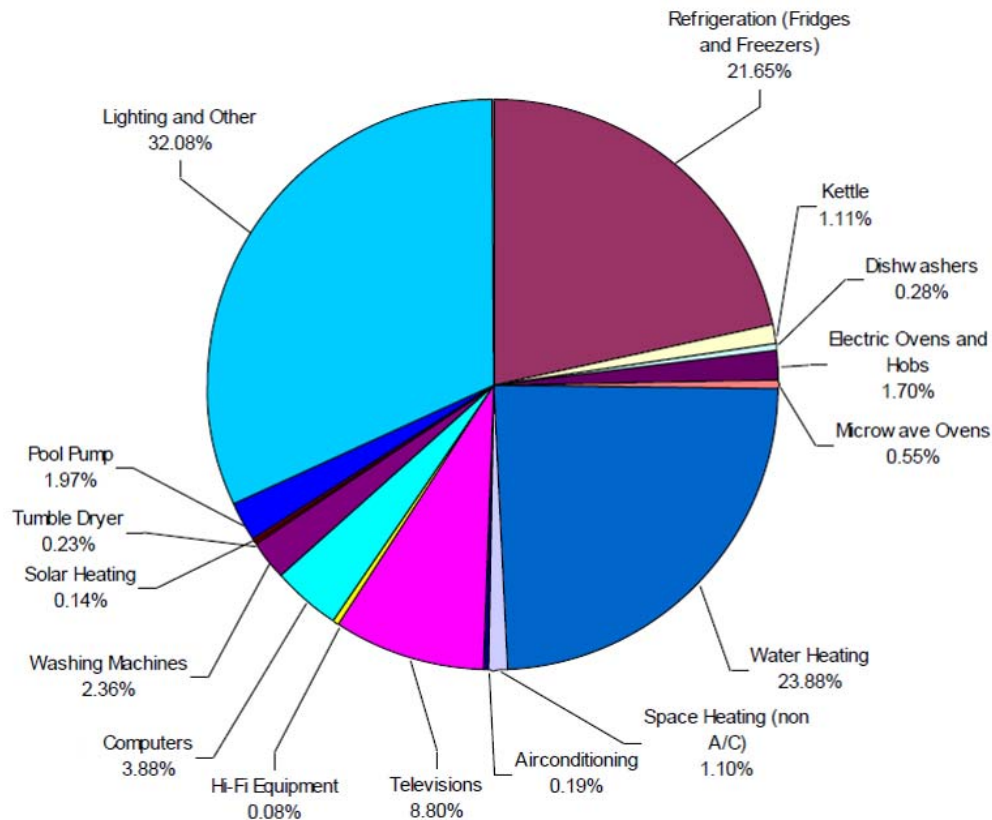
Participating retailers

- Oxford House, Mriehel
- Forestals, Mriehel
- Zanussi, San Gwann
- KNK, Naxxar
- ITC, Hamrun
- Ventura, Marsa
- B&M Supplies, Birkirkara

- More shops will join the initiative in the near future. Ask your favorite shop in your locality to join the project.



Average Consumption in a Maltese Household



≈11 units/day typical average consumption

Example: Refrigeration

Based on an average of 2 cold appliances per household, 440kWh per appliance.

A new A+ fridge-freezer consumes ca. 290 kWh

A new A+++ fridge consumes ca. 170 kWh

Source: NSO (2011), Note that this study was conducted during winter months



Old vs. New example: Refrigerator and Tumble Dryer

	Refrigerator (ca. 340l volume) B-class, 5-10 years old	New Refrigerator A+++ class (ca. 340 l volume)	Tumble Dryer (B energy class)	Tumble Dryer (A+ energy class heat pump)
Yearly energy consumption	440 kWh	170 kWh	493 kWh	258 kWh
Yearly energy costs*	€76	€29	€85	€44
5 years energy costs	€380	€145**	€425	€220***

*based on €0.173 per unit

**difference €235

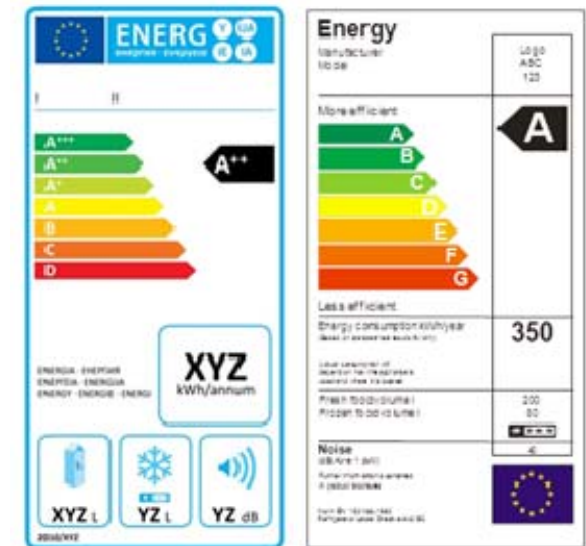
***difference €205



Co-funded by the Intelligent Energy Europe Programme of the European Union

Some things to keep in mind when shopping for a household appliance

- The EU energy label usually has 7 energy classes: A to G or A+++ to D; dark green = most efficient
- But not all of these classes can be found on the market anymore.
- **A+** is the least efficient category available for household refrigerators (excl. wine fridges)
- **A** is the least efficient category available for washing machines and dishwashers.
- Price differences are sometimes big because of product features (e.g. no-frost, aqua stop, etc.) and cannot be 'paid-back' by energy savings.
- To find the right appliance based your needs is just as important as energy efficiency. Example: Right size of a fridge, ca. 120l per person.





Co-funded by the Intelligent Energy Europe Programme of the European Union

Watch out for the energy cost indicator...



Hotpoint Ariston
AQ113D 697EU/A

A+++

Energy Cost: € 45 / year
Water Cost: € 44 / year



Co-funded by the Intelligent Energy Europe Programme of the European Union



Co-funded by the Intelligent Energy Europe
Programme of the European Union

Contact

Projects in Motion Ltd.

Stefan Schaa

stefan.schaa@pim.com.mt

Brian Restall

brian.restall@pim.com.mt

www.appliance-energy-costs.eu/mt

The sole responsibility for the content of this presentation lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the EACI nor the European Commission are responsible for any use that may be made of the information contained therein.