Naqqas u Ffranka EcoGozo Home visits Project

Luciano Mule'Stagno ISE Conference 2013







Naqqas u Ffranka

- Project conceived in 2010 between Institute for Sustainable Energy and MGOZ
- The plan was to attempt to visit every single household in Gozo and educate them on:
- Energy use
- Water use
- Waste disposal
- A questionnaire was designed to help us gather data on these areas in Gozo
- An information leaflet was also produced





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Promotion of Sustainable Energy, Water and Waste Management Practices in Gozitan Households

Energy conservation tips.

- In order of priority, the following are the best measures you can take to conserve energy in your home: insulation of roof; insulation of external single walls around shafts and internal yards; shading in summer; and night-time ventilation in summer. Double-glazing makes a marked effect only for homes that have several large windows/glass doors.
- When opting to change windows or doors, avoid using aluminum frames as they
 conduct heat fast. Opt for wooden or plastic-based products that have thermal
 breaks, to avoid heat losses.
- When buying new electrical appliances or lighting look out for an energy label and understand its content.
- Choose a refrigerator that suits your needs and locate it away from heat sources.
 Defrost regularly excessive frost and check door seals periodically.
- For dishwashers and washing machines use washing programmes having the lowest temperature setting. Avoid using too much detergent to avoid the need to re-rinse clothes or dishes.
- Use the right-sized cooking utensil (pot, pan, etc.) for the burner in use. Cover pots and pans when cooking. Lower the heat once liquids start boiling.
- A correctly-sized air conditioner will work only when needed and maintain conditions at the desired temperature and humidity levels. Install the outside unit in the shade making sure that the air flow around it is not obstructed.
- Avoid heat- and humidity-generating activities and devices indoors as these will increase the cooling / dehumidification load.
- Appliances on 'Standby' consume power. Wherever possible switch off or unplug such devices.
- Energy saving lights may cost more than other lamps, but eventually you will be saving more because they last longer consume less energy.
- You do not have to light up the entire work space if you are working in just a small area.

Water saving tips.

- Never put water down the drain when there may be another use for it such as watering a plant or garden.
- Verify that your home is leak-free. Read your water meter before and after a twohour period when no water is being used. If the meter does not read exactly the same, there is a leak.
- Reduce your flow. If you have a pump-delivery water system, install plastic restrictors (like buttons) in your water taps to reduce water flow by 20%.
- Use your well ... for toilet flushing, for the washing machine and for washing the car and floors. Do not drink or use well water for showers, baths, and wash-hand basins unless it is appropriately treated.

In the bathroom.

- If your toilet is a standard 9-litre toilet, place a bottle filled with water / specialised bags in your toilet tank to cut down on the amount of water used for each flush: 3.5 litres can be saved with each flush.
- Put food colouring in your toilet tank. If you see the colour into the toilet bowl, you
 have a leak. It's easy to fix, and you can save more than 2200 litres a month.
- If your shower can fill a 10-litre bucket in less than 1 minute, then replace it with a water-efficient showerhead. It can save you more than 1500 litres a week. Keep your shower to under 5 minutes. You will save up to 4000 litres a month.
- Keep a bucket in the shower to catch water as it warms up or runs. Use this water to flush toilets or water plants
- Turn the water off while you shampoo, brush your teeth, shave, etc.

In the kitchen.

- Collect the water you use for rinsing vegetables and fruit and reuse it to water houseplants.
- . Do not use running water to thaw food.
- Consider installing an instant water heater on your kitchen sink so you don't have
 to let the water run while it heats up. If you have a domestic reverse osmosis unit
 for drinking water, make sure the reject pipe is run into a cistern or the roof tank.
 A standard domestic RO unit wastes 85% of the water.



L. Mule'Stagno ISE Conference 2013

Eco-Gozo Home Visits - NAQQAS U FFRANKA

Questionnaire

1.	Which of the f	ollowing actions co-	uld improve the quality of life	in Gozo in line with			
the	Eco-Gozo conce	ept (tick where appl	icable)?				
Impi	roving energy e	fficiency and reducir	ng electrical consumption at do	mestic and industria			
leve	els						
Easis	ng traffic conge	821000					
Insta	elling a large wir	nd farm onshore or	offshore				
Insta	alling more sola	r water heating syst	ems on dwellings	-			
insta	alling more sola	500 10000					
Othe	er						
2.	Do you own a solar water heater? Are you satisfied with its performance?						
	Yes.	No	YesNo				
	If NO – have you considered one?						
	Yes	No					
3.	Do you own a PV System? Are you satisfied with its performance?						
, and	Do you gwn	a PV System? Are	you satisfied with its performa	nce?			
also .		a PV System? Are y	you satisfied with its performa YesNo	nce?			
**	Yes.	11	YesNo	nce?			
	Yes. If NO – have	No	YesNo	nce?			
4.	Yes. If NO – have Yes	No you considered one	YesNo e?	nce?			
4.	Yes. If NO – have Yes	No you considered on No	YesNo e?	nce?			
4. shad	Yes. If NO – have Yes. Have you in	No you considered on No	YesNo e?	nce?			
4. shac shac insu	Yes. If NO – have Yes. Have you let ling on roof ling on walls lation to roof	No you considered on No	YesNo e?	nce?			
4. shac shac insu	Yes. If NO – have Yes. Have you in sing on roof sing on walls lation to roof lation to walls	No you considered on No	YesNo e?	nce?			
4. shac insu doui	Yes. If NO – have Yes. Have you let ling on roof ling on walls lation to roof	No you considered on No	YesNo e?	nce?			

years?	
Yes	No
6. What is your drin	iking water source in your home (tick where applicable):
well water	
town (mains) water	
RO water	
Filtered water	
battled water (1 or 2-litre	e bottles)
19-litre returnable conta	iners
7. Does your house	have a rainwater cistern (bir)?
Yes	No
NO THE STATE OF TH	projecte modestate in stream to a
8. What is it used fo	or (tick where applicable)?
8. What is it used fo	projecte modestate in stream to a
8. What is it used fo Gardening flushing of toilets	or (tick where applicable)?
8. What is it used fo Gardening flushing of toilets showers and beths	or (tick where applicable)?
What is it used for Gardening flushing of toilets showers and baths washing machine	or (tick where applicable)?
What is it used for Gardening flushing of toilets abswers and baths washing machine kitchen	or (tick where applicable)?
8. What is it used to Gardening flushing of toilets showers and boths woshing machine kitshen drinking	or (tick where applicable)?
8. What is it used for Gardening flushing of toilets showers and beths weaking mechine kitchen drinking cooking	or (tick where applicable)?
8. What is it used for Gardening flushing of toilets showers and beths washing machine kitchen drinking cooking washing (floors, car, etc)	or (tick where applicable)?
8. What is it used for Gardening of toilets showers and beths washing machine kitchen drinking cooking washing (floors, car, etc)	or (tick where applicable)?
8. What is it used for Gardening flushing of toilets allowers and boths washing machine kitchen drinking cooking washing (floors, car, etc) exerything	or (tick where applicable)?





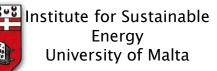
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- Some 28 trainers were trained in these areas by ISE and external staff.
- Training consisted of 40 hours of instruction followed by an exam and renewable energy, water and energy conservation, resource management and communications.
- Original plan, based on the 2011 electoral registry identified just over 9000 residences

		Estimated Time Required for Visits Weeks	
Locality	Number of Households		
		Total	%
		100%	70
Rabat	1952	5.4	20.8
Nadur	1257	3.5	13.4
Xaghra	1201	3.3	12.8
Xewkija	1025	2.9	10.9
Ghajnsielem	651	1.8	6.9
Zebbug	556	1.8	5.9
Sannat	515	1.5	5.5
Qala	507	1.5	5.4
Kercem	506	1.5	5.4
Gharb	358	1.0	3.8
Fontana	269	0.8	2.9
Munxar	259	0.8	2.8
San Lawrenz	178	0.5	1.9
Ghasri	141	0.5	1.5
Total	9375	26.8	100.0
Plus Contingency	Karrana	29.5	







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Results

- Over 9000 households and small businesses were visited in 12 months.
- Feedback was overwhelmingly positive
- Questionnaires from every visit were gathered and are being analyzed – results should give us an accurate picture of energy/water habits and perceptions of Gozitans.



