



Twinning Project IL/11

Implementation and Strengthening the Environmental Framework for
IPPC, Resource Efficiency and Eco-Management in Israel



Energy Management Beverage Sector

Workshop Manufacturer Association Israel
Tel Aviv, March 14 th 2017

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Energy & Social Responsibility
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UK



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Energy, Environment and
Sustainable Development
Germany



Contribution to the Agenda ,Beverage Industry‘ (MAI)

10:00 Osnat Avital (MAI)

10:05 Horizontal Energy Management Guidance (‘mini‘ EnMS)

10:20 EnMS - Implementation Tool

10:35 EnMS –Self Assessment Tool –as internal Audit
(Save costs and external administrative efforts)

10:35 Discussion

10:50 Break

11:10 Vertical Guidance on Beverage Industry (Practical Example)

11:30 Interactive Application on Beverage Industry and Discussion

11:50 Final Discussion and Conclusion

12:00 Finish of contribution to the MAI Workshop





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Assess
your
system

Level	Energy Policy	Organising	Training	Performance Measurement	Communication	Investment
4	Energy Policy, Action Plan and regular reviews have active commitment of top management	Fully integrated into senior management structure with clear accountability for energy consumption	Appropriate and comprehensive staff training tailored to identified needs, with evaluation	Comprehensive performance measurement against targets with effective management reporting	Extensive communication of energy issues within and outside of organisation	Resources routinely committed to energy efficiency in support of organisational objectives
3	Formal policy but no active commitment from top management	Clear line management accountability for consumption and responsibility for improvement	Energy training targeted at major users following training needs analysis	Weekly performance measurement for each process, unit, or building	Regular staff briefings, performance reporting and energy promotion	Some appraisal criteria used for energy efficiency as for other cost reduction projects
2	Un-adopted policy	Some delegation of responsibility but line management and authority unclear	Ad-hoc internal training for selected people as required	Monthly monitoring by fuel type	Some use of organisational communication mechanisms to promote energy efficiency	Low or medium cost measures considered if short payback period
1	An unwritten set of guidelines	Informal, mostly focused on energy supply	Technical staff occasionally attend specialist courses	Invoice checking only	Ad-hoc informal contacts used to promote energy efficiency	Only low or no cost measures taken
0	No explicit energy policy	No delegation of responsibility for managing energy	No energy related staff training provided	No measurement of energy costs or consumptions	No communication or promotion of energy issues	No investment in improving energy efficiency



Input Score	0	1	1	1	0/1	0/1
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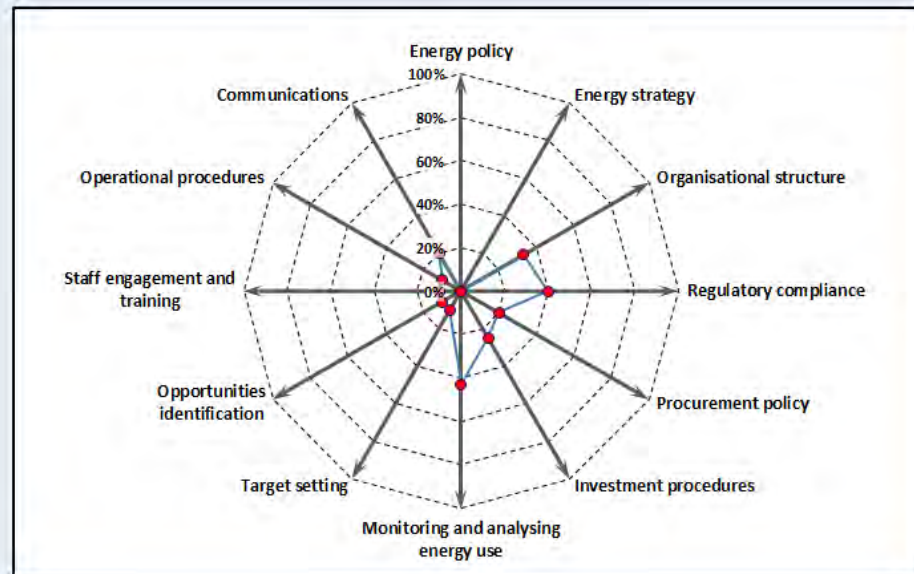


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Start to assess your organization

Characteristic	Score		% score
	Actual	Max	
Management Commitment	4	32	13%
<i>Energy policy</i>	0	10	0%
<i>Energy strategy</i>	0	10	0%
<i>Organisational structure</i>	4	12	33%
Regulatory Compliance	4	10	40%
<i>Regulatory compliance</i>	4	10	40%
Procurement and Investment	5	22	23%
<i>Procurement policy</i>	2	10	20%
<i>Investment procedures</i>	3	12	25%
Information & Identifying Opportunities	8	34	24%
<i>Monitoring and analysing energy use</i>	6	14	43%
<i>Target setting</i>	1	10	10%
<i>Opportunities identification</i>	1	10	10%
Culture & Communications	4	30	13%
<i>Staff engagement and training</i>	1	10	10%
<i>Operational procedures</i>	1	10	10%
<i>Communications</i>	2	10	20%
GRAND TOTAL	25	128	20%

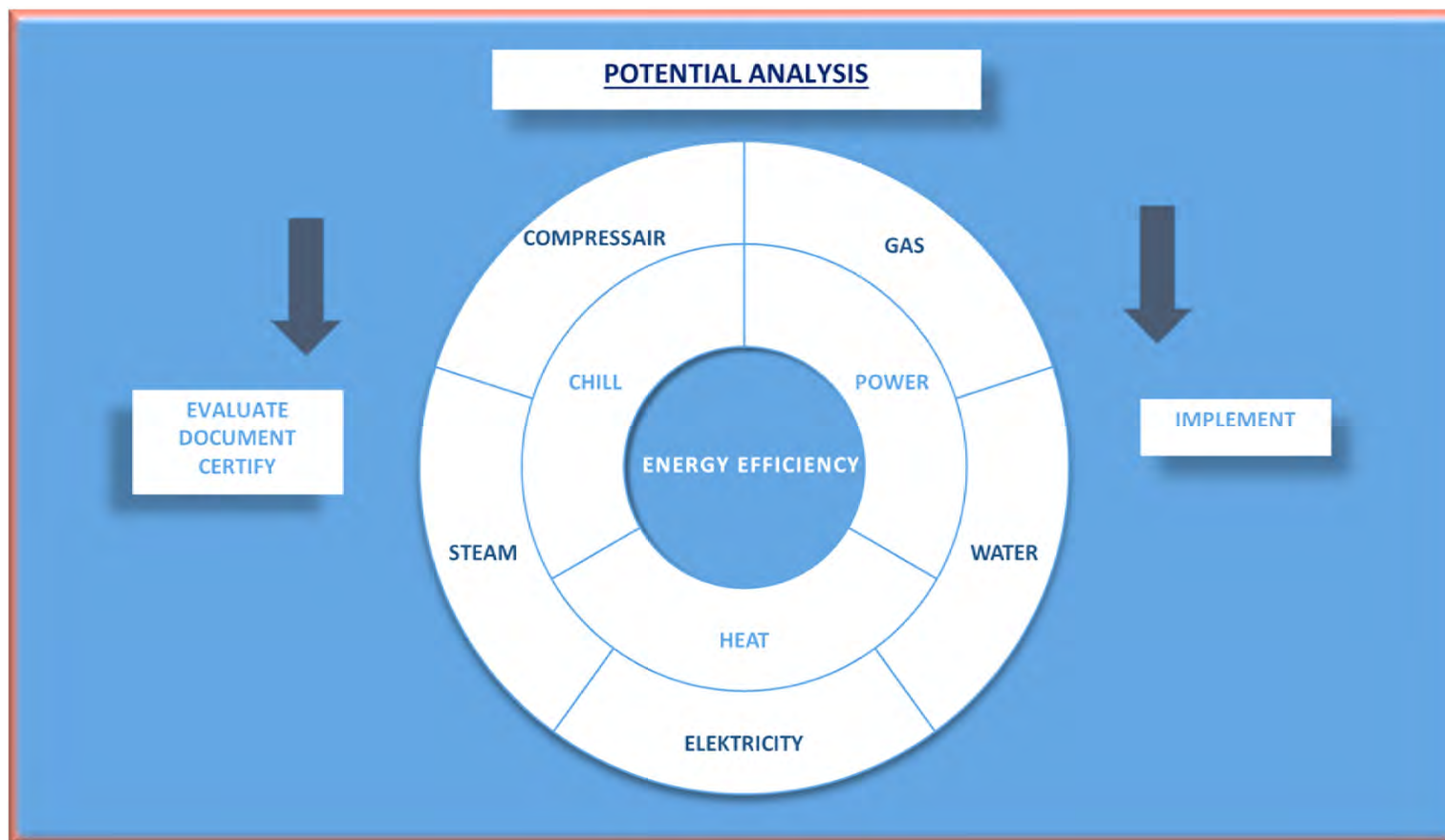


Organisation:	JOPOSAN
Date completed:	Mittwoch, 12. März 2014
By:	Rainer Feld



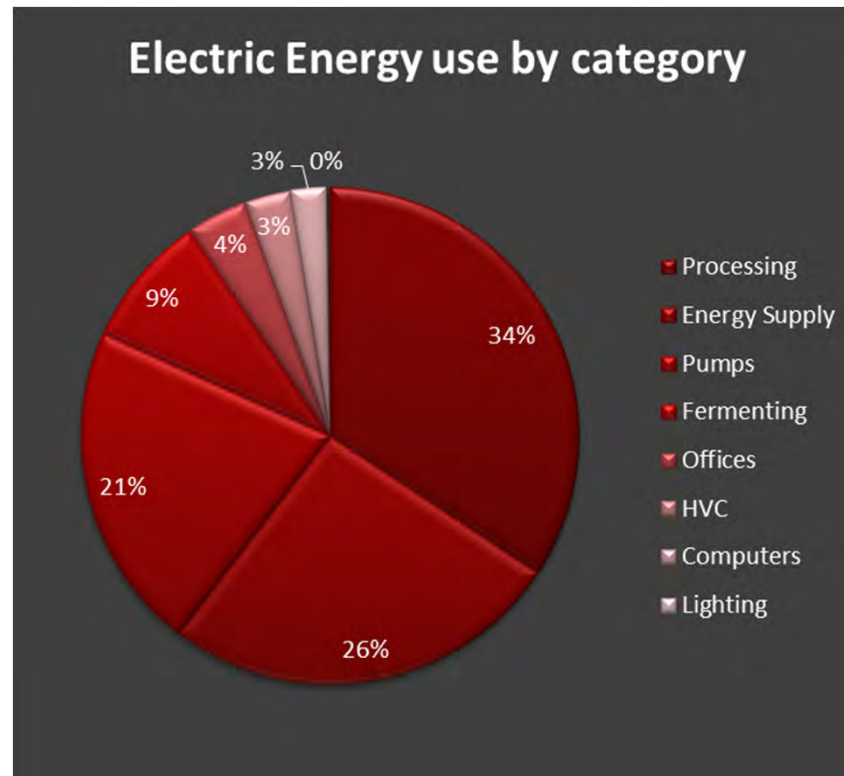


The potential analysis process in a Mini - EnMS





In the Potential Analysis Pumps were found to use 21% of Electric Energy





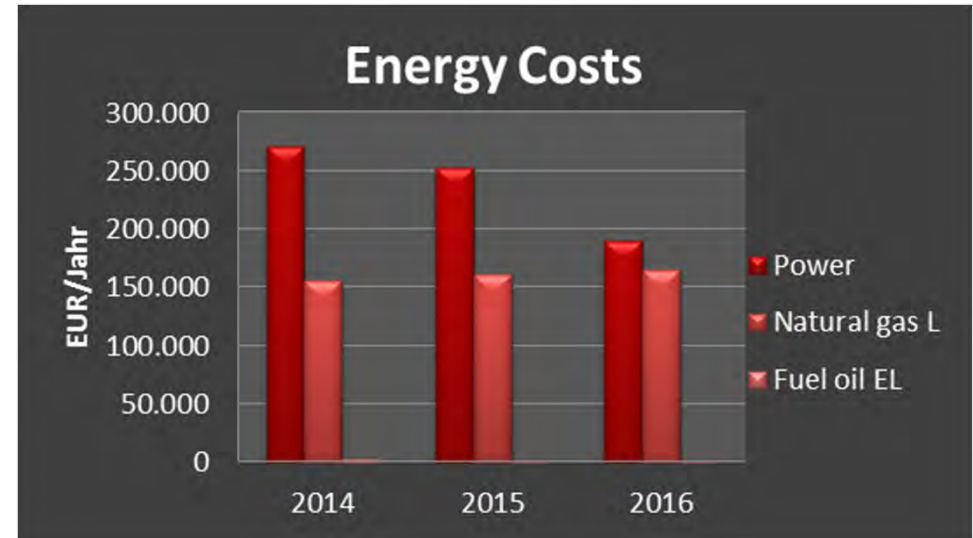
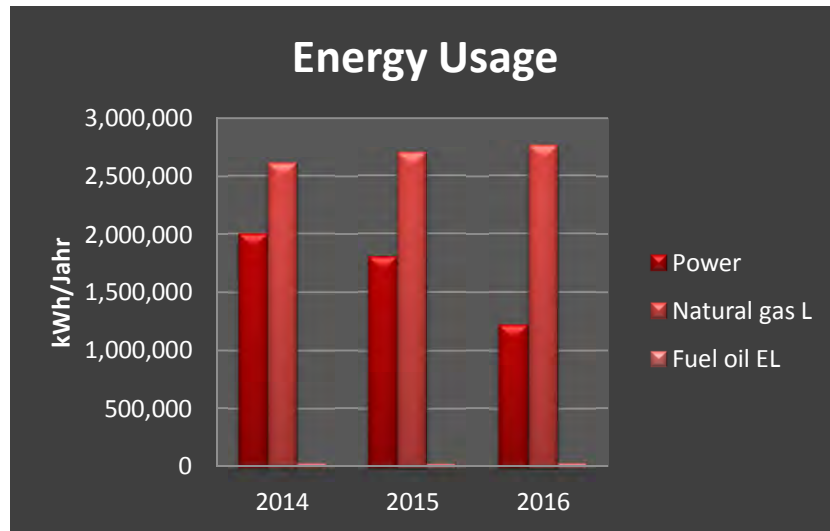
Replacing pumps was found to have highest priority

- **Priority A:** Significant energy use – important cost savings – ROI < 1 year
- **Priority B:** significant cost savings – ROI < 1 year
- **Priority C:** Significant energy use – important cost savings – ROI < 3 year
- **Priority D** Significant energy use – expected cost savings that improve cash flow

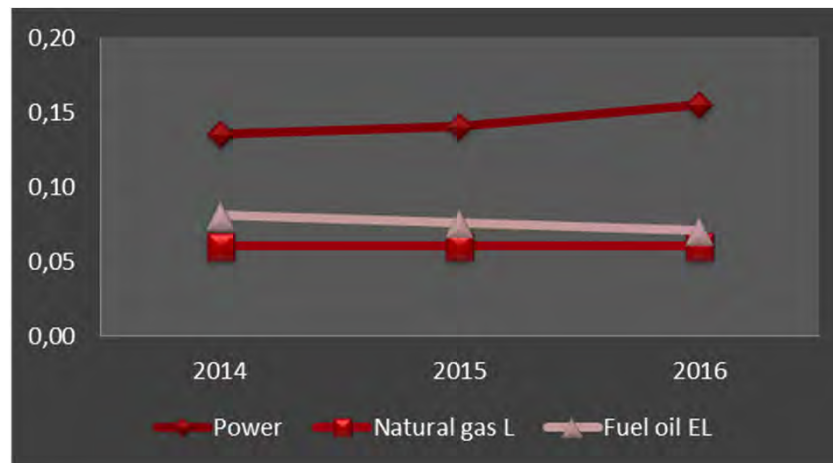




Replacing pumps led to decrease of energy consumption and less cost



With rising costs for
Electric Energy





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Assesse the
 Sytem again after
 Implementation

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Input Score	3	2/3	2/3	2	1	3/4
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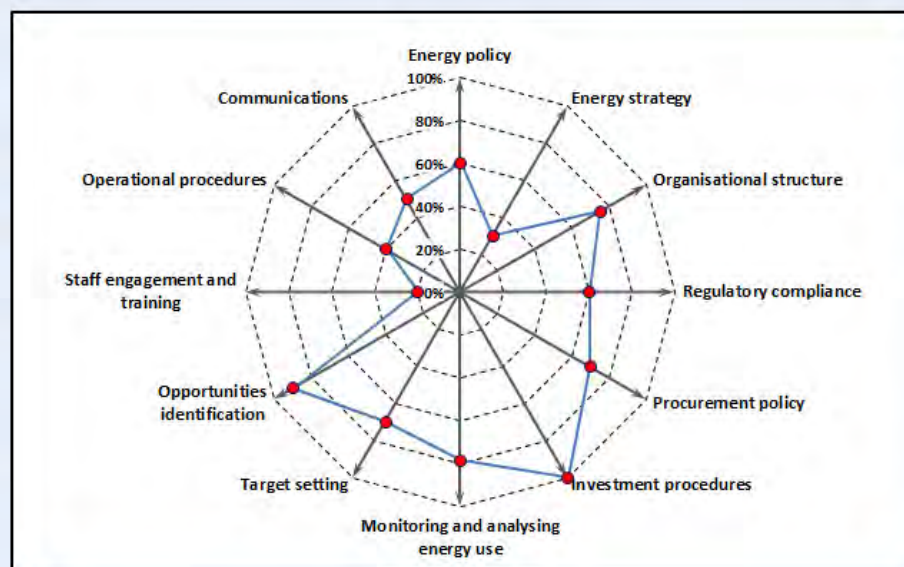


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Assess your organization after Implementation

Characteristic	Score		% score
	Actual	Max	
Management Commitment	18	32	56%
Energy policy	6	10	60%
Energy strategy	3	10	30%
Organisational structure	9	12	75%
Regulatory Compliance	6	10	60%
Regulatory compliance	6	10	60%
Procurement and Investment	19	22	86%
Procurement policy	7	10	70%
Investment procedures	12	12	100%
Information & Identifying Opportunities	27	34	79%
Monitoring and analysing energy use	11	14	79%
Target setting	7	10	70%
Opportunities identification	9	10	90%
Culture & Communications	11	30	37%
Staff engagement and training	2	10	20%
Operational procedures	4	10	40%
Communications	5	10	50%
GRAND TOTAL	81	128	63%



Organisation:	JOPOSAN
Date completed:	Dienstag, 14. März 2017
By:	Rainer Feld





Conclusion

- The mini Energy Management helps Hotels to reduce costs
- It helps to implement energy efficiency measures
- It is the basics for an energy audit (EN 16247)
- And can be expanded to an EnMS according to ISO 50001
- However for many organisation a mini EnMS will be sufficient

