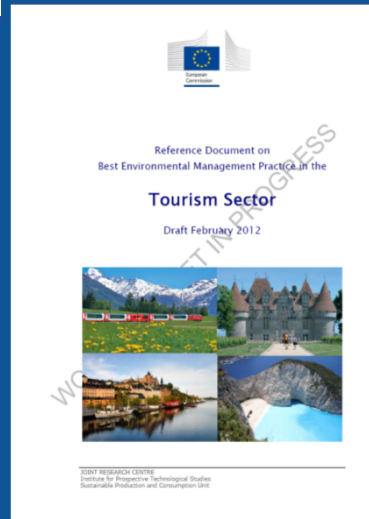




Environmental performance & benchmarking in the tourism sector: technologies, best practices and indicators

David Styles, Harald Schoenberger, José Luis Galvez (Sustainable Production and Consumption Unit, JRC-IPTS)



Tourism best environmental management practice

1

EMAS Regulation (EMAS III)

Article 46(1) of EC No 1221/2009

Development of reference documents and guides

1. The Commission shall, in consultation with Member States and other stakeholders, develop **sectoral reference documents** that shall include:
 - a) **best environmental management practice**
 - b) environmental performance **indicators for specific sectors**
 - c) where appropriate, **benchmarks of excellence** and rating systems identifying performance levels.



Sectoral reference documents (SRDs)

- SRDs are **technical** documents
- Focus on quantitative indicators and best practice (what is possible)
- **Benchmarks of excellence** = best achievable performance
- Applicable to all organisations (not just for EMAS ones)
- Collate data from industry and experts

3

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Process level best practice descriptions

- Description
 - Achieved environmental benefit
 - Environmental indicators
 - Cross-media effects
 - Operational data
 - Applicability
 - Economics
 - Driving force for implementation
 - Reference organisations
 - Reference literature
- > 36 key processes described in SRD**

Standard format

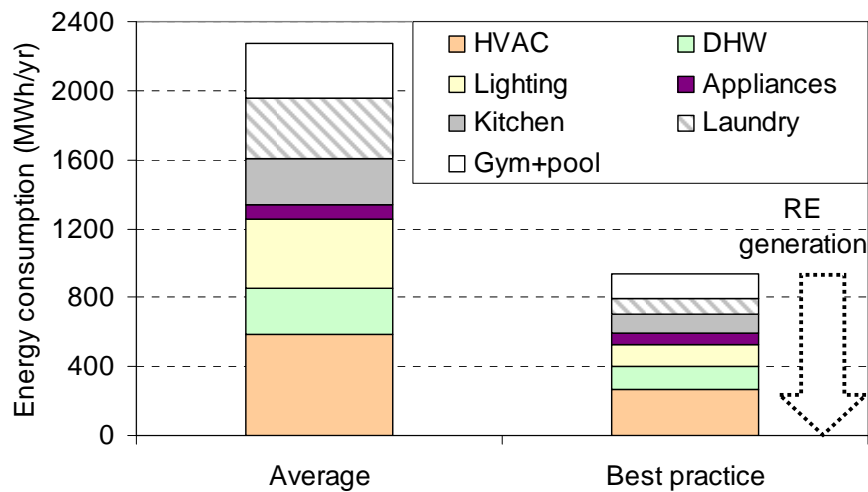
4

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Indicators and benchmarks: energy e.g.



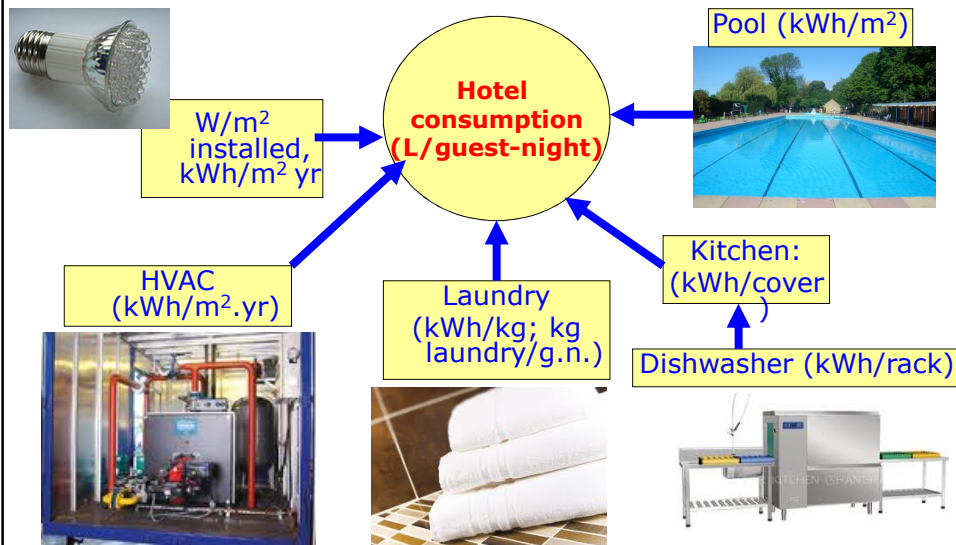
5

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Indicators and benchmarks: energy e.g.



6

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Process level benchmarks: energy e.g.

- the rated energy performance of new buildings conforms with Minergie P or PassiveHouse standards;
- installed lighting capacity $<10 \text{ W per m}^2$ or lighting electricity consumption $<25 \text{ kWh/m}^2\text{yr}$ (heated and cooled floor area);
- total process energy consumption for dried and finished laundry products $\leq 0.90 \text{ kWh per kg textile}$ for accommodation laundry and $\leq 1.45 \text{ kWh per kg textile}$ for restaurant laundry...

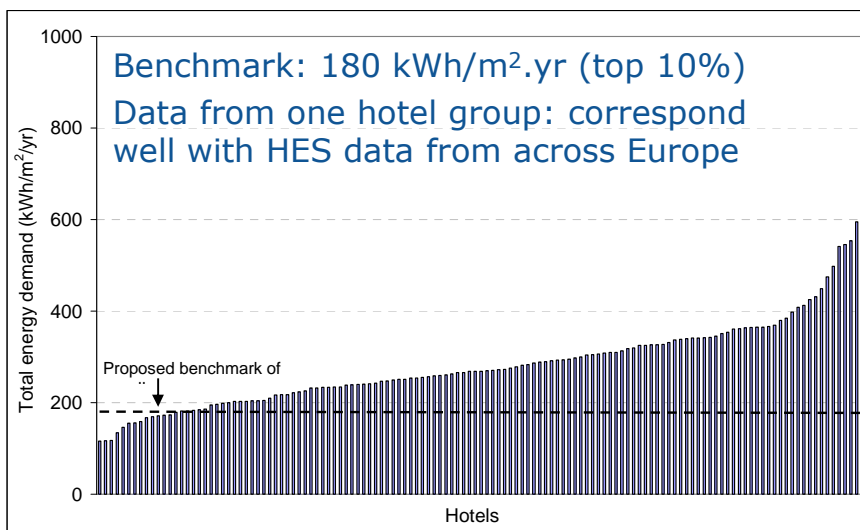
7

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Enterprise level benchmarks: energy e.g.



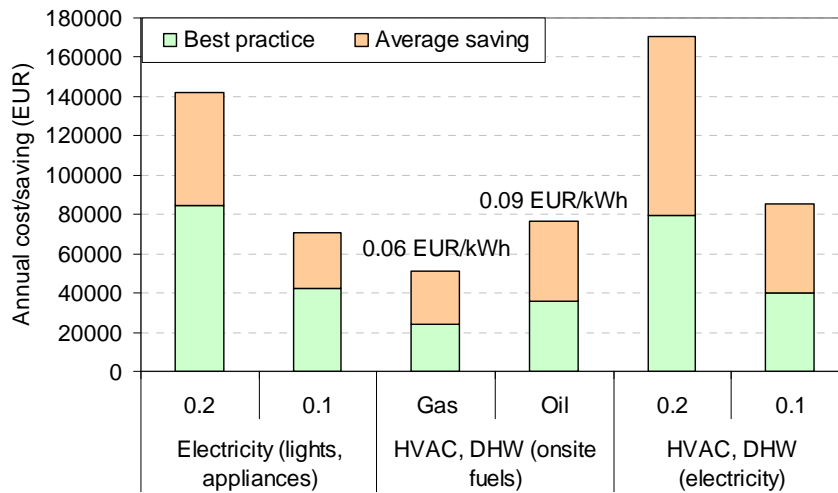
8

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Economics assessed



9

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SRD progress



Second draft can be
downloaded from:

<http://susproc.jrc.ec.europa.eu/activities/emas/tourism.html>

Final draft due end of May

10

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