

Sustainable Water Use in the Hospitality Industry
The Roles and Responsibilities of the Designer and the Operator

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**Hospitality
Solutions**





INTRODUCTION

Hospitality: the act or practice of being hospitable, that is, the reception and entertainment of guests, visitors, or strangers, with **liberality** and goodwill.

Sustainability: In its broad sense it is the capacity to endure.

Contradictions in Terms?



WATER

2.5%
of the Earth's water is potable.

70%
is frozen.

30%
is subsurface.

0.007% - 0.009%
left that is usable for people.



IMPACT

Water Consumption The Hospitality Industry is one of the major users or consumers of water. On a per capita (per guest) rate it is among the highest users of water.

Complex The water used by the guests directly is only about 10% of the total used by hotels. The majority is used for cleaning, laundry, landscaping, cooling, leakage etc.

Interconnected Water use is directly or indirectly related to power consumption as well as to maintenance costs, building costs, facility life expectancy etc.

Guest Expectations Hospitality is a concept that is deeply rooted in every major culture. Expectations are high. **Can they be met or do they need to be changed?**



MIND SET IDEAL WORLD VS. REAL WORLD

Unlimited water supply

vs.

Limited water supply

Even distribution of water sources

vs.

Extremely uneven distribution of water sources

Consistent supply of water

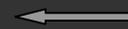
vs.

Inconsistent supply of water

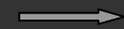


ROLES

Designer



partnership



Operator

Translate Brand standards into an operationally feasible project.

Design, create, innovate.
Develop new ways of thinking about what is being designed.

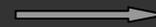
Operate hotels to maximum profit and potential.

Develop new ways of thinking about hospitality.



RESPONSIBILITIES

Awareness

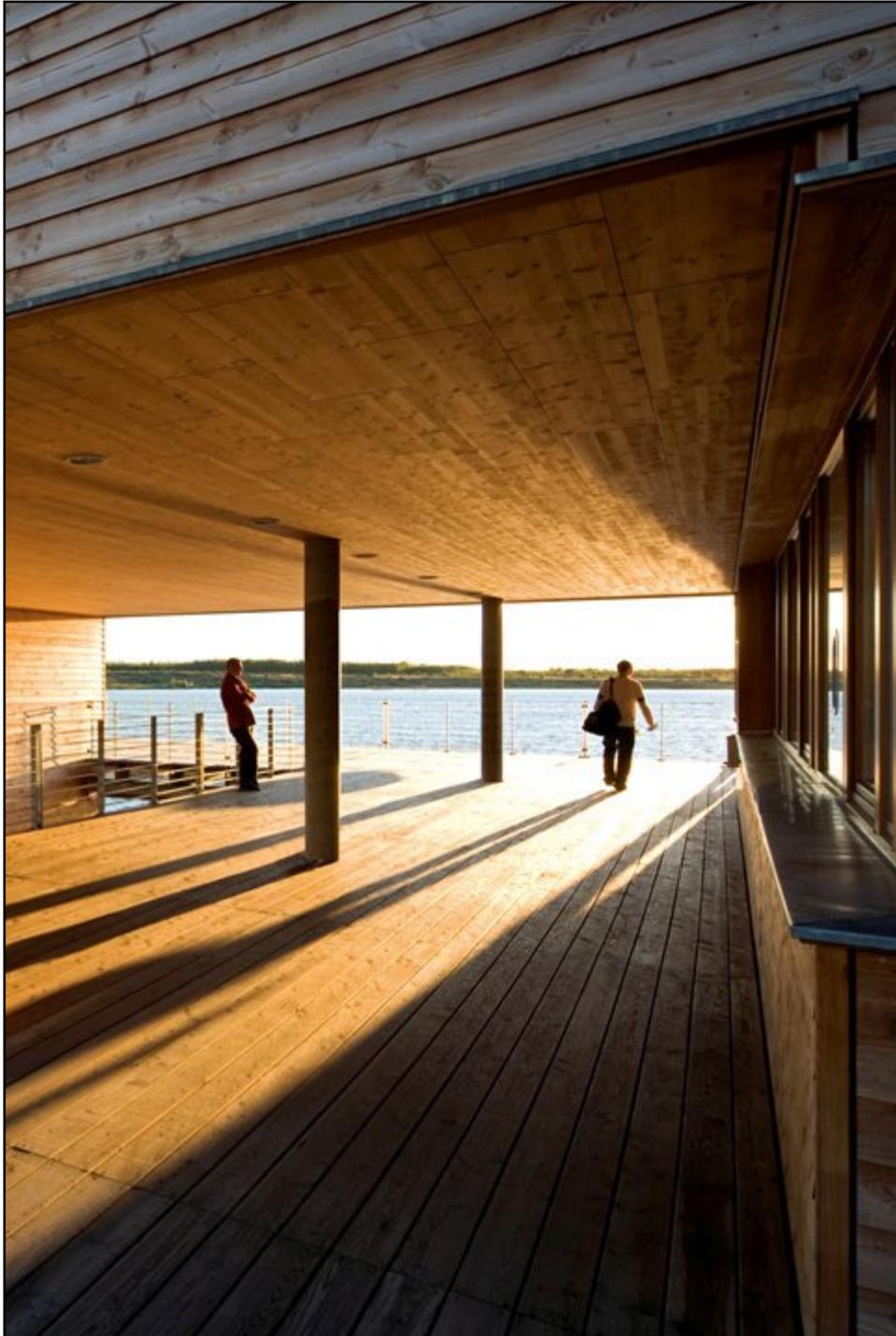


Impact:
Financial
Social
Environmental

Education

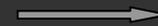


Public / Guests
Staff (Training)
Consultants
Authorities



APPROACHES

Reduce



Contradicts guest expectations. Change expectations or find other solutions.

Reuse



Current possibilities are limited. Closed loop solutions still very expensive.

Recycle



Requires large scale, public systems similar to those for recycling other resources.

IMPLEMENTATION

RKW is one of the founding members of the DGNB.

DGNB Deutsche Gesellschaft für Nachhaltiges Bauen (German Sustainable Building Council). The focus of the DGNB is on awarding the certification for sustainable building.

Certification by the DGNB is based on a 3-pillared system rather than on a point system. Thereby weakness in one area cannot be compensated by strength in others. The result is balanced and comprehensive.



Ecological Quality 22,5 %	Economic Quality 22,5 %	Socio-cultural and Functional Quality 22,5 %
	Technical Quality 22,5 %	
	Process Quality 10 %	
Site Quality separate analysis		

IMPLEMENTATION

Goal to encourage innovation by measuring the achievement of goals rather than the fulfilment of items from a check list.

600 + Members from the construction industry, including architects, engineers, developers, contractors, suppliers, investors, scientists etc. since its founding in 2007.



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Die Kunst, das Morgen zu denken.

Helmut Rhode

The Art, to think the tomorrow.

Helmut Rhode



Our century started with curiosity. In the building arts – as in all the arts – doors were opened and works created that will be valid far beyond our century...

But I am again curious if the classical view points for sensible construction will gain credence once more:

- Simple solutions for complex problems.
- Careful use of materials, work force, construction and operating costs.
- Harmony and resonance of the individual parts with the whole.





SOME HELPFUL REFERENCES

RKW website: www.rkw-as.de

DGNB website: www.dgnb.de

Environmental Management in the Hospitality Industry

Kathryn Webster

http://www.economicallysound.com/is_your_fresh_water_at_risk.html