



Almedalsbibloteket

The new library in the World Heritage city of Visby

Eubart Workshop in Athens 2004-10-15

Bertil Klintbom



The new library in the World Heritage City of Visby



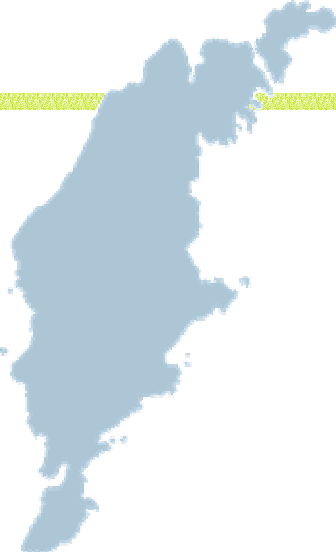


Photo looking towards the University of Gotland



2000-09-29



**RENEWABLE ENERGY
FOR EUROPE**
Campaign for Take-Off



MUNICIPALITY OF
GOTLAND

www.gotland.se/cto



Completed building at night



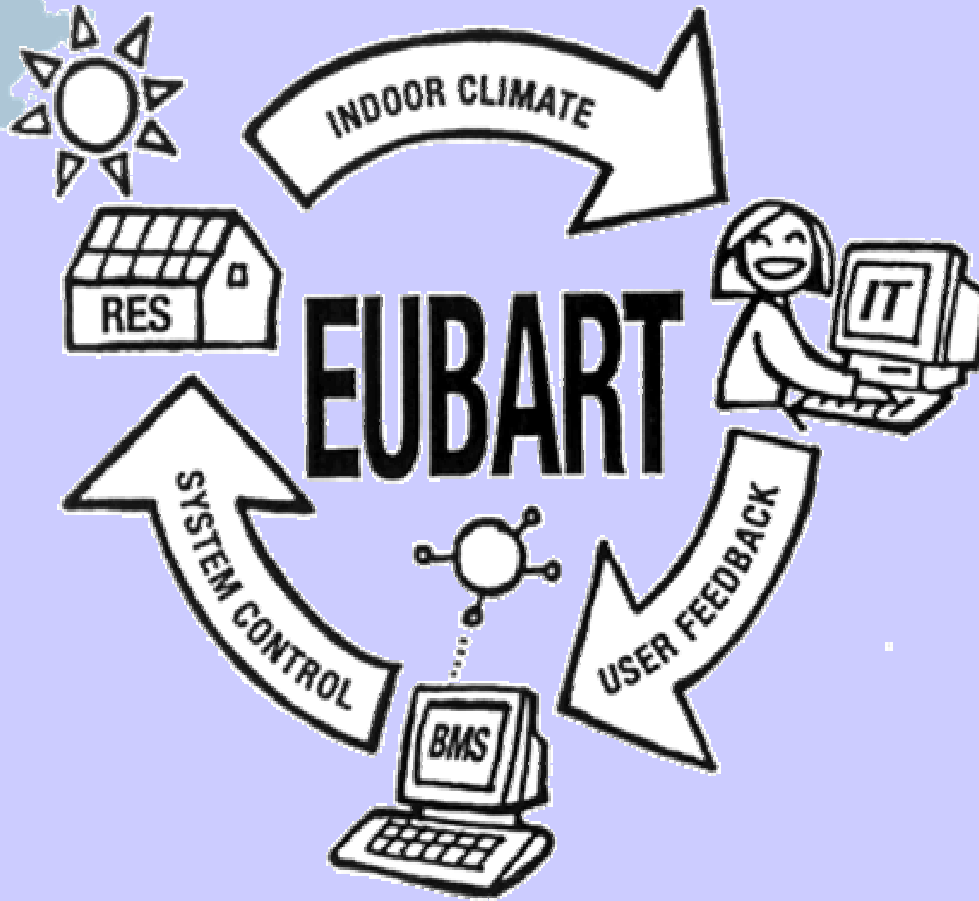
Challenges for the project

During the planning stage a demanding "Quality, Energy and Environmental plan" had been agreed between the Municipality and the University of Gotland.

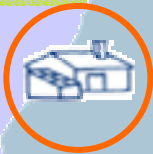
"The building should reflect the high ambitions that both parts are committed to"

"With the new library the borders should be moved forward"

How to achieve this???

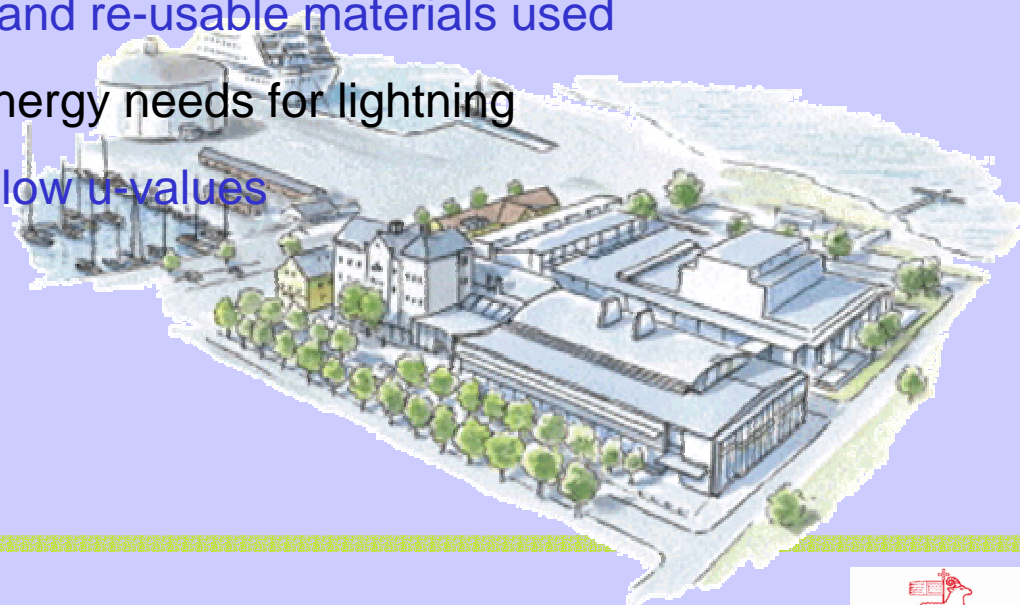
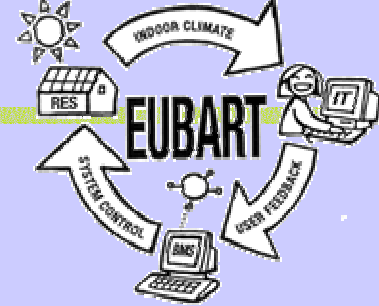


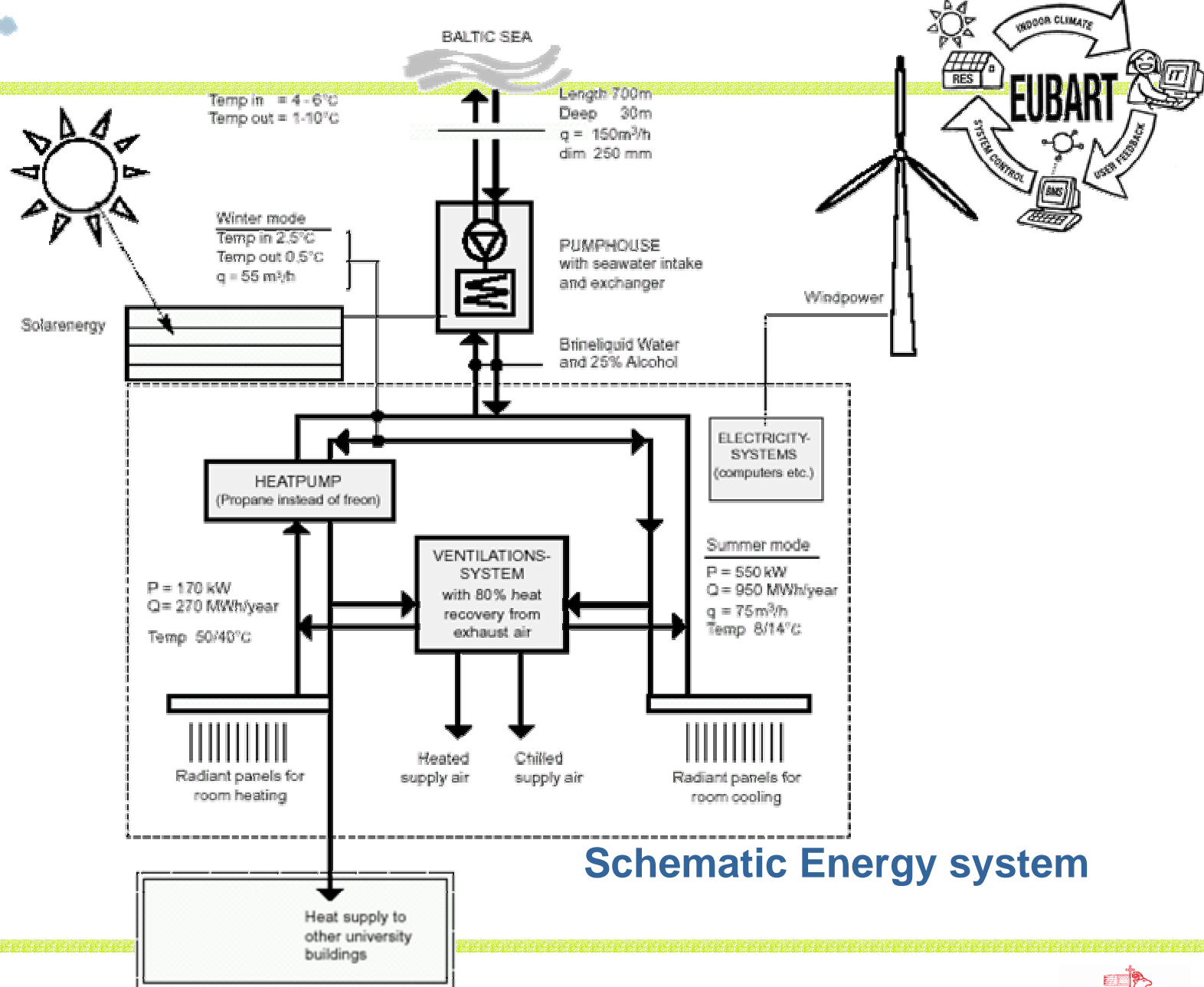
- User satisfaction
- Increased energy-efficiency
- Increased use of renewables



Energy solutions

- Seawater based cooling
- Seawater based heating
- Heat export to other buildings on Campus
- 50 m2 photo voltaic for production of electricity primarily for cooling
- Energy efficient, effective and re-usable materials used
- Daylight used to reduce energy needs for lightning
- High efficient glazing with low u-values



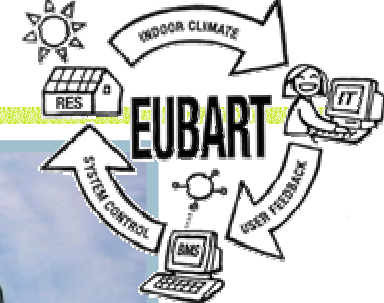


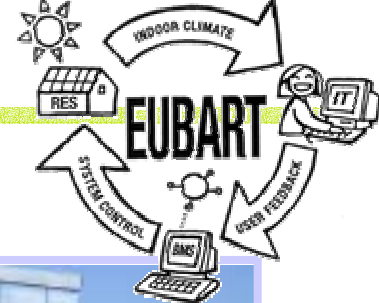
Schematic Energy system





Construction of sea water system





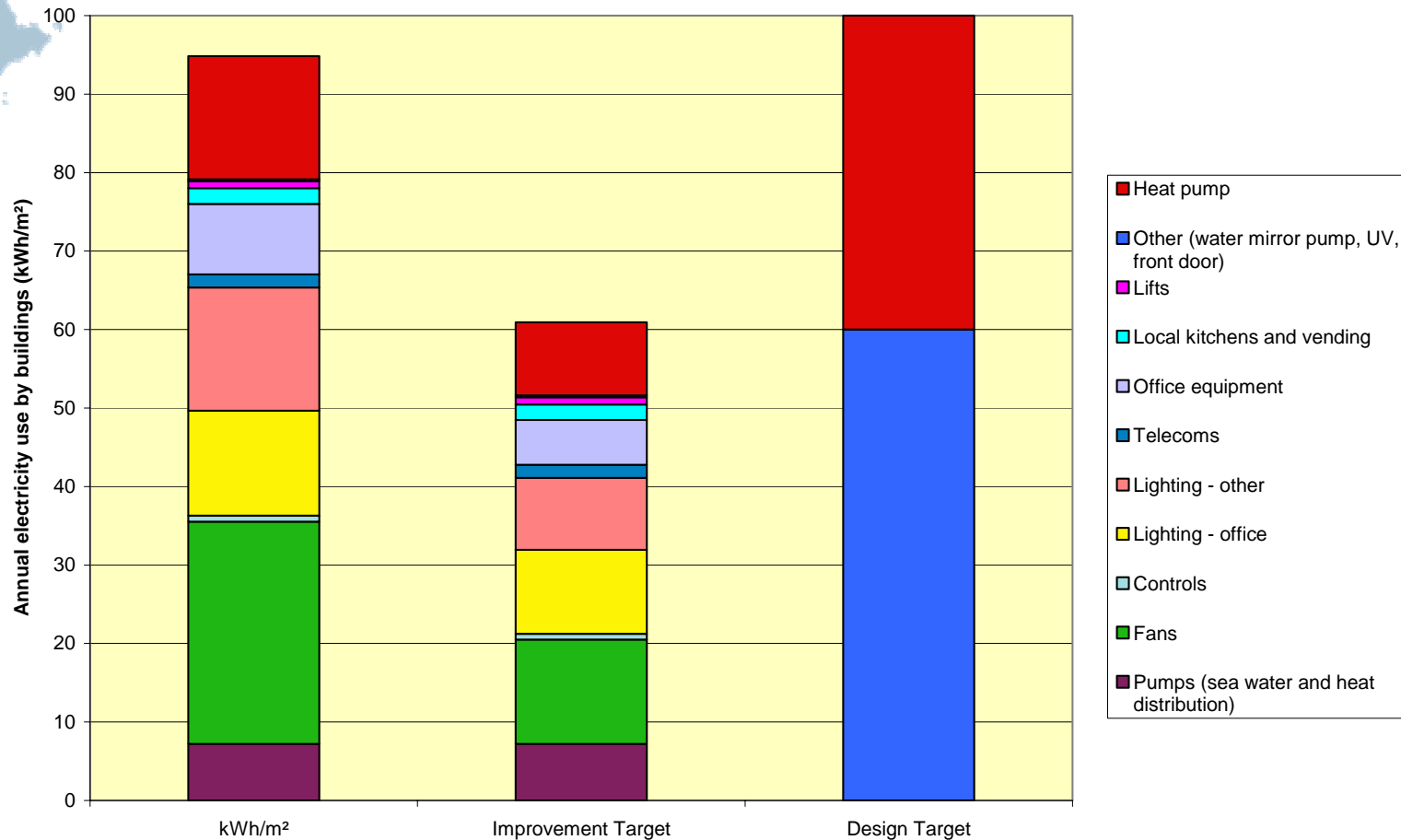
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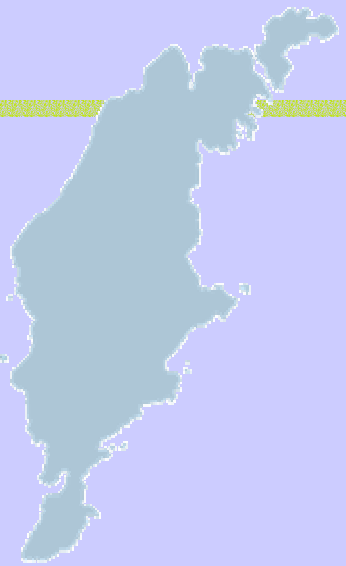
27 meters below....



Results and Energy saving potential

Final evaluation





**Thank you for your attention !
Welcome to Gotland!**

**For more information logon to
www.eubart.se**