

## **Example name:**



SolTech has an energy capacity of 400 kWh per square meter absorber during year period.

Γ



Stage of Development:		Responsible: Sol Tech Energy (www.soltechenergy.com)
00000	Idea/Patent Prototype Demonstration Integral building element Commercially available	
BISTS description and context		
Public (Älta Elementary school) 3 floors, traditional form building.		
<b>System viability:</b> SolTech Energy has received an order worth 1.2 million kronor from Nacka municipality for a solar energy system that generates both thermal heat and electricity. System to be installed at Dwell on school outside Stockholm is 160 sqm.		
By combining SolTechs thermal solar energy systems with traditional photovoltaic technology, an efficient hybrid solution that provides both electricity and heat. The electricity-generating part of the system produces on an annual basis the same amount of electricity that is used to power pumps, control / regulation technology etc. This creates an energy neutral system!		
System's thermal energy component, coupled with the school's heating system for heating and hot water production.		



## Modelling and simulation tools developed/used

## **BISTS Performance data**

Based on:

- Estimation
- O Detailed simulation
- O Measurement/testing
- O Long-term monitoring

## **Performance parameters**

For integrated systems: key performance indicators -

Solar savings fraction: % Light transmittance: % Solar transmittance: % Total solar energy transmittance: %: Solar heat gain factor: % Building fabric U-values: W/m<sup>2</sup>K Noise, fire, etc ratings Other:

For separate collectors: performance rating coefficients -(EN12975, a0,a1,a2), ASHRAE, etc

Other:



Additional information:

Sources and references:

http://soltechenergy.se