

Sustainable Järva! 2010-2014

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Stockholms
stad



Akalla

Järva

- Built in 1966-1980
- 60.000 inhabitants
- 25.400 apartments
- 700 private houses + 221 row houses

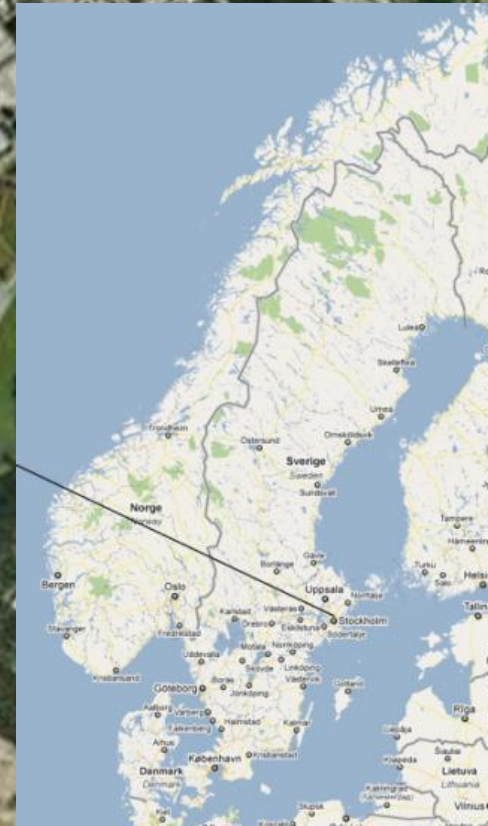
Husby

Kista

Hjulsta

Tensta

Rinkeby



Vision Järva 2030

Four main themes:

- Good housing and a more varied urban environment
- Everyday safety and security
- Improved education and language teaching
- More jobs and enterprises





Governmental funding: 55 Mkr
Total cost: 200 Mkr)

1. Energy efficiency
2. Renewable energy
3. Sustainable transportation
4. Participation and information
5. Evaluation



Energy efficient renovation

From 180 to 88 kWh/m² A-temp,
50 % energy reduction

Three house-styles

- different methods
- Traditional construction
- Pre-fabricated elements
- Vacuum insulation
- Heat recovery of sewage



Energy efficient renovation

- FTX-ventilation with heat recovery
- Improved thermal insulation of walls and roofs
- New windows- low U-values
- Energy efficient building sites

<http://youtu.be/Vy3ioEv4L7Q>



Energy efficiency for households

- Individual measuring of warm water
- Water saving taps
- Led-lighting in public areas, kitchens and bathrooms
- Energy efficient household equipment
- Information campaigns to minimize energy use



Can energy efficient renovation be combined with preservation of cultural historical values?





Renewable energy

Electricity and warm water production

- 10 000 m² photo voltaics
Power: 1,4 MWp
Production: 1 300 000 kWh/year
15-20 % of the electricity of the property
- 280 m² solar thermals
160 000 kWh/year



Renewable energy

Järva - the city of sun

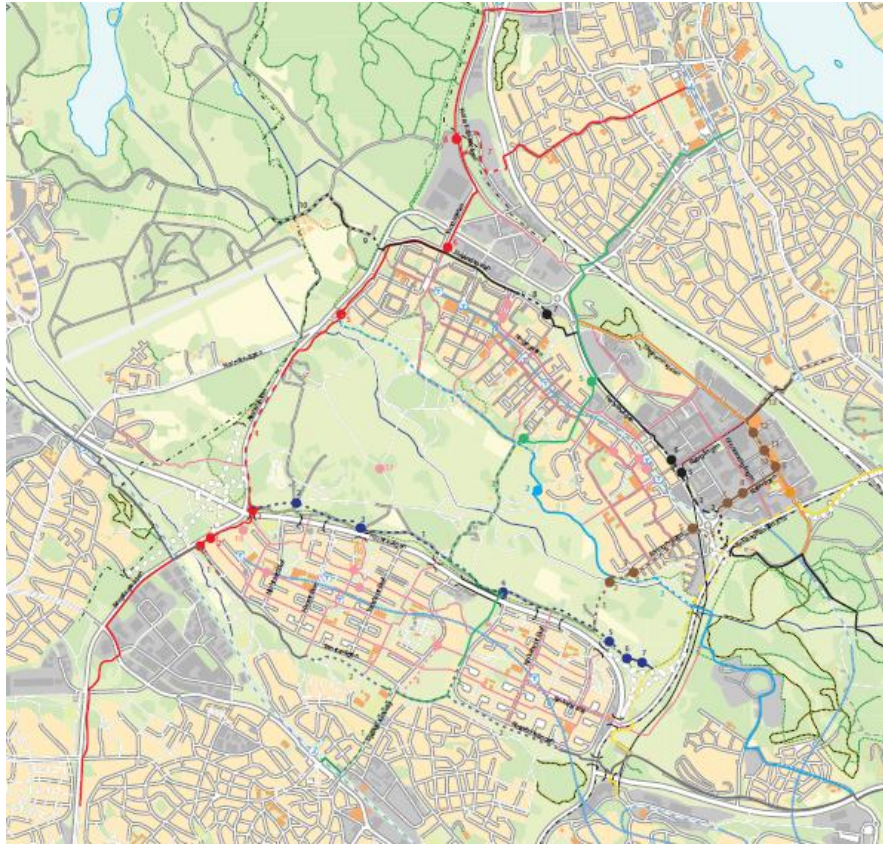
- Create the most photo voltaic dense city district in Sweden (10000 m²)
- Develop a system to follow up and do research
- Visualise the photo voltaics and the production of electricity
- "Label" houses with sun energy installed
- Strengthen the sustainable identity of Järva
- Inspire other property owners and cities





Transportation

- Bicycle measures
- Car sharing club
- Construction logistics





Participation and information

- The Järva Dialog
- Environmental hosts and ambassadors in each building
- Local employment



Schools and study circles

Schools

- Education in nurseries and schools
- Culture-historical path
- The Tensta Apartment - characteristic of the period
- The "Lekoprick" shop
- The Climate Scale

Study Circle leader educations for associations

- Pilots in living
- Sustainable lifestyles
- 164 study circles running





Evaluation

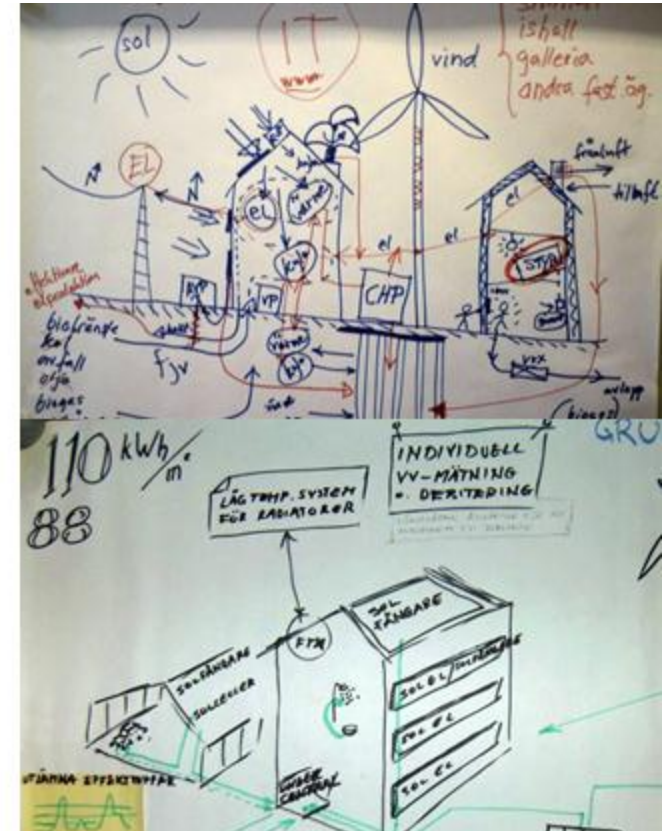
Doctoral candidate at the Royal institute of Technology will follow-up technical, social and economical aspects

Comparison with Hammarby Sjöstad and other Environmental profiled urban districts

Future workshops;

Climate neutral energy system – autumn 2010

Solar panels & cultural historical values – spring 2011



Reflections

- Local contracting, biking courses and study circles contributes to integration.
- The culture-historical path and the photo voltaics makes people proud of their neighborhood.
- Involving residents in the developemnet is a good idea but needs to be well planned.
- In regeneration projects the social part of sustainability is always an issue
- In new built areas the environmental part of sustainability is always an issue.
- Both parts are essential in both kind of areas.
- Sustainable life stiles needs many reminders and must be attractive.



Thank you!

[www.stockholm.se/
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