











Focus areas













Sustainable energy

Principles

- Energy-efficient buildings and contruction
- Increased local production of renewables
- Low embeddied energy in materials

- Verification of energy performance
- LCA
- Land allocation competition

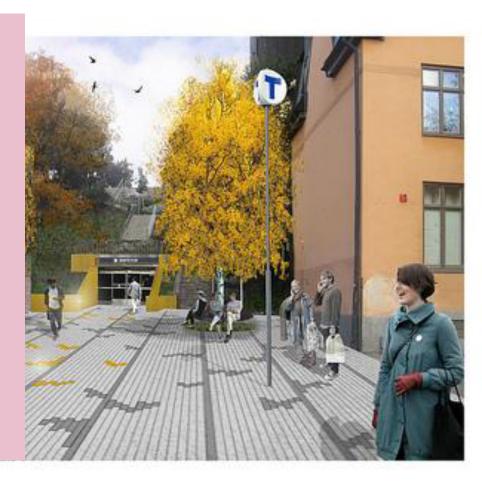


Sustainable transport

Principles

- Dense and mixed use
- Public transport
- Human scale
- Parking bears its own costs

- Traffic hierarchy
- Mobility index
- Priority to walkers and bikers
- Parking quantity, price, sharing, location
- Good infrastracture for green cars





Climate adaptation

Principles

- Reduced risks for flooding
- Stormwater as a resource
- Robust and multifuncitonal green structure
- Strenghtened ecosystems

- Green space index
- Stormwater strategy



Recycling systems

Principles

- Reduced waste
- Reduced transports
- Increased collection of organic waste -> biogas
- Collection and reutilization of nutrients



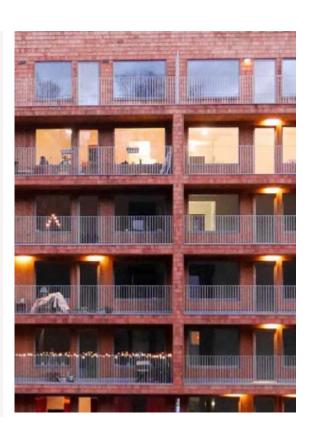


Sustainable buildings

Principles

- Environmentally sound materials
- Resource-efficient construction
- Good indoor environment
- Careful renovation of existing buildings

- National evaluation systems
- Documentation
- Construction consolidation center





Sustainable living and working

Principles

- Increased accessibility and proximity to sercives, nature and schools
- Increased involvement and participation
- Open and welcoming district
- Age and gender perspective

- SIA
- Extended public dialogue
- Introduction meetings, thematic seminars, urban farming
- Network for residents
- Public spaces
- Preschool, school, services









Nettoenergi

Poängberäkning nettoenergi

| Foatiguerakning nettoenergi | | | | | | | | |
|-----------------------------|-------------|-------------|-------|-------------|-------|------------|-------|------------|
| Byggherre | Nettoenergi | Justering 1 | S:a 1 | Justering 2 | S:a 2 | heltal | Poäng | 80% |
| | | | | | | Avrundning | | Att ta med |
| 6 Olov Lindgren | 6,3 | 0 | 6,3 | 3,4 | 9,7 | 10 | 5 | 4 |
| 9 Stockholmshem | 7,7 | 2 | 9,7 | 0 | 9,7 | 10 | 5 | 4 |
| 17 Wallfast | 8 | 2,4 | 10,4 | 0 | 10,4 | 10 | 5 | 4 |
| 3 Sundvall | 9,2 | 1,4 | 10,6 | 0 | 10,6 | 11 | 4 | 3,2 |
| 15 Einar Mattsson | 11 | 0 | 11 | 0 | 11 | 11 | 4 | 3,2 |
| 16 Skanska | 11,3 | 0 | 11,3 | 0 | 11,3 | 11 | 4 | 3,2 |
| 7 BoTrygg | 7,5 | 4 | 11,5 | 0 | 11,5 | 12 | 3 | 2,4 |
| 8 SKB | 7,66 | 4 | 11,66 | 0 | 11,66 | 12 | 3 | 2,4 |
| 10 CBI | 7,6 | 4 | 11,6 | 0 | 11,6 | 12 | 3 | 2,4 |
| 11 Fortis | 6 | 8 | 14 | 0 | 14 | 14 | 2 | 1,6 |
| 13 Wallenstam | 11,9 | 2 | 13,9 | 0 | 13,9 | 14 | 2 | 1,6 |
| 4 ByggVesta | 14,88 | 0 | 14,88 | 0 | 14,88 | 15 | 1 | 0,8 |
| 5 Hedman | 18,8 | 0 | 18,8 | 0 | 18,8 | 19 | 0 | 0 |
| 12 K2A | 16,6 | 0 | 16,6 | 0 | 16,6 | 17 | 0 | 0 |
| 14 Folkhem | 12,3 | 4 | 16,3 | 0 | 16,3 | 16 | 0 | 0 |

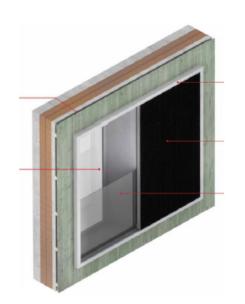


Byggnad

■ Um- värde < 0,3, de bästa har 0.18 W/m₂K

- Formfaktor ≈ 1
- Fasader U≈ 0,1 W/m₂K (o,o4??!!)
- Fönster U ≈ 0,7- 0.8 W/m2K de flesta (1 förslag med 0,6- sämst 0,9)
- Tak U ≈ 0,09 W/m2K
- Täthet 0,1- 0,3 l/s,m2
- Köldbryggor (fristående balkong, ...)
- Några intressanta lösningar som fönsterluckor, dubbelglasfasad, PHI, lutande fasader osv...





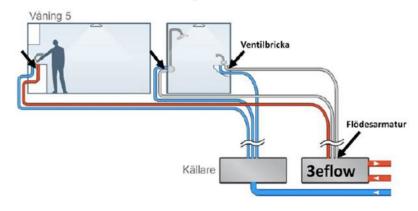
Energisystem

- Samtliga förslag med FTX, varierat från 85-90%, några lägenhetslösningar
- Bergvärmepump för energiförsörjning (1 bidrag hade avloppsvatten- VP)
- Nästan alla med bidrag har lösning med förvärmning/förkylning av luften (via borrhål)
- Avloppsvärmeväxling, både gemensam- och duschlösning

Bergvärmepump med borrhålslager



SPUAB





VVS-TEKNISK LÖSNING

