HAMMARBY SJÖSTAD | Stockholm, Sweden

Size: 495 acres, 9000 units
Dates: 1995-2015
Team: Eskil Sundahl and Arthur von Schmalensee
Description: Hammarby aspires to develop an innovative sustainable urban greyfield development with closed-loop resource systems and a pedestrian friendly design
Intent: Unify energy, water and waste infrastructure, reduce vehicle use, develop efficient infrastructure

GOALS: (Food) Not defined ; (Habitat+Biodiversity) Not defined ; (Transport) Not defined
STRATEGIES: (Food) Not reported ; (Habitat+Biodiversity) Green roofs and roof top gardens for storm water retention, tree plantings, lake with wetland habitat ; (Transport) Tram line, biogas fueled public transportation, ferries, carpooling, pedestrian pathways, bicycle infrastructure

GOALS: 50% reduction in energy consumption
STRATEGIES: Solar PV and battery storage, solar hot water heating, hydro-power, bio-gas for transportation, district heating, co-generation for heat and electricity, metering

GOALS: 53 gal/person/day, hazardous substances in water reduced by 50%, 95% of phosphorus separated and returned to agriculture
STRATEGIES: Water to biogas, storm water runoff cleaned locally, rain water collection in a landscaped canal purified through constructed wetlands and is delivered to Lake Hammarby Sjö, test wastewater facility for innovative technologies

Percentage of affordable units: Not obligated to provide affordable housing
GOALS: 50% rental, 50% owner-occupied, promote a sense of community
STRATEGIES: Social sustainability principles: balanced public and private mixed use community, walkable, accessible services, public art, environmental education, cultural activities

GOALS: (Materials) Selection of sustainable materials ; (Waste) 20% waste reduction
STRATEGIES: (Materials) Double glazed facades, low energy appliances, products need to prove that they can be recycled at the end of their life, contractors required to follow material specifications, select non-toxic materials ; (Waste) Solid waste sorting through underground vacuum system, fertilizer from bio-gas digestion, waste water from co-generation plant circulates city in cooling network
| S | Site + Place | W | Water | E | Energy | H | Health + Happiness | M | Materials | E | Equity | B | Beauty |
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| Limits to growth | Built on greyfield of brownfield, developed for density, conserves habitat land | Habitat Exchange | Constructed wetlands, land set aside, native plantings, 25% + of developable space is undeveloped | Human Powered Living | Walkable streets, bicycle infrastructure, public transit links, car sharing, EV charging stations, easy access to services | Net Positive Water | Some stormwater reuse or infiltration, grey water recycling, conservation goals | Net Positive Energy | 2030 standards goal of efficiency, some reduction goals for energy & carbon, some renewable energy, solar PV ready | Civilized Environment | Community has some organization and collaborates on 1-2 of the living community listed programs | Healthy Neighborhood Design | Access to walking and bike trails connecting amenities, parks, recreation areas | Biophilic Environment | Innovative landscaping, designed to include elements that encourage human/nature connection, aesthetic design |
| Resilient Community Connections | Nothing considered/not reported | Living Material Plan | Rigorous material selection standards, material plan made available to public | Embodied Carbon Footprint | Material selection requirements, proxy standards for reducing CO2 in material selection and construction on-going energy monitoring | Net Positive Waste | Material selection for recycled/recyclable materials, waste collection facilities, reduction standards | Human Scale and Humane Places | Project is designed to create human-scaled places, promotes culture & interaction | Universal Access to Nature and Place | Diversity of services available in community easily accessible by different modes of transportation | Universal Access to Community Services | Diversity of services available in community easily accessible by different modes of transportation | Equitable Investment | No contribution to charity |
| Beauty and Spirit | | Inspiration and Education | Unit metering, education on sustainable practices, opportunities for community engagement |

**Sources:**