ROYAL SEAPORT | Stockholm, Sweden



Size: 586 acres, 10,000 new homes, 30,000 new jobs, prepare for increasing precipitation

Dates: 2009-2030

Team: City of Stockholm, Fortum energy company

Description: The Royal Seaport is an urban re-development and sustainable district that aspires to showcase state of the art environmental tech-

nologies

Intent: Support Swedish environmental technology, contribute to the development of new technologies, by 2020 CO2 emissions will be less than 1.5 tonnes per person, adapt to future climate change, by 2030 fossil fuel free



GOALS: (Food) Not defined; (Habitat+Biodiversity) Not defined; (Transport) Not defined

STRATEGIES: (Food) 63 plots for urban gardening; (Habitat+Biodiversity) Green space index tool for developers, green roofs, green facades, bee keeping, soil remediation, large parks to the north and south connected by pathways, beekeeping, soil re-mediated; (Transport) Mobility index tool for developers, biogas bus, subway, boat bus, tram, bicycle infrastructure, 2.5 bike spaces per apartment, electric vehicle infrastructure, planned carpool vehicles, 2.5 mile nature trail



GOALS: Not defined

STRATEGIES: Stormwater system organized under streets, Green Space Index for storm water planning



GOALS: Fossil fuel free by 2030, reduce; CO2 emissions below 1.5 tonnes or 25% per inhabitant, fossil fuel free by 2030.

Energy Demand: Estimated around 55 KWh/m²

STRATEGIES: Adapt to future climate models, monitoring target achievement, developers that worked on Hammarby Sjostad share knowledge, Plus-energy competition, smart grid to balance energy and heating needs, planned combined heat and power bio-fuelled plant will produce 10% electricity, 25% district heating needs, heat recovery ventilation, innovation competitions, solar PV, waste management system reduces energy use by about 30%



Percentage of affordable units: Not defined

GOALS: Not defined

STRATEGIES: Diversity of apartments options: tenant owned, rentals, student housing, Green Building tool Gold rating for indoor air quality must be achieved, education on the designated sustainable district and enabling sustainable choices, 1% of investments committed to art, community involvement, outdoor public space



GOALS: (Materials) Not defined; (Waste) Not defined

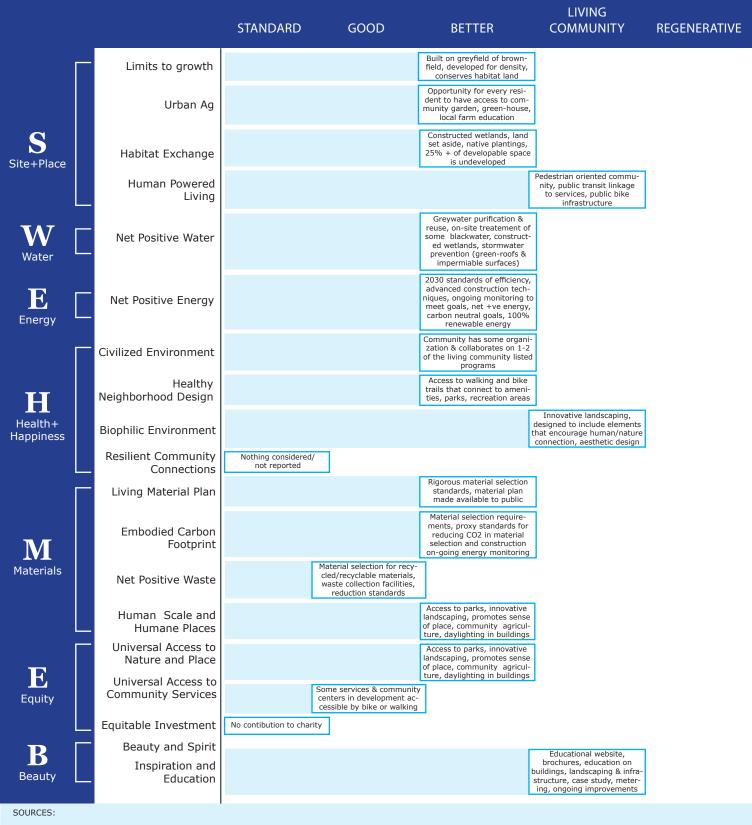
STRATEGIES: (Materials) Extensive use of LCA analysis with the development of a calculation tool, working with industry professionals to develop innovative solutions, Life Cycle Costing for innovative strategies, material suppliers must declare toxicity of products, collaboration between services providers resulting in efficient and organized development; (Waste) Not reported







SUSTAINABILITY MATRIX



http://www.c40.org/case_studies/stockholm-royal-seaport

https://ecodistricts.org/wp-content/uploads/2013/05/Royal_Seaport.pdf

http://www.wsp-pb.com/en/What-we-do/Transport-and-Infrastructure/Projects/Stockholm-Royal-Seaport/

http://www.stockholmsolarchallenge.com/competitions/stockholm-solar-challenge/pages/about-the-royal-seaport the solar-challenge and the solar-challe

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