## **HEDEBYGADE** | Copenhagen, Denmark



Size: 1 urban block, 12 buildings, 115 apartments, 430 people

Dates: Original construction:1880s; Renovation:2004

Team: Developer: Anders Pedersen

Description: Hedebygade is an urban demonstration development that showcases ecological renovation while promoting innovative technologies

Intent: Create a demonstration project of environmental urban renovation, contribute to knowledge base on ecological solutions, and promote new energy efficient technologies

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

STRATEGIES: (Food) Community gardens; (Habitat+Biodiversity) Innovative air filtration through vegetation, rainwater gardens incorporated into landscaping design, plant trellises and green walls; (Transport) Located in dense urban environment located near public transportation and services, internal court- yard walking paths



GOALS: 20% reduction in water use to 23-31 gal/yr./person

STRATEGIES: Grey water and rainwater collection areas, efficient appliances



GOALS: Increase efficiency of buildings by 35-45%, pilot for low energy housing research.

Energy Demand: 37.5 kBtu/ft² CO2e tons: 1.2 tons/person/ year

STRATEGIES: Passive solar strategies, sun wall with heat exchanger, PV integrated into facade, heat recovery ventilation, light tunnels, district heating, efficient appliances, extensive metering and tracking of energy consumption, community laundry, individual apartment metering and overall consumption monitoring



Percentage of affordable units: Not specified though indicated in development GOALS: Not defined

STRATEGIES: Mix of student, tenant owned, rental units, low income housing, elderly housing, and unemployed housing. Integrated approach to urban renewal, involvement of residents in planning, community center including hall, cafe, kitchen and laundry. Buildings surround open internal courtyard with walking paths and water features



GOALS: (Materials) Utilized Danish concept for eco-accounting to reduce CO 2 emissions and increase efficiency, create a technical specification for future projects; (Waste) Not defined

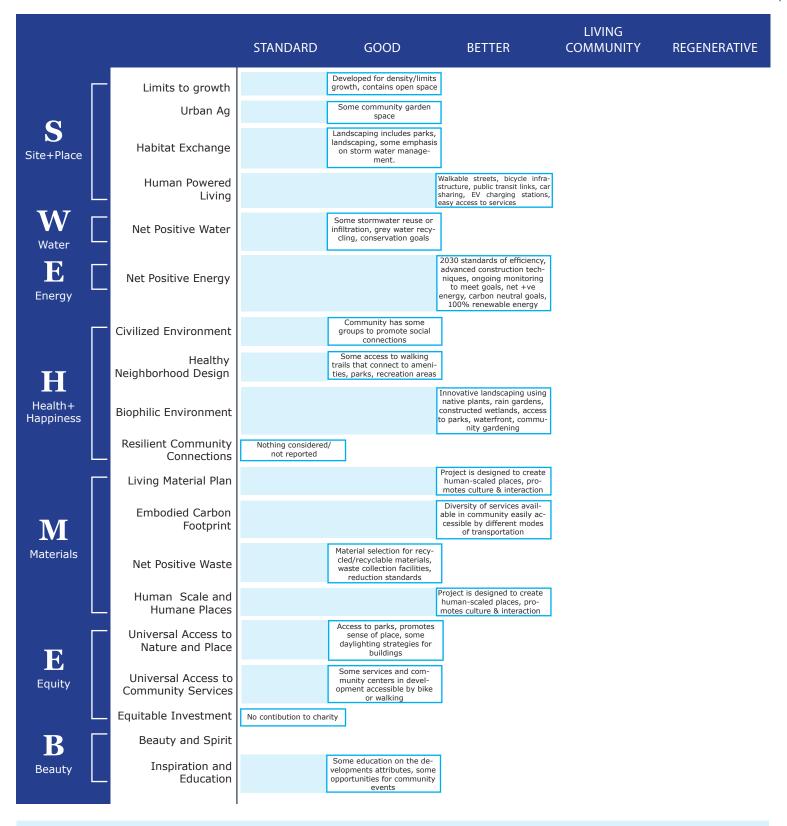
STRATEGIES: (Materials) Select recycled and locally sourced materials, renovate existing buildings reduced construction waste; (Waste) Waste sorting facilities, waste reduction and recycling education for residents







## SUSTAINABILITY MATRIX



## SOURCES:

http://www.cardiff.ac.uk/archi/research/cost8/case/holistic/hedebygade.html

https://www.bshf.org/world-habitat-awards/winners-and- nalists/twelve-urban-ecology-projects-in-hedebygade/

http://www.kulturarv.dk/1001fortaellinger/en\_GB/hedebygade

http://sealevel.ca/lowimpact/housing/action.lasso?-Response=search05.lasso&ID=1463





