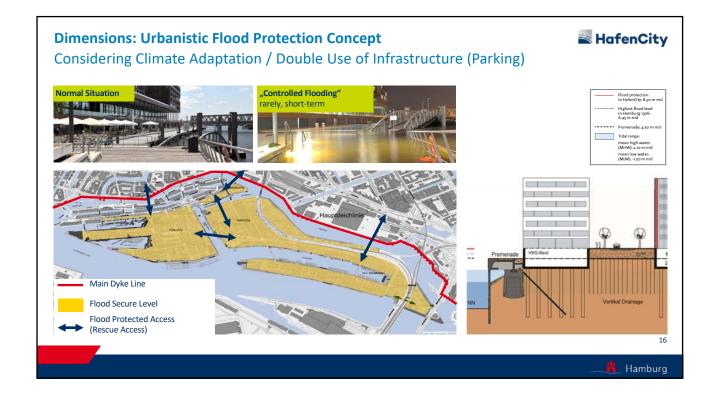


HafenCity **HafenCity: Neighborhood Management** Financing secured through Sales Contract **Urban planning level:** Neighbourhoodhouse close to a park, approx. 250-300 qm **Legal level:** Financing based on an allocation of the land owners Hedging over land charge in land registry Amount of monthly payments is limited to 0.07 € per m² chargable base area for apartments and limited to 0.10 € per m² for other uses. Quarter Management Board manages the finances and commissions suitable parties to carry out certain tasks Hamburg



HafenCity: The Good Urbanistic Flood Protection System

HafenCity

New Topography: Wharf Concept – Streetscape / Waterscape







under 1

HafenCity: Nature-based Solutions Near-natural Spaces in the Inner City









HafenCity

Near-natural Embankment

- Increasing biodiversity
- Protected vegetation
- Bird nesting places
- · Monitoring of biodiversity

Diverse Planting and Permeable Surfaces

- 100% rain water filration
- Permeable surfaces
- High degree of planting (500 trees und 20 tree types incl. fruit trees)
- Habitat for animals, shading, protection from noise and wind
- Protected near-natural areas
- Reduction of maintenance

Health, Well-being and Social Aspects

- Diverse options for an active life
- Planting and typography seperate sport facilities
- Use of parks by sport clubs, and urban gardening groups etc.
- Integration of deportation memorial



uller Hamburg





HafenCity: Urban Mobility

The Mobility Transformation / Car-based Mobility Systems

HafenCity

Strong sharing strategy

Effciency and social justice generation in spite of reduced spaces

- By introduction of carsharing (30 % of parking spaces; for 100 households: 12 sharing places)
- Customized availability of the "right" car
- (broadening range of available cars)
 High substitution effect for private car ownership for households using a car for less than 10.000 km p.a.
- Carsharing spaces free of parking costs

Benefits:

- Efficiency gain in resource use
- Social benefit high (car use on demand, no socioeconomic exclusion)
- Strong social learning effects

Reducing parking spaces

Significant cost and grey energy savings (no above ground parking available on sites)

- 0.4 parking spaces per residential unit in eastern HafenCity (and selected other locations)
- Reduction to approx. 25-30 % for non-residential buildings (in quarter Elbbrücken)

Benefits

- Investment costs in housing construction and for commercial buildings are falling significantly (in general one underground parking level not necessary)
- Consumption of grey energy decreases by an average of approx. 8-10% (per building)
- Pressure for efficient use of space

Strong E-mobility strategy

Transformation into electrical mobility

- Electrical mobility fitout for at least 40 % of parking spaces (residential and office use) are equipped with a wallbox 11kW)
- All carsharing spaces are equipped with electrical mobility fitout (wallbox)
- 40 % electric cars in the first phase, 90% by 2025
- 100 % of parking spaces prepared for electrical mobility fitout
- Central access system; wireless network coverage

Benefits:

- Dramatic increase in e-mobility diffusion
- Strong environmental impact
- Strong social learning effects

Outcome: Transformation of

the car-based mobility system



Hamburg

HafenCity: Urban Mobility

E-Mobility, Car-Sharing, autonomous bus and more





Dimension: Sustainable Construction



HafenCity EcoLabel: Platinum Certification required (since 2017) – starting new Experiments





General Features

- First certificate in January 2007
- Certificate became mandatory for all in 2010 (gold certification standard)
- Major adjustments in 2010 and 2017 (Platinum now mandatory)

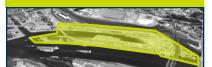
Benchmarking System / Categories

- Sustainable use of energy resources
 (required Platinum standard for every) building)
- Sustainable use of public goods (including mobility requirements such as integration of electric mobility and carsharing system)
- Use of environmentally friendly building materials (elements of cradle-to-cradle)
- Special consideration for environment, comfort and health protection
- Sustainable Facility Management

New: Five new Features (benchmarks and

- requirements):

 platinum standard in three categories (sustainable use of energy mandatory); gold standard in the other two categories
- Energy generation of solar energy (30% of
- roof top area) and green roofs
 Integration of 50% electric charging points as minimum standard (40% of spaces fitout, 60% prepared)
- Very low primary energy factor (approx. 0.11), industrial waste heat of Aurubis copper melting plant
- Monitoring process of energy efficiancy after two years of operation





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Dimensions: HafenCity EcoLabel

Raising the environmental Construction Standards



No minimum standard for buildings beyond legal requirements



HafenCity Gold standard optional

3 out of 5 categories to be Gold, energy efficiency mandatory in Gold



HafenCity Platinum standard 3 categories Platinum standard

and two Gold minimum, energy efficiency mandatory in Platinum

2000 2007 2017

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