



7FP TRANSFORM TRANSFORMation Agenda for Low Carbon Cities



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TRANSFORM:

Coordination and support actions Call Smart Energy

Temi generali: approccio integrato che interseca molteplici aspetti:
fabbisogni e riduzioni energetici, rinnovabili, trattamento dei dati, processi partecipativi, mobilità urbana, aspetti ambientali, strategie finanziarie.
→II fine è raggiungere standards (ranking) per i futuri progetti sulle città europe.

Partners:

Municipalità di Amsterdam, Copenhagen, Lione, Amburgo, Vienna, Genova
+ mondo ENERGIA: produttori, distributori
+ mondo RICERCA







• una Transformation Agenda → documento strategico di governance
• specifici Implementation Plans→ piani urbanistici ed energetici di dettaglio
• Key Performance Indicators (KPIs) → fotografia attuale e ranking
• Smart Energy City' Handbook → per la disseminazione



Amsterdam - Energiek Zuidoost

Development Type:

Urban transformation of exis-ting mixed-use area (300ha), incl. Ajax stadium, offices, leisure, shopping, city hospi-tal, datacenters and energy plant. Transformation of energy grids (thermal and electric) towards smart grids

Expected Outcome:

Guided process with major stakeholders, leading to commitment of 202020 goals, by renewable energy production and use of latest technologies in existing building stock.

Copenhagen – Nordhaven

Development Type:

Brownfield development port area under transition. On a long term basis room for 40k inhabitants and 40k jobs. Vision for the area is to be CO2 neutral and a green lab for new solutions in energy and building construction. The area should at the same

time be sustainable socially and economically as well as environmental. Expected Outcome: Integrated energy system incl. district heating, cooling biomass, geothermal energy production, seasonal heat storage and smart grid. Low energy buildings



Hamburg – IBA / Wilhelmsburg

Development Type:

Urban transformation and ex-pansion, combining housing, industry, port, water, green and open space; one of 19 Excellent Climate neighbor-hoods; stepwise growth from 55.000 to 75.000 inhabitants:

Expected Outcome:

Guided process with 100 stakeholders; 100% renewable electricity by 2025, 100% renewables for heating & cooling by 2050





Lyon – Part Dieu

Development Type:

Urban transformation of a 1960ies development district close to the centre of Lyon. This is the 2nd business district of France covering 900,000 m2 (40,000 work places, 5.500 residents, commercial and logistics areas included)

Expected Outcomes:

Construction of 1 Mio. m² of additional floor space and renovation of 40% of existing building stock (offices, commercial, residential). Upgrading and extension of the heating and cooling district infrastructure



Genoa – Mela Verde

Development Type:

Port area - Brownfield development; part of comprehensive CO₂ reduction strategy and Technology Masterplan

Expected Outcomes:

Guided stakeholder process, New techno-logy buildings, PV energy production, e-mobility



ienna – (1) Seestadt, (2) Liesing

De lopment Type:

- (1) eenfield & Brownfield
- dev lopment, incl. 20k apts., grid, e-mobility & reduced car
- 20 vork places; new public dependency
- port, social & smart tra
- tec nicalinfrastructure
- (2) ban transformation in
- ential, industrial & service and public transport. res
- dis ct Liesing. Close coop.
- eencity, energy & trans. bet lier & district management
- Sur Exc cted Outcome:
- (1) ate-of-the-art passive
- ho
- - e & office space, energy

production (geo-thermic,

photovoltaic, bio-mass), smart

(2)Integrated mobility concept

based assessed needs incl. Car

sharing, e-car, (e-) bike services







Problematiche di ricerca e futuri targets:

- 1. Link tra la Transformation Agenda e gli Implementation Plan
- 2. Miglioramento della trattazione dei dati (per la conoscenza e per l'applicazione)
- 3. Innovazione nel **processo di condivisione** con gli stakeholders
- 4. Un approccio integrato tra energia e pianificazione è auspicato, ma non *scontato*
- 1. Impatto nella **disseminazione** e nella **replicazione**

□ ... future calls...

