

## zero:e park at a glance

**TOTAL AREA** 260.000 m<sup>2</sup>

**DEVELOPMENT** 330 detached and terraced houses

**ENERGY CONCEPT** Passive House standard, solar plants and compensation for remaining CO<sub>2</sub> emissions

**WATER CONCEPT** Trough-trench system

**GREEN-SPACES CONCEPT** Planning Passive House style

**LEBENDIGE NACHBARSCHAFTEN (LENA)** Project with support, campaigns and analyses of the development area

**SUPPORT** Comprehensive advice on energy, water and green planning

The development area sets an example to other districts in Germany and the European Union. Which is why European districts get together as part of the Leadership for Energy Action and Planning (LEAP) project to share experience gained.



Landeshauptstadt **Hannover**



### CITY OF HANNOVER ENVIRONMENT AND GREEN URBAN SPACES DIVISION CLIMATE PROTECTION BUREAU

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**Photos** Frïa Hagen, Interhomes Lorenzen, meravis, Hurtig Design, AG baufrösche und foundation 5+

**Design** www.24zwoelf.de

**Printed** on 100% recycled paper

**Number of copies** 1.000

**Published** March 2013

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## zero:e park ZERO EMISSION SETTLEMENT

Passive Houses in Hannover-Wettbergen

LANDESHAUPTSTADT  
HANNOVER

HANNOVER



## zero:e park: CLIMATE-PROTECTION HOUSING DEVELOPMENT IN HANNOVER-WETTBERGEN

### Europe's largest zero-emission housing development

Europe's biggest zero-emission housing development is being built in the south west of Hannover. The area will include around 330 detached, semi-detached and terraced houses, and a supermarket built to Passive House standard. The whole development has been designed to be permanently climate friendly. Only Passive Houses are built on the plots. The houses' good insulation and efficient ventilation systems create a comfortable atmosphere and virtually no energy for heating is required. Power for household electricity and heat is compensated for by renewable energy generation. The plots face south so that all buildings can exploit solar energy to the maximum. To save resources, rainwater is drained off using private and public trough-trench systems.

### Support and funding

The City of Hannover's Climate Protection Bureau offers support free of charge at any early stage to families intending to build. Drawing on this support is obligatory if a plot has been purchased in zero:e park. All issues involved in the housing development, in particular the requirement to construct energy-efficient buildings, are explained. Hannover's proKlima climate fund encourages Passive House construction and is involved in analysing the energy data in the development area. Information on proKlima funding can be provided by the Climate Protection Bureau, or by visiting [www.proklima-hannover.de](http://www.proklima-hannover.de)

### Passive House supermarket

The new supermarket building is an excellent Passive House pilot project. It's also the first consumer supermarket to be built worldwide to this Passive House standard. There's no conventional heating system for the building. Heat requirements are primarily covered by heat recovery from the cooling system. The lighting has been designed to be especially energy saving. Top-of-the-range, efficient cooling equipment is also used and some models were custom-made for this supermarket.

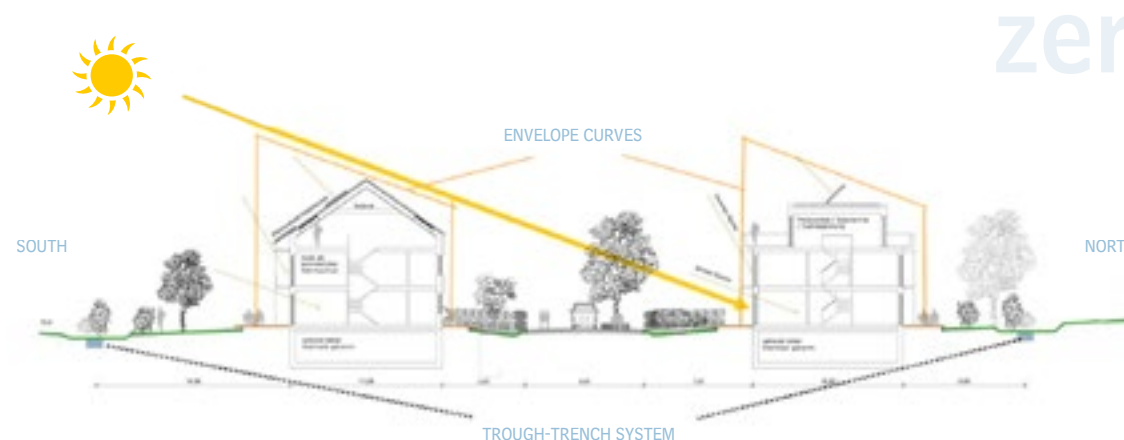
### Lebendige Nachbarschaften (LeNa)

LeNa is a project funded by the City. It doesn't just support families planning the building of their houses, but also funds energy-effi-

ency and ecological improvements in the adjacent Wettbergen and Oberricklingen districts. Another goal is for LeNa to boost integration of people in the new-build area in the existing districts.

### Construction info

Regular construction info evenings take place on selected issues like planning green spaces, building materials, saving electricity and many others. The planning office, appointed by the City, also provides another service. Families can contact this office if they have any technical questions about building Passive Houses.



zero:e

[www.zero-e-park.de](http://www.zero-e-park.de)