

TRACTEBEL



ECO DISTRICTS

Urban Development

(Re)develops neighborhoods and districts into sustainable living environments

Tractebel is a worldwide multidisciplinary engineering, consultancy and design firm working on a wide range of projects in geographies around the world. Every day our teams of engineers, consultants and designers feel the need for a more sustainable urban development to build a better world for all, today and in the future. Therefore we developed together 11 integrated approaches for cities and territories; they represent the needs and interests of cities and citizens and aim to provide solutions to key global challenges.

why?

Due to the effects of population growth, climate change, resources and space scarcity a new approach for the (re)development of city districts is necessary. These **global trends threaten the stability of life in metropolitan regions and push cities to search for innovative and sustainable urban solutions**. A more sustainable approach is already present in the development of new districts (residential, industrial). The biggest challenge now is to upgrade existing districts and neighborhoods to achieve higher performance on the level of energy efficiency, water use, diminishing health stress.

what?

Eco Districts can provide sensitive solutions to these challenges, effectively designing and re-designing self-sustaining and climate-adaptive urbanized environments.

Eco Districts refers to the (re)development of sites within a city aiming to apply the principles of sustainable development at the scale of a neighborhood. Eco districts are **(partly) self-sufficient green neighborhoods and buildings in the city**. They are conceived **as climate adaptive environments, characterized by local or decentralized energy supply and a low (zero) ecological footprint**.

Eco districts offer a way to test and apply high-impact, district-scale sustainable projects and public-private partnership that drive experimentation and innovation.



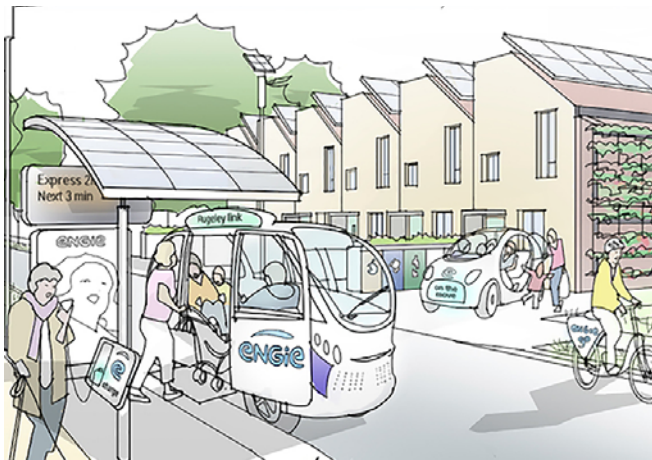
RTBF, Brussels

A functional, transparent and compact building with a glass 'bioclimatic skin' that helps achieve greater energy performance.



Vloorstraat masterplan, Antwerp

The existing mixed use urban site with the covered market is superposed with a green blue network. At the same time, creating a more attractive urban environment and generating extra benefits in relation to water management and ecology.



Rugeley, United Kingdom

Brownfield valorization leads the transformation of the former 1GW coal fired power station site into an entirely new sustainable and smart community (residential, tertiary, school, shops and leisure). An integrated mobility and energy masterplan was performed to elaborate different scenarios as from now to 2040 and evaluate the actions to reach this final end vision from energy and mobility points of view.



Greater Springfield, Australia

Following the findings of the 360° City Scan assessment, a roadmap has been set up with the Greater Springfield Alliance aiming at achieving development goals by elaborating key urban precincts, studying green mobility options and mass transportation corridors and developing a strategic plan for achieving the energy goals of Greater Springfield.

10 other integrated approaches to discover

- Urban Resilience
- Productive Landscapes
- Places of Mobility
- Water Urbanism
- Territorial Transitions
- Recycling Territories
- Smart Networks
- Civic Architecture
- Sustainability @Work
- Digital Urban Solutions