



Water Square “Vogelbuurt”

Status	Design 2011, construction 2013
Location	The Netherlands, Gelderland, Tiel, Tiel East Vogelbuurt
Spatial info	Urban quarter/street; residential area
Measure type(s)	Urban water spaces – standing water Green open spaces
Contact	www.tiel.nl



Description and Aim

In the residential area “Vogelbuurt” (8 ha), a retention area in the shape of a water square is part of the integral water scenario which addresses the water problems of Tiel East. The design of this water square is ready.

The water square has to store at least 601 m³ water.

The aim was to achieve the best design for a water square in order to optimize the effect on water storage in combination with the use as public space and cooling area (urban heat island effect)

Adaptation to climate change

Calculated effect on the integral water scenario.

Cool areas in Tiel East prevents the use of air conditioners.

Problems addressed:

Heat / heat wave, heavy precipitation / flooding

Receptor(s):

Built environment, vulnerable groups

Experiences

Functionality:

Reduce flooding in an area of 7 ha.

Creating cool areas with water contributes to reducing the urban heat island effect.

Use of public space for water storage creates new opportunities.

Making water storage visible creates more social acceptance and raises awareness about the effects of climate change on a local scale.

Further synergies/benefits:

Water Square is also used as public space. Features on the square include playing areas for children and public staying areas.

Improving the liveability.

Costs:

€350.000 exclusive land price.

Funding:

International and local. Local: municipality, waterboard, housing corporation. Subsidy of Future Cities.

Stakeholder involvement:

Waterboard, Housing corporation, Inhabitants, School board, School children

Acceptance:

Supported by: Newsletter Tiel East, website, residents design evenings.

Obstacles/restrictions:

The site is not owned by the municipality. There is no basis for expropriation. Negotiations with the owner were successful but took more than 1 year.