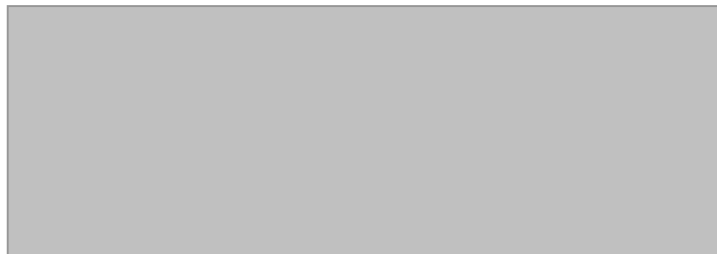




A new Bike share System for Copenhagen

City of Copenhagen
Technical and Environmental Administration
Department of Traffic

73924



Project description

After evaluating City of Copenhagen's goals, we understand that success depends on all users having fast, simple and reliable access to the city's bike share system.

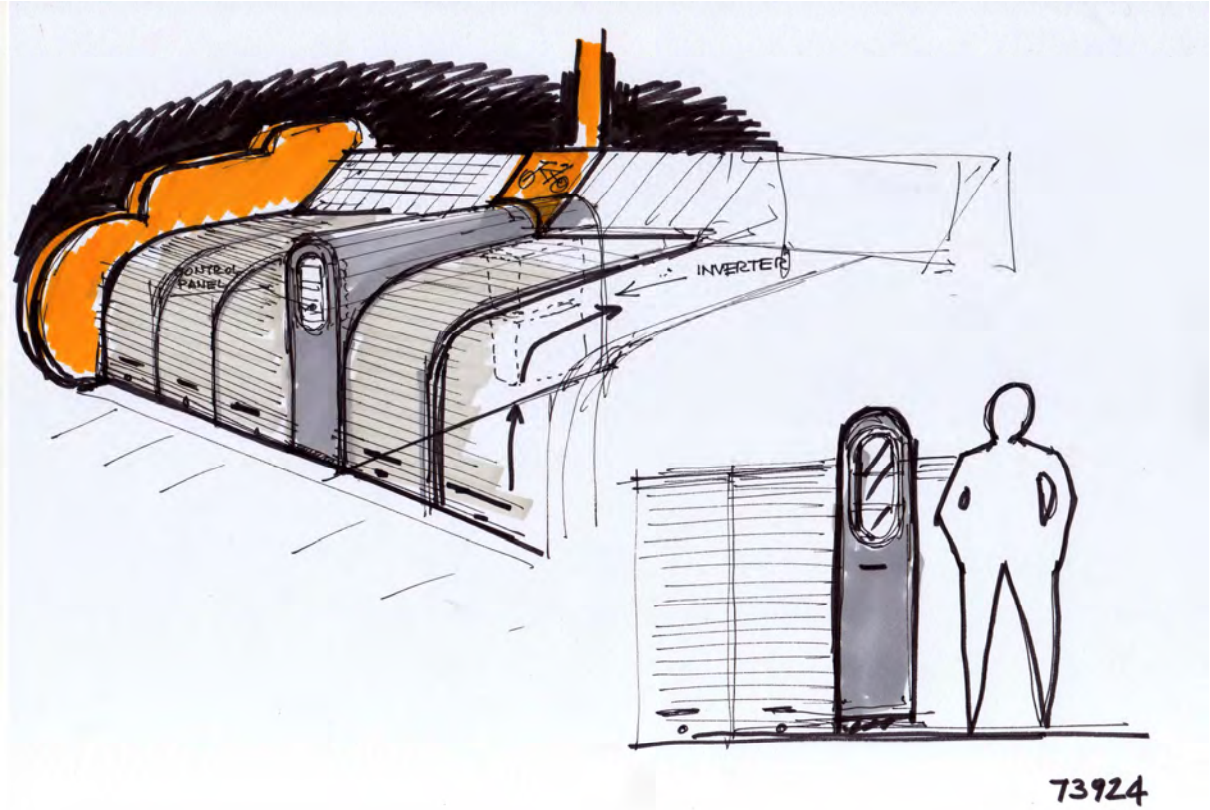
We design a robust, adaptive bike share system that will enable City of Copenhagen to achieve its objectives. Specifically, the proposed solution will enable City of Copenhagen to enhance agility, integrated in the existing city, easily to install, lower the total cost of ownership, meet service level objectives and improve operational efficiency all while mitigating project risks.



BTS view

The project is based on several key competitive differentiations:

- a series of modular components named “Bikes Technological Stations” (BTS),
- unique in shape and color to increase Cycle friendly image of the city,
- easily identifiable and having a strong visibility whether the day or the night,
- Changeable in dimension according to the needs of location to facilitate deployment and installation process.



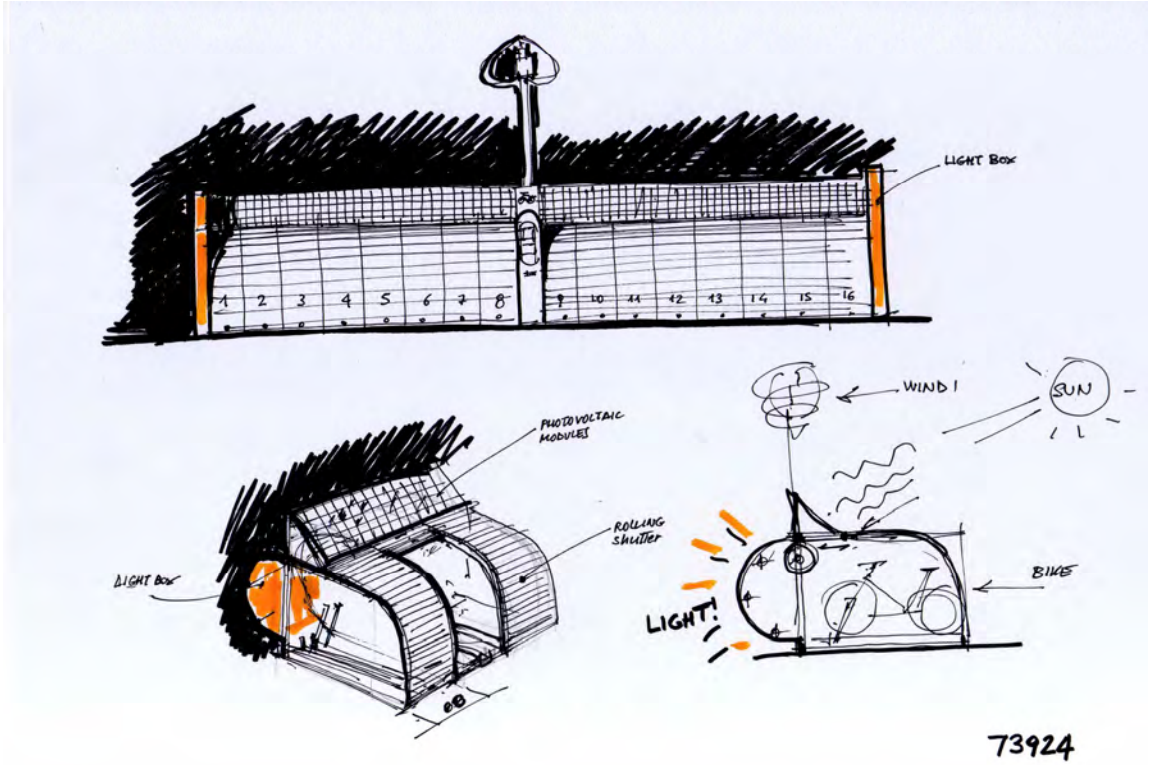
The BTS modules will be used to build the Copenhagen's bike system network. This new bike share system is based on the distribution of bike-safe mini-boxes with a manual single closing each.

The system is managed using a control-panel located in a central position, with a touch screen display, reading card and payment by sms.



These stations are provided with an energy generator system, working with a micro wind turbine and solar cells, able to produce energy to light every single box and the light-boxes at the two sides of the station. In the same way we can have energy for the free use of wifi, for the display on the top, for the GPS provided on the bikes and for eventual electric bikes.

This system consists in two inverter for the transformation of the direct current in alternative current and two counters, one for the production and one for breaking in/drawing. Energy in excess will, obviously, put in the electric system.

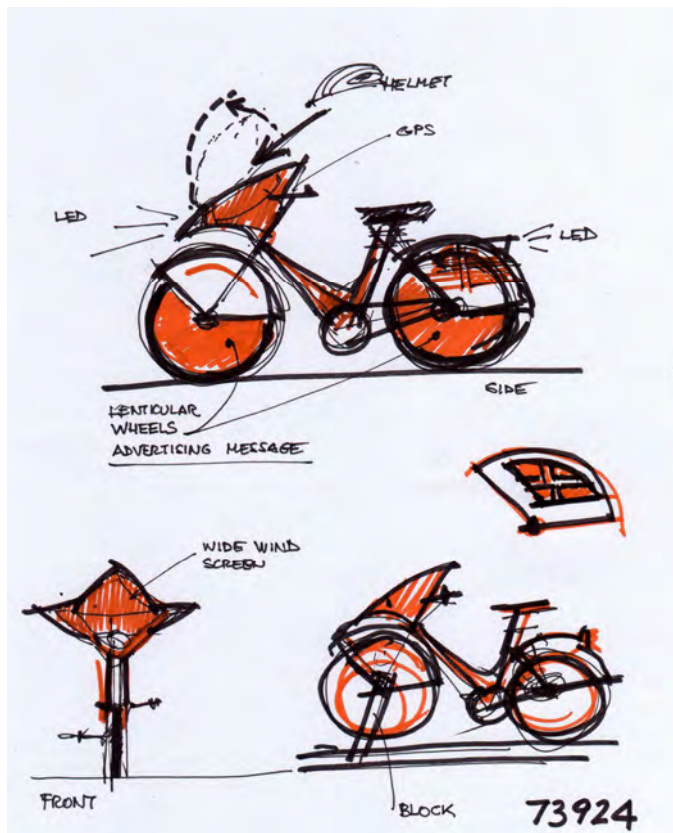


All the bicycles have a recognizable shape and they are provided with a little plastic box, with integrated front lamp, using as a container.

A service of mini tracks will arrange to collect and deal out the bikes on the territory, so that no one of the stations will result improvided.

Peculiarities of the bicycles

- Simple but recognizable design.
- Wind-screen in plastic, with opening side, using as a box for provided helmet and raincoat.
- Lenticular wheels printing with logo and advertising.
- GPS integrated, working with solar and wind energy.



Bike Technological Stations “BTS”

Every modular station is built with a structure in recycled aluminium.

The structure consists in two different parts: the front (access to the bikes) has a system for manual opening with rolling shutters in aluminium.

The back is shaped with a yellow meth-acrilate bended slab, back lighted at night by leds lamps.

The top presents a prismatic structure for photovoltaic cells (better if oriented to the south).

On the opposite side a back lighted display shows up to date information about the city and eventual advertising spaces.

The central module is an interactive element provided with a touch screen display, sms receiver, reading card for the service subscriptions.

Moreover, it can give information about availability of free spaces or bicycles in other bike share stations.

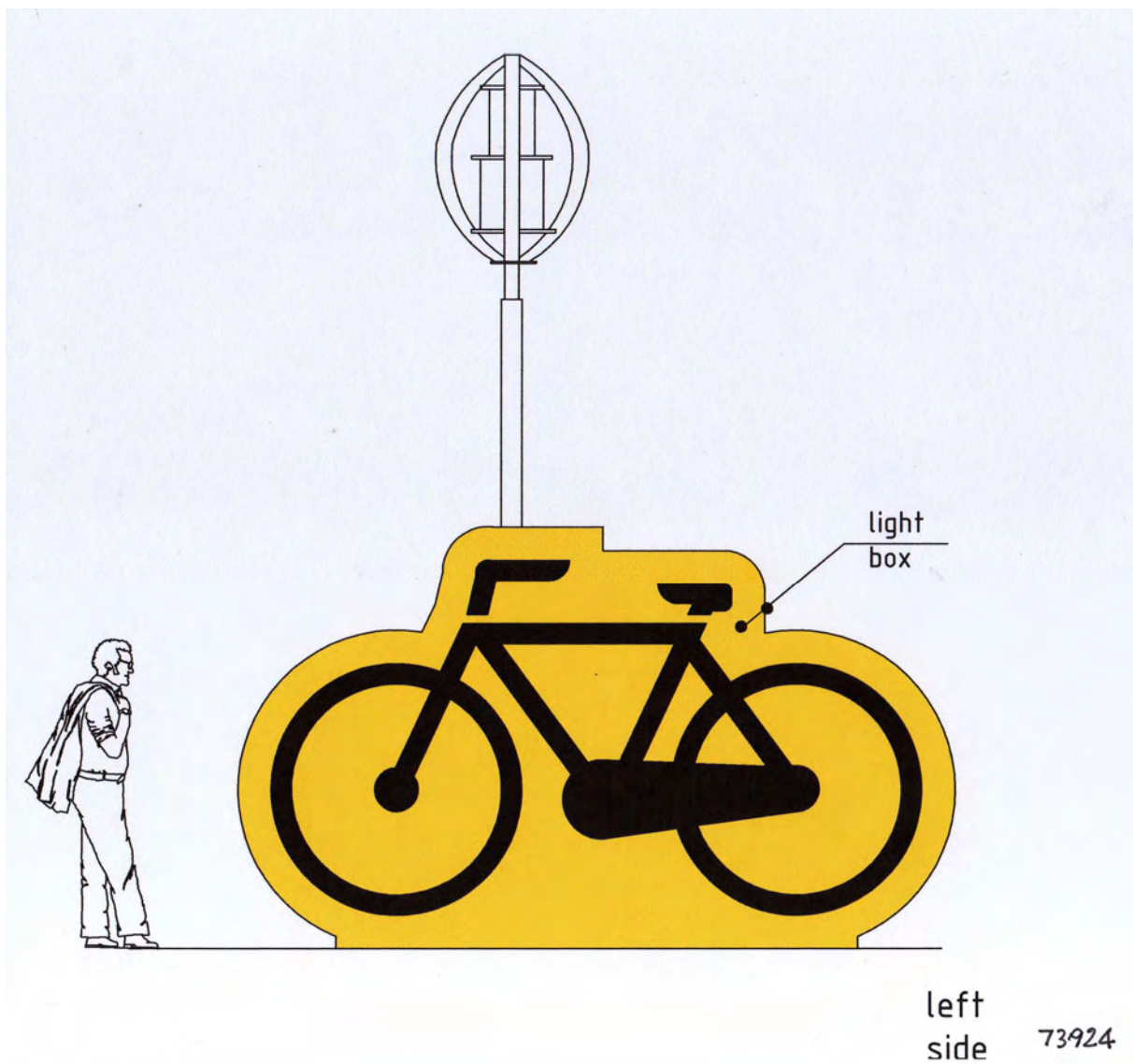
A characteristic element is a mini wind turbine generator, at the top, which represents a symbol, similar to a flag, to increase the visibility at a big distance.

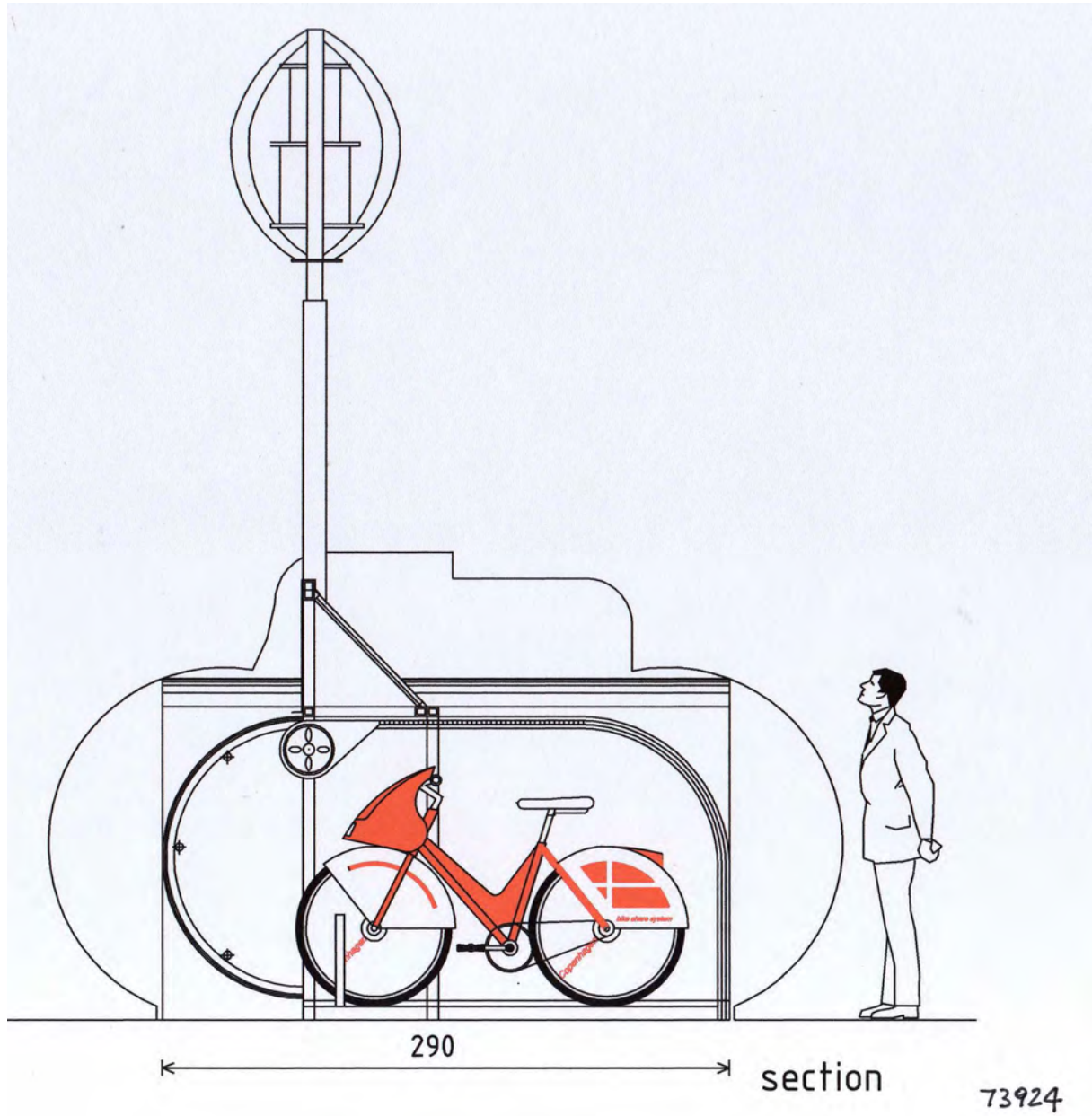
The modular stations are closed at the two sides by two yellow light-boxes with the drawing-symbol of a big bicycle, important for the station to be seen at a distance.

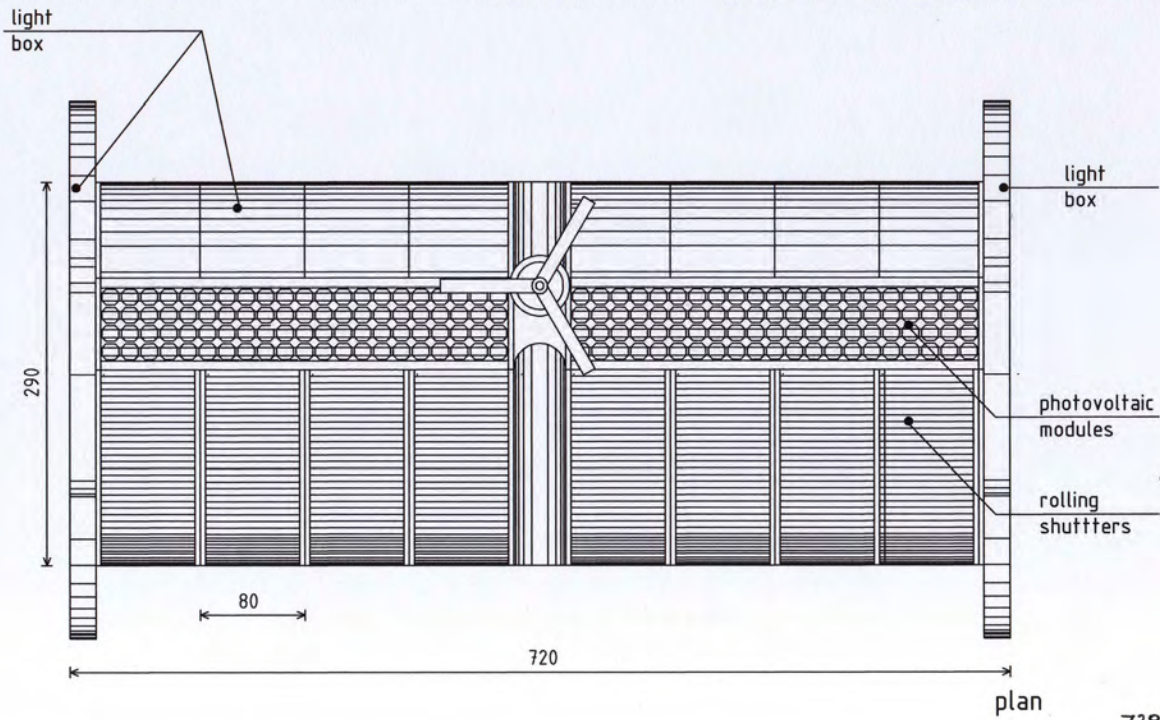


Main characteristics of the project

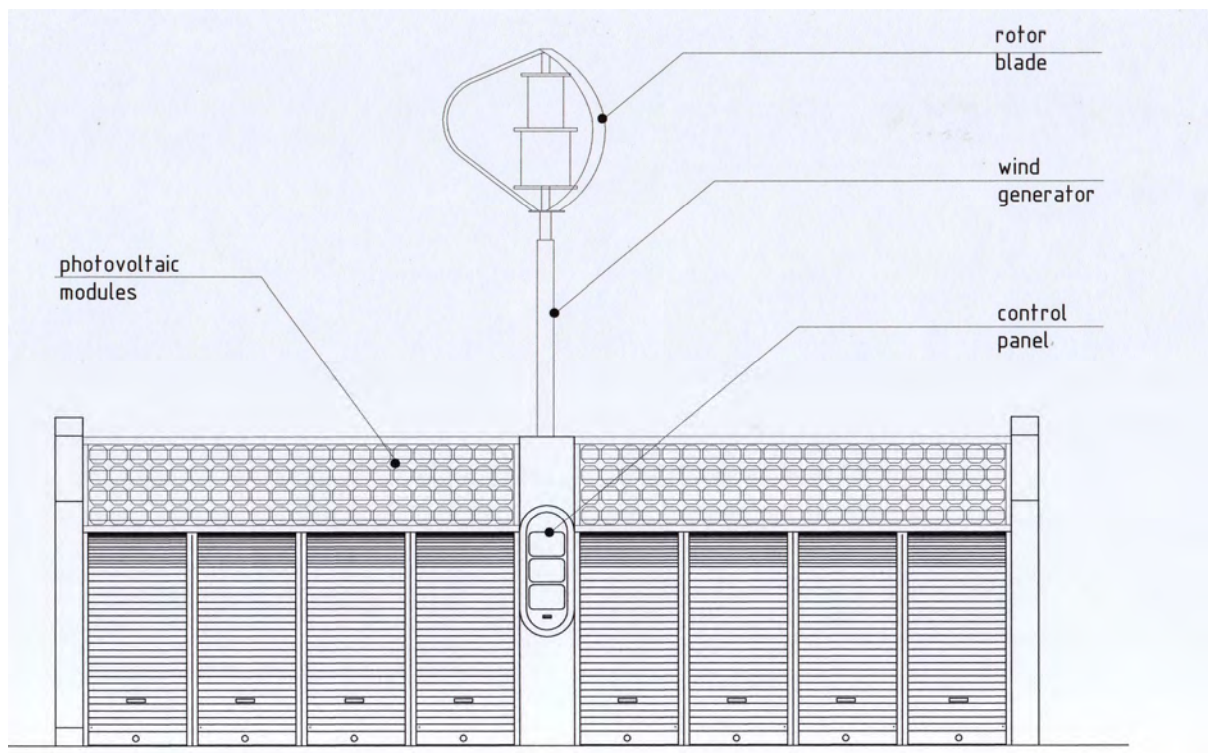
- Possibility of change in dimension.
- Environment respect. Green energy and saving.
- Safety and protection of the bicycles from steal and damage.
- A tidy image of the city thanks to a linear design.
- Visibility at a distance the day and the night
- Easy to use and easy to access service.





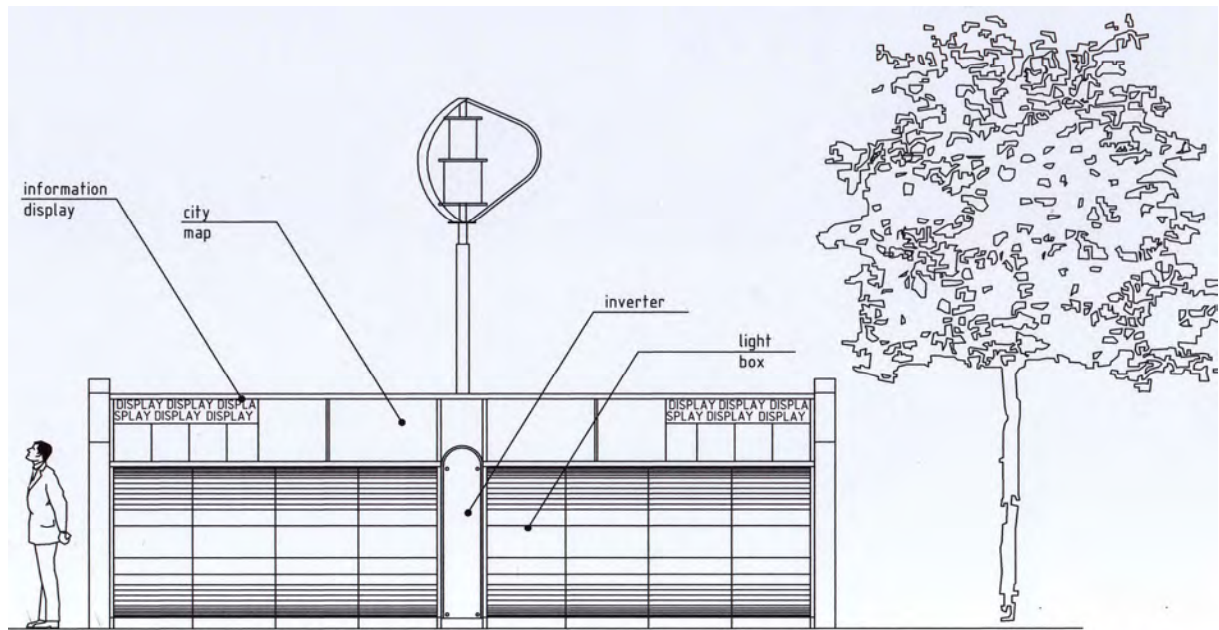


73924



front

73924



bach

73924

