

## SUDCAL, Esch-sur-Alzette (LUX)

project **new construction of a pump station for the production of district heating** client **Sudcal S.A., Esch-sur-Alzette (LUX)** planning services **WW+ complete architecture services** partner: civil engineering **Schroeder & Associés, Luxembourg (LUX)** partner: technical engineering **Goblet Lavandier & Associés, Luxembourg (LUX)** ufa **1.200 m<sup>2</sup>** gv **4.250 m<sup>3</sup>** start of planning **2007** realisation **09/2009 - 03/2011** award 2011 Nomination: **Prix Luxembourgeois d'Architecture (LUX)**

### Design description

The pump station building is located in a very representative part of the northeast entrance to the city of Esch-sur-Alzette. As a primarily technical building, its function is to store energy media and transport the latter as district heat to the surrounding areas.

The ensemble essentially consists of four building parts. The cubes are encased by an exposed concrete façade and a stainless steel mesh. The chimney with its metal film forms the highest part and has a very slim appearance, dividing the front façade into three zones. The particular properties of the metal film result in various lighting scenarios, projecting interesting building effects during the day and at night.

The choice of materials focused on ecological, economical and social aspects. Materials such as the stainless steel mesh or the concrete are thus fully recyclable, for instance.

### Exterior

The linking together of the individual structural elements was achieved through them being jointly placed on a type of base. This slightly elevated platform is surrounded by a steel strip. Basalt chippings providing a permeable surface act as a carpet around this structural patchwork. The additional exterior features trees and lawn.



