

# Sustainable renovation reference system – STIB (Brussels)

## CONCEPT

STIB has developed a Sustainable Renovation Reference System for its 69 metro and light rail stations. This scalable tool aims at ensuring that the environmental and societal impacts of a station are correctly addressed during all the phases of a station renovation.

## SUPPLIER

STIB has been assisted by the consulting company **IBAM** for the development of the Reference System.

## OBJECTIVES

- Assist design teams and management to design sustainable metro and light-rail stations
- Submit forms and relevant measures with clear measurable objectives that support the renovations to improve the sustainable approach for stations
- Give a performance score in the sustainable strategy from qualitative assessment measures
- Reference good practice, advice and recommendations within the sustainable metro and pre-metro stations for the measures concerned as guidance in the design process and management.

## INVESTMENT DESCRIPTION

STIB developed a Sustainable Renovation Reference System (SRRS) for the 69 metro and light rail stations in the city. The SRRS aims to evaluate the environmental quality of a station renovation project. This SRRS divides these stations in six comparable design types (e.g. one level above ground station or underground station with platforms on two different levels).

This system consists of two tools: a document describing the potential renovation measures and a self-evaluation tool.

In order to maintain flexibility, the SRRS works with three levels:

- **Minimum level:** on this level, the SRRS works as a tool for self-management. It serves as internal guidance and support to make decisions in various stages of a renovation project.
- **Medium level:** on this level the SRRS works as an internal self-management tool to potentially obtain a certification of environmental performance. An external auditor verifies the results afterwards.
- **Maximum level:** on this level the SRRS works also as an internal self-management tool but an auditor is present during all phases. The certification to obtain on this level is the BREEAM certification.

The reference system is strongly inspired from the BREEAM certification and addresses nine topics: management, health and well-being, energy, transport, materials, ecology, water and waste.

This reference system has been developed jointly with Brussels Mobility, the regional authority which is also owner of the stations. Many workshops were organized with internal stakeholders to ensure that the specificity of public transport stations was addressed.



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## COST AND FUNDING

The reference system was developed in parallel of the preparation the renovation of a metro station located in the centre of Brussels (De Brouckère). While it is impossible to evaluate precisely the cost of the development of the reference system, expenditures are mainly related to the organization of workshops and the writing of the reports.

## LESSONS LEARNED

Developing a reference system is a great opportunity to gather all the stakeholders and develop a common holistic approach to continue improving sustainability in stations.

This is a great opportunity to address a wide scope of topics with teams which are often working on the field.

The reference system enables to easily share with suppliers STIB's sustainability concerns and requirements. Addressing these issues at the very start of the renovation process improves the efficiency of the whole process and enables to save time and money.

## CONTACT

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