ABSTRACT

The Centre for Best Available Techniques (BAT) is founded by the Flemish Government, and is hosted by VITO. The BAT centre collects, evaluates and distributes information on environment friendly techniques. Moreover, it advises the Flemish authorities on how to translate this information into its environmental policy. Central in this translation is the concept “BAT” (Best Available Techniques). BAT corresponds to the techniques with the best environmental performance that can be introduced at a reasonable cost.

This study discusses techniques for saving energy within steam systems.
The opportunity for this study was provided by the BREF study “Energy Efficiency” at European level. BREF is an acronym of Best Available Techniques Reference document, which is a document established at European level in the framework of the development of the IPPC Directive.

As a member of the Technical Working Group (TWG) VITO provides technical input for this BREF. In consultation with other European partners it was decided that VITO would provide information regarding energy efficiency within steam systems. This information is also valuable for the Flemish industry. That is why it was decided to make this component available separately in Dutch. This study thus is not a BBT study strictu sensu. Data from this study have been submitted as input to the BREF.

Chapter 2 serves as an introduction to the study of energy efficiency in steam systems and provides more information about general notions and assumptions used in this study.
Chapter 3 establishes the framework through which the cost of steam can be determined.
The fourth chapter provides a systematic presentation of the different energy saving techniques.
The last chapter provides a brief overview of all information available regarding premiums, subsidies and support measures that companies can apply for when implementing the techniques proposed.

The current document is the revision of a first version that was published in November 2006. Compared to that version several corrections have been made, both in the introductory chapters and in the discussion of the available techniques.