Location Singapore

Type of project Research / Policy analysis

Client Public Utilities Board; Environment & Water Industry Development Council

Description

In view of the increasing water and energy demands in Singapore it was important to obtain a baseline for the present situation on water use for energy production and energy use in relation to water use and water management. This baseline was obtained through water and energy sector studies in Singapore, based on national data and drawing on international sector data, using analytical methods like water footprints and related methods for the energy uses in the water sector.

The understanding of the inter-linkages and the baseline situation enabled 1) an identification of knowledge gaps and needs for further research 2) an assessment of water and energy sector development plans in view of baseline situation and 3) an assessment on how climate change may affect the water sector and energy sector using available information from climate change scenarios.

The result of the research was translated into an assessment of policy implications and recommendations for water and energy sector developments in Singapore to assist decision-makers make appropriate policies for water and energy sector development.

Hence, the main elements of the study included:

1. Determination of water footprints of various types of energy production in Singapore
2. Determination of energy footprints in relation to use and management of water in Singapore
3. Analysis of the energy and water sector developments for a number of water management scenarios in view of projected climate change for Singapore
4. Assessment of policy implications and preparation of policy advices