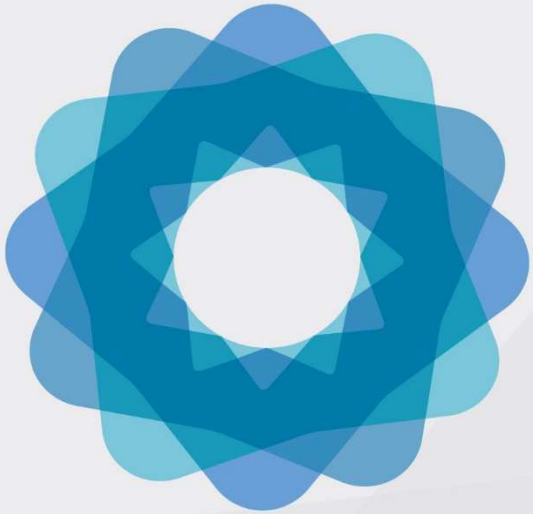


System of Environmental Economic Accounting

System of Environmental Economic Accounting

Exercise supply and use tables for water

United Nations

Background

The following exercise provides an example of how one part of the water accounts can be compiled, namely the physical flow accounts.

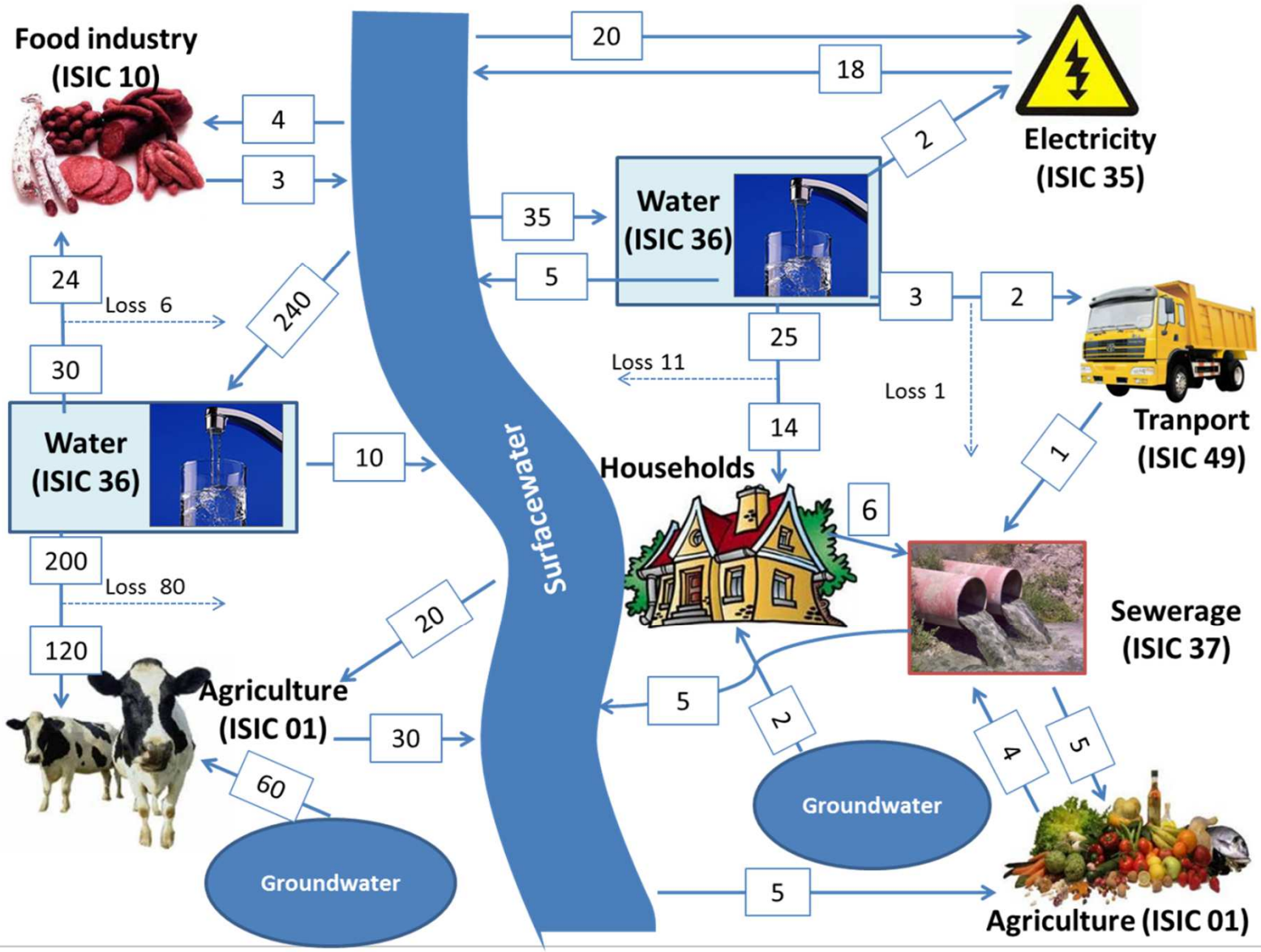
The purpose is for the participants to get a first contact to the rationale of compiling the water accounting framework and using it for analysis.

The idea is to show how data from different sources is integrated and how this integrated information can be used to derive indicators to address water related policy issues.

Instructions

- The following instructions are related to data from a hypothetical country. Water resources in this country are under pressure from an ever-increasing demand from economic activities and household consumption, loss and degradation of freshwater ecosystems and global climate change that affects water supply and demand. These circumstances are imposing a heavy burden on the country, specially a very high social cost.

- Participants should organize in groups and try to fill the Supply and Use Table (SUT) with the data provided below. The groups should discuss the results and derive conclusions.


Food industry
(ISIC 10)
4
3
24
Loss 6
30
240
Water
(ISIC 36)
10
200
Loss 80
120
Agriculture
(ISIC 01)
30
60
Groundwater
20
Surfacewater
20
18
Electricity
(ISIC 35)
2
35
Water
(ISIC 36)
5
3
2
Tranport
(ISIC 49)
25
Loss 11
Loss 1
14
1
Households
6
Sewerage
(ISIC 37)
5
2
Groundwater
4
5
5
Agriculture (ISIC 01)

Physical supply table for water

	Abstraction of water; Production of water; Generation of return flows							Flows from the Environment	Total supply
	1 Agriculture	10 Food industry	35 Electricity	36 Water supply	37 Sewerage	49 Transport	Households		
(i) Sources of abstracted water									
Surface water									
Groundwater									
(II) Abstracted water									
For distribution									
for own use									
(III) Wastewater and reused water									
Wastewater									
Reused water									
(IV) Return flows of water									
To inland water resources									
(V) Evaporation of abstracted water, transpiration and water incorporated into products									
TOTAL SUPPLY									

Physical use table for water

	Abstraction of water; Intermediate consumption; Return flows						Final consumption	Flows to the Environment	Total use
	1 Agriculture	10 Food industry	35 Electricity	36 Water supply	37 Sewerage	49 Transport	Households		
(I) Sources of abstracted water									
Surface water									
Groundwater									
(II) Abstracted water									
Distributed water									
fow own use									
(III) Wastewater and reused water									
Wastewater									
Reused water									
(IV) Return flows of water									
To inland water resources									
(V) Evaporation of abstracted water, transpiration and water incorporated into products									
TOTAL USE									

SEEA