Wetskills-China 2018

Overview of Study Cases

Case 1: Detention Basin in Coastal Plain Areas in Zhejiang Province

Case owner: Zhejiang Institute of hydraulics and Estuary

The coastal plain areas in Zhejiang Province is prone to typhoon storm surge disasters and waterlogging disasters due to the backwater effect of high tide level during torrential rain periods. It is envisaged to build a detention basin in coastal plain areas, which connects with open seas under normal conditions. When a strong rainfall is predicted and there is low tide level at open seas, the sluice gate is closed to keep a low water level in the detention basin so that floods can be discharged into the detention basin when the strong rain comes, minimizing the waterlogging possibility. At the same time, the detention basin would form a buffer zone to enhance the capability against typhoon storm surges.

Case 2: (Pour) water versus soil energy

Case owner: Westland Municipality

In a greenhouse horticulture municipality, such as Westland Municipality, both energy management and the availability of good irrigation water are essential for production of the crops. The subsurface is a source and buffer that are interesting and used for both renewable energy (with cold-heat storage) and irrigation water. But this leads to a conflict between both due to the limited capacity in aquifers. How can we use the existing aquifere capacity for both renewable energy and irrigation water in an harmonious way?

Case 3: Adapting to climate change in Overijssel

Case owner: Province of Overijssel

Province Overijssel is working on becoming water robust and climate resilient in 2050. This starts by identifying the areas with the highest risk and by engaging in dialogue with the stakeholders. The challenge is to connect themes such as water, nature, agriculture, energy, mobility and spatial development in the approach. Working together with municipalities, waterboards and other stakeholders is essential. How do we identify the biggest bottlenecks and work together in “good governance”?

Case 4: Integrated and standardized management platform for whole life cycle

Case owner: Zhejiang yugong information technology co., ltd

Water conservancy project from construction, operation until scrap seems to be a living life, as a water conservancy people we should manage it wholeheartedly in the whole process of its life, with the applications of modern technology. Recently, we developed the integrated management software system of water conservancy project construction process, standardized operation management software system of water conservancy project, and some kinds of optimization scheduling decision software system, etc. How can this provide decision-making for the whole life optimization management of water conservancy project: to improve the service life of water conservancy project and benefit people for a long time!