

Going underground

PUB is exploring the possibility of using underground space for drainage and water storage to help Singapore overcome the effects of climate change, such as more intense rain and prolonged dry spells. A tender for a feasibility study will be called in the coming months.

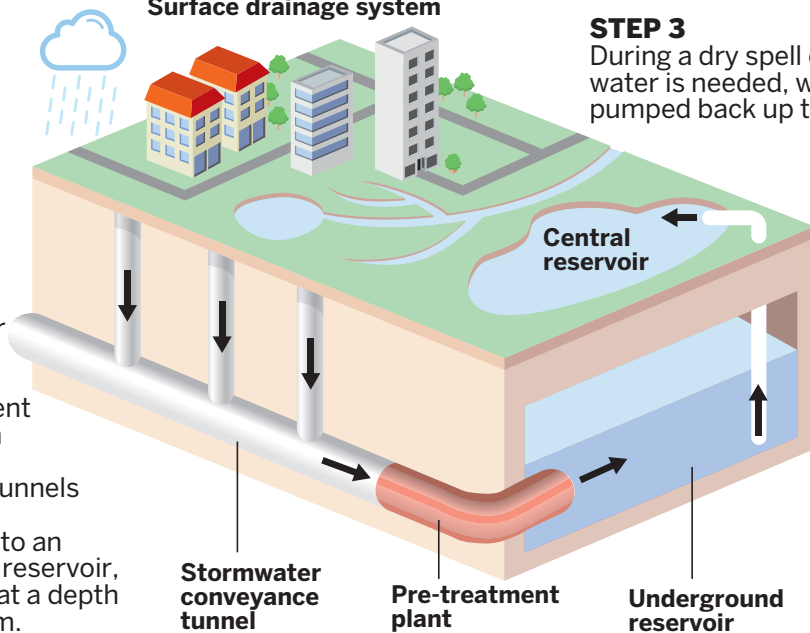
STEP 1

Rainwater is collected in the surface drainage system, including the reservoirs.

STEP 2


The rainwater will be channelled to a pre-treatment plant through stormwater conveyance tunnels before being discharged into an underground reservoir, which will be at a depth of about 100m.

Surface drainage system



STEP 3

During a dry spell or when the stored water is needed, water will be pumped back up to the surface.

 The study will also look at the possibility of harnessing energy from the flow of water from the surface water bodies to underground reservoirs for conversion into electrical energy.