

WATER RESOURCES & HYDROLOGICAL CHARACTERISTICS

- Increase resilience to heavy rain events and water shortages.
- Use water more conservatively and efficiently.
- Diversify freshwater sources.

Increased likelihood of flood events.

- Improve drainage of roads and surrounding areas, especially in flood prone areas – improve road drainage design and construction; improve land use planning; minimise land clearing and creation of impervious surfaces; utilise pervious concrete or porous pavement; and clean, prune and monitor ghuts instead of lining with concrete. (PA)
- Start serious reforestation programme to reduce stormwater runoff and erosion. (PA)
- Enhance local weather monitoring and modeling to provide early flood warning systems. (PA)
- Start flood prevention programmes in low-lying areas,



Photo credit: Department of Disaster Management

- including evacuation and recovery plans. (PA)
- Encourage homeowners and businesses to purchase adequate flood insurance. (PA)

Decreased rainwater, leading to greater dependency on the desalinated public water supply and an increased threat of water shortages in emergencies. ★★

- Develop a sustainable freshwater, watershed and coastal waters management and pollution prevention plan. Conduct a water carrying capacity study. (PA)
- Repair and expand public infrastructure for water capture, storage and delivery. (PA)
- Continue and expand the leak detection programme for the water distribution system. (PA)
- Work to eliminate water theft through illegal water connections (PA).
- Improve methods of household capture, storage and use of rainwater. (PA)
- Tap into groundwater resources for use in specific sectors, e.g. agriculture. (AA)
- Implement strict water conservation and efficiency programmes. (PA)
- Invest in the capture, basic treatment and reuse of stormwater for specific purposes. (PA)
- Plan for the expansion of desalination production capacity to meet projected water demand. (PA)

Increased cost of desalinated water.

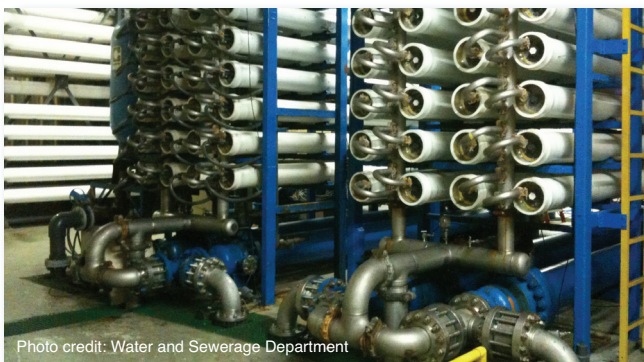


Photo credit: Water and Sewerage Department

- Increase competition in the bidding process to produce desalinated water. (PA)
- Explore possibility of using solar-powered desalination technology. (PA)
- Reduce per capita demand for desalinated water. (PA)