



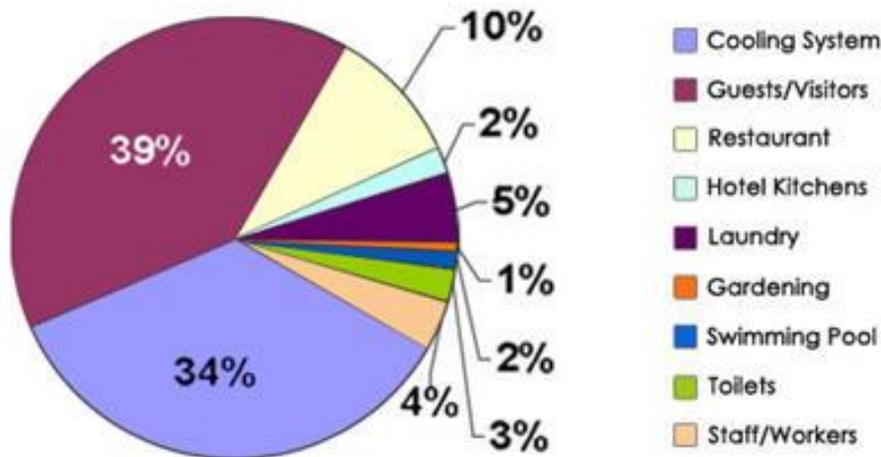
Water Efficiency Measures for Hotel

This material is used for reference only.

Water Efficiency Measures for Hotel

Before we explore how to reduce water consumption and operating costs, let's find out where water is most used in a hotel.

Below is a generic breakdown of a hotel's water usage for reference. The two areas that use water most are guest rooms and cooling towers.



Below is a list of water conservation tips for hotel.

1. Water Tank
 - Plan the hotel's cleaning schedule so that the water stored in the water tank can be used for planned cleaning and not be drained away.
 - When washing water tank, use water from another water tank scheduled for cleaning to minimise wastage.
2. Cooling Tower

Mandatory Measures

- Install drift eliminators

Water Efficient Measures

- Install side stream water filter, make condenser water clean
- Install anti-splash louvres or splash mats
- Install variable drive speed fans
- Consider using alternative water sources like NEWater, rainwater and condensate water
- Plan for routine visual inspection of the water cooling system to check for leaks to prevent water wastage.

3. Guest Room

Mandatory Measures

- Install constant flow regulators at wash basin taps and mixers, shower taps and mixers, bib taps as well as sink taps and mixers

Water Efficient Measures

- Adopt water efficient flow rate
- Install water efficient fittings with 'excellent' ratings
- Install water efficient cistern that has a dual flush low capacity and uses only 4.5 litres or less water for the flush.
- Use low flush for flushing of liquid waste
- Do not allow toilet cisterns to overflow
- Do not use the toilet's water closet suite as a trash basket
- Turn off shower while soaping
- Take quick shower
- Reuse towel whenever possible

4. Toilet

Mandatory Measure

- Install self-closing delayed action taps at wash basins and shower points
- Install constant flow regulators at wash basin mixers, shower mixers and bib taps

Water Efficient Measures

- Adopt water efficient flow rates
- Install water efficient fittings with 'excellent' ratings
- Install water efficient dual flush low capacity flushing cistern, which uses only 4.5 litres or less water.
- Use low flush to flush away liquid waste
- Install waterless urinals
- Reduce flush volume of urinals to 0.5 litres per flush
- Do not allow toilet cisterns to overflow
- Do not use toilet's water closet suite as a trash basket
- Display a hotline number in the toilet to allow public feedback on water leakage, defective fittings, etc.

5. Laundry

- Recycle rinse water from a washing machine's last cycle for first wash
- Operate washing machine only when fully loaded
- Turn off and isolate the steam supply to equipment when it is not in use.
- Choose water efficient counter-current flow continuous batch washers and steam as compared to conventional washer-extractor.

6. Kitchen/Cooking area

Mandatory Measures

- Install constant flow regulators at sink taps, mixers and bib taps

Water Efficient Measures

- Adopt water efficient flow rate
- Install water efficient fittings
- Wash vegetables and dishes in a filled sink instead of under running taps
- Do not thaw frozen food or melt ice under running water
- Use a low flow rinser for washing of dishes

7. Swimming Pool

- Set the operating water level in the balancing tank at appropriate level to minimize water flow
- Install pilot valve system at balancing tank to better control the water levels and help minimize water loss
- Use pool cover to reduce evaporation rate when applicable
- Set backwash duration to under 5 minutes
- Reuse backwash water for irrigation and area cleaning, etc.
- Keep pool chemically balance to prevent water quality problems

8. Meter Position

- Read your water meter regularly to monitor your water consumption

9. Water Controller

- Get employees to attend the Water Efficiency Manager Course to learn about managing a water efficient building.
- Carry out water audits and monitor the water consumption in various areas of water usage within your premises
- Install private water meters at different areas to monitor water usage
- Take meter readings regularly, i.e. daily or weekly
- Inspect the water reticulation system for leaks and repair leaks promptly.
- Educate workers/employees on water conservation through pre-work briefings, talks, discussions, publicity materials, etc.
- Liaise with PUB officers on matters pertaining to water conservation
- Work with PUB to get your building audited and certified under the Water Efficient Building Certification Programme.

9. Irrigation

- Use a hose with nozzle to water your plants and filed, if needed.
- Install an automated drip system (with weather sensors) for plant irrigation, if possible.

- Choose drought resistant plants or similar plant types to minimise water used.
- Use NEWater, condensate water, recycled water or rainwater, etc, for non-potable use such as watering of plants and general washing.
- Water the plants in early morning or late evening to reduce evaporation loss.

10. Others

- Wash your floor with a mop and bucket instead of a running hose or high-pressure jet.
- Instruct cleaners/maintenance crew to conserve water at all times during cleaning activities.