

## Low-flow Toilet Upgrades

Flushing a toilet often uses an unnecessary volume of water, presenting opportunity for significant savings. Standard toilets drain the entire cistern for each flush. Urine requires smaller flushing volumes than faecal solids and therefore using a full cistern flush for liquids is wasteful. Toilet flushing consumption can easily be optimised through simple water saving initiatives (and good maintenance).



### Recommendations

- ❑ Specify and install low-flow and/or dual flush toilets.
- ❑ Suggested flush rates:
  - 5 litres per flush - Single flush toilets
  - 3-6 litres per flush - Dual flush toilets
  - Ultra low vacuum toilets in buildings are available on the market with flush rates of 0,6 litres per flush.
- ❑ For Existing toilets:
  - Place filled 1 litre beverage bottles/bags in cistern.
  - Install a “hold-flush” mechanism in the cistern.
- ❑ Contact Ecolution for more details.

Environmental Improvement	High
Awareness Impact	Medium
Capital	Low
Payback	< 1 year

### Savings and Benefits

- ❑ Conventional Water Consumption = 6 to 15 litres/flush.
- ❑ Water Efficient Use = 3 to 6 litres/flush.
- ❑ Water use savings possible = 50 to 75%.
- ❑ Very quick payback periods.

Bottle displacing water in the cistern



(B. Biggs, 2017)

Toilet Stop - a “hold-flush” mechanism



(Easy Eco, 208)