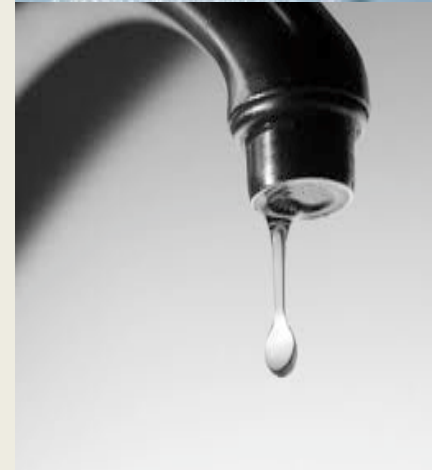


Reducing Water Use

- Water is essential to everyday life
- Water demand in Scotland is still increasing
- Climate Change is likely to reduce future water supply, particularly during summer
- It is prudent to reduce our water use



Benefits of Reducing Water Use

- In 2009 Council's water bill = £1,688,000
- Water Use is up to 6% of UK's Co2 emissions
- Water Efficiency could reduce water bill



Water Waste

- We each use 150 litres of water a day
- We waste a third of this!
- One dripping tap wastes up to 5,500 L a year
- Significant savings can be achieved through technical upgrades and behavior change



Water Meters

- Scottish Government requirement for all businesses
- You only pay for the water you use
- Identifies high consumption sites
- Enables water leaks to be detected



Don't Flush Savings Away

- WC's account for up to 75% of water use in washrooms
- A hippo bag can reduce each flush by up to 3 litres
- Hippo's can be fitted in 6.5L + cisterns
- Council supplies free Hippo's to all sites



Low/Dual Flush Toilets



- Water Byelaws require low flush toilets
- Council requires low flush replacements
- A low/dual flush can save up to 30%
- Variety of systems/sizes available
- Dual flush systems should be clearly labeled
- Ultra low flush systems not recommended

Urinals

- Over 50% of business water use
- Most urinals flush continuously
- Urinal controls can save up to 50%
- Motion sensors can be retrofitted
- Installation cost of £180



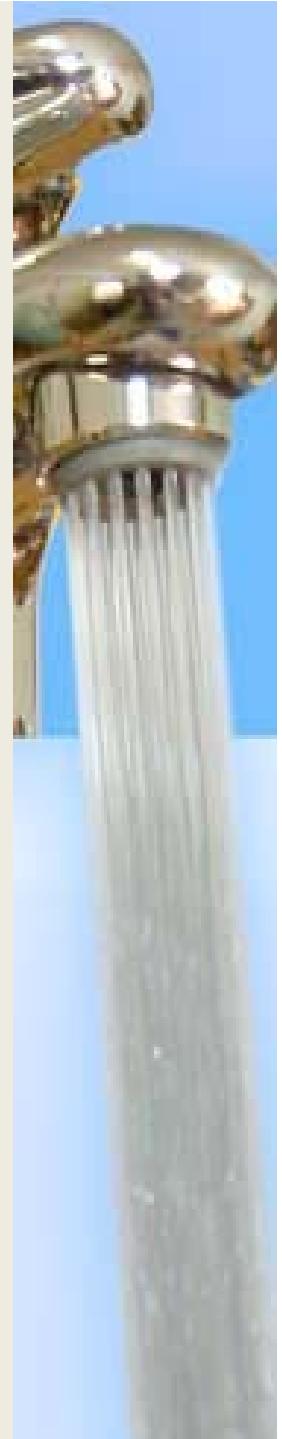
Waterless Urinals

- Only use water for routine cleaning
- Water saving of up to 90%
- Easy to clean
- Odor may be a problem
- Retrofit available but not recommended



Washroom – Spray Taps

- 33% of water use through taps
- Spray taps can reduce flow by 80%
- Retrofit available
- £4 per tap with a payback time of 6 months
- Does not regulate water pressure
- Requires maintenance to prevent blockages
- Not recommended for infrequent use



Washroom – Push taps



- Self closing tap
- Prevents flooding and wastage when taps left running
- Retrofit available. £20 per tap
- Payback time of 2-3 years
- Some maintenance required

Kitchen – Tap Aerators

- Mixes air with water to reduce flow without any visible difference
- Retrofit available - £5 per tap
- Saving of approx £13 per tap/year
- Payback time of 6 months
- Pressure regulating aerators available



Key Considerations

- Water Efficiency Labeling Scheme
- Water Supply (Water Fittings) Regulations 1999
- Water Byelaws Scotland (2004)
- Installation Costs



New WEPLS labels indicate the water efficiency of a product



Conclusions

- We need to reduce our water use to adapt to Climate Change
- Water Efficiency saves water, energy, money and reduces carbon emissions
- Savings of up to 33% can be achieved

Useful Links

- www.highland.gov.uk/waterminimisation
- www.waterwise.org.uk
- www.water-efficiencylabel.org.uk
- www.water-efficiency-buidings.org.uk