Business Model

- Saves up to \$20 a year per person in Massachusetts (mostly cost of heating water)
- Initial retail price of \$200

Target Users

- Environmentally-conscious homeowners
- Residents in Southern US states with severe droughts
- Europeans whose water costs up to 4x more than that of US

Manufacturing Cost Assessment

Material/Mnfg. cost of \$80

Market Penetration

- Net Profit Margin of **\$120**
- Estimated market volume of 70,000 unit in 3 years (0.7% of environmentally-conscious homeowners in the US, estimated at 9.5 million)
- Projected profit of \$4.5M in 3 years

Yellow Team

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Special Thanks

Professor Wallace, Professor Magee, Professor Sclavounos, Professor Leeb, Ben Powers, Lydia Volaitis, 2.009 TAs and technical staff, and Z Corporation

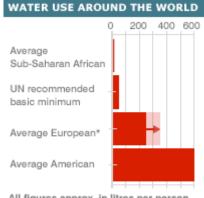


Yellow TeamMIT, Edgerton Hall
December 10, 2007

Saving Water

US and International Issue

- Currently, the Southeast U.S. is plagued with droughts and water conservation is becoming increasingly important.
- The UN recommends that people need a minimum of 13 gallons per day for drinking, washing, cooking and sanitation. However, the average sub-Saharan African has access to only 2.7 gallons a day*.



All figures approx, in litres per person per day

Average Shower

 20-50 gallons of water used per shower (~13,000 gallons a year!)

*intelli*Shower

- saves **2.5 gallons** per shower (900 gallons a year!)
- **300 kWh** of *electricity* saved per person/year

*Source: news.bbc.co.uk

Design Features

*intelli*Shower

While showering, a great deal of water is wasted when lathering. Our system automatically decreases the flow, to conserve water, and manually returns to high pressure by pressing a button. The user can enjoy the pleasure of showering, while saving water!

Laser Light Sensors

Detect when user reaches for soap/bottle and decrease the flow to low pressure setting

Analog Circuit

Simple and reliable circuit enclosed in safe, waterproof casing

Illuminated High-flow Button

Easy-to-find button illuminates during low-flow and returns flow to high pressure when pressed

Servo-Motor & Housing

Turns valve to decrease amount of water flow to 50% and allows for easy installation

Rechargeable Battery Pack

Powers device and allows for easy recharging of batteries

LED light-low battery indicator

Notifies user when battery is low