


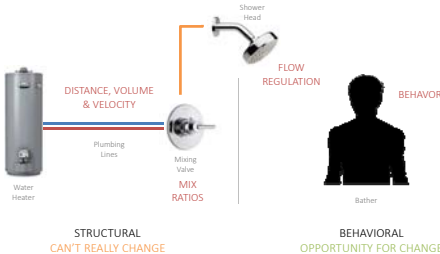
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How To Reduce Your Rental's
Water/Energy Consumption
& Qualify For Green Loans



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Shower Structure – Key Considerations For Water & Energy Use



Water Heater

Plumbing Lines

DISTANCE, VOLUME & VELOCITY

Mixing Valve

MIX RATIOS

Shower Head

FLOW REGULATION

Bather

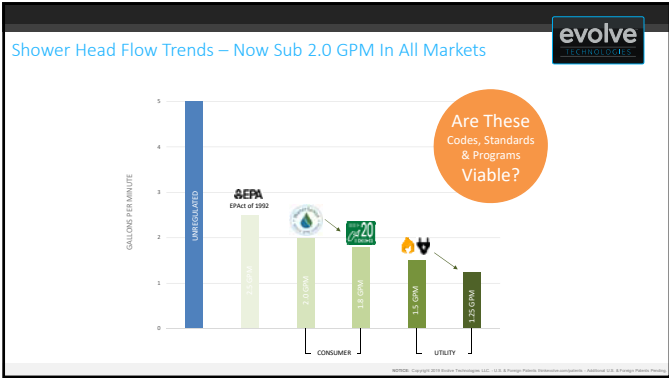
BEHAVIOR

STRUCTURAL
CAN'T REALLY CHANGE

BEHAVIORAL
OPPORTUNITY FOR CHANGE

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Shower Heads & Flow Regulation
(how low can you go? are we already there?)





Behavioral Considerations

(what we do and how we're making the problem worse)

Waiting For Hot Water Is Inconvenient – Most Do Something Else



71%
do other stuff while waiting for hot water to reach the shower



52%
do more than one thing as part of their warm-up routine




60%
say routine, not presence of hot water, dictates time spent away from shower

Lawrence Berkeley National Lab, LBNL 2011 "Water And Energy: Rethinking During Residential Shower Survey"
Evolve Technologies, Shower Survey 2018
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Result: 20% - 30% OF A Shower Is Wasted Before Bathing Begins



**~ 2 Minutes
Of This
WARM-UP WASTE**



**~ 6 Minutes
Of This
BATHING USE**

SOURCE: 2004 and 2011 papers from LBNL at Lawrence Berkeley National Lab determines that shower warm-up waste makes up 20% - 30% of the water and energy used for showering.
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The Behavioral Waste Component of Warm-Up Waste

WARM-UP WASTE



**~40%
of warm-up
waste volume**

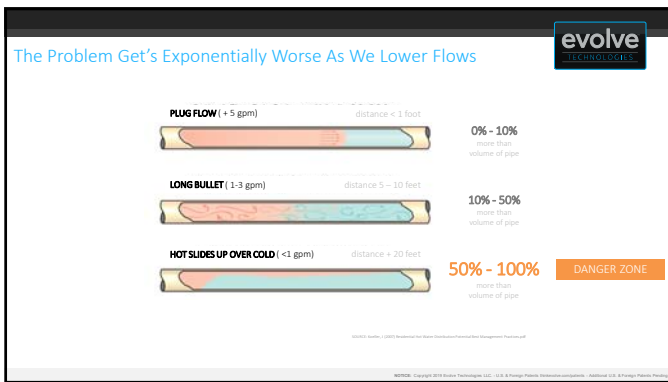
**~60%
of warm-up
waste volume**

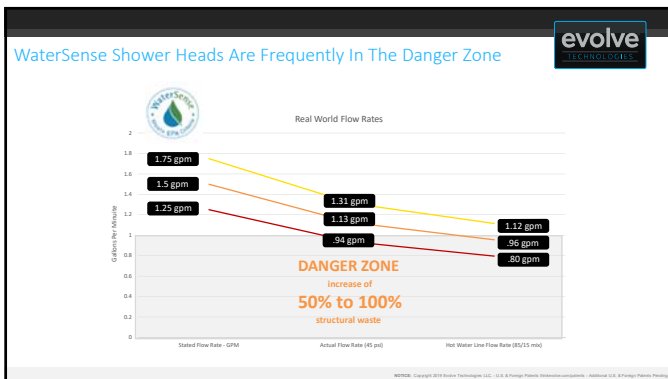
BATHING TEMP PLATEAU

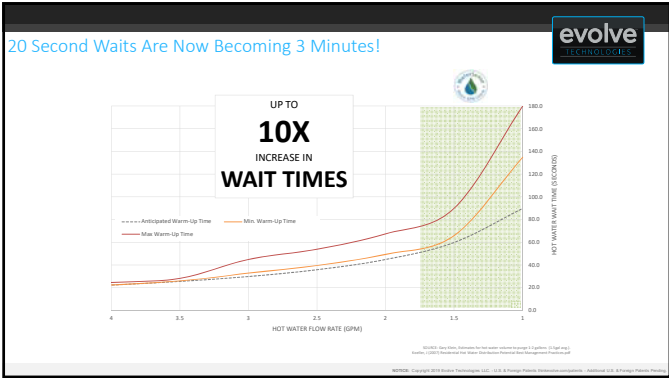
**BATHER
ADJUSTS TEMP DOWN
FOR COMFORT
(105 F - 100 F) & BEGINS
SHOWERING**

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Elegantly Addressing Behavioral Issues
(saving water & energy, while improving the shower experience)

The Benefits of Thermostatic Valve Technology (TSV)

SAY HELLO TO A *Better Shower*

More Hot Water | More Convenience | More Freedom

A TSV saves water and lowers your bills without impacting your shower feel or flow

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Additional Attributes

*Freedom
in Flow*

Multitask without the guilt - say goodbye to hot water waste while you're waiting for your shower to warm.

*Warm and Waiting
for You*

Stops your shower when it's hot. No more empty showers running on and on and on.

*Perfect Flow
Every Time*

Doesn't change shower head feel or flow of the great feeling shower you need and deserve.

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How A TSV Works

1 Turn on shower.
Cold water exits. Continue with your typical routine - the things you do while waiting for the shower to become warm.

2 ShowerStart® kicks in.
When the water reaches 95°F, ShowerStart automatically lowers the flow to a trickle - saving hot water until you're ready to get in.

3 Ready when you are.
You know your shower is warm, so pull the cart to resume full flow and enjoy showering.

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A TSV Is Even Better In A Tub Spout

WARM-UP WASTE


85%
at
5 gpm

Eliminates A Much Larger Percentage of Warm-Up Waste At A Much Higher Flow Rate
5 gpm or more vs. 2.5 gpm or less

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A Tub Spout TSV Saves Water & Energy In 4 Unique Ways



REDUCES
STRUCTURAL
WASTE

.4 gallons


Higher warm-up velocity
reduces thermal loss & heat to
purge before hot arrives



ELIMINATES
BEHAVIORAL
WASTE

5.1 gallons


ShowerStart TSV integrated
into tub/shower eliminates
behavioral waste



PROVIDES
EFFICIENT
SHOWERING

6 gallons

WaterSense certified
showerhead saves water while
bather is showering




STOPS
LEAKING
TUB SPOUT

4.5 gallons


Positive, pressure sealed shut
off prevents tub spout from
leaking during shower

Up To 16 Gallons Saved Per Shower

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How It Works



1 Turn on water -


Cold water exits spout

Continue with your typical routine -
the things you do while waiting for
the shower to become warm




2 Auto Diverts, Then
Showerhead Trickles

When hot water arrives, ShowerStart
technology automatically diverts
flow. Showerhead trickles - saving
hot water until you get in.




3 Pull Cord When
Ready To Get In

Pull the cord to activate normal
flow and begin showering



4 Option: Taking a Bath

If a bath is preferred, simply push
tub spout lever back to its original
position



Applegate Apartments – A Case Study

(156 unit complex in Frederick, MD)

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Case Study: Applegate Apartments, Frederick, MD



PROPERTY PROFILE	
Owner/Manager	Maryland Mgmt.
Name	Applegate Apartments
Location	Frederick, MD
Buildings	2
Apartment Units	156
ADTS Installation	Summer 2016
Pre Install SH Flow Rate	1.5 gpm
Post Install SH Flow Rate	1.5 gpm
Additional Water Measures Installed	None

Case Study: Applegate ADTS Water Savings Potential


YES	YES	NO	YES	
				<div>10 GALLONS SAVED PER SHOWER</div>
.4 GALLONS SAVED	5.1 GALLONS SAVED	0 GALLONS SAVED	4.5 GALLONS SAVED	
Structural Waste	Behavioral Waste	Efficient Showering <small>USE FOR THE SHOWER HEAD REPLACEMENT **</small>	Anti-Leak Tub Spout	

* Picking up incremental shower head savings has the potential to increase total ADTS savings by up to 33%.

Case Study: Applegate Predicted Yearly Water Savings

WATER SAVINGS VARIABILES	
Apartment Units	156
Bathrooms Per Apartment	1
Persons Per Apartment	2
Shower's Per Person Per Day	0.75
Days Per Year	365.25
Occupancy Rate	0.90
ADTS Predicted Gal. Saved/Shower	10

PREDICTION
769,217
GALLONS SAVED PER YEAR



[illegible][illegible]

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Poll Questions

1. Would you be interested in receiving more information on TSVs?
2. Would you like to receive a savings calculator to estimate savings for your property?
3. Would you like to talk to an evolve representative to learn more?
4. Would you like to evaluate a FREE product sample?
5. Would you like us to connect you with a Green Loan consultant?

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Thank You!

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