



AWE PROJECT STATUS UPDATE

Meeting of the Water Planning Council

November 3, 2020



Alliance
for Water
Efficiency



RATES WORKSHOP MARCH 16

- 9:00 **Workshop Logistics and Welcome**
(Mary Ann Dickinson, AWE, & Jack Betkoski, CT WPC)
- 9:10 **Setting the Stage in Connecticut**
(Lori Mathieu, CT DPH)
- 9:40 **Strategies for Aligning Rates, Revenue and Resources**
(Mary Ann Dickinson, AWE)
- 10:35 **Break** (10 minutes)
- 10:45 **Effective Rate Modeling in an Uncertain World**
(Bill Christiansen, AWE)
- 11:45 **Q&A**
- 12:00 **Adjourn**



RATES WORKSHOP MARCH 17

- 9:00 **Opening Welcome**
(Jack Betkoski, CT WPC)
- 9:05 **Revenue Adjustment Mechanisms for Public Utilities: Options and Solutions**
(Dr. Janice Beecher, Institute of Public Utilities, MSU)
- 10:00 **Water Supplier and Commissioner Perspectives: How to Get to Yes on Rates**
(Moderator: Mary Ann Dickinson, AWE)
- 10:45 **Rate Model Case Studies: 2 CT Water Suppliers**
(Bill Christiansen, AWE)
- 11:45 **Q&A and Future Steps**
- 12:00 **Adjourn**



NEXT WORKSHOP PLANNING STEPS

1. Confirm panelist speakers
2. Get attendee invitation lists from DPH, CWWA, CT AWWA
3. Send out a Workshop Notice
4. Set up workshop registration through Eventbrite (free)
5. Prepare Rate Model Case Studies for RWA advance workshop packets to registrants

CONNECTICUT WATER PLANNING OPPORTUNITIES

FIXTURE STANDARDS

- Federal law sets the following as maximum flow rates for commonly used fixtures
 - Toilets: 1.6 gallons per flush
 - Showerheads: 2.5 gallons per minute
 - Urinals: 1.0 gallons per flush
- Fixture standards in Connecticut law now match the federal standards (www.cga.ct.gov/current/pub/chap_417.htm#sec_21a-86)
- Mandating reduced fixture flow rates at the state level will save water statewide
- Other states have done this

CONNECTICUT WATER PLANNING OPPORTUNITIES

FIXTURE STANDARDS

- Considerable precedent for states to adopt water use standards for toilets, showerheads, faucets, and urinals that are more stringent than federal standards
- This is a role Connecticut has played before, with 1989 legislation mandating 1.6 gpf toilets well before the federal standard was enacted in 1992
- Savings are “free” and at no cost to utilities
- Adopting legislation will protect Connecticut from current harmful national policy changes

CONNECTICUT WATER PLANNING OPPORTUNITIES

FIXTURE STANDARDS

- EPA's WaterSense program certifies fixtures that use less water than as standard fixtures and are proven to perform as well
 - Toilets: 1.28 gallons per flush
 - Showerheads: 2.0 gallons per minute
 - Urinals: 0.5 gallons per flush
- Connecticut State-Level Census Data Suggest there is Opportunity
 - 525,000 single-family 3.5+ gpf toilets may remain
 - 240,000 multi-family 3.5+ gpf toilets may remain
 - 95,000 CII 3.5+ gpf toilets may remain
 - 29,000 CII inefficient urinals may remain

CONNECTICUT WATER PLANNING OPPORTUNITIES

FIXTURE STANDARDS

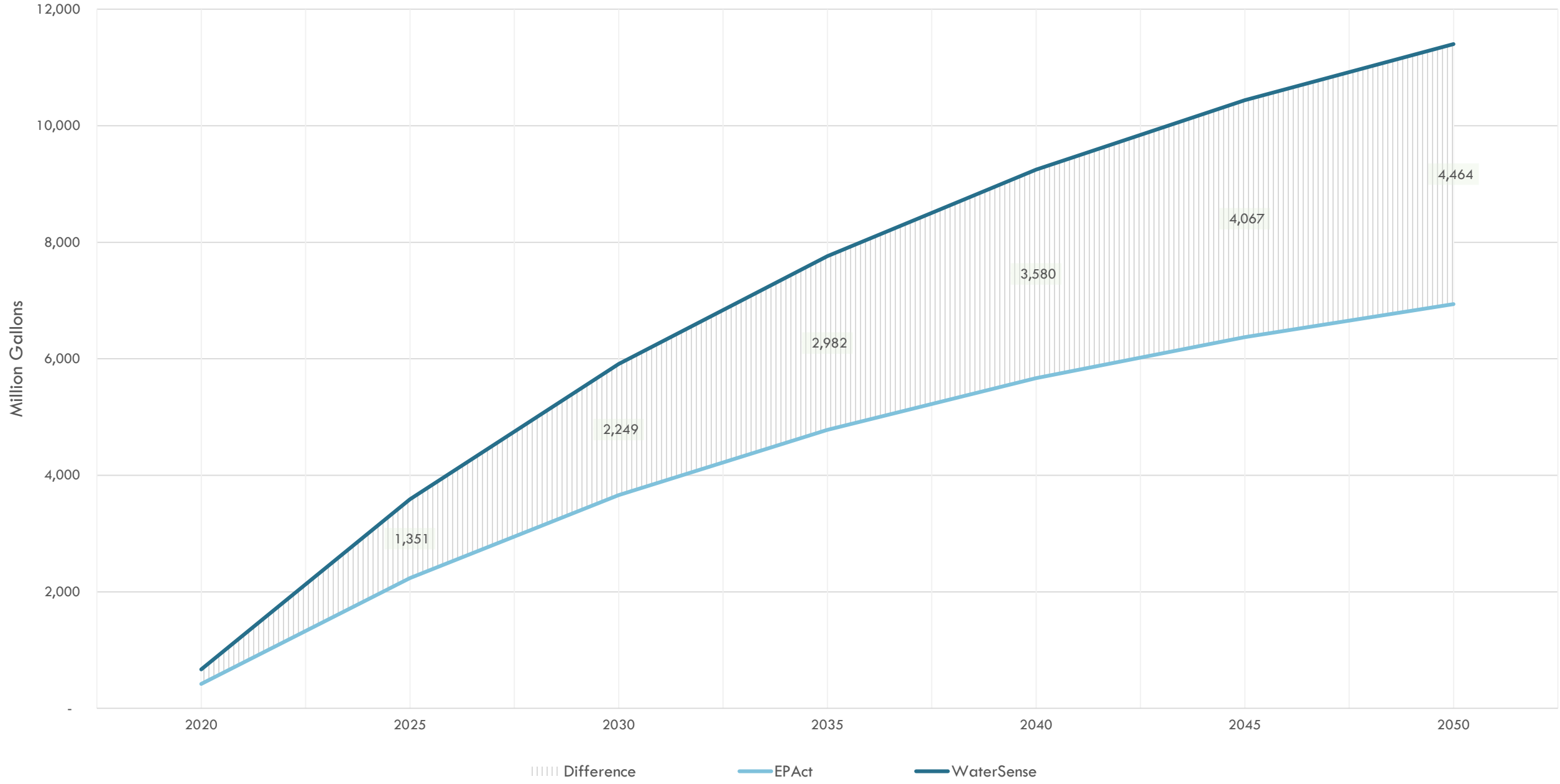
Highlights:

1. At least ten states have fixture consumption limits more stringent than federal standards
CA, CO, GA, HI, IL, NV, NY, TX, VT, WA
2. Colorado prohibits the sale of fixtures that do not achieve WaterSense certification
3. Illinois requires all new Lake Michigan permittees to install WaterSense-labeled fixtures
4. Vermont has standards for urinals (0.5 gpf), lavatory faucets (1.5 gpm), and showerheads (2.0 gpm) that exceed the efficiency of federal standards
5. California, Colorado, Hawaii, Vermont and Washington State have standards for spray sprinkler bodies that tie them to the WaterSense Specification

State	Toilets	Showerheads	Urinals	Faucets	Lawn Sprinklers
California	X	X	X	X	X
Colorado	X	X	X	X	X
Georgia	X		X	X	
Hawaii		X		X	X
Illinois	X	X	X		
Nevada	X	X	X	X	
New York	X	X	X	X	
Texas	X		X		
Vermont		X	X	X	X
Washington	X	X	X	X	X

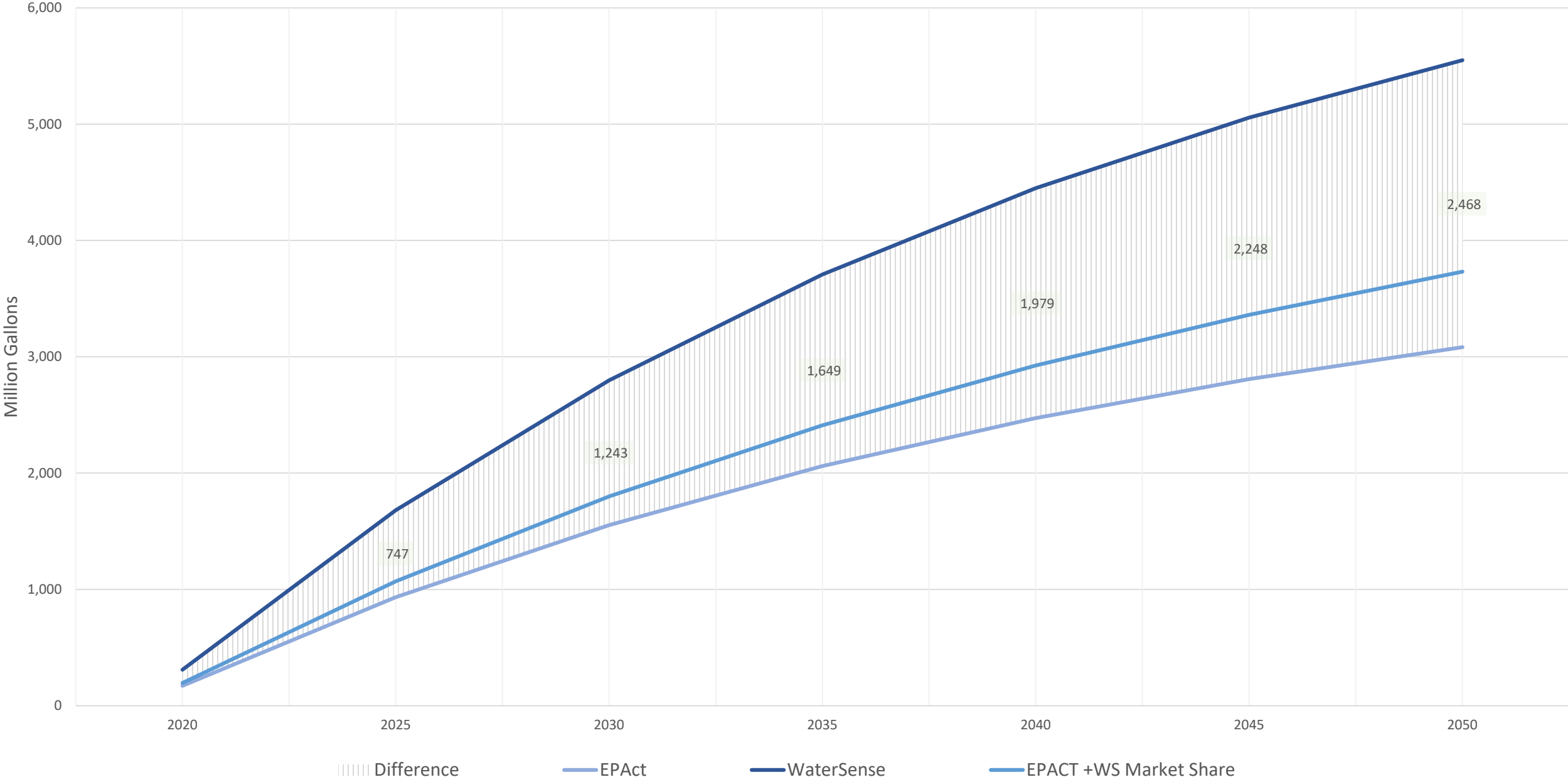
Passive Savings Projections Resulting from Fixture Replacement

EPAct vs. WaterSense



SF Toilet Passive Savings Projections

EPAct vs. EPAct with 16.8% WaterSense Market Share vs. 100% WaterSense



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OPPORTUNITIES

FIXTURE
STANDARDS

How would water use reductions accelerate with WaterSense fixture standards?

- It depends
- WaterSense fixtures already have significant market share and are being installed anyway (This market share may increase over time)
- New development efficiency is impacted as well
- In the case of toilets, savings are generated from the 1.6 gpf stock in addition to the 3.5+ gpf stock

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PLANNING
OPPORTUNITIES

FIXTURE
STANDARDS

One Option:

Update Sec. 21a-86a. Regulations establishing minimum efficiency standards for plumbing fixtures and other water-saving devices to include new standards for:

1. Toilets - 1.28 gpf and WaterSense Labeled
2. Showerheads - 2.0 gpm and WaterSense Labeled
3. Lavatory Faucets - 1.5 gpm and WaterSense Labeled
4. Urinals - 0.5 gpf and WaterSense Labeled
5. Lawn Spray Sprinkler Bodies - WaterSense Labeled (require pressure regulating stems)
6. Clearly pertains to all point of sale and installations



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