Demand Management + Resiliency

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**Historical Water Demand & Population**

- Distribution has declined approximately **30%** since the early 1990s – despite increasing population
- Since 2009, water usage has been below the 1960s drought-of-record

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**Average Daily Distribution (MGD)**
- 2008: 1,098
- 2009: 1,007
- 2010: 1,039
- 2011: 1,021
- 2012: 1,009
- 2013: 1,006
- 2014: *998

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1. Official 2013 New York City Department of City Planning Estimate.
Water Demand Management

Working towards a 5% or 50 MGD goal for reductions in current demand

- Retrofit and replace water fixtures at Schools, Parks, WWTPs, NYCHA, FDNY and Colleges
- Replace 800,000 fixtures in residential buildings
- Create voluntary conservation programs in non-residential sectors and provide cost sharing
- Continue leak detection, pressure management, and metering
- Adopt Water Shortage Rules, and emergency rates
- Develop demand management plans for 10 upstate wholesale customers and implement them
MUNICIPAL WATER EFFICIENCY PROGRAM

STRATEGY 1

Target: 500 Schools, 3.8 MGD Reduction
To Date: 60 Schools Retrofitted, 0.4 MGD Achieved since 2011
MUNICIPAL WATER EFFICIENCY PROGRAM

STRATEGY 1

Target: 400 Spray showers, 1.1 MGD Reduction
To Date: 150 Spray showers done, 0.4 MGD Achieved since 2011
MUNICIPAL WATER EFFICIENCY PROGRAM

Target: 12 Fire Houses, Water Recovery Facility, 0.04 MGD
To Date: 12 Fire Houses done since 2012
MUNICIPAL WATER EFFICIENCY PROGRAM

STRATEGY 1

Target: 14 WWTPs, 2.1 MGD
To Date: 7 WWTPs targeted, 1.2 MGD achieved since 2013
MUNICIPAL WATER EFFICIENCY PROGRAM

STRATEGY 1

Target: 21 Colleges, 0.75 MGD Reduction
To Date: CCNY retrofits underway since 2014
RESIDENTIAL WATER EFFICIENCY PROGRAM

STRATEGY 2

TRP Phase 1 Target: 150K fixtures, 10 MGD Reduction
To Date: 1,500 fixtures retrofitted or in pipeline since 2014
NON-RESIDENTIAL WATER EFFICIENCY PROGRAM

STRATEGY 3

Target: Various Industries, 0.04 MGD Reduction
To Date: Completed Hotel Challenge, Achieved 0.3 MGD since 2013
WATER DISTRIBUTION SYSTEM OPTIMIZATION

Target: Meter Replacements, Leak Detection, 3.3 MGD To Date:
Achieved: ~9,000 meters replaced, repaired ~10,000 hydrants
Ongoing
WATER SUPPLY SHORTAGE MANAGEMENT

Target: Water Shortage Rules, 5 MGD Reduction
To Date: Rules Revised, Rate Study almost complete since 2013

STRATEGY 5
WHOLESALE CUSTOMERS EFFICIENCY PROGRAM

Target: 10 Largest Wholesale Customers, 5 MGD Reduction
To Date: 4 Customers in developing plans since 2014