

Updating our Water Infrastructure The Institute for Regulatory Policy Studies Springfield, Illinois October 20, 2011

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MOVING WATER FORWARD



Presentation Overview

- Private water operations in the U.S.
- Role of NAWC
- Capital challenges we face together
- Implications from increased conservation
- Solutions for meeting our challenges



Own 20 % of nation's community wastewater systems

2,000 Public Private

Partnership facilities

Nearly one in every four Americans

receives service from a privately owned water or wastewater utility or a municipal utility operating under a public-private partnership.

16% of Americans get water from privately owned utilities

A \$6 billion industry, annually

NAWC History and Background

- Founded in 1895 in Pennsylvania by small group of private water companies
- Only investor-owned utilities until 2009
- Integrated PPP-company Water Partnership Council on June 1, 2009
- Today has members in every region of U.S. ranging from large companies owning, operating or partnering in hundreds of communities to small utilities with a few hundred customers



Role of NAWC

- Promote the value of the private sector as a provider of quality, sustainable water services and innovative solutions
- Historically has worked primarily with state Public Utility Commissions and Congress and US EPA
- With new members and broadening mission, are "rebranding" and reaching out to other state and local officials







Capital Needs for DW Systems

- Nationally, the U.S. EPA reports in its 2007 Drinking Water Infrastructure Needs Survey and Assessment:
 - \$334.8 billion over 20 years
 - 60% for pipes transmission and distribution
 - 22% for treatment plants
 - Rest of source, storage, miscellaneous
- Illinois' portion is \$15 billion

Water Industry is the Most Capital Intensive Industry

Capital Invested per \$1 of Revenue

- EPA Rules require large investment in filtration plants
- Immense investment needed for distribution system and road repair
- More capital per revenue than all other utilities



Source: 2009 AUS Utility Reports



Water Industry has the Lowest Depreciation Rate in the Utility Sector

- Historic cost recorded is lower than replacement cost
- Water industry has longest capital recover period, which is viewed negatively by Wall Street



Source: 2009 AUS Utility Reports

Declining Consumption

- Consistently declining consumption
- American Water from 2000-2009 in its 10 largest state companies:
 - Average *annual* decline of 1.28%
 - Illinois <u>annual</u> decline of 1.35%
- Aqua America from 2008 to 2010:
 - Northeast region total decline of 2%
 - Midwest region total decline of 4%
 - South region total decline of 6%
 - South region w/ inclining block rates: -25%

Conservation . . . and Efficiency

- Customer conservation education programs are effective
- But even without utility company efforts and consumer behavior changes . . .
- Water use efficiency is happening
 - New showerheads: 28 percent reduction
 - New faucets: 34 percent reduction
 - New toilets: 68 percent reduction
 - New washing machines: 47 percent reduction
- Outdoor irrigation similar reductions



There are Solutions

- Educate consumers on the value of safe and reliable water service to their health and economic well-being – and the need to pay what it costs to deliver that value
- Increase utility operational efficiencies and deliver business transformation
- Promote good public policy and effective, up-to-date rate regulation



Value of Water Campaign

his message brought to you b

Water plays a part in every aspect of our lives, benefiting health, safety and economic development water pays is part are sky super-coro our rive. Desaming manar, savey nate economic or sterophane in communities across the country. To provide this critical resource, many communities rely on local private water companies and runs them to treat and deliver water that meets or exceeded all state and federal driving water regulations. For quenching a thirst, supporting public health, extinguishing a Member Logo Here A Drond Mambar o fire or irrigating crops, nothing compares to tap water from your local private water company Tap water is essential to life. Making sure you always have it is our job.



Value of Infrastructure Investment Campaign



Investment in water infrastructure will create jobs



Illinois' 20 Year Water Investment Needs

Wastewater Needs according to EPA	Drinking Water Needs according to EPA	Combined Needs according to EPA
\$17.5 billion	►\$15.02 billion	\$32.52 billion
ww.waterisyourbusiness.c	org	f twitter

Business Transformation

- Utility capital investment is not just pipes and plants
- Investments in technology and business infrastructure to allow companies to manage water for the 21st century
 - Business processes
 - IT systems integration CRM, GIS, SCADA
 - Energy efficiency
 - Customer service improvements
 - Attract, train and retain a more productive work force

Effective Regulatory Practices

- "Decoupling"/conservation revenue adjustment mechanisms
- Tariff design v/v fixed and variable costs and revenues
- Rates based on rational forecasting of future consumption rather than historical averages – test year and trends
- Distribution system improvement charges (Qualifying Infrastructure Plant Charge)
- Provide for appropriate consolidation

Illinois State Policies

- Support: Water Systems Viability Act. HB 1955
- Illinois is facing severe water infrastructure investment issues
 - \$32.52 Billion Illinois' 20 year water & waster water infrastructure needs
 - 28, 500 the average amount of jobs created for every \$1 Billion invested in water infrastructure (Illinois unemployment is hovering around 9.1%)
 - 912,000 jobs that can be created in Illinois over the next 20 years by investing in water infrastructure

Increase small system consolidation

- Over 1,300 water and 600 wastewater systems that serve fewer than 3,300 Illinois residents. Illinois has a highly fragmented water delivery system which leads to possible safety issues as well as economic development concerns. Many of these systems lack the expertise in operations and engineering. In addition, many lack the financial capabilities to adequately maintain their systems to provide clean, reliable water today and into the future.
- Proposed legislation removes existing disincentives for both sellers and buyers as they work toward the consolidation and improvement of Illinois' water and wastewater systems.
- Illinois must seek new innovative ways of doing business. The current approach to addressing water and wastewater infrastructure needs is not working. Illinois must release the power of the private sector to help in addressing these issues.
- The infrastructure deficit in Illinois is too large for any one approach to solve. It needs as many "tools" in the tool box to address this. HB 1955 is but one more tool that Illinois can utilize to address this issue.



Federal Policies

- Maintain dividend rates at 15%
 - Utilities must continue to attract capital
- Remove federal restrictions on private activity bonds for water and wastewater
 Utilities can reduce cost of debt
- Private utility access to Clean Water SRF
 - Private utilities must be made eligible for lowinterest Clean Water State Revolving Loans



Thank you!

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