

Utilities of the Future: Challenges & Opportunities

**NEWEA & NYWEA Joint Spring Meeting
June 6, 2016**

**Adam Krantz, CEO
National Assoc. of Clean Water Agencies**

NACWA

What is NACWA?

- **National Trade Association for POTWs & MS4s**
- **Nearly 300 utility members nationwide**
- **Your national advocacy voice on clean water issues!**



IMPACT THROUGH ADVOCACY /



RETURN ON INVESTMENT /



A HEALTHY ENVIRONMENT

The Utility of the Future (UOTF)



- ***UOTF Blueprint for Action, 2013***
- ***UOTF A Call for Federal Action, 2013***
- ***Today's Clean Water Utility: Delivering Value to Ratepayers, Communities, & the Nation, 2014***
- ***UOTF Annual Report, 2015***
- **Focus on new technology, innovation, reuse, resource recovery & community benefit**

What Is UOTF, Really?

-
- **Resource Recovery**
 - **Water Reuse/Recycling**
 - **Energy Conservation & Production**
 - **Green Infrastructure**
 - **Watershed Solutions**
 - **Source Control (pharmaceuticals, wipes, etc.)**
 - **Community Benefits: Jobs/Economic Expansion/New Technologies**



UOTF Challenges

- **Aging Infrastructure**
- **Unfunded Mandates**
- **Enforcement vs. Compliance Assistance**
- **Resilience/Climate**
 - **Hurricane Sandy**
 - **Sea Level Rise in NE**
- **Ratepayer Limits**
- **Risk Aversion**
- **Utility Awareness, Size, Resources**

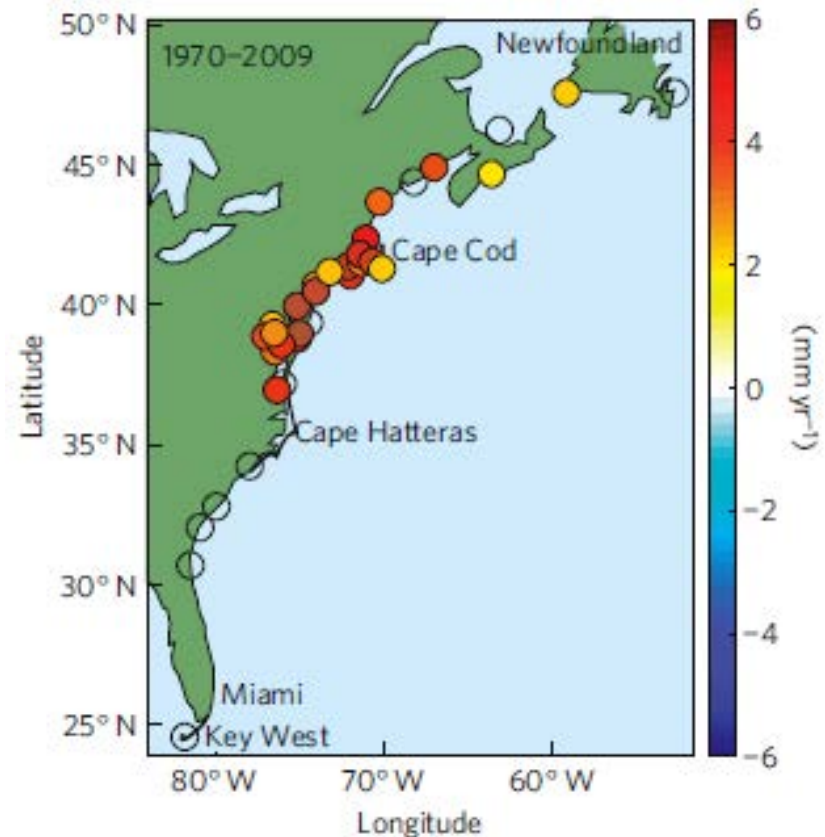


Figure from "Hotspot of accelerated sea-level rise on the Atlantic coast of North America" Asbury Sallenger et al., 2012 Nature Climate Change doi:10.1038/NCLIMATE1597

UOTF Examples

- **Energy Generation**

- **MWRA, NYC,
Narragansett Bay**

- **G.I./Rain Barrels/
Watershed Solutions**

- **Portland, S. Essex,
New Haven, NYC,
Onondaga Co.**



Onondaga Co.
"Adopt-A-GI"
Project

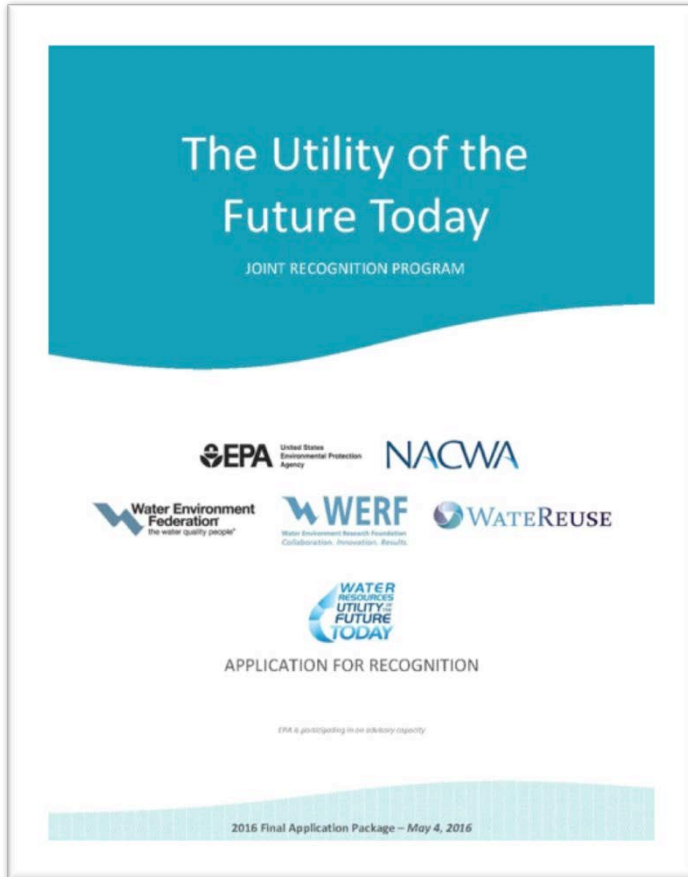


What Should You Do?

- **Every utility a member! NACWA Utility-to-Utility Partnership Initiative**
- **Support and utilize resource recovery funding in SRF & WIFIA programs: preference for innovative projects**
- **Conservation Innovation Grants (CIG)**
- **Upstream partnerships**
- **Public Outreach and communicate successes**
- **Water Champion Stories!**



UOTF Recognition



**Apply for the National
Recognition Program
(NACWA/WEF/WE&RF):**

<http://www.wef.org/utility-of-the-future-today-recognition-program/>

Applications are due 5 p.m. EDT, June 17.



IMPACT THROUGH ADVOCACY /



RETURN ON INVESTMENT /



A HEALTHY ENVIRONMENT

Bottom Line

- **UOTF is at odds with environmental statutory structure**
- **Clean Water Act (CWA) = Command & Control**
- **\$\$\$ not considered in CWA**
- **We will need EVERYONE!**
 - **Remove barriers**
 - **Instill trust from both regulators & public**



**NACWA's
10 yr. Big
Audacious Goal:**

**Re-align National
Statutes**

Thank You!

Adam Krantz

akrantz@nacwa.org

NACWA