

**TRACK NAME**

Green Governance Strategies – Maricopa Association of Governments

**SESSION NAME**

Total Water Management – Resource Conservation in the Face of Population Growth and Water Scarcity

**DATE + TIME + ROOM NUMBER**

Friday September 5<sup>th</sup> – 10:10am – 106 B/C

**SESSION DESCRIPTION**

Water management in Arizona and the arid southwestern United States is being influenced by two increasingly synchronous and alarming trends: explosive growth and water scarcity. The intersection of these factors – a future certainty – will drive water policy to extreme measures. In the absence of action now, those measures will both arrive sooner and be significantly more expensive. Sustainability in the future will depend solely on what action is taken today to preserve and extend the region's limited and increasingly valuable water resources.

As a landlocked state, Arizona's water reserves are finite, and measurable. No new water is available to Arizona to meet the needs of its growing population. Prolonged drought, massive growth, climate change – all lead to dwindling availability of water resources. Management of these resources cannot continue on a micro-scale. Regional, macro-scale action is necessary to achieve a sustainable future. Fundamental to this regional planning are utility-driven conservation practices and the realization that only one source of water is increasing in its availability: recycled water. Indeed with the convergence of quality requirements between recycled water and potable water, neglecting this source of water, or marginalizing its use, is folly, particularly since the majority of the residential water consumption exists for non-potable activities.

Our goal for a sustainable Arizona must be to develop policies and practices that ensure the appropriate water source is employed for the appropriate use. In order to achieve that goal, policy, integration and regional planning hurdles must be overcome.

This presentation will illustrate that under the likeliest scenarios of water availability and underlying quality, the practice of water recycling has an immediate and profound impact on water scarcity management. It is therefore critical that water recycling form a pillar of water policy in Arizona and other drought-susceptible regions of the world.

A very large community in western Phoenix is now being planned for maximum water sustainability. This talk will describe the steps under which water sustainability is achieved and discuss the necessity to address and reconcile the public's negative perceptions of water recycling.

## **PRESENTER(s)**

Trevor Hill – President and CEO of Global Water Resources

## **PRESENTER BIOGRAPHY (s)**

Raised in Vancouver, British Columbia, Mr. Hill graduated in 1987 from Royal Military College with a Bachelor of Engineering in Mechanical Engineering. Mr. Hill attended the Royal Naval Engineering College in Plymouth, England where he completed his post-graduate studies in 1988. He served with the Canadian Navy as an Engineering Officer retiring in 1994 after serving as Deputy Engineering officer in HMCS Huron in the Gulf War 1991 where he was decorated with the Gulf Kuwait Medal.

In 1994 Mr. Hill co-founded Hill, Murray & Associates, a design-build-operate firm specializing in the construction and operation of water reclamation facilities in British Columbia and the Canadian Arctic. Mr. Hill oversaw the design, construction, commissioning and operation of many “first-in-the-field” systems, including the first fully recycling commercial and school buildings in Canada. He was instrumental in developing water reclamation codes, rules and regulations for the Province of British Columbia. In 2000, Mr. Hill co-founded Algonquin Water Resources of America, a division of the Algonquin Power Income Fund. In his role of Director of Operations for AWRA, he led the acquisition team, acquiring 6 utilities in three years and amassing 37,000 customers in Arizona and Texas.

In 2003, Mr. Hill co-founded Global Water Resources, a company established to acquire regulated water and wastewater utilities in the arid Southwestern states and to advance the cause of water reclamation and reuse as a conservation methodology in the Southwestern United States. Mr. Hill provides leadership and policy direction with respect to water reclamation and re-use, water use efficiency and the economics of water reclamation. Global Water Resources is the fastest growing water and wastewater utility in the nation and was recently ranked #5 on *Entrepreneur Magazine's* Hot 100. In the last 12 months, Global Water has been recognized for its leadership in water conservation, environmental education and communications receiving the 2007 Valley Forward Crescordia Award for Environmental Education/Communication, and most recently receiving three first place awards and Best in Show from Utility Communicators International. In addition, Mr. Hill was named Entrepreneur of the Year for the Southwestern United States in June 2007.

### ***Occupational Summary***

- 2003 – Co-Founder, President & CEO, Member of the Board of Directors, Global Water Resources
- 2001 – Co-Founder, Director of Operations, Algonquin Water Resources of America
- 2000 – General Manager, Water Division, Conor Pacific Environmental
- 1992 – Founder, President and CEO, Hill, Murray & Associates Inc.
- 1991 – Marine Systems Engineering Officer, Naval Engineering Unit Pacific
- 1988 – Deputy Engineering Officer, HMCS Huron

### ***Credentials, Affiliations***

- 2008 – Member, Arizona Investment Council
- 2008 – Member, Board of Directors, WESTMARC
- 2008 – Member, External Advisory Board, Maricopa County *Green Initiative Program*
- 2007 – Member, Utility Communicators International
- 2007 – Member, Valley Forward
- 2007 – Member, Board of Directors, Pinal Partnership
- 2006 – Member, American Water Works Association
- 2006 – Advisory Board Member, Arizona Water Institute External Advisory Board
- 2006 – Member, Pinal County Drought Impact Task Force

2006 – Board Member, Investor Owned Water Utilities Association (“IOWUA”)  
1989 – Registered Professional Engineer, British Columbia  
1988 – Post Graduate Studies, Royal Naval Engineering College, Manadon, UK  
1987 – B.Eng. - Mechanical Engineering, Royal Military College, Kingston

#### ***Awards/Honors***

2008 – 29th Annual Telly Awards - Two Bronze Awards (“Water Crisis” and Global Water Center LEED...)  
2008 – Utility Communicators Awards: First Place Award – Single Newspaper Ad;  
2008 – Entrepreneur Magazine’s Hot 100 of 2007 - Ranked #5  
2008 – State Compensation Fund, Best of the Best 2007  
2008 – Arizona ADDY® Award (Bronze), Consumer or Trade Publication/Four Color Print Campaign  
2007 – Phoenix Business Journal and BestCompaniesAZ, 2007 Best Places to Work in the Valley  
2007 – Arizona Business Magazine, Economic Engine of Arizona Award  
2007 – Valley Forward Crescordia Award, Environmental Education/Communication - Private Sector  
2007 – Valley Forward Award of Merit, Buildings and Structures - Industrial and Public Works  
2007 – Utility Communicators Award of Distinction - Awards Print Competition  
2007 – Arizona Small Business Association Spotlight Award - Commerce  
2007 – Arizona Small Business Association’s 50 Companies to Watch Award  
2007 – Ernst & Young Entrepreneur of the Year, Orange County Division  
1999 – Top 40 Under 40 Award, Business in Vancouver, January 1999  
1998 – ZENON Merit Award for Design, October 1998  
1998 – Finalist, Entrepreneur of the Year Award, Pacific Region, Canada, October 1998  
1997 – BC Ministry of Environment, Lands and Parks, Minister’s Environmental Award,  
1997 – Nominated, Entrepreneur of the Year Award, Pacific Region, Canada  
1996 – ZENON Merit Award for Design  
1991 – Decorated, Gulf Kuwait Medal

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