



2018 December Newsletter

Local Utilities Protect Against a More Threatening, Interconnected World

As the world becomes more interconnected, the benefits are easy to see but the risks can be harder to identify. Advancements in critical infrastructure like water and energy have led to more reliable and accessible resources. These same advancements have left utilities at risk to attacks from malicious parties.

As a Threat Researcher for a global security company, Stephen Hilt is responsible for identifying and mitigating that risk. "Security is one of those ever-evolving things. It's constantly changing which makes the need for people doing jobs like mine just continue," Hilt explains. For the past several months, Hilt has been researching the vulnerabilities of water and energy infrastructures around the globe. He limited the scope of the project to finding out "how these systems being exposed could be attacked." According to his research, cases of individuals or organizations showing interest in attacking a system of this nature are on the rise. "I did a research project in 2015 and found very few cases of this. It has now gone up which just shows that criminals are increasingly trying to target and learn more about industrial control systems," Hilt says.

The goal of such an attack is to cause "widespread panic." His research exposed water and energy utilities at risk all over the world but none in local utilities. Andrea Brackett, Director of Cyber Security for TVA, says a lot of work happens behind the scenes to protect the utilities systems from attack.

"Our program utilizes intelligence from federal agencies as well as private industries to be able to defend against attacks. We also utilize research and analysis of attack methods and technologies to make sure that we are understanding where a threat might occur," Brackett says.

The risk of an attack to an energy provider could have catastrophic financial consequences. "The energy infrastructure is the backbone of how most industries work. They're reliant on energy to be able to conduct their daily operations. It's definitely an attractive target for attackers to try to disrupt those operations and disrupt the daily lives of individuals," Brackett says.

Daphne Kirksey, a spokeswoman for Tennessee American Water, says an attack on a water utility would be equally as disruptive. Our customers depend on their drinking water every day in their lives. For that reason, Tennessee American Water invests a considerable amount of time and manpower into securing their systems. "Safety is first and foremost one of our fundamental values for ourselves as employees but also for our customers and our system," Kirksey says.

The utility is now taking advantage of the bipartisan Water Infrastructure Act of 2018 which provides federal funding for water systems to put resiliency programs in place. In addition to internal exercises, Tennessee American Water works with external partners, and always stays "ahead of what's going on because it's just continuous and it's constantly changing because we live in such an information age."

Stephen Hilt says the role of cyber security is ever present and ever evolving. As we try to put more protections in place and find more ways to stop criminals, malware, or even computer bugs, they'll try to find new ways around how you're trying to prevent it.

At our January meeting ATVG will have a session on **Cyber Security; Government and Utilities** with Panel Presentations and group discussion; please see registration form on insert pages of this newsletter.



2018 December Newsletter

Mimeo Relocates Headquarters-Operations in Memphis, Tennessee

Mimeo, the online-managed content distribution and printing company, will invest \$16 million to expand its operations and establish its U.S. headquarters in Memphis, [Tennessee](#). The company plans to create 300 jobs in Shelby County.

The company's Memphis facility is located adjacent to FedEx's Global Hub, enabling large volumes of last-minute content to be shipped anywhere in the world, for delivery as early as the next morning. The expansion and location of the [headquarters](#) in Shelby County enables Mimeo to better route customer work to the most strategic locations for fulfillment to end delivery.

With this expansion, Mimeo will be growing its production capacity; hiring in the areas of sales, services, engineering, and operations; and establishing its U.S. headquarters in Memphis.

"We are excited to recruit hundreds of new 'Mimiacs' across all levels to our Memphis headquarters," Mimeo CEO & Founding Team Member John Delbridge said. "Memphis has been part of our story from startup to global enterprise and remains core to supporting our growing customer base."

"I thank Mimeo for choosing to expand and establish its headquarters in Memphis," Governor Bill Haslam said. "Tennessee's central location makes it a perfect location for this print technology company. Memphis specifically is a perfect fit for Mimeo, with its innovative history to grow, with the FedEx World Hub located right in the company's backyard. I appreciate Mimeo's commitment to our state by creating 300 new jobs and as more companies take advantage of our ideal location and business-friendly environment, Tennessee will lead in the creation of high-quality jobs."

"I congratulate Mimeo on its decision to expand and establish its headquarters in Memphis," Department of Economic and Community Development Commissioner Bob Rolfe said. "Mimeo has been a part of Memphis since 2000 and it means a great deal that this global company has continued to see the benefit of being located in Memphis. I want to thank Mimeo for doubling its workforce in Memphis with the creation of these 300 new jobs and look forward to seeing the company to continue to succeed in our state."

"TVA congratulates Mimeo on its decision to expand operations in Memphis," said TVA Senior Vice President of Economic Development John Bradley.



2018 December Newsletter

Caymas Boats To Establish Operations In Ashland City

Governor Bill Haslam, Department of Economic and Community Development Commissioner Bob Rolfe and Caymas Boats LLC officials announced on Monday, November 19th that the boat manufacturing company will establish operations in Ashland City. Caymas Boats plans to invest \$30.3 million and create approximately 280 jobs during the next five years.

Caymas Boats is a new company founded by Nashville-based marine executive Earl Bentz, who has a successful record of building boat companies in Tennessee.

Beginning in 2019, Caymas Boats will manufacture a new line of premium fiberglass saltwater and freshwater fishing boats in Ashland City.

“In Tennessee, we take pride in the fact that we have a skilled workforce that still makes things,” Governor Haslam said. “I’d like to thank Earl Bentz for his decision to establish a new boat manufacturing business in Ashland City. The creation of more than 280 quality job opportunities for Tennesseans will provide a tremendous boost for Cheatham County’s residents and the local economy.”

“By investing private capital and creating jobs, successful entrepreneurs like Earl Bentz are one reason for Tennessee’s strong economy,” Commissioner Rolfe said. “Caymas Boats’ \$30.3 million investment underscores all the advantages Tennessee offers businesses – most importantly, our skilled workforce. We look forward to a long-lasting partnership with Caymas Boats in Middle Tennessee.”



2018 December Newsletter

Partnership to Provide Career Guidance to Low-Income Students

The Tennessee Chamber of Commerce and Industry, the Tennessee Valley Authority and the Tennessee Higher Education Commission recently joined to provide a career guidance tool to students in economically disadvantaged Tennessee counties.

YouScience measures students' aptitudes through a series of "brain games" and uses a scientific algorithm to provide students with a personalized overview of their best-fit careers. The tool also provides information on average salary, regional and national job demand, and education requirements; more than 10,000 students in 54 counties across the state have used the program.

"YouScience expands students' vision of career opportunities and strengthens the local school-to-workforce pipeline," Tennessee Chamber President and CEO Bradley Jackson said. "This program will support Tennessee's efforts to lead the nation in workforce preparedness, arming our children with knowledge that will guide them toward career paths that match their abilities and skills."

Mazda Toyota breaks ground in Huntsville

It was an event rich in promise and prosperity, the moment when the gigantic automobile manufacturing plant worth more than \$1 billion, with a "b" was becoming a reality. The ceremony on a cool morning in a heated tent in rural Limestone County brimmed with excitement, the formal groundbreaking ceremony of the Mazda Toyota Manufacturing USA plant featuring speeches by a U.S. Senator and a Governor.

It's been more than 10 months since the formal announcement that Mazda Toyota, after a much-hyped national search, had chosen a patch of rural farmland in Limestone County that had previously been annexed into the city of Huntsville.

The project promises 4,000 new jobs and the expectation that between suppliers and other surrounding development, an estimated 10,000 jobs will emerge altogether.

The plant will feature two lines – one manufacturing a Toyota Corolla, the other a yet-to-be-revealed Mazda crossover SUV. It's a first-of-its-kind project, bringing competing automakers under a single roof to share expenses and make their vehicles.

"Make no mistake, we will not just be building cars and SUVs here in Huntsville -- we are building opportunities," Huntsville Mayor Tommy Battle said.



2018 December Newsletter

“Save the Dates” for ATVG’s 2019 Schedule

- **January 23/24, 2019 Marriott Chattanooga Downtown; Chattanooga, TN**
- **April 16, 2019 Hyatt Place; Bowling Green, KY**
- **July 10, 2019 Brasstown Valley Resort; Blairsville/Young Harris, GA**
- **October 28, 2019 Gatlinburg, TN**

Nuclear Power Could Help With Climate Change

A recent report from the current administration states, “Global mean surface temperature is projected to increase by approximately 3.48°C (6.27°F) by 2100.” It goes on to quote numerous experts, “It is extremely likely that human influence has been the dominant cause of the observed warming since the mid-20th century” because of the release of greenhouse gases.

Some say that 2100 is far away, other generations will mitigate climate change. However, a just-released analysis by Nobel Prize winners finds that by acting aggressively in the next 12 years we actually have a chance to mitigate the worst threats of climate change to human health. One of the fastest ways to quit disposing of greenhouse gas in our atmosphere is to use fossil-free electricity such as renewable energy, hydroelectric power, biomass and nuclear.

Nationwide, nuclear power plants generate more than half of our fossil-free electricity. As reported by the USA TODAY NETWORK - Tennessee, 41 percent of the Tennessee Valley Authority electricity is nuclear, beating the national average for fossil-free electricity generation of 37 percent. Also, nuclear power plants are rarely shut down. They operate 97 percent of the year providing a steady supply of electricity. So yes these high-yield, efficient plants are helping mitigate global climate change today.

Nuclear power plants are expensive to build, but not to operate. Their construction and operating plans are rigorously overseen by regulators. Since a nuclear power plant generates an average of 1,000 MW of electricity at a single location, the cost for a new facility is high. Once the facility is built, the output of electricity is highly efficient, reducing overall operating costs.

Climate change is not a partisan issue. Republicans and Democrats have joined the Congressional Climate Solutions Caucus, which proposes methods to reduce greenhouse gas emissions. Electricity can be generated today so that greenhouse gas emissions are dramatically reduced by combining nuclear power and renewable energy. By adopting these technologies now, our planet will be much less than 6°F warmer in 2100, giving our children and grandchildren a better chance to survive climate change.



2018 December Newsletter

Association of Tennessee Valley Governments

Winter Meeting January 23 & 24, 2019

Chattanooga Downtown Marriott

1-800-841-1674

Chattanooga, TN

Wednesday January 23, 2019 (Central Time Zone)

- 1:00 p.m.** **Welcome** - *Brad Warning; ATVG Board President*
- 1:15 p.m.** **TVA Update** - *Bert Robinson; TVA*
- 1:45 p.m.** **TVA Pilot Presentation** - *Bryan Johnson; TVA Senior Program
Manager, Taxes*
- 2:15 p.m.** **Asian Carp Invasion** - *TVA Guest Speaker*
- 2:45 p.m.** **Break**
- 3:00 p.m.** **Cyber Security; Government and Utilities** – *Andrea Brackett; Director
TVA Cybersecurity, Bill Dean; LBMC,*
- 4:30 p.m.** **ATVG Board Meeting** - *Separate Agenda will be provided*
- 6:00 p.m.** **Dinner at Public House** *1110 Market Street
With open Hospitality Hour*

Thursday January 24, 2019 (Central Time Zone)

- 7:30-8:30 a.m.** **Breakfast Buffett at Marriott for ATVG Members, Spouses and Guests**
- 9:00 a.m.** **Tour of TVA Power Operations Center** – *TVA Office Complex*

Please help us make necessary arrangements by letting us know if you will be attending. Send the enclosed registration form by email to: registration@atvg.org or by U.S. mail to: ATVG, P.O. Box 3578, Clarksville, TN 37043.



2018 December Newsletter

Association of Tennessee Valley Governments Meeting Registration Form

Registration Fee: \$100.00 for members and affiliates; \$200.00 for non-members

Name: _____

E-Mail: _____

Spouse's Name: _____
Registration Fee for spouse is included/No additional charge

Company/Organization: _____

Full Address: _____
Make checks payable to: Association of Tennessee Valley Governments- P.O. Box 3578 – Clarksville, TN 37043



2018 December Newsletter

Dear ATVG members and friends,

I want to welcome you to the Association of Tennessee Valley Governments (ATVG). We are a not-for-profit 501c (4) corporation chartered in 1981. Our primary purpose is to improve communication and understanding between local governments and the Tennessee Valley Authority (TVA). With nearly 1,000 local governments being served by TVA, we strive to advocate on behalf of our membership. ATVG represents local governments in Alabama, Georgia, Kentucky, Mississippi, North Carolina, Tennessee and Virginia.

ATVG has studied and often taken an active role in issues related to:

- 1) TVA's Integrated Resource Plan
- 2) Emergency Management Preparedness
- 3) Small Modular Nuclear Reactors (SMR)
- 4) Tax Equivalent Payments to local governments
- 5) Economic Impacts of closing coal facilities and conversion to natural gas plants
- 6) Confirmation of TVA's Board of Directors
- 7) Restructuring Park and Recreation Marine Contracts
- 8) Start-up of Watts Bar Unit 2 nuclear reactor
- 9) TVA's Economic Development Activities
- 10) Addressing invasive aquatic life in the TVA reservoirs
- 11) Importance of Chickamauga and Kentucky Lock replacement.
- 12) Purchasing of coal and natural gas from within the valley
- 13) Future use of the Bellefonte site
- 14) TVA's Solar Strategy Initiative

ATVG meets quarterly within the TVA region for educational sessions and to conduct the organization's business affairs. This year we will meet in Chattanooga in January, in Bowling Green, KY in April, in Blairsville, GA in July and in Gatlinburg in October.

We recognize TVA as a major economic driver within our communities through its role as the provider of reliable, reasonably priced power, along with economic development initiatives for recreation and industrial activities. We further recognize TVA must be an active environmental steward of our natural resources.

ATVG will continue to advocate policies for our local governments and communities. We recognize that we can both support and be in opposition to various TVA policies; while fully understanding that it is through our education on the issues that we all make better decisions.

Learn more about ATVG at www.atvg.org including information on our quarterly meetings.

Sincerely,

Brad Warning
2019 ATVG President
Marshall County, KY



2018 December Newsletter

*Merry Christmas
And
Happy New Year
From your friends at ATVG*

ATVG REPORT:

A quarterly publication of the Association of
Tennessee Valley Governments:

P.O. Box 3578
Clarksville, TN 37043-3578
Telephone (931) 553-4265

Email: memberservices@atvg.org

ATVG is a 501(c) (4), not-for-profit, public interest
organization.

ATVG advocates for the interests of county and
city/town governments residing within the seven-state
TVA region and their partners in the public and
private sectors.

*For details about ATVG's mission and program
of work, visit us on line at: www.atvg.org*