



ENERGYSEC **CONNECTED**

News From the EnergySec Community

September 2016

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President's **Report**

Membership Matters

An invitation to join

As the slogan says, "Membership has its privileges." That statement is true in many contexts, and certainly as it relates to our organizational members. But, there is more to membership in EnergySec than just the tangible benefits.

As we like to say, EnergySec is a community. And our community is growing. Over the past couple of years we have been able to grow our staff, solidify existing programs, and add new activities that support our mission. We've also been slowly growing our membership base. Recently, we published the first edition of our programs and services guide, providing a catalogue of services and identifying specific benefits we provide to our members. This fall, we are launching a broad campaign to further engage the industry, increase membership, and expand the reach of our programs. Much of what we do works best with strong support and engagement from those we serve.

A good example of this is the recently concluded 12th Annual EnergySec Security and Compliance Summit. We had a tremendous lineup of speakers and panelists who stepped up to share their insights and knowledge with others. Another example is our burgeoning workforce programs, where partnerships and engagement are helping shape the next generation of cybersecurity professionals.

Organizational membership is a win-win scenario. Our members receive valuable information, access to useful resources, and benefit from significant discounts on various educational offerings and services. In return, EnergySec receives the financial support and engagement we need to fulfill our mission. Together, we can continue to move security efforts forward.

I invite you to take a deeper look at what EnergySec does and where our vision is taking us. I think you'll agree that the EnergySec community is worth joining, and I'd be happy to welcome your organization as a full member.

-SHP



RealityCheck



Stop Information Sharing Sharing

by Jack Whitsitt, Security Strategist,
EnergySec

At this year's EnergySec Summit, there were a lot of fantastic presentations and great networking opportunities. There were even two information sharing panels – one of which I was on. These information sharing talks, while expected, were a little problematic for me. The problem I have with them is that I went to my first information sharing talk 14 years ago and little has changed; I don't want to hear or talk about it any more. What is the hold-up? Why can we not move past this level of dialogue? Sure, there has been some progress, but it has been on the surface only, in most cases. We are still faced with the same kind of trust, legal, content, directionality, and actionability issues as we started out with.

Perhaps we're stuck because "information sharing" isn't a thing you do all by itself. It is a term that describes a whole suite of things folks do to solve problems they have. You don't often go out to drive a car; you most often "go out to go to work" or "go out to see the world" or "go out to see friends". Sometimes, that involves driving a car. But the **point** in those cases isn't "Car Driving". If I tried to solve the "Car Driving" problem all by itself, I might be stuck in exactly the same place Information Sharing is today. Remember: A process without a problem for it to solve and a solution state for it to achieve can't be a process.

Still, I've said these things before in other forums. Am I guilty of the same repetition I'm decrying? Why repeat this here, again? Because I have a specific ask for everyone, including myself this time: Please **actually** and **literally** stop. Please stop hosting Information Sharing Panels. Please stop participating in Information Sharing Discussions. Please do not

encourage the vagueness to continue. If you have a specific cybersecurity need for information, talk about that! If you know there is a specific information security problem that needs better information, invite folks to speak who can supply, transform, or consume **that** information! If there is a kind of situation where legal barriers have or could get in the way, make laws about those barriers!

But please, please, stop talking about "Information Sharing." Even "Threat Intelligence" or "Automated Indicator Sharing" – while still vague – are at least a little more tangible.

If we continue to generalize, we'll continue to ... well ... generalize. And generalizations are not implementable solutions.

About the Columnist

Jack Whitsitt, security strategist for EnergySec, brings a breadth of cyber security knowledge and thought leadership to any project. His unusual combination of hard technical, public/private partnership development, facilitation, and national risk management experience allow him to provide particular insight into and leadership of strategic organizational, sector, and national cyber security initiatives and educational endeavors.

A participant in the national critical infrastructure protection dialogue for seven years, Jack has provided regular advice, insight, and thought leadership to all levels of government and industry and has been responsible for several successful sector-level initiatives

Mr. Whitsitt's experience and skill at developing and providing targeted training and education opportunities to a variety of audiences allows him to effectively communicate his knowledge and to positively affect behavior, culture, and outcomes within organizations.



12th Annual Security and Compliance Summit

Reviewing the Summit

From the venue to the panelists to the presentations, the 12th Annual Security and Compliance Summit received rave reviews from all those who attended. "Thank you for putting together an absolutely outstanding event," related one participant. "We are looking forward to next year!"

The summit began on Monday afternoon with workshop topics related to NERC CIP, ICS, and cybersecurity frameworks. The Welcome Reception in the evening included families of the attendees and two special visitors from Disneyland, Mickey and Minnie Mouse. A professional photographer was on hand to take pictures with these famous guests.

Tuesday and Wednesday were full days of panels, presentations, keynote speakers, and networking. The panels featured lively discussions led by industry experts on topics such as information sharing, supply chain security, and workforce development.

Many of our attendees also took advantage of the discounted Disneyland park tickets to wrap up the event with a family vacation.

Our thanks to each of our sponsors who supported this event. We appreciate your time, effort, and financial support given to this event.

Information Sharing for OT Environments Panel Review

Prominent components of our 12th Annual Summit were panel discussions

by Brandon Workentin, EnergySec Staff

The EnergySec Security & Compliance Summit featured a panel on information sharing for OT environments. Philip Quade, special assistant to the Director and Chief of NSA Cyber Task Force for the

National Security Agency, introduced the panel by talking about how the government is working with industry to advance information sharing architectures to create real-time situational awareness based on machine-to-machine information sharing. He talked about the need to be specific in determining what our goals are in information sharing in order to be successful.

He was then joined by Josh Axlerod of EY, Jacob Kitchel of Exelon, Brian McKay of Booz Allen Hamilton, and Doug Rhoades of Sempra Energy. The current state of affairs was described as "based on personalities and cliques," meaning people in an organization personally know people in other organizations with whom they develop relationships and share information. The panelists discussed how a network of colleagues, referred to multiple times at the Summit as the BEER-ISAC, can be necessary in starting information sharing, but also discussed how the industry may be able to move beyond those personal connections to a program where information is shared at a rapid speed so that actionable information is shared between organizations.

12th Annual Security and Compliance Summit Awards Presentation

And the Honorees are...

EnergySec was proud to honor three individuals at this year's 12th Annual Security and Compliance Summit. Each year, EnergySec gives special recognition to individuals who have stood out among their peers as our Cybersecurity Professional of the Year and Executive of the Year. This year we

added a third award, honoring the Physical Security Professional of the Year.

Reid Wightman was honored as EnergySec's Cybersecurity Professional of the Year. Reid is a security researcher and consultant who has focused on industrial



control systems security since 2007 as a security tester for Schweitzer Engineering Labs. Reid recently founded Revics Security in Indianapolis, IN, which provides in-depth testing and security analysis of Industrial, IOT, and medical products.



Benjamin Beberness, Chief Information Officer at Snohomish County PUD, was honored as EnergySec's Executive of the Year. Benjamin has more than 20 years of information technology experience. He was recognized by Puget Sound Business Journal as the 2015

Outstanding CIO of the Year. Benjamin currently serves on the Energy-Information Sharing and Analysis Center (E-ISAC) Member Executive Committee and on the SAP Advisory Customer Council Utilities (ACCU). Beberness has written numerous articles on cybersecurity, including his latest published in Energy Central in March entitled "Changing from CIO to CDO."



Leonard M. Ketchens (Mike) was honored as EnergySec's first Physical Security Professional of the Year. Mike is a Senior Technical Auditor specializing in physical security. Mike may be a man of few words but not of experience, racking up more than 40 years in the electric and gas

utility sectors. Mike has served as chair of the Physical Security Subcommittee of the American Gas Association (AGA), as a member of the Edison Electric Institute's (EEI) Physical Security Subcommittee, and as a member of the NERC Physical Security Guidelines Working group developing guidance for CIP-014.

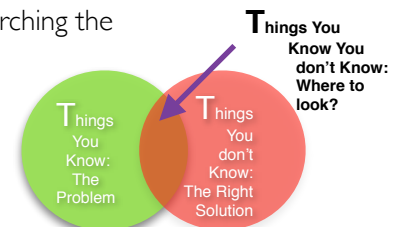
Do You Know What You Don't Know?

Member Benefit - The Vendor Resource Center
by **Andrew Zambrano, EnergySec**

Did you know? Did you know there are over 500 security products and services on the market today?

Of these solutions, many are marketed for the energy sector and address the NERC CIP standards. Even if you didn't know how many products and services are available, you probably do know if a new solution is needed for your organization.

How do you find the right solution for your organization? Where do you start? What are you looking for in solutions? How much time can you devote to researching the options? Do you know what you don't know? In this case, what you may not know is where to start looking for the best solution to your problem.



At EnergySec, we understand that oftentimes the biggest obstacle to getting a great solution is knowing where to look and having the time to do the research and comparisons of products that are available. Many organizations may waste valuable time searching just for a place to begin searching! The EnergySec Vendor Resource Center (VRC) is designed to help organizations of all shapes and sizes find a security solution — a one-stop shopping list of vendor solutions so that you don't waste valuable time in finding a reliable source. EnergySec is working hard to compile a comprehensive list of products and solutions on the market, regardless of the vendor's size or time in the industry. Although there are already many good, well-established companies out there, we understand that a one-size-fits-all approach may not fit your needs. A smaller, more affordable personalized solution maybe just what you're looking for. In collaboration with registered entities and security vendors, we have created a space to browse the various options, including reviewing specifications, similar entity challenges, customer reviews, and any special services that may help your organization increase security.

EnergySec's core mission, "strengthen the cyber security posture of critical energy infrastructures," supports collaborative initiatives and projects that help enhance the cybersecurity resiliency of

organizations. The EnergySec VRC is just that, an initiative that allows us to assist the most important part of the security equation - you, the decision maker. We invite both sides of the table to join us in making The EnergySec Vendor Resource Center a valuable tool for entities seeking information on security products available as we showcase new and innovative products or solutions that may not be well-known. There are products and services available for many scenarios—all that is needed is the knowledge of what is available.

If you are interested in participating in The EnergySec Vendor Resource Center feel free to visit our informational site vendors.energysec.org or email us at vrc@energysec.org.

Speakers' Bureau

An opportunity to promote cybersecurity careers to students in your area

With the many hacking events capturing our attention in the news, it is easy to assume that everyone must be aware of cyber threats and the need for cybersecurity professionals. Yet the message seems to be “lost in translation” from one generation to the next. According to a Raytheon study from October, 2015, 79% of millennials reported that they had never spoken with a cybersecurity professional to their knowledge. The same study also stated that 62% said that no teachers, guidance counselors, or other supervisory adults had ever mentioned cybersecurity as a career possibility.

EnergySec sees this as a challenge! We are actively involved in educating young adults and high school students to the many cybersecurity career opportunities.

Are you interested in giving back to your community? Sharing your knowledge? Exciting the next generation of cybersecurity professionals? Become a part of our Speakers' Bureau. Our goal is to connect cybersecurity professionals with speaking opportunities in their local high schools and cybersecurity programs. To become a part of our

Speakers' Bureau, email us at volunteer@energysec.org.

Upcoming Events

October 1

INTERRUPT Cyber Event

Mt. Hood Community College, Gresham, OR



WorkforceDevelopment

Career Pathways Job Fair

EnergySec promotes cybersecurity careers at job fair

EnergySec was invited to participate in the Career Pathways and Money for College Fair at Mt. Hood Community College at the end of August. This one-day event highlighted employers and programs related to Healthcare, IT/Business, and Advanced Manufacturing, the three largest growing industries in the Portland, OR region. Staff members, Twila Denham and Mary Parker, were able to attend the event and had many opportunities to discuss the cybersecurity profession with students and faculty.



These types of events support EnergySec's mission to educate and influence the cybersecurity workforce of tomorrow and is part of our larger plan to help grow the cybersecurity workforce in our industry over the long term. We are working to model programs in our area that can be scaled nationwide. If you're interested in organizing or participating in this or similar events in your area, drop us a note at workforcedev@energysec.org.

Fall Internships

Applying now for Spring and Summer Internships

As college classes begin, many students in their last year of study will need to think about and apply for internships to complete their degrees. For entities seeking to fill cybersecurity roles within their organizations, this is the ideal time to “try-on” several students to discover those that fit well within their organizational structure and current cybersecurity team.

How do internships benefit your organization?

Internships is a short-term commitment to work with your organization for a specified amount of time. This provides you with additional support staff for projects that need additional man hours to complete. Your team will gain direct knowledge of the individual's skills and abilities to assess if the intern is a right fit for your team.

So why an EnergySec intern? Many smaller organizations are not able to run a full-scale internship program. EnergySec will enlist students from colleges in your area who are interested in working in critical infrastructure. When the students are registered with us, we also provide pre-internship training and orientation specific to the energy sector. We also provide job models for an organization to use to assist in designing a successful internship for both the entity and the student. EnergySec will track interns and provide additional support as needed for both the organization and the student. Our

internship program provides cost effective training specific to the needs of industry.

To find out more information, please contact us at workforcedev@energysec.org or to register as an Employer, go to <http://www.energysec.org/workforce-development/for-employers/employer-registration/>

InFocus - Mount Hood Community College

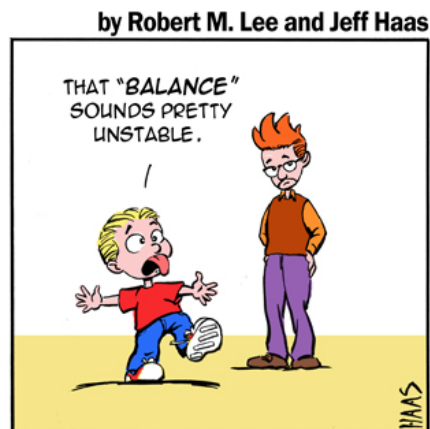
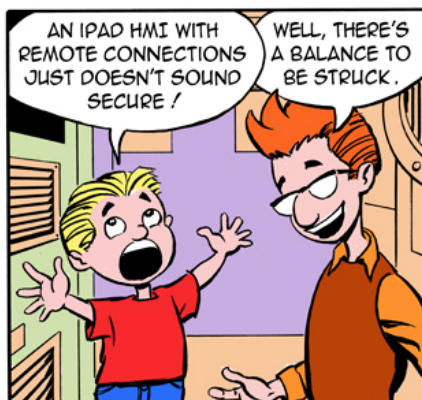
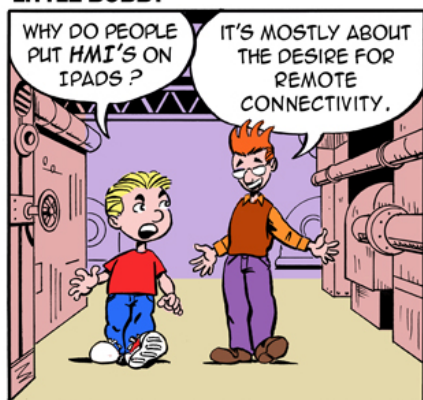
EnergySec has a long-standing relationship with MHCC

EnergySec has relationships with a growing list of colleges and universities throughout the U.S. This month we highlight our longest standing partner, Mount Hood Community College (MHCC) in Gresham, OR.

MHCC is one of a small number of two-year schools that have been recognized by the National Security Agency as Centers of Excellence in Cybersecurity two-year (CAE2Y). MHCC offers an Associates degree in Cybersecurity and Networking, as well as career pathway certificates in several related areas. Their program, led by Dr. Wayne Machuca, has more than 100 enrolled students, and has a proven track record of producing qualified candidates for new cybersecurity positions. In fact, three current EnergySec staff members are graduates of the program.

As EnergySec works to help build the future security workforce, partnerships with institutions such as MHCC will be an important source for new

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professionals. Do you know of a school in your area that we should be connected with? Drop us a note at workforcedev@energysec.org.



Professional Education

NERC CIP for Low Impact Entities

A Review of EnergySec's Newest CIP Course

It's now been two and a half years since we launched our version 5 NERC CIP Bootcamp, and we've been privileged to educate well over 1000 industry professionals over that time. The course, now at version 3.4 and continually evolving with the standards, continues to be popular as new people are constantly entering the CIP world. Now that the July 1st effective for version 6 has passed, and the low impact effective dates are approaching, we are seeing increasing interest in our recently launched CIP for Low Impact Entities course.

Despite the title, the class is appropriate for anyone that is dealing only with low impact assets. It is designed to be self-contained, including foundational material, specifics about the requirements, and a discussion of audit and enforcement practices. The goal is to provide a comprehensive introduction to the CIP standards and prepare industry professionals to effectively participate in compliance programs for low impact assets.

The course debuted in St. Louis this April, and is scheduled to run roughly once a month at locations across the U.S. We are also able to provide this course as an onsite workshop with appropriate customizations for specific entities. This class is another in our series of CIP-related courses designed to provide effective education on the standards to entities of all sizes. All our CIP courses are taught by an experienced faculty of former CIP auditors and regulatory personnel, included full-color, printed curriculum, CPE credits, and after the class follow-up

including curriculum updates and a trial subscription to our bi-weekly CIP Newsletter.

Professional Education Staff Profile - Bryan Carr

Meet one of our NERC CIP Instructors



Bryan Carr brings eight years of senior security consulting in the energy and utility industry to EnergySec's Professional Education Instructors.

Bryan worked for four years as a Senior Compliance Auditor in Cyber & Physical Security for the Western Electricity Coordination Council (WECC). While at WECC, Bryan led and participated in over 100 CIP v3 audits, as well as 10 CIP v5 transition audits.

Mr. Carr's knowledge of infrastructure, software and cyber security capabilities, SCADA and distributed control systems adds depth of understanding to EnergySec's NERC CIP courses.

2017 Schedule

A look ahead to next year

We are currently developing our course schedule for 2017. We will offer two formats for courses this year. In some cities, we will offer multiple courses in two concurrent tracks. In other cities we will offer a 5-day form including both our NERC CIP Bootcamp and our Audit Workshop running consecutively. This will allow individuals to take both courses the same week.

Registration is currently open for the following cities and dates:

Phoenix, AZ | January 23-26
Nashville, TN | Feb 20-24

Additional planned cities are:

- Atlanta, GA | April
- Kansas City, MO | June
- Portland, OR | July
- New England | Sep
- Austin, TX | Nov
- San Diego, CA | Dec



Information Sharing and Analysis

ProtectWise

a "cloud-based network DVR service"

Echoing (to a degree) the sentiments expressed by Jack Whitsitt this month in his RealityCheck column, Information Sharing has been a difficult nut to crack. We say this with experience, since EnergySec has been working on the issue for nearly a decade and a half. Also to Jack's point, success requires a clear definition of goals with a clear path to achieve them. To that end, as we reshape our activities around the emerging ISAO model, we have been looking for tools to help us help industry.

We think we have found one such tool in ProtectWise, a "cloud-based network DVR service" that launched last year. It is currently in use at at least two electric utilities, and has received very positive reviews. EnergySec ISAO staff have been conducting a proof of concept of the tool on our networks, and we have been in conversations with ProtectWise regarding a more formal partnership that would support our industry members.

Sean Maloney, Security Architect at EnergySec, has been piloting the tool and its API. As he describes it, "ProtectWise has turned network packet capture and analysis into an amazingly easy to use visualization and forensic tool based on the well-known Cyber Kill Chain model. Focusing in on specific events and observations by a particular stage in the Cyber Kill Chain model, ip address, threat level, event type, etc. couldn't be easier. ProtectWise also has an API that will allow us to integrate with other tools."

What interests us most about the product is the fact that it is hosted in the cloud, which enables EnergySec to provide assistance to entities from our headquarters in Portland, OR. This is essential to our shared analyst concept, in which staff would split time between multiple utilities, providing a cost-effective staff augmentation approach for small organizations.

EnergySec will be hosting a webinar with ProtectWise in the early fall (date to be determined).



ServicesReport

Framing Security Efforts

On-site Cybersecurity Framing Workshop

by Jack Whitsitt

It's a complicated enough world without cybersecurity concerns, so why make it harder than it has to be? EnergySec's onsite Workshop is able help you see through what can often seem like a morass of confusing and overly-technical information. Our mission is to be your ally and to help you reach clarity.

We will equip you with the kinds of tools and lenses you need to most effectively hear, comprehend, and respond to cybersecurity problems and concerns.

This workshop will help you to effectively evolve your strategy, integrate cybersecurity into the rest of your risk management practices, work through conflicting information, communicate with your peers, and demonstrate leadership.

Customized to your particular organization's needs, problems, and concerns, potential topics for discussion might include:

- Frameworks: Evaluation, Use, Development, and Integration of Tactical, Technical, Strategic, and Business Risk Management Cybersecurity Frameworks.
- Critical Infrastructure Cybersecurity: Basics in public/private partnerships, working with the government, understanding the various roles, responsibilities, and capabilities at your disposal, positioning your organization to have a positive relationship with government.
- The Truth About the NIST Cybersecurity Framework: What is it, what is its role, how can it help your security, how can it help your relationships, how

can you leverage it in your organization's relationship with the security industry, your peers, and the government

- Business-Driven Cybersecurity Risk Management: A non-quant, non-pedantic holistic approach to business-driven cybersecurity risk management
- The Big Picture: The why's, how's, and essentials of how to make organizational cybersecurity BOTH efficient and effective while maintaining compliance
- Making the most of your organization's capabilities: Have you been told you need to buy more, spend more, do more? How about just doing better? Strategic insights into non-traditional approaches to cybersecurity
- What's the risk: A sober, balanced assessment of what the current cybersecurity threat landscape looks like and what it means to you

Contact us now to find out how our onsite workshops can help you find clarity.

ContactUs

We love hearing from our friends in the industry. If you have a question, comment, or simply want to learn more about one of our program areas, visit our website for more information, including contact information for all our staff.