



Boiler Blast News



Representing the Interests of America's Industrial Energy Users Since 1978

AUGUST 2017

Energy - Did you ever wonder why, when you tell someone that it takes energy to make and do anything and that it is important, the answer is usually yes, but so what? As if there is no concern. Energy is one of those things that unless it is lost or you do not have it, it is not a frontline concern. When the lights go out but come back on immediately on a hot, rainy evening, people begin to take precautions – find the flashlights, candles for the old folks – look for the possible cause and maybe call the electric company. Other than that, it is not a problem. It doesn't even rate a top 10 spot on the daily concern list for people other than those who are making the energy for our companies and institutions to make or do what they do. All in all, that is our biggest problem. With the lack of new people entering the power plant energy field, we are already seeing a shift away from people toward the Internet of Things (IOT), doing more with less people and linking data and

knowledge from diverse activities to optimize energy efficiency and performance to minimize outages and maximize profitability. The Focus Group at the September Energy & Environmental Committee Meetings will focus on IoT, what it is and what it can do. What will the power house of the future look like? The National Association of Manufacturers' (NAM) Manufacturing Institute, Deloitte and the World Economic Forum have published "The Skills Gap in U.S. Manufacturing – 2015 and beyond" and "The Future of Manufacturing Opportunities to drive economic growth" respectfully. With an expected 8.9 Billion people global population by 2050, we will need more of everything; yet, to do this we will need more highly technical workers and machines intimately connected to be able to do it at locations across all sectors. To provide the energy to that will definitely be a challenge. How we make and use energy will definitely change as we look for efficient and

effective ways to do it with relatively less skilled workers than we have today. CIBO has always been a leader in addressing the changes needed as they develop. In today's world where energy, environment, sustainability and social responsibility must be addressed simultaneously, we can see where the need to integrate the technical needs of making and using energy will play an even bigger role in the future.

Environment - The "Quiet before the Storm" could very well portend the ferocity of the storm. With the Administration focused on issues other than energy and the environment, and not seemingly energetic in placing second tier leaders, (the guys and ladies who actually get the work done), up for nomination and in place, it has been exceptionally quiet. The environmental activists have not had much to do except raise lots and lots of money to beat back anything this Administration does. This along with

the battle between the Washington insiders and the outsiders regarding what should be done and how, continues to frustrate those within government that would like to see improvements made. Based on the suites filed against just about any action the EPA has taken and the rhetoric around the exit from the Paris Agreement and the future of CPP, the storm could be on the order of an “F4 or F5.” We heard from Jim Eddinger of EPA in Portland a couple weeks ago. Jim gave us an update on Industrial Regulatory Activity. The Boiler MACT activity is mostly tied up with Court orders and cases. On the first litigation, there were 9 issues. The Court sided with EPA on malfunction, pollutant by pollutant, energy assessment, CO as a surrogate, Health Based Limits, use of UPL, and subcategories. The Court asked EPA to better explain why CO was a good surrogate for organic HAP and the proper calculation of limits for units with multi fuel sources. After the Court decision there were 3 rehearing petitions. The Court allowed EPA to remand rather than vacate the calculations. The Court denied the enviro petition to reopen the UPL and denied the industry petition on malfunctions. EPA is reviewing all of the numerical standards to determine which standards need to be changed. As it stands now here is what EPA is seeing:

Existing Emission Standards

- Mercury standards – 2 of 3 become more stringent
 - 6% Solid Fuel
 - 63% Liquid Fuel
- HCl standards - 2 of 3 become more stringent
 - 30% Solid Fuel
- PM standards – 6 of 12 become more stringent
 - 85% Biomass FB
 - 34% Biomass Dutch Oven
 - 20% Biomass Suspension Burner
 - 7% Wet Biomass Stoker
- CO standards – 3 of 15 become more stringent
 - 55% Biomass FB
 - 50% Wet Biomass Stoker
 - 19% Coal Stoker
- Summary: 14 of 33 standards become more stringent
- TSM: 2 of 12 become more stringent; 95% Biomass FB, 16% Wet Biomass Stoker
- PM standards – 4 of 12 become more stringent
 - 11% Biomass FB
 - 20% Biomass
- CO standards – 3 of 15 become more stringent
 - 69% Biomass FB
 - 1% Wet Biomass Stoker
 - 83% Biomass Hybrid Suspension Grate
- Summary: 10 of 33 standards become more stringent
- TSM: 2 of 12 become more stringent; 84% Biomass FB, 95% Heavy Liquid Fuel
- Dutch Oven
- 20% Biomass Suspension Burner

New Emission Standards

- Mercury standards – 1 of 3 become more stringent
 - 96% Solid Fuel
- HCl standards - 2 of 3 become more stringent
 - 3% Solid Fuel
 - 100% Liquid Fuel
- PM standards – 4 of 12 become more stringent
 - 11% Biomass FB
 - 20% Biomass

In addition to the remand, there are executive orders that are impacting the various reviews. These include rules that could be repealed and replaced, replace 2 rules for every new rule, and to reduce the cost of regulations. That means that the new numerical standards need to assess their impact. In the second litigation, the Sierra Club sued EPA over the new definition of startup, the revised 130 ppm for CO, and others. Of course, we are coming up on the 8 year review period for MACT rules and that could start the process all over again. The EPA is still awaiting for an Administrator for Air so that decision making can move forward.

CIBO is continuing our efforts with the existing coalitions to improve and expand the ability to use railroad ties under the NHSM rules and to help move NSR and Regulatory reform. We will be talking about this in September at the Focus Group at the Energy & Environmental Committee Meetings and especially during the

Annual Meeting in October in Ponte Vedra, Florida.

Technical - This month's Industrial Emissions Control Technology XV Conference & Air Permitting Workshop in Portland, Maine brought owners, equipment & services suppliers and regulators together focusing on compliance case studies, latest emissions control technologies, regulation implications & issues, and monitoring & data collection. Thursday's Air Permitting Workshop provided valuable information and insight in this new era of compliance and enforcement. Attendee surveys gave high marks for the conference and workshop and indicated that the information that was presented and discussed was timely and pertinent.

At the end of the IECT Conference this year there was a general sense that "Oh My Goodness!" We don't really have a good understanding of what is going to come at us. Assumptions will not be enough when we are challenged. Industry and institutions will have to know in real time everything that comes into or leaves the fence line, a topic related to the new EPA petroleum fence line monitoring rule that will be discussed in greater detail in September at the Technical Focus Group, Energy & Environmental Committee Meetings. As the Administration is seen as backing off environmental enforcement and regulations the Citizens groups and Environmental activists will step up and surpass anything EPA would have been done. For those who attended the Permitting Workshop the response was the best we have ever had for a meeting. If you are not intimately familiar with all that makes up your Title V Permit (everything that is referenced within it), you could have a problem. If you do anything that changes the way you

use energy that could increase the potential for emissions, you could have a problem.

Presentations on a flash drive are being mailed to attendees. If you were unable to attend, conference presentations on a flash drive can be ordered through the publications area of the CIBO website <https://www.cibo.org/resources/publications/>

Technical Focus Group, Environmental, Energy Committee Meetings - September 12-13, 2017, Arlington, Virginia

Focus Group Topic is Opportunities Provided by Internet of Things (IoT) for Industrial Energy Management.

Energy, Environmental and Government Relations Committees will address Key topics including: EIA Short Term Forecast, Implications of a Smaller EPA, Litigation & Regulatory Updates, Sustainability, and RTR & Water (WOTUS Rule Changes) Updates.

39th Annual Meeting – October 18-20, 2017 – Ponte Vedra Resort, Ponte Vedra, Florida

This year's Annual Meeting theme is "Leveraging today's opportunities to meet tomorrow's challenges."

At the end of the 2015 Annual meeting at the Ponte Vedra venue, everyone requested we come back. It is a great venue. We are there again this year. With the chaos going on as the Trump Administration takes control, how energy and environmental issues will be addressed and handled will be of prime importance as everything begins to come together and the challenges we expect to be facing will begin to solidify. The Annual Meeting

is for members and invited guests only. If you know of someone that should be invited, let us know. Invitations have been emailed to our members and honorary members.

Annual Membership Survey

The extremely important annual membership survey was sent to Principal Representatives on August 14th.

Principal Representatives, please take a few minutes to provide valuable feedback to guide CIBO's efforts in strategy development and allocation of resources for maximum benefit to members. As you open your survey, last year's responses and information are included. Only changes have to be made. Survey results will be reviewed and summarized, presented and discussed at the Annual Meeting in October, and used to develop CIBO's strategy for 2018.

Higher Logic Communications Platform

- The beta version is up and under review by our principal representatives and the initial formation committee. The full program will become available to all CIBO members in our database on Friday September 1st. Members will receive an Email from Candy with the initial instructions on how to participate. If you do not have a personal members' only login credential, you will need one. Contact cmarriott@cibo.org and she can make that happen.

From the President's Desk –

Bob Bessette - The other day I saw a first here in D.C. The Chamber of Commerce's Institute for Corporate Social Responsibility offers CSR practitioners the opportunity to earn a Professional Certificate in CSR from

Johns Hopkins University in just four, two-day sessions. Can you imagine anything like this happening 20, even 10, years ago? Our world is changing so fast. The work we are doing with Higher Logic is one step in the process to help us be able to move as fast as the change. Change is always tough when you don't have the ability to manage it. It is a little better if you see it coming and have a means to mitigate its impact and come out on top. That is what we will be addressing at this year's Annual Meeting. Thank Goodness it is in a great location to help us relax as we begin to identify and tackle this change head on. Remember it is impossible to make or do or CHANGE anything without energy.

2017 Events

Sept 12-13/Dec 5-6/ Technical Focus Group, Energy & Environmental Committee Meeting / Hilton Garden Inn, Arlington, Virginia

Oct 18-20 - 39th Annual Meeting, Ponte Vedra Resort, Ponte Vedra, Florida
