



# cibo NEWS

Powering a sustainable energy future

September 2024

## EVENTS

**September 24 – 25, 2024**

**IN-PERSON** Conference  
Washington, DC  
Policies & Technical Issues II

**October 29, 2024**

CIBO 46<sup>th</sup> Annual Meeting  
**VIRTUAL** Business

**December 10, 2024**

“EE” Committee Meeting  
**VIRTUAL** Webinar  
Presentations  
(3pm – 5pm EST)

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### CIBO Welcomes New Member – Jim Hoyt (AMD), CIBO Chair

We are delighted to welcome new members to CIBO – Earthres and Gecko Robotics! Both companies had their Principal CIBO Representatives on hand at CIBO's May Conference, each making presentations: Dean Ritts for Earthres and Robert Petro with Gecko Robotics.



Gecko Robotics is helping the world's most important organizations ensure the availability, reliability, and sustainability of critical infrastructure. Gecko's end-to-end solution combines an AI-powered data platform with advanced robotics and industry leading sensors to give customers a unique window into the current and future health of their physical assets. This enables real-time decision making to increase the efficiency and safety of plant operations, prevent forced outages, and promote energy efficiency and security.



EARTHRES is an engineering and environmental services company with comprehensive expertise in mechanical, civil, process, mining, and environmental engineering. The expert team serves numerous industries, emphasizing solid waste management, energy, and mining. Decades of process engineering experience is leveraged to help clients achieve corporate sustainability goals by implementing plant level projects.

EARTHRES is on the forefront of innovative environmental projects, including Renewable Natural Gas (RNG) facilities at landfills and cutting-edge waste processing facilities converting food waste into biochar, or fats, oils, and grease into fuel. We also spearhead projects at quarries to reduce greenhouse gas emissions, enhance process efficiency, and boost profitability.

We participate in trade organizations such as SWANA (Solid Waste Association of North America), PACA (Pennsylvania Aggregates and Concrete Association, and HFMADV (Healthcare Facility Managers Association of the Delaware Valley), just to name a few. Enthusiastic supporters of the engineering profession, we sponsor the Pennsylvania Society of Professional Engineers.

### **CIBO's August 6, 2024 Virtual Meeting – Presentations**

For CIBO's August 6<sup>th</sup> presentations meeting, our fourth virtual meeting session held this year, three topic presentations were made, reflecting the range of our members and the policy topic areas we focus on. Topics/Presentations were sent to all CIBO members – and also placed on CIBO's website:

- **European Union – Corporate Sustainability Reporting Directive (CSRD)**
  - Jessica Urdangarin, ERM
- **Cornell University – Campus Energy Profile**
  - Stacey Edwards & Cheryl Brown, Cornell
- **Microsteam Turbine Technology & Solutions Using Waste Energy**
  - Darren Wager & Joanne Barrett, NLine Energy, Inc.

Our thanks to the presenters! For our virtual meetings, as well as our in – person conferences, please share your thoughts and suggestions with us for future presentations – consideration! Especially with our virtual sessions, we intend to schedule key topics on a more regular basis, with only one or several topics, allowing for more regular sessions – and to give us flexibility to schedule virtual meetings more easily and more often, and taking less time on your schedules to join our calls. Also, as a reminder to all: our CIBO virtual meetings are all covered via the annual meetings fee that CIBO members pay at the beginning of each year. This also enables our members to distribute out meeting notices internally and to our members to have multiple people on our calls. Thanks very much to the thirty participants who joined us on our August 6<sup>th</sup> call!

### **Please Register and Plan to Join Us! CIBO's September 24-25 "Policies & Technical Issues Conference II" – Washington, DC**

We're now finalizing our plans and agenda for the September Conference in Washington, DC. Many of you have already registered – and we encourage you to make your plans to come to the meeting and to register and to secure hotel rooms on our website now ([www.cibo.org/events](http://www.cibo.org/events))

#### **CIBO PTIC II – Agenda Highlights**

- **Political/Elections & Key Issues Update – Panel Presentation**
  - White House and Congress
  - Legislative & Policy Priorities – Energy/Power, Environmental Regs and Climate Change
- **Legal/Key Regulatory Updates**
  - U.S. Supreme Court *Chevron Doctrine* Decision – Federal Agency Regulation Implications
  - EPA Air and Water Regulations – Updates (PM 2.5, 2015 Ozone NAAQS SIPs, SSM, Powerplant GHG Litigation)
  - EPA Project Emissions Accounting (PEA) Rulemaking
- **Nuclear Power – Industrial: Regulatory and Technology Updates**
  - Commercial Licensing and "Advance Act" Legislation Updates
  - Permitting Process Complexities – Advanced Reactors
  - Integration with Existing CHP Systems
- **Power House/Boiler Operations & Fuel Conversions**
  - Biomass and Waste Burning
  - Fuel Conversions – Case Studies: Fossil Fuels, Hydrogen, Coal to Gas
  - Boiler Surfaces – Cleaning

- Equipment Reliability and Start-Up Challenges
- **PFAS**
  - Regulatory Updates, Agency and Capitol Hill
  - Detailed Examination: Analytical Methods, Impacts of MCL's and CERCLA Designation
  - Requirements: Phase I Site Assessments
  - Information Collection Request (ICR) for Wastewater Utilities (POTW)
- **NPDES Permitting (Clean Water Act) – Primer**
  - Water Discharge Issues – Mercury, Phosphorous Limits
- **CIBO Member – Operations Case Studies**
  - Industrial Operation Project Profile: ADM Decatur, IL CCS System
  - Campus Operations/Power Profile – University of Virginia

#### **CIBO Overview and Membership – 2024**

- CIBO remains dedicated to ensuring that non-utility industrial, commercial, and institutional (ICI) energy producers can continue to provide safe, cost effective and reliable energy to sustain a strong and globally competitive position. Our members include several manufacturing industry sectors, which makes our reach and depth of knowledge wider and deeper.
- Our main principle is to stay member - focused. All of our members have a seat and a vote on the CIBO Board, so you always have a voice.
- We are the only place where the technical and policy sides of the ICI energy and environmental requirements come together to support policy and solutions development, on a national and corporate level, which is positioned for implementation at the local plant level.
- CIBO is now at a perfect inflection point to maintain its important voice at the policy table, particularly in Washington, as the U.S. and other world governments look at aggressive long term carbon reduction goals. As his debate continues to move forward, CIBO will maintain its focus on the importance of sustainability and carbon management in the ICI energy space.
- CIBO works closely through coalition efforts with other leading manufacturing trade associations in Washington, DC where our interests align. We compliment the work of these organizations – where we often take a narrower and more technical focus at the facility level, for example, looking at major EPA air regulations – facility operations, implementation, and compliance, as well as industrial powerhouse operational concerns.
- ***CIBO is positioned to maintain an enhanced, dedicated focus on sustainability - tied objectives and carbon management in the ICI energy space. This includes expanded public policy - external communications and advocacy engagement. We have worked to re-set our strategic course to now meet these challenges head – on.***

#### **CIBO's Mission and Membership**

CIBO has re-fashioned itself over the past several years to squarely address the continuing transformation of the energy sector in the U.S. With this technology sea change underway – now and for many years to come, CIBO has changed to meet these challenges. The organization has also positioned itself to be able to provide enhanced regular support and assistance to our members. Across our three equally important membership classes – manufacturing companies, universities, consulting firms and suppliers – members are working very hard every day to navigate the regulatory,

legislative and policy complexities we all face. CIBO has widened its focus to capture an array of policy challenges before us, including energy technology changes, sustainability and de-carbonization concerns. At the same time, CIBO remains steadfastly committed to a technical approach to much of our work, including at the plant level – where we dive into both powerhouse and boiler operational concerns as well as environmental regulatory implementation and enforcement issues.

- **Our Re-Focused Mission Moving Forward:** We are very well positioned as an organization to address and profile these issue complexities. One of our main goals is to identify and to pursue technical solutions to support our current and future industrial energy needs.
  
- **CIBO Membership and You:** CIBO is once again experiencing very significant growth in our membership. Over the past 15 months, twelve new members have joined our ranks. This gives us important, added financial resources to build on our activities. We, as members, give CIBO its life blood. In 2024, we will continue our momentum from last year, working hard to bring in more new members as we go along. I want to take this opportunity to again thank each of you for your continued support for CIBO! We look forward to working with many of you as we continue with our membership recruitment efforts. Our best recruitment opportunities come by way of the individual business connections that we all have.

### **CIBO's Key Areas of Focus – Energy Technologies, Industrial Power, De-Carbonization, Sustainability and Environmental Compliance**

CIBO Maintains an identified list of policies, technical issues, regulations etc. which we focus on each year. Below is a summary list, which is also included on the CIBO website – Policy Committee areas ([www.cibo.org](http://www.cibo.org)) We will be reviewing and updating as – needed this list as we advance our planning for this year, including our CIBO meetings and our in – person conferences. We'd love your input! Please reach out to our CIBO Policy Committee Chairs, Bob Morrow – Environmental Committee ([bmorrow@detroitstoker.com](mailto:bmorrow@detroitstoker.com)), Robin Ridgway, Energy & Sustainability Committee ([rmridgway@purdue.edu](mailto:rmridgway@purdue.edu)) or Alex Stoddard.

#### **Climate and Clean Energy Policies**

- Greenhouse Gas (GHG) Emissions Reporting
- Social Cost of Carbon
- ESG Risk Reporting – SEC Regulation
- Sustainable Development Goals – U.N. and NGO's

#### **Boiler Operations**

- Boiler Safety
- Resiliency Planning and RMP
- Alternative Fuels: RNG, Biofuels, Hydrogen Blends, Biomass, Nuclear (SMNR)
- Powerhouse – Operations and Communications
- Waste Heat Boilers and Steam Generation Optimization
- Renewable Energy – Heat Recovery
- Boiler Water Chemistry

#### **Power, Energy Technologies, Programs and Markets**

- Industrial Power De-carbonization Technologies
- Industrial Energy Efficiency and CHP
- Campus Energy Profiles
- Thermal Energy Storage
- Carbon Sequestration
- Hydrogen Hubs and Systems
- Direct Air Capture
- Electricity and Natural Gas Markets (DOE)
- DOE, EPA, IRA Programs – Tax Incentives and Grant Funding

#### **EPA Air and Water Regulations**

- 2015 Ozone NAAQS Implementation
- Changes to PM 2.5 NAAQS
- Boiler MACT and MACT RTR's
- Fuel Conversion – Clean Air Act
- PFAS – Implications for Industrial Energy/Operations
- Waters of the U.S. (WOTUS)

#### **State – Level/Facility – Compliance and Permitting**

- Environmental Justice (EJ) – Community and Cumulative Impacts
- Fenceline Ambient Monitoring
- Cooling Water Intake Structures (316b)
- HAPS Compliance – Title V Permitting
- EPA Facility Data Reporting
- Facility NOx Reduction Control Technologies