NOVEMBER 19
12:00 PM - 1:00 PM
Goto Meeting
Link will be shared to people who have registered

Pricing
$20 - Chapter Members
$25 - Non-Members

Hit a financial hardship?
If so, we have an “offer what you can” option too.

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PROGRaM:
MEASURING RELIABILITY AND RESILIENCE IN MICROGRIDS

PRESENTATION SUMMARY:
Across the U.S., sustainable microgrids are emerging as a vital tool in the fight against climate change and increasingly common natural disasters. In the wake of hurricanes, earthquakes and wildfires, the traditional energy grid in many parts of the country is struggling to keep the power flowing, causing outages that slow local economies and ultimately put lives at risk. This session will help you learn how to measure the resilience and reliability of your microgrid, as well as the critical system requirements.

SPEAKER: KATHERINE HAMMACK
Honorable Katherine Hammack serves as Director of Special Projects at the Green Business Certification Inc (GBCI). She reengages with the USGBC family after having worked as one of the founding members over 30 years ago. She has many years of experience in energy, sustainability, utility and infrastructure operations, and is delighted to come back to help advance tools to improve the built environment. Her focus is on increasing resilience and reliability in power grids and the built environment with the PEER and RELI programs.

Continued on next page
A graduate from Oregon State University with a degree in Mechanical Engineering as well as a Masters in Business from University of Hartford, Hon Hammack couples a strong background in energy and engineering with her goal of building a better working world for future generations.

Katherine serves on numerous boards and advisory committees, including ASHRAE Board of Directors and the Board of Directors of Slipstream, a non-profit organization that creates, tests, delivers and scales the next generation of energy efficiency and renewable energy programs that move us farther, faster toward a clean energy economy.

Hon. Hammack was appointed by President Obama as the Assistant Secretary of the US Army for Installations, Energy and Environment in 2010. She served in that capacity, through 2017, with responsibility for policy development, program oversight, outreach, and coordination of a wide variety of Army activities overseeing all of the Army’s installations. Under her leadership, the Army instituted a net zero program for energy, water and waste. This program focused on efficient and effective resource management, on Army bases, to increase resiliency and reduce operating costs. She initiated the Army’s renewable energy program to increase resiliency and readiness of Army installations through on-base power production, microgrids and energy storage initiatives. She also implemented programs to double the number of energy savings performance contracts in the Army.

Hon. Hammack’s career includes work in sustainability consulting, for several electric utilities, manufacturing and product management.

She has also received recognition as an ASHRAE Fellow and Distinguished Service recipient; the Decoration for Distinguished Civilian Service in 2015 and 2017 for exceptional leadership in the US Army; the Association of Defense Communities President’s Award 2016 for leadership in advancing innovation; and the USGBC Leadership Award 2015 for outstanding leadership in the public sector.
Hello Everyone,

It is finally November and the big election is over (at least I think it is)! Without diving into politics, I want to talk about metrics. As I was recently in Pennsylvania for a month, a swing state, I was bombarded with tons of information from media outlets on topics like poll predictions and appeals on how to cast a vote. This deep level of voter analysis made me think about our Chapter and our metrics.

As you all should be aware by now, I made a Presidential Goal to have at least 33% of our speakers be woman speakers. We have spoken about this goal at our Chapter meetings and with committees and members directly. With this effort, I thought it would be a slam dunk to have over 33% women! Surely, we will be able to achieve 50 / 50 women and men speakers.

I decided to do the math. At the end of September, we were at 26%, still off from our 33% minimum goal. Since then, we have added two more women speakers, both incredibly qualified and technically robust professionals, and we have finally hit our goal (barely)!

So, where am I going with this? The Golden Gate ASHRAE Board has always had an informal board candidate selection process with maintaining diversity; the Board looks at a combination of different backgrounds in industry and gender. Being Chapter President, I made it my goal to hit this minimum target as related to Chapter programs, and even when I thought I hit my target, I needed to confirm I actually met my goal.

Well, I now look to our members and our local companies and ask - What are your metrics? Do you seek out a diversified pool of applications when hiring within your firm? How many women are currently employed at your firm? And this idea of diversification doesn’t just apply to women… How about Black, Indigenous and People of Color (BIPOC) representation within your firm? Are they in the entry level positions or leadership positions? Are they in technical roles and/or core services to your business? How do you determine who gets what opportunities? How are you supporting female and BIPOC employees, so that they can work towards higher level positions? Does your company have a paid family leave policy in place, encouraging and helping women maintain their career paths, even whenever they decide to expand their families? What happens when an issue comes up, whether it is apparent, or more of an unconscious bias issue? Do you support your employee, or do you brush off their concern? Are you leading in this space or are you in the dark about how to support minority groups?

We need a diverse group of people at our table, within our leadership positions, as speakers, authors, award recipients. We all need to look at our targets and see if we are actually meeting them or are we just offering lip service? We as a country are facing some incredible challenges right now, and the more diverse our group of problem solvers is, the better the solutions we can offer.

Motivationally yours,

Alyse Falconer, Ashrae President 2020-2021
Thanksgiving... NOVEMBER 2020

“We gather together”

((Adrianus Valeriusm 1597 Theodore Baker 1894 ..the year ASHRAE’s successor society began))

ASHRAE figures very large in allowing the Nation to actually have...and enjoy our National Holiday!...and the food that we particularly associate with Thanksgiving. Let’s think about that a bit... as we do give thanks for what we are able to have. President Abraham Lincoln set the date in 1863, as a National Day to give thanks.

After that trip of...“over the river and through the woods...” we arrive at the house...(a nice warm house, I might add...complements of ASHRAE Technology) )...where a real Thanksgiving meal has been prepared...

The food that symbolizes and marks the special Thanksgiving meal...is on the table...(and affordable!) ...because of ASHRAE Technology!

Refrigeration has been extensively used in the treating and preserving of that fresh chicken, capon or turkey that is carefully prepared...saying this another way...is it even possible that that fresh poultry could not even make to the kitchen...if we had no refrigeration!...Check the ASHRAE Handbook on Refrigeration in Chapter 31 for complete instruction on when, how, and, where to treat poultry with refrigeration to have a safe...and desirable product...Conversely, we might ask... “Where else would you look, to find the instruction provided by ASHRAE?”

The fresh, frozen peas or green beans that are served...harvested at their peak of flavor...are preserved by ASHRAE’ Refrigeration... Check ASHRAE Handbook 2014 on Refrigeration, Chapter 40, for detailed instructions about cooling, canning, freezing, casing, storage, preserving, shipping and cooking all of the vegetable that grace your Thanksgiving Table!...That means your potatoes, pumpkin pie filling, lettuce, lemons, and cranberry salad, too.

Don’t forget that your “Thanksgiving-chef” used dairy products to produce your sumptuous meal...and those too, demanded refrigeration... butter, milk, cream, cheese, and eggs! The cattle and chickens were housed, in many cases, in ventilated facilities for which ASHRAE-technology provided the instruction and/or the design direction. ASHRAE Handbook on Refrigeration has numerous chapters on milk, cheese, and ice cream production... again...where else would you go to find this information...as easily as ASHRAE?

When Walmart agreed to offer “San Francisco Sour Dough “Bake & Serve” French Bread” in their stores, Walmart required that the baker have not less than 500,000 pounds of product, in frozen storage as a buffer to meet the expected demand...we converted a portion of the Safeway’s Oakland Ice Cream Plant into frozen... “bread storage”...and the contract went forward. ..More refrigeration practice by an ASHRAE Member.

You “worked” your way through that Thanksgiving meal...and probably enjoyed some beverage(s)...Just think how refrigeration was used to produce, preserve, and store all of the items that you can think of...(Remember Champaign requires the freezing-solid, of a “plug” in the neck of the bottle...this to allow the bottle to be opened and the sugar added...and the bottle reclosed... Try that without refrigeration.

One item about that wonderful Thanksgiving Meal that we didn’t mention...that is just how economical the use of ASHRAE Technology is...that the SHRAE Technology it can be applied so liberally to the items that we enjoy.

Yes...we have a great deal to be thankful for...and ASHRAE Technology...and our historical-Thanksgiving meal is indicative of not only that...but all of the other items that grace our existence in this Great Country!

Happy Thanksgiving to you!...and we can enjoy the food because of ASHRAE!
HVAC 101 Virtual Course - Rescheduled

By Megan Dawe, Post-High Lead

Join us for a 2-part series on HVAC fundamentals. We are excited to announce the course will be taught by ASHRAE Vice President Don Brandt. Don is an ASHRAE Learning Institute Instructor and author of ASHRAE’s self-directed course “Fundamentals of Psychrometrics”. The virtual event is FREE for Student Members and YEA Members. Register for the event now!

Part 1: TBD  Part 2: TBD

Register on the Golden Gate ASHRAE website here: https://ggashrae.org/meetinginfo.php

Your chance to help prepare K-12 Schools for Reopening

By Issac Simpson, K-12 School COVID-Readiness Volunteering Lead

The ASHRAE COVID-19 Taskforce has continued to provide our industry guidance and recommendations throughout the epidemic. The Golden Gate chapter student outreach committee is working to help our local schools understand the reopening guidelines as it applies to K-12 classrooms in the Bay Area. We are hoping to recruit some volunteers to join us in visiting select schools to highlight those recommendations for common classroom HVAC systems. Our goal will be to visit different schools with different HVAC equipment types and show how the guidelines can be used to assess their current status versus what has been recommended. Following each visit the group will issue findings as related to the taskforce guidance. Photos and/or short videos from each site will be shared on the chapter website as a resource to other local schools that might have similar HVAC systems.

The shared information from these site visits will improve the understanding of HVAC Equipment Inspection, Ventilation, Filtration, and to possibly how those relate to Energy Use and Building Controls. In addition, these efforts will also be instructional to local schools on how they might be eligible for HVAC improvements funded through the passing of AB 841 which goes into effect early 2021.

We hope to recruit volunteers that would be excited to help make the taskforce guidance tangible for our local K-12 community. The chapter hopes to recruit volunteers from across multiple disciplines for this effort. Volunteers will need to participate in a virtual pre-meeting to review a common checklist for performing the assessment. We are asking that volunteer time be employer supported and that volunteers provide their own appropriate PPE and transportation for these visits.

Finally, all activities will be conducted in adherence to state and local guidelines related to safety during the pandemic. School site visits will be done at empty campuses or outside of schedule classroom hours.

Continued on next page
ASHRAE Undergraduate Project Equipment Grants Available with December 15 Deadlines

By Alicia Tan, Student Activities Chair

The undergraduate project equipment grant provides funding to engineering, technical and architectural schools worldwide with the goal of increasing student knowledge, learning and awareness of the HVAC&R industry through the design and construction of equipment. Grants are up to $5,000 and are used to fund equipment and supplies for senior projects and 2-year technical school projects that focus on ASHRAE-related topics. Grants may cover projects lasting from one academic term up to one year. There are bonus points available for applications submitted before November 15th!


The deadline for applications to these grants is December 15, 2020.

2021 ASHRAE Golden Gate Winter Conference Grants

By Richard Paillon, Scholarships and Grants Lead

The Golden Gate Chapter would like to invite Chapter Students to apply for a grant for registration at the 2021 American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Winter Conference that will be held on-line. The student registration fee for the previous ASHRAE virtual conference was $25; the chapter will cover whatever this year’s fee will be.

In the past ASHRAE hosted their annual conference and expo in major cities. The conference was normally attended by over 10,000 industry professionals. The Golden Gate chapter would regularly sponsor two student ASHRAE members to attend the conference. This year’s virtual conference (due to the Covid 19 pandemic) is a great opportunity to have many more student members take part in the activities. There will be many live technical sessions and more recorded sessions available for 18 months. See https://www.ashrae.org/conferences/2021-virtual-winter-conference.

Student members please put this on your calendar. Applicants are required to:

- Be an ASHRAE Student member enrolled in a college or university within the geographical area covered by the Golden Gate Chapter.
- Attend at least 2 sessions at the conference.
- Apply for the grant prior to registering online for the conference. A confirmation of the grant will then be sent to the student.
- After attendance submit a receipt or acknowledgement of payment for conference registration and a list of the sessions attended.

Students may submit their grant request with their ASHRAE membership number to aggcstudents+Sclships@gmail.com. Those who do not apply for their grant prior to the deadline may still be reimbursed for attendance if there are grants left over after the normal application process.

Requests are due no later than 5:00 pm on February 5, 2021.

Continued on next page
Golden Gate Chapter Scholarships and Grants Lead

By Richard Paillon, Scholarships and Grants Lead

The Golden Gate Chapter of ASHRAE will distribute as much as $54,000 in scholarships to our student members. These are independent of the scholarships distributed by the ASHRAE National Society. This breaks down to:

- Eric T Andresen Memorial Scholarship Fund (eleven scholarships)  $50,000
- Golden Gate Chapter Student Scholarship (two scholarships)  $4,000

Student members, please apply as early as possible. Others, please encourage any student members you know to apply for the Golden Gate Chapter’s scholarships. The deadline for both types of scholarship March 5, 2021. All applicants have a good chance of winning one of these scholarships due to the history of limited numbers of applicants. Last year all qualified applicants were awarded a scholarship.

Applications for the two types of scholarships can be found at the following addresses:

- Eric T Andresen Memorial Scholarship:  
  https://drive.google.com/file/d/1nZs_PMOTMFKqew3vVIXMIN_gIlW1P2vsd/view?usp=sharing

- Golden Gate Chapter Scholarship:  
  https://drive.google.com/file/d/1gacum73n3aKtp0OxCVUvLEYfOEZC-k4f/view?usp=sharing

Contact Richard Paillon (aggcstudents+Sclships@gmail.com) with any questions.

The deadline for applications to these scholarships is March 5, 2021.
Hello from the Sustainability Committee!

Since the inception of this committee in August, we have been meeting regularly and deliberating on the course and goals of programming for this year.

We are proud to present to you our ‘Women in Sustainability’ series to be commencing in 2021. We have invited ASHRAE Distinguished Lecturer Dr Marwa Zaatari, Chief Science Officer at Blue Box Air, to present at our April 2021 chapter meeting. More details on her presentation will be sent closer to the event.

Planning is also underway for a multi-speaker session along sustainability theme with up and coming women engineers. If you would like to present or nominate someone, please refer to the CTTC update for further details.

This is an exciting time for us putting together these sessions and if you are interested in joining this committee and/or have ideas for events, please contact Manalee Nabar at Manalee.nabar@wsp.com.

A WORD FROM THE ASHRAE REFRIGERATION COMMITTEE

As might be expected California is leading the way when it comes to reducing greenhouse gas (GHG). Going forward expect to see a lot of focus on the use and application of natural refrigerants which have very low global warming potential (GWP) of 0 to 4 like ammonia (R717), CO2 (R744) and propane (R290). The food processing industry has used ammonia for decades and technologies are evolving that make CO2 and propane more desirable. Stay tuned for upcoming technical sessions and potential jobsite visits highlighting the use of the highly efficient and environmentally friendly refrigerants.

Save the Date: March 18

CO2 Chiller and thermal energy Ice storage site visit to Amy’s Kitchen (Happy Hour at Russian River Brewery Afterwards). Planned for March 18 but dependent on COVID protocols at the time.
Will Slope is currently a Sales Engineer at Air Treatment Corporation. He works on their refrigeration team developing economical equipment solutions for customers with low temp storage and process needs. Primarily working with natural refrigerants, Will has recently helped to secure state grant funding for food processors seeking to reduce their carbon footprint.

Graduating from Cal Poly San Luis Obispo with a degree in Industrial Engineering in 2017, Will began working at Air Treatment immediately. He has spent his time since then learning about Ammonia and CO2 applications in industrial cooling settings. Calling Santa Cruz, CA his home has allowed him to routinely visit smaller bay area commercial cooling sites, as well as large industrial agricultural sites in the Salinas valley.

His greatest excitement about working in low temperature refrigeration is being on the cutting edge of tangible environmental progress. Natural refrigerants are the key to long term sustainability in cooling due to their low GWP and wide range of temperature applications.

In his free time, you can find Will hiking with his wife Jacqueline, surfing the coast, or spending time with his dog and rabbits.

**PRESENTATION OUTLINE**

**Topic: Natural Refrigerants for Low Temp Applications in Commercial and Industrial Settings**

- Ammonia Refrigeration Systems
- Environmental Impact
- Common System Types and Applications
- Feasibility and challenges in varying settings
- Carbon Dioxide Refrigeration Systems
- Environmental Impact
- Common System Types and Applications
- Feasibility and challenges in varying settings
- Process CO2 Chillers
- Wineries
- Food Processors
- Questions
Hello Golden Gate Chapter Members,

Please consider membership advancement, if your current membership status is Associate! Why should a member advance from Associate to Full Member status?

- Local Chapter Recognition
- Service Society, Chapter, or Regional Committees
- Qualify for ASHRAE Fellow & other Society awards

To become a Full Member, complete the following three steps below.

**STEP 1:** Check if you qualify for advancement. (See next page on attaining full membership)

**STEP 2:** Update your ASHRAE Profile by logging into your https://www.ashrae.org/login. Select “My Profile” and then select Biographical information and update.

**STEP 3:** Notify/Email ASHRAE by emailing at membership@ashrae.org and let them know that you wish to be considered for a grade advancement

Feel free to reach out if you have any question regarding membership advancement.

Golden Gate Chapter would like to welcome the following new member.

---

**NEW MEMBERS**

**MEMBERS:**
- Matthew Alvarez PE
- Felix Gonzalez
- Cameron F. Tuttle PE
- Arash Guity
- Yee Fung Cheung Lasso

**STUDENTS:**
- Leonardo Cardoso Salvador Eng
- Leonardo E. Jefferson III
- Andre T. Jang

**ASSOCIATES:**
- Nicole S. Parnala
- Brandon Palompo
- Jeff Kasle
- Minseok Kim
- Louis Pak
- Jessica Sterrett
- Madeline M. Faase
- Zi Zeng
What is the Resource Promotion Campaign?

The RP Campaign is an annual fundraising campaign benefiting the funding of numerous ASHRAE Programs. These programs include:

- ASHRAE Research
- ASHRAE Scholarships for undergraduate students
- ASHRAE Learning Institute (ALI) development of new courses & materials
- Graduate Research Projects (Grants-in-Aid)
- Young Engineers in ASHRAE (YEA) Leadership Training
- Permanently endowed support to all of the above programs

The RP Campaign is overseen by the RP Committee, a standing ASHRAE Committee. The committee is made up of 14 Regional Vice Chairs (RVC), 1 Consultant (past RVC), 3 Vice Chairs (past Consultant), and Chair (past Vice Chair). Staff support includes a 3-member team based at ASHRAE Headquarters. The RP Campaign raises over $2.2 million a year from over 6,000 donors. These donors are made up of ASHRAE Members, industry associations, and industry organizations.

DONORS IN 2020-2021:

ORGANIZATIONS
Up to $249

ORGANIZATIONS
Up to $999
Taylor Engineering ($1,000)

INDIVIDUALS
Up to $249
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Jame Lutz
Cory Palmer
Lori Arakawa
Steve Dobberstein
Moana Reynau
Brian Chacon
Juliana Velez
Alyse Falconer

INDIVIDUALS
Up to $999
James MacDonald
Glenn Friedman ($1,000)

YOUR NAME WILL BE LISTED HERE
Your contribution are much appreciated. Thank you for making a difference and shaping tomorrow’s built environment today.

Donations are tax deductible, by check, credit card or online at www.ashrae.org/contribute
Mail Checks to: ASHRAE RP: 1791 Tullie Circle, NE: Atlanta, GA 30329
For more information, please visit Research and Promotions section on www.ggashrae.org or contact RP Chair Brian Chacon at bchacon@ascenthvac.com

GOAL: $24,975
TOTAL TO DATE: $3,400
Register Today for BTO’s Peer PReview

The Department of Energy’s Building Technologies Office (BTO) is hosting its 2020 Peer PReview Monday, November 16 through Wednesday, November 18, 2020. The 3-day event allows DOE leadership to exchange ideas with researchers and practitioners. To view the full schedule and register for the event, click here (https://www.energy.gov/eere/buildings/building-technologies-office-2020-peer-preview).

DOE Announces $65 million for the Connected Communities Program

The U.S. Department of Energy (DOE) announced that it will provide $65 million through its Connected Communities program to support the evaluation of how energy-efficient buildings interact with one another and the grid, in order to provide greater degrees of demand flexibility. For more information, please review the funding opportunity announcement (FOA) (DE-FOA-0002206). The concept caper submission deadline is February 17, 2021 and the full application submission deadline is March 3, 2021.

STATE AND LOCAL GOVERNMENT AFFAIRS

New Report Analyzes Progress Made Towards U.S. Cities’ Climate Goals. SF ranks second best behind LA for largest percent reduction of GHG inventory

An October 2020 report from Brookings analyzes the progress made to date toward greenhouse gas emissions reductions in the 100 largest cities across the United States. Since 1991, 600 local governments have developed Climate Action Plans. However, only 45 of the 100 most populous U.S. cities have fully formed climate plans with greenhouse gas inventories and reduction targets. These cities include 40 million people, or just 12% of the U.S. population. Of the 45 cities with fully developed climate plans, only 32 have published a greenhouse gas (GHG) inventory since their Climate Action Plan was first implemented, and only 26 of these cities that have published a GHG inventory have seen a decrease in emissions compared to their baselines. The Brookings report can be found here. (https://www.brookings.edu/wp-content/uploads/2020/10/FP_20201022_gdg_pledges_v4.pdf)

OTHER EVENTS AND NEWS

Live ASHRAE Training Now Available Online

Learn from ASHRAE experts via live, instructor-led online training. Check out scheduled courses at www.ashrae.org/online-courses or bring a live online course to your chapter or organization. View the full course list, including CoV-2 mitigation topics at www.ashrae.org/ALI.

Energy Efficiency Training Opportunities in Canada

Efficiency Canada has compiled a database of online training opportunities in energy efficiency, which will be expanding over the course of the summer and into the fall. Now is a great time to plan ahead for what the workforce might look like for next year, and to upgrade or learn new skills in our sector.

You can browse courses, including those from ASHRAE here: (https://ohe.efficiencycanada.org/training/)
REDWOOD EMPIRE ASHRAE President introduction:

Hello Fellow Golden Gate ASHRAE-ers,

My name is Harrison Nichols, and I would like to introduce myself as the 2020-2021 President of the Redwood Empire ASHRAE section. I work as a sales engineer for Pacific Coast Trane out of our Petaluma sales office.

These are unprecedented times, but my goal for the year is to make the most out of the situation. We will be hosting virtual meetings for the foreseeable future, so I hope to see some of you GGASHRAE-ers, especially those of you that either live and/or work in the North Bay, at our meetings!

Sincerely, Harrison Nichols  
REASHRAE President

REASHRAE High School Scholarship Program

The 2020-2021 scholarship program is now open for any high school senior in Marin, Sonoma, or Napa County who is looking to pursue a major in a field relating to the mission of ASHRAE at a 4 year college! If you, or anyone that you know may be interested in this scholarship, please email loganm@petersonmechanical.com for more information.

Save the Date:
REDWOOD EMPIRE GOLF TOURNAMENT
Tentatively set for SPRING 2021!
Howdy folks!

Our Programs calendar is filling up fast – but we are still looking for additional speakers for this ASHRAE year. To align with this year’s goal of 33% women speakers, if you are or know of passionate women engineers in our HVAC&R industry who are doing phenomenal work, we would like to hear! Please drop us an email at either of the below email addresses.

Hope to see you all virtually at the upcoming November Program titled “Measuring Reliability and Resiliency in Microgrids”. November’s meeting is also Research Promotion Night, where ASHRAE Golden Gate celebrates our collective efforts to advance the science of the HVAC&R industry.

If you are interested in joining the Chapter Technology Transfer Committee or have ideas on future programming topics, please reach out to Manalee at Manalee.nabar@wsp.com or Blaine at bconner@aeieng.com.
VIRTUAL SELFIES OF OCTOBER ONLINE MEETING
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SUSTAINABILITY
* See page 7
A big thank you to the following sponsors for supporting publication of the Fog Dispenser.

Sponsorship Rates:
One time rate: $50  |  4-month rate: $125  |  Yearly Rate (9 issues): $400
Contact the Fog Dispenser editor Jeremy Martinez - jmartinez@chhydro.com
THE NOVEMBER MODEL: IES Ltd. have provided technical modeling guidance in 7 critical areas related to the COVID-19 pandemic. The technical article: “Simulating Ventilation Strategies to Reduce Risks of Indoor Infectious Disease Transmission” can be accessed here: https://tinyurl.com/y4th9553.
Thank you to our 2020 Decarbonization Sponsors

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