



September 6th, 2022 Meeting Minutes

Redwood Empire Association of Code Officials
1007-B West College Avenue #326 Santa Rosa, CA 95401

September 6th Meeting was held virtually on Zoom & at San Rafael Community Center

1. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

The meeting was called to order at 12:08 pm. by Eric Seabrook for David Willoughby, which was followed by the pledge of allegiance.

2. SELF INTRODUCTIONS - (Officers, Guests, and Members) list of online attendees was on the screen.

3. APPROVAL OF MINUTES –

A motion to approve the August meeting minutes was made by Doug Hughes and seconded by Eric Seabrook with the membership voting to approve the minutes as posted to the REACO website.

4. OFFICERS REPORTS

President: David Willoughby –

- Discussed the logistics of the meetings for the rest of the year
- Discussed the logistics of the code update classes

Treasurer: Kris Kuntz –

- provided reading of bank statements with totals the totals were verified by David Willoughby

Account transactions summary:

Account statements and summaries were provided for the meeting including deposits, debits and account summaries for detailed information members may contact kkuntz@Healdsburg.gov

Vice President: Matt Keizer –

- No report

Secretary: Rich Angley –

- No Report

Past President: Jay Bradford –

- No report.

LIAISON REPORTS

SCFPO: Devon Gambonini / Brandon Stolp –

- Would like to get more trainings available but does not want to compete with the current code update trainings so will likely wait for those to be complete.

ICC: Susan Dowty –

- The ICC Annual Conference in Louisville, KY is almost here! A few items to note:

- Sept 11th 1 to 2 pm ET: ICC Board of Directors Candidates Forum
 - Sept 11th 3:30 to 4:30 pm ET: Region I meeting
 - Sept 12th 8 to 11 am ET: Annual Business Meeting
 - Sept 13th 8 to 11 am ET: Forum on U.S. Federal Funding Opportunities hosted by the ICC Government Relations Team
 - Sept 14-18: Public Comment Hearings (will be webcast live) Take advantage of the live aspect
 - Check out the ICC Conference App
- Digital premium complete library has commentaries added as well as 525 ASTM standards in viewable PDF format
 - 2022 California Building Standards Code adoption resources are available, including last month's ISPSC adoption webinar recording, slides, and ISPSC Sample Adoption Ordinance.
 - FEMA's 2022 Building Resilient Infrastructure and Communities (BRIC) Program Information is available! This program will provide \$2.295 billion in grants to states, tribes and territories through both competitive process and formula awards for planning and capability and capacity building (C&CB).
 - Please consider joining one of these ICC standard committees. The "Call for Committee" is open
 - Sizing Water Distribution, Drainage and Venting Standard Consensus Committee (IS-SWDDV)
 - Private Sewage Disposal Systems Standard Consensus Committee (IS-PSDS)
 - ASHRAE/ICC Standards Development SPC240 Committee on Greenhouse Gas Emissions Evaluation

CBOAC: Eric Seabrook

- New administration is in the process of deciding when to have the next ABM to best avoid conflict with other organizations and is working on the schedule possibly Pismo beach. Will have date and location finalized in the next couple months.

CALBO: Doug Hughes

- Provided legislative updates attached to the agenda
- October 27th 1pm Brady Gurden CALBO legislative guru is having a webinar, it will be question and answer format. A link will be on REACO's website.
- Education weeks are approaching sign up so you don't miss the closing dates
- CALBO is reconfiguring the code committees and they are going to start tracking updates and amendments and will have input when requested on items.
- Doug questioned Susan on when fixture units may be updated in the plumbing code and we now have low flow fixtures and they rates have not changed.
- David W confirmed with Susan the process of getting digital codes set up for a jurisdiction – Contact Bill Anthony sales specialist with ICC

CEC: Alan Wong / Gagandeep Singh --

- On August 30 Staff held a workshop on creating a website for building decarbonization and electric vehicle charging equipment. See the event webpage for posted materials and to submit a comment; comments are due September 14.
- New 2022 Energy Code resources available on the Online Resource Center:
 - Single-Family What's New Summary

- o Single-Family Mandatory Measures Summary
- o Multifamily What's New Summary
- o Nonresidential What's New Summary
- The 2022 Energy Code, Reference Appendices, and approved Compliance Software are now available on the 2022 Energy Code webpage.
- The California Automated Permit Processing (CalAPP) Program, which provides grants to local jurisdictions for online solar permitting, posted a Notice of Proposed Award (NOPA) list and revised application form on the CalAPP webpage.
- Next business meeting: September 14 (agenda TBD)

IAEI: Doug Hughes / Mike Stone –

- Class is coming up Tuesday September 27th in Petaluma for electrical code updates, only about 120 spots are available so be sure to sign up.
- September 28th there will be a chapter meeting in Milpitas, PG&E will give update on green book and there will be ESS training.
- North western / South Western section meeting is in spoken next week it is a 3 ½ day program.
- You can go to the IAEI website and get a PDF download of the electrical changes for \$10.00

BayREN: Christine Condon –

- Regional Forum: Performance Standards: A Tool to Decarbonize Existing Buildings
Location: Zoom Webinar or In-person:
375 Beale Street, San Francisco CA
Date: Thursday, September 15th, 2022
Time: 9:00 am – 12:00 pm
- Heat Pump Water Heaters for Building Department Staff
Location: Zoom Webinar
Date: Wednesday, September 28, 2022
Time: 9:00 am – 10:30 am
- Accessory Dwelling Units
Date: Wednesday, October 26, 2022
Time: 9:00am – 10:30am
- 2022 BayREN Reach Code Trainings
Reach Codes Newcomers Webinar Series, Session 5 - Implementation
Date: Tuesday, September 27, 2022 Time: 10:00 am – 11:30am
- BayREN can also provide some technical consulting support to jurisdictions working on reach codes
- Energy Code Ace 2022 Title 24, Part 6 Trainings
2022 Title 24, Part 6 Essentials — Single-family Standards: Mechanical Systems
Location: Webinar
Date: Monday, September 12, 2022 & Thursday, August 18, 2022
Time: 9:00 am – 12:00 pm
- 2022 Title 24, Part 6 Essentials — Single-family Standards for Plans Examiners
Location: Webinar
Date: Wednesday, October 5, 2022 & Thursday, October 6, 2022
Time: 8:30 pm – 12:00 pm
- 2022 Title 24, Part 6 Essentials — Single-family Standards for Building Inspectors
Location: Webinar
Date: Wednesday, October 26, 2022 & Thursday, October 27, 2022
Time: 12:30 pm – 4:00 pm
- Performance Standards:
A Tool to Decarbonize Existing Buildings Date: Thursday, September 15, 2022 | 9AM–12PM
Register: <https://BayREN-Q3RegionalForum2022.eventbrite.com>

SMART: Doug Williams –

- Passenger ridership has increased, and they will likely be adding trains in the near future including for special events / games
- The extension is contingent on rulings from the court and federal government once extension starts, they are expecting to have issues with structures in the right of way
- Smart has taken over the freight on the line and is adding new customers and looking forward to a spur line to Windsor.
- If you are aware of a project up against a ROW or in the ROW please let Doug know as soon as possible so they can work on issues

RECSI: Carolyn Glanton –

- Resuming meetings in September 15th, this will be a joint meeting with ASHRAE at Charlies Grill in Windsor. Presentation from Brandon Gill, P.E., Principal at Taylor Engineers who will focus on heat pump technologies

ICC Region 1: Richard Angley –

- Nevada getting ready to adopt WUI and dealing with pushback
- Nevada and Hawaii still very busy with permits
- California's larger jurisdictions noted a slow down in new construction and a shift to remodels.

COMMITTEE REPORTS

Structural Hardening Committee: --

- Currently on hold will likely disband.

Code Adoption committee

- David Willoughby asked for volunteers for a code adoption committee, Charles Lucas and Jay Bradford volunteered if there is any additional interest let David know we need 2 more people.

Education Committee: Eric Seabrook / Kevin Scheumann –

- PROPOSED CODE UPDATE CLASS PLANS FOR ICC EAST BAY, MONTEREY BAY, PENINSULA, IAEI NORCAL, AND REACO CHAPTERS. See the schedule and signup sheets on REACO website. Note that space is limited to approximately 110 people so sign up early. REACO will donate its training voucher to the classes.

Website committee

Website has been updated to current staff and building officials.

CORRESPONDENCE AND ANNOUNCEMENTS:

Dave Willoughby reported:

- ICC Annual Conference: September 11 - 14, 2022. The event will be held at the Kentucky International Convention Center in Louisville, KY.
- CALBO Ed Week San Ramon: September 19 – 22, 2022. The event will be held at the Marriott Hotel 2600 Bishop Dr. San Ramon
- Code Update Class: September 27, 2022. Petaluma Community Center. See REACO website for additional classes and dates

CODE ISSUES:

- Discussed what the threshold is for repairs to structures requiring permits and how it will work with the stand alone WUI code that is projected to be in the 2025 code cycle.

LEGISLATIVE NEWS:

PROGRAM Energy Code Updates: Allen Wong

- Covered significant changes to the 2022 energy code, also will provide a copy of the presentation for distribution to members. Highlight of changes for heat pump baselines, solar and battery storage, ventilation requirements, lighting, multifamily restructuring. There will be links in the supplied presentation that provide additional information.

NEW BUSINESS:

- The code adoption process committee needs 2 more volunteers, contact David Willoughby if you are interested
- There is a video on YouTube on the code adoption process, it is approximately 1 hour long and very informative.
- September 23rd is FPO's northern California meeting, this is a full day event and will be at Petaluma's community center

OLD BUSINESS:

ADJOURNMENT:

- The meeting was adjourned at 2:06 pm by David Willoughby.

The next meeting: Next meeting will be the General Membership Meeting on October 4th, 2022 at Sally Tomatoes.

SEPTEMBER 2022 ICC MONTHLY UPDATE HIGHLIGHTS

I hope everyone is doing well. Please [click here to download your September edition](#) of the ICC Government Relations Monthly Update with some highlights listed below:

- The ICC [Annual Conference](#) in Louisville, KY is almost here! A few items to note:
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 - Sept 14-18: Public Comment Hearings (will be webcast live)
 - Check out the [ICC Conference App](#)
- All your 2022 California Building Standards Code adoption resources are found [here](#), including last month's ISPSC adoption [webinar recording](#), [slides](#), and [ISPSC Sample Adoption Ordinance](#).
- FEMA's 2022 Building Resilient Infrastructure and Communities (BRIC) Program Information is available! This program will provide \$2.295 billion in grants to states, tribes and territories through both competitive process and formula awards for planning and capability and capacity building (C&CB).
 - [Here](#) is where you can find all of the specifics on the BRIC program as it relates to building and fire prevention departments.
 - [Here](#) is where you can find California-specific information on the CALOES website with these important dates:
 - **BRIC Notice of Interest Due Date: September 16, 2022**
 - Subapplication Due Date: December 2, 2022
- Please consider joining one of these ICC standard committees. The "Call for Committee" is open; click [here](#) for more info.
 - Sizing Water Distribution, Drainage and Venting Standard Consensus Committee (IS-SWDDV)
 - Private Sewage Disposal Systems Standard Consensus Committee (IS-PSDS)
 - ASHRAE/ICC Standards Development SPC240 Committee on Greenhouse Gas Emissions Evaluation
- The 2021 Commentary Collection is now available on Digital Codes in Premium Complete subscription as well as Premium Singles; click [here](#) to view the collection. Plus, the 525 ASTM Standards referenced within the 2021 I-Codes have been added to the Premium Complete library in viewable pdf format; read more [here](#).

Please let me know if I can answer any questions or be of assistance.

Thank you,
Susan

SEPTEMBER 2022 ICC MONTHLY UPDATE HIGHLIGHTS

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Will we see you at the International Code Council Annual Conference, Expo, and Hearings (September 11-18)? [Learn more](#)

ICC Government Relations' Monthly Update



September 2022 Follow @ICC_GR on [Twitter](#).

Click [here](#) for ICC Government Relations Staff Regional Maps.

WELCOME TO LOUISVILLE! Forum offers Code Council members opportunity to learn more about recent federal grant programs that help finance and support code activities

With nearly \$1.5 billion now available to support code adoption and implementation, the ICC Government Relations team is putting together a special event at the 2022 ICC Annual Conference: "[Forum on U.S. Federal Funding Opportunities](#)." It will be held 8-11 a.m. Eastern on Tuesday, September 12, in the Kentucky International Convention Center. Panel members are officials of the U.S. Department of Energy, the U.S. Department of Housing and Urban Development, the Federal Emergency Management Agency and the City of Chicago Department of Buildings. It features presentations and small group breakout sessions with federal officials. Panelists will discuss the following programs:

- Infrastructure Investment and Jobs Act (IIJA) Energy Code Implementation Program and Inflation Reduction Act (IRA) Energy Codes Funding
- Building Resilient Infrastructure in Communities (BRIC)
- Hazard Mitigation Grant Program (HMGP)
- Post-Disaster Code Administration and Enforcement Assistance (DRRA sec. 1206)
- Community Development Block Grant – Disaster Recovery (CDBG-DR) and Disaster Mitigation (CDBG-MIT)

Stay on track at the 2022 Annual Conference and Public Comment Hearings with the app!

Attendees to [the ICC Annual Conference and Public Comment Code Hearings](#) in Louisville, Kentucky, can stay connected with all the latest information about the expo, meetings, training sessions and hearings by downloading the conference app. Create a personal schedule, check out speaker information, download conference education materials and more. The app is accessible from smartphones, tablets, laptops and desktops and is available for [Android devices](#) and on the [web](#). The app will be available in the Apple App Store soon. You can find the app quickly in stores by searching for: **iccac22**. And don't forget to share your excitement by using the pre-made posts in the ICC [social media toolkit](#)!

September 9 is deadline to submit questions to candidates at Board of Directors Candidates Forum

The ICC Board of Directors Candidates Forum will be held 1-2 p.m. Eastern on Sunday, September 11, in Room M100/103 of the Kentucky International Convention Center. As part of this forum, Code Council members can submit questions to the 2022 candidates seeking positions on the ICC Board of Directors. These questions will be selected at random and read to at-large and sectional seat candidates by the chair of the Nominating Committee. To submit a question, email [Will Coffman](#) no later than 5 p.m. Eastern on Friday, September 9. [Read more here](#).

Group B Public Comment Hearings schedule in Louisville and the complete monograph are available

The 2022 Group B Public Comment Hearings will be held Sept. 14–18, 2022, at the Kentucky International Convention Center during the International Code Council Annual Conference in Louisville, Kentucky. The Public Comment Hearing schedule — with start and end times, schedule notes and list of International Codes — is [now available by clicking here](#). The 2022 Group B Public Comment Agenda (the complete monograph) for consideration at the Public Comment Hearings is available online. This monograph addresses hearings on public comments on proposed code changes to the administrative provisions, International Building Code (structural), International Existing Building Code, and International Residential Code (building). [Read more here](#).

Inflation Reduction Act boosts jurisdictions' energy code updates and green construction materials

Building upon last year's [Infrastructure Investment and Jobs Act](#), the recently signed Inflation Reduction Act provides \$1 billion to support jurisdictions seeking to adopt, update and improve the implementation of current energy codes. The International Code Council worked with policymakers to support the provided resources. These resources will help communities:

- Update their energy codes
- Support the development, verification, and use of low-carbon construction materials
- Encourage energy-efficient retrofits and distributed energy generation, including solar thermal and small-scale wind

More specifically, the new legislation provides resources to support communities seeking to update their building energy requirements to codes and standards adoptions that meet or exceed the [2021 International Energy Conservation Code \(IECC\)](#) and [2021 IECC's net zero appendices](#). The bill makes further historic investments in sustainable construction, including \$350 million through the U.S. Environmental Protection Agency for work toward enhanced standardization for low-embodied carbon construction materials through [environmental product declarations](#), as well as assistance for the manufacturing industry to more widely use and validate EPDs. [Read more here](#).

APPLICATION PERIOD OPENS SEPTEMBER 30: Newest BRIC funding level more than doubles last year's

Now in its third year, the Federal Emergency Management Agency's (FEMA) Building Resilient Infrastructure and Communities (BRIC) program continues to grow exponentially, and it's set to award \$2.295 billion for pre-disaster mitigation grants. That's more than double the FY2021 funding level. \$122 million in direct funding is allocated to states and territories (\$2 million per state/territory), with \$50 million set aside for tribal governments. A total of \$2.133 billion is available in competitive grants. The non-federal cost share is generally 25 percent (10 percent for small/impooverished communities). FEMA has identified increasing "funding to applicants that facilitate the adoption and enforcement of the latest published editions of building codes" as one of the three priorities for the program this year. BRIC funds the adoption and implementation of resilient codes and jurisdictions that implementing resilient codes are more competitive for BRIC project funding. The application period opens September 30 and closes January 27, 2023, but most jurisdictions have earlier internal deadlines. [Read more here](#), from the ICC Government Relations' webpage on the BRIC program.

FEMA offers free download to help jurisdiction officials with grants and latest editions of model codes

The Federal Emergency Management Agency (FEMA) recently released the **Building Codes Adoption Playbook for Authorities Having Jurisdiction**, which is intended for officials interested in increasing community resilience and reducing loss from natural hazards by adopting the latest editions of model building codes. It equips officials with background and language to help educate decision-makers and constituents on the benefits of adopting and enforcing the latest building code editions. In addition, it provides general steps to help navigate the code adoption process and describes the FEMA grants available to support building code adoption and enforcement activities. The Code Council collaborated with FEMA to develop and review the content in the playbook. [Read more here](#).

ICC Membership Drive Incentive Program campaign enters its second month. Are you earning points?

Your role in the Membership Drive Incentive Program will build a stronger, more resourceful Code Council while arming the next generation of building safety professionals with the tools they need to advance our industry. Remember, for every new Code Council member you recruit, you'll earn \$25 in savings on future expenditures at the [ICC Store](#). There is no limit on how many points you can earn and the savings you can sock away. Here's how it works when you've found a new recruit:

- Go to your [myICC account and login](#). After the login, there will be a pop-up that displays the following: **I want to be part of the Membership Drive Incentive Program.**
- You will be given a unique URL to share with your friends. The URL contains a membership application that can be completed by your referral. This unique URL will allow us to know that the new member came from you. Once the referral is officially a member, you will be rewarded 25 points (equal to \$25) to use toward Code Council product purchases from the [ICC Store](#).

This campaign ends December 31. How many new ICC members can you meet and recruit in the next four months? [Read more here](#).

Code Council Board of Directors appoints new Ad Hoc Committee on Diversity, Equity and Inclusion

The International Code Council Board of Directors announced the committee members of the newly established [Ad Hoc Committee on Diversity, Equity and Inclusion \(DEI\)](#). The goal of this committee is to increase DEI in the membership association while helping Code Council members diversify their own

organizations and, ultimately, the building safety profession overall. [View the list of committee appointees](#) and learn more about the committee [here](#). The committee will also support the Code Council's [Safety 2.0](#) program, by encouraging individuals representing a wide range of perspectives and backgrounds to consider careers in building safety. [Read more here](#).

ICC members sought to volunteer for the Code Council's many Exam Development Committees

Those interested in working with industry peers to contribute to the development and maintenance of [ICC National Certification exams](#) are [urged to apply for any](#) of the Code Council's various Exam Development Committee (EDC). [The application deadline is October 31](#). There are openings beginning January 1, 2023, on the following [Exam Development Committees](#) (EDCs) topic areas: Accessibility; Certified Building Official/ Certified Fire Marshal (CBO/CFM); Commercial Building; Electrical; Fire Services; International Green Construction Code; Mechanical; Permit Technician; Plumbing/Fuel Gas; Property Maintenance and Housing/Zoning; Residential Building; Special Inspector - Reinforced/Prestressed Concrete; Special Inspector – Soils; Special Inspector - Structural Masonry; Special Inspector - Structural Steel & Welding; Sustainability. Got questions about the duties and responsibilities? Call 888-422-7233, ext. 5524, or email acommittees@iccsafe.org.

International Code Council and ASHRAE to co-sponsor a building whole life carbon approach standard

The International Code Council and ASHRAE announced the joint development of a standard to assess carbon emissions across the entire building life cycle. Proposed ASHRAE/ICC Standard 240P - *Evaluating Greenhouse Gas (GHG) and Carbon Emissions in Building Design, Construction and Operation*, will provide a whole life carbon approach to support emissions reductions in buildings. The proposed standard establishes how to measure and verify the greenhouse gas (GHG) and carbon emissions of a building, or group of buildings, over the entire life cycle. The goal is to provide consistent procedures and data to be referenced by policies, codes, and other standards that address new and existing building performance. [Read more here](#).

United States Magistrate Judge recommends finding IAPMO liable for copyright infringement

United States Magistrate Judge Zia Faruqui has issued a report recommending that the U.S. District Court for the District of Columbia find that the International Association of Plumbing and Mechanical Officials, Inc., and IAPMO Evaluation Service, LLC (IAPMO-ES) (collectively IAPMO) infringed the copyrights for 26 ICC Evaluation Service (ICC-ES) evaluation reports and acceptance criteria. The magistrate judge overwhelmingly agreed with ICC-ES's arguments, finding, among other things, that:

- ICC-ES owns valid and protectable copyrights in the evaluation reports and acceptance criteria;
- IAPMO infringed ICC-ES's copyrighted works through reproduction and distribution of the copyrighted works on IAPMO's internal systems; and
- ICC-ES is entitled to a permanent injunction prohibiting IAPMO and their employees and agents from any infringement of ICC-ES's current and future copyrighted works.

The report is an important development in ICC-ES's litigation against IAPMO, but it is not a final decision and will be reviewed by a District Court Judge who will issue a separate decision. [Read more here](#).

SkillsUSA's 2022 National Leadership & Skills Conference spotlights career and technical ed students

Career and technical education students from around the nation traveled to Atlanta, Georgia, to compete in the annual SkillsUSA National Leadership and Skills Conference (NLSC). The conference was held this summer to showcase over 6,500 state contest-winning students as they competed in 107 different trade, technical and leadership fields. Competing students worked against the clock and one another to prove their expertise in several skilled service occupations. The competitions were run with the help of industry, trade associations and labor organizations and the contests are based on industry standards. Joel Rodriguez, board member of the [Building Officials Association of Georgia \(BOAG\)](#), was contacted to help judge the SkillsUSA national championship for HVAC students. [Read more here](#).

Automatic doors offer convenience, improve access, energy savings and improved hygiene control

Automatic doors offer convenience, but also have additional benefits. Kimberly Paarlberg, senior staff architect with the International Code Council, focuses on revisions to the automatic door opener

requirements in the 2021 and 2024 International Building Code and the referenced accessibility standard, 2017 ICC A117.1 Standard for Accessible and Usable Buildings and Facilities. [Read more here.](#)

GOT PULSE? Living with Fire: How America's Wildland-Urban Interface fires impact everyone

Episode 47: Through a series of interviews with Code Council experts and U.S. fire service professionals, this quarter's episode explores wildfires in the Wildland-Urban Interface, or in short, the WUI. When it comes to wildfire, do you know your risk? And how can we prepare our communities to become more fire-adapted? [Just listen here.](#) And make sure your colleagues listen to it, too.

ICC Region I Radio features Virginia's Cindy Davis, current President of the ICC Board of Directors

In the latest episode of ICC Region I Radio, Cindy Davis, deputy director of the Virginia Division of Building and Fire Regulations and president of the International Code Council Board of Directors, discusses her background, building relationships, ICC Global Initiatives, the many programs that the Code Council offers code professionals, and the code development process for Virginia. [Listen in](#)



[ICC Plumbing, Mechanical and Fuel Gas updates](#)

“Preparing Our Buildings and Communities for Water Reuse in the 21st Century” set for September 11

Join the Code Council's PMG and Government Relations Teams for “Preparing Our Buildings and Communities for Water Reuse in the 21st Century,” a hybrid live meeting and webinar **Sunday, September 11.** For those in Louisville, the live presentation and webinar will begin at 2 p.m. Eastern in Rooms 007/008 of the Kentucky International Convention Center. Potable water from a public drinking water treatment plant is required to meet Safe Drinking Water Act standards. But, to date, no national regulations exist for onsite non-potable water systems for reuse treatment, storage, and delivery. The Code Council, in partnership with The National Blue Ribbon Commission for Onsite Non-potable Water Systems (NBRC), is establishing a Water Reuse Working Group to explore opportunities to protect public health and better support jurisdictions seeking to advance water reuse opportunities. This diverse working group will research all aspects of onsite water reuse, develop a roadmap, and propose needed resources, including recommended updates to the I-Codes necessary to meet jurisdictions' water reuse goals. Join ICC and industry Stakeholders for this inaugural meeting taking place in a hybrid platform. [For virtual attendance register here.](#)

Cross-Connection Control: A Critical Line of Defense Against Potable Water Contamination

Most of us can go to a faucet, water bottle filler or drinking fountain and get a sip of potable water. This is largely due to the fact that cross-connection control is an inherent plumbing design and installation component. Cross-connection control consists of various methods, assemblies and devices, that when installed and maintained properly, safeguard our potable water. When these controls fail, however, the results can be catastrophic. Rich Anderson, Director, ICC PMG Technical Resources, takes on the issues around cross connection control. [Read more here.](#)

2024 International Codes integrate lower emission refrigerants to meet federal HFC phase down

A broad coalition of industry, environmental, governmental and code development organizations encourage early adoption by states and localities of the 2024 [International Building Code](#), [International Fire Code](#) and [International Mechanical Code](#), which now permit the use of A2L refrigerants. The recently approved code changes allow commercial and residential use of A2L refrigerants to replace high global warming potential (GWP) hydrofluorocarbon (HFC) refrigerants. [Read more here.](#)

Calls for Committee Members encourages participation in two committees on ANSI/ICC standards

Code Council members should consider two upcoming calls for committee members. The committees will develop two new ANSI/ICC standards that, once published, will be groundbreaking for the industry:

- **The Sizing Water Distribution, Drainage and Venting Standard Consensus Committee** (IS-SWDDV) will be responsible for developing ICC 815-202X (Standard for Sizing Water Distribution, Sanitary Drainage and Vent Piping Systems). This new international standard will take a holistic worldwide approach to sizing water distribution, sanitary drainage, and vent piping systems for

residential, mixed-use, and institutional occupancies that utilizes a sizing method that has no basis on Hunter's Method and accounts for post-COVID-19 usage patterns.

- **The Private Sewage Disposal Systems Standard Consensus Committee (IS-PSDS)** will be responsible for developing ICC 825-202X (Private Sewage Disposal Systems). This new international standard will provide minimum requirements for designing, constructing, operating, and maintaining private sewage disposals systems based on newer technologies and methods, and most importantly, the impacts of climate change.

If interested, please click [here](#) and fill out the application(s). The deadline is **September 30**.

Significant changes to the length of hot water piping to fixtures were made in the 2021 IRC

An addition to Section P2905.3 (Length of Hot Water Piping to Fixtures) of the 2021 International Residential Code states that the code now limits the length of hot water piping serving fixtures. The new section limits the hot water supply line length to 100 feet measured from the source of hot water to the fixtures that require hot water. This provision is similar to existing language in International Plumbing Code (IPC) Section 607.2, except the IPC limits the length to not greater than 50 feet. Hot water supply lines greater than 100 feet waste water (proportional to pipe size) while occupants wait for hot water to reach fixtures for bathing, washing and culinary purposes. [Read more here](#).



ICC Evaluation Services updates

New IRC Equivalency Evaluation Report program streamlines building permit process

ICC-ES PMG, the premier product certification program for Plumbing, Mechanical and Fuel Gas (PMG) products, is now accredited by the Joint Accreditation System of Australia and New Zealand (JAS-ANZ) to certify plumbing and drainage products in accordance with the WaterMark scheme, for use under the Plumbing Code of Australia. The WaterMark Certification Scheme, managed and administered by the Australian Building Codes Board (ABCB), is mandatory for plumbing and drainage products to ensure they are fit for purpose and appropriately authorized for use in plumbing and drainage installations. ICC-ES report holders benefit from bundling certifications for multiple geographies while maintaining the same quality service provider. [Read more here](#).

Structural steel connection systems obtains ICC-ES reports for use in all Seismic Design Categories

Lindapter Girder Clamps and Hollo-Bolts are the world's first structural steel connection systems to obtain an ICC-ES report for evaluation to the International Building Code® (IBC) for use with all Seismic Design Categories. Whether you are designing steel connections for structures in high wind or high seismic areas, for buildings classified as Occupancy Category IV, or for projects where you want to avoid welding or drilling holes in the field, Lindapter offers faster, safer, and more cost-effective alternatives to traditional welding and bolting. Go to [ESR-3976](#) for Girder Clamps or go to [ESR-3330](#) for Hollo-Bolt.



Efficiency Division Updates

CALIFORNIA ENERGY COMMISSION

REACO ICC Monthly Meeting

September 2022

Updates

- On August 30 Staff held a workshop on creating a website for building decarbonization and electric vehicle charging equipment. See the [event webpage](#) for posted materials and to submit a comment; comments are due September 14.
- New 2022 Energy Code resources available on the [Online Resource Center](#):
 - [Single-Family What's New Summary](#)
 - [Single-Family Mandatory Measures Summary](#)
 - [Multifamily What's New Summary](#)
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- The [2022 Energy Code](#), Reference Appendices, and approved Compliance Software are now available on the [2022 Energy Code webpage](#).
- The California Automated Permit Processing (CalAPP) Program, which provides grants to local jurisdictions for online solar permitting, posted a Notice of Proposed Award (NOPA) list and revised application form on the [CalAPP webpage](#).
- [Business meeting agendas and recordings](#).
 - August 10: Local ordinances approved for City of Santa Clara and County of Santa Clara.
 - Next business meeting: September 14 (agenda TBD)

Energy Code Training and Events

- [Energy Commission training and events](#)
 - September 1 & 2: Sigler 2022 Nonresidential HVAC trainings
 - September 6: REACO 2022 Energy Code Overview training
 - September 14: Trane 2022 Nonresidential training
 - September 19 – 22: CALBO Education Week: Training and exhibit booth
- [Energy Code Ace training – new 2022 materials](#)
- [BayREN training](#)
 - September 15: [Performance Standards: A Tool to Decarbonize Existing Buildings](#)
 - September 22: [Heat Pump Water Heaters for Contractors](#)
 - September 28: [Heat Pump Water Heaters for Building Department Staff](#)
- [3C-REN training - new 2022 materials](#)
 - September 13: [Heat Pump Fundamentals: Space Conditioning and Water Heating](#)
 - September 27: [Home Remodeling – Fire Resiliency & Electrification](#)

- October 4: **Water Heating Distribution Best Practices**
- **PG&E training**
- **Local Energy Code resources - new 2022 materials**

Energy Code Resources

- **Online Resource Center**
- Energy Standards Hotline: **email** or call 800-772-3300.
- **2022 Energy Code Compliance Software**
- **2025 Energy Code**

To receive regular updates, sign up and respond to the confirmation email:

- **Blueprint Newsletter email list**
- **Building Standards email list**
- **Appliance Standards email list**

2022 BayREN Energy Code Trainings & Events

<https://www.bayrencodes.org/events/>

Regional Forum: Performance Standards: A Tool to Decarbonize Existing Buildings

Location: Zoom Webinar or In-person:

375 Beale Street, San Francisco CA

Date: Thursday, September 15th, 2022

Time: 9:00 am – 12:00 pm

Description: Join BayREN Codes & Standards September 15th, either in person at 375 Beale Street in San Francisco or online via Zoom, to learn about the promise and challenges of Building Performance Standards (BPS). State and local governments have ambitious goals for reducing carbon emissions, and this emerging policy tool requires existing buildings to reduce energy use or greenhouse gas emissions. The concept is simple and powerful, but complex to design and implement. A handful of governments from Washington State to Washington, D.C. have adopted BPS, and in 2022 a national coalition of 36 local and state governments committed to developing performance standards in collaboration with stakeholders, particularly frontline communities, to address health, climate and energy needs. Speakers will share the state of BPS today, supporting resources, and the realities of translating policy into energy and greenhouse gas savings. This event is free and open to all.

[Webinar Registration Link](#)

Heat Pump Water Heaters for Building Department Staff

Location: Zoom Webinar

Date: Wednesday, September 28, 2022

Time: 9:00 am – 10:30 am

Description: Heat pump water heaters (HPWHs) are an increasingly popular technology that are a highly efficient means of providing hot water to houses. This training will describe HPWHs, code requirements for HPWHs, resources for permitting and compliance, and best practices for enforcement.

Target Audience: Building Department Staff, Permit technicians, plan checkers, field inspectors

ICC CEUs: 0.1

[Webinar Registration Link](#)

Accessory Dwelling Units

Date: Wednesday, October 26, 2022

Time: 9:00am – 10:30am

Description: This course covers the Prescriptive requirements that apply to new ADU, and discusses both minimum requirements and design options for compliance. The major changes coming in the 2022 Energy Code (effective 1/1/2023) that effect ADUs will also be reviewed. The webinar helps:

- Designers and architects understand how different ADU types are subject to envelope, Photovoltaic (PV)/Battery, domestic hot water (DHW), ventilation, HVAC and HERS requirements of the Energy Code
- Energy consultants clarify the minimum requirements and communicate the compliance options available for ADU
- Contractors recognize that ADU type and CF1R Certificate of Compliance affect envelope, PV/Battery, DHW, ventilation, HVAC and HERS features
- Building departments know what to look for during plan check and inspection, and how to ensure the ADU permitting and construction process goes smoothly
- HERS Raters be aware that HERS measures are more likely with an ADU project

Target Audience: Building Department Staff, Contractors, and Building Professionals

ICC CEUs: 0.1

Training developed and offered in partnership with [Energy Code Ace](#).

[Webinar Registration Link](#)

2022 BayREN Reach Code Trainings

Reach Codes Newcomers Webinar Series

This webinar series helps local government staff who are reach code newcomers (and anyone who wants to learn more about reach codes) gain a greater understanding of the options, resources and timeframes involved. Sessions are timed for jurisdiction staff who are exploring reach code adoption in alignment with the new statewide 2022 Building Energy Code, effective January 1, 2023. Past webinars have been recorded and materials and webinars available for registrants to view.

Session 5 - Implementation

Date: Tuesday, September 27, 2022

Time: 10:00 am – 11:30am

Description: Monitoring reach code implementation, checklists and training, examples from specific jurisdictions, and more.

Webinar Registration Link

Reach Code Webinar series provided through a collaborative effort by the [Statewide Reach Codes Program](#), [BayREN](#), [Building Decarbonization Coalition](#), and the [California Climate and Energy Collaborative \(CCEC\)](#).

2022 BayREN Reach Code Resources

Existing Building Approaches

<https://www.bayrencodes.org/services-resources/energy-policies-and-reach-codes/existing-building-approaches/>

Many Bay Area cities and counties are looking at ways to address the energy use and greenhouse gas emissions from existing buildings. This webpage is intended as a resource to help jurisdictions find out about and assess different approaches. Resources will be added as they are developed.

BayREN Reach Codes & Policies Technical Support & Resources

<https://www.bayrencodes.org/reachcodes/>

- [Why Adopt a Reach Code?](#)
- [What Local Governments Need to Know about Energy Efficiency Reach Codes](#)
- [Legal Requirements for Reach Codes](#)
- [Process & Timeline for Reach Code Development and Adoption](#)
- [Types of Reach Codes](#)
- [Reach Codes for the 2019 California Building Code](#)
- [Adopted Reach Codes](#)
- [Resources](#)

BayREN can also provide some technical consulting support to jurisdictions working on reach codes.

BayREN Live Online Customized Reach Code Trainings

Live Online Webinars

Description: This course will help attendees understand and better enforce adopted reach codes within a specific jurisdiction. The course includes a combination of general practices as well as customized training for the jurisdiction's reach code. Reach Code Trainings are customized to address a city or county-specific Reach Code and are intended for city-specific or county-specific staff.

Target Audience: City-specific plan checkers, field inspectors, building department staff

Duration: Short Course (60-90 min) - Instructors are available remotely and trainings can be scheduled Monday to Friday from 7AM to 7PM.

California Codes & Standards Statewide Reach Codes Program

<https://localenergycodes.com/>

Reach Code Resources and technical support from the Statewide Reach Codes Program including adopted ordinances, cost effectiveness explorer tool and options for different types of Reach Codes.

Contact Christine Condon, Sonoma County BayREN Codes and Standards Program Representative to schedule trainings and for more information about reach code technical support: Christine.Condon@sonoma-county.org or 707-565-2125.

Energy Code Ace 2022 Title 24, Part 6 Trainings

2022 Title 24, Part 6 Essentials — Single-family Standards: Mechanical Systems

Location: Webinar

Date: Monday, September 12, 2022 & Thursday, August 18, 2022

Time: 9:00 am – 12:00 pm

Description: This online workshop allows attendees to weigh mechanical system alternatives for single-family projects based on client goals and preferences, impact on energy efficiency and carbon reduction, and compliance with the California 2022 Energy Code. Work individually and in teams to do a deep dive on single-family residential mechanical systems and features to weigh the pros and cons of alternative approaches and select a recommended approach given the project parameters.

ICC CEUs: 0.3

[Webinar Registration Link](#)

2022 Title 24, Part 6 Essentials — Single-family Standards for Plans Examiners

Location: Webinar

Date: Wednesday, October 5, 2022 & Thursday, October 6, 2022

Time: 8:30 pm – 12:00 pm

Description: This highly interactive online live course is designed to provide plans examiners with the knowledge and skills they need to fulfill their roles associated with California's 2022 Single-family Energy Code. This course focuses on the "top six" categories of high-value energy savings and impact on Energy Code compliance for residential projects and the "essential" Plans Examiner tasks associated with top Energy Code compliance categories. Presentations and hands-on activities illustrate how review strategies shift based on project type (Performance vs. Prescriptive; New Construction vs. Additions vs. Alterations). Practice with the Plans Examiner Checklist demonstrates how it can guide an efficient and effective Energy Code plan check that is appropriate given time available, realities on the job and goals of the Energy Code. This course is delivered in two 3.5-hour sessions over two days. Both sessions need to be attended to complete the course.

Target Audience: Building department staff, building inspectors

ICC CEUs: 0.7

Registration Link Coming 9/14/2022

<https://energycodeace.com/training>

2022 Title 24, Part 6 Essentials — Single-family Standards for Building Inspectors

Location: Webinar

Date: Wednesday, October 26, 2022 & Thursday, October 27, 2022

Time: 12:30 pm – 4:00 pm

Description: This highly interactive online live course is designed to provide building inspectors with the knowledge and skills they need to fulfill their roles associated with California's 2022 Single-family Energy Code. This course focuses on the "top six" categories of high-value energy savings and impact on Energy Code compliance for residential projects and the "essential" Building Inspector tasks associated with top Energy Code compliance categories. Presentations and hands-on activities illustrate how inspection strategies shift based on project type (Performance vs. Prescriptive: New Construction vs. Additions vs. Alterations). Practice with the Single-family Building Inspector Checklist demonstrates how it can guide efficient and effective Energy Code building inspection that is appropriate given time available, realities on the job and goals of the Energy Code. This course is delivered in two 3.5-hour sessions held on two consecutive days. Participants must attend both sessions to complete the course.

Target Audience: Building department staff, building inspectors

ICC CEUs: 0.7

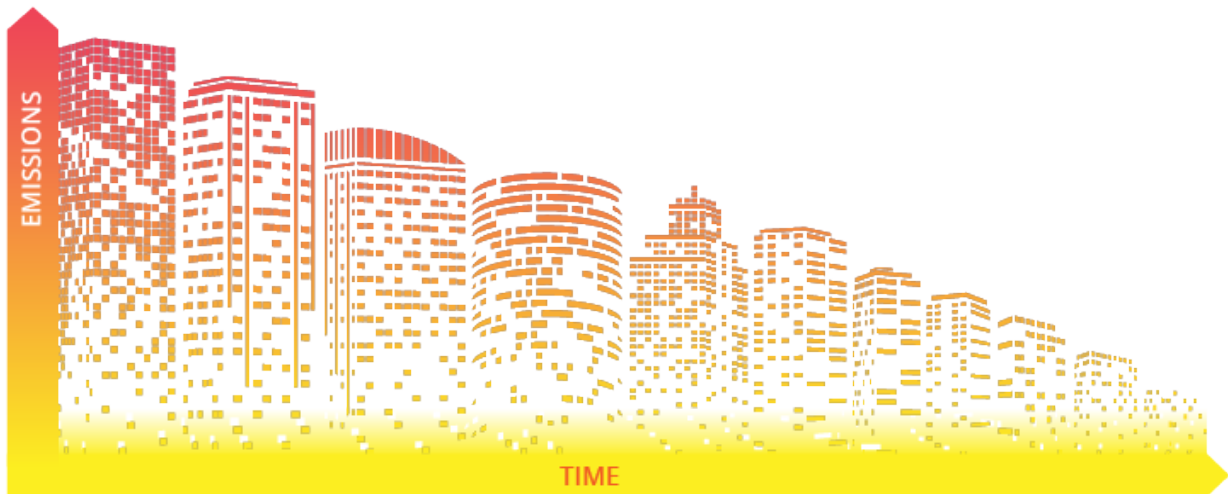
Registration Link Coming 10/5/2022

<https://energycodeace.com/training>



The Bay Area Regional Energy Network (BayREN) Codes & Standards team invites you to register for our upcoming regional forum:

Performance Standards: A Tool to Decarbonize Existing Buildings



Date: Thursday, September 15, 2022 | 9AM–12PM

Register: <https://BayREN-Q3RegionalForum2022.eventbrite.com>

Join us September 15, either in person at 375 Beale Street in San Francisco or online via Zoom, to learn about the promise and challenges of Building Performance Standards (BPS). State and local governments have ambitious goals for reducing carbon emissions, and this emerging policy tool requires existing buildings to reduce energy use or greenhouse gas emissions. The concept is simple and powerful, but complex to design and implement. A handful of governments from Washington State to Washington, D.C. have adopted BPS, and in 2022 a national coalition of 36 local and state governments committed to developing performance standards in collaboration with stakeholders, particularly frontline communities, to address health, climate and energy needs. Speakers will share the state of BPS today, supporting resources, and the realities of translating policy into energy and greenhouse gas savings. This event is free and open to all.

BayREN will be trying out a full hybrid format for this Forum, with some attendees and speakers present in person in San Francisco and some virtual. We are limiting the number of in-person attendees to half of room capacity and ask people who are planning to come in person to stay home if sick, test if appropriate, and consider wearing masks. Thank you in advance for your patience as we will be using new technologies to produce the best experience possible for a hybrid event!

For more information and to register visit: www.bayren.org/events-training

Thursday, September 15th at 5:30pm at Charlie's Grill in Windsor.



CSI
REDWOOD EMPIRE CHAPTER

Thursday September 15th 5:30 p.m.
Charlie's Restaurant
@ Windsor Golf Course

ASHRAE Redwood Empire Section

**Combined Dinner Meeting
with presentation by:**

Brandon Gill, P.E. Principal
Design challenges to the electrification of heating in mid to large buildings

The Redwood Empire Chapters of CSI and ASHRAE would like to invite you to join us for our annual combined dinner meeting! This month we are gathering to enjoy an educational presentation from Brandon Gill, P.E., Principal at Taylor Engineers who will focus on how heat pump technologies can reduce greenhouse gas emissions in commercial buildings and understanding the importance of thermal energy storage and heat recovery in commercial buildings.

Register at <https://www.eventbrite.com/e/recsiashrae-combined-dinner-meeting-tickets-403553959757>

Carolyn Glanton (*she/her/hers*) | **Sonoma Clean Power**

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