Wall Rating Program Committee Update

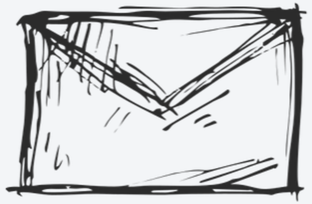
Beth James-Bourgeois

CRRC Program Manager

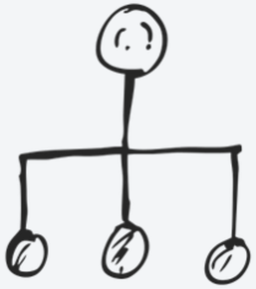
Wall Rating Program Committee

Evaluate
technical issues

Develop program
procedures &
requirements



Guidance on
program marketing



Collaborate with
other committees

Wall Rating Program Committee Roster

Voting Members

Name	Affiliation
Dale McIntyre, ***Chair***	Behr Paint Company
Alex Nicol	Sherwin-Williams
Howard Wiig	Hawaii State Energy Office
Ronnen Levinson	LBNL
Steve Drennan	IIBEC
Tim Hebrink	3M
Jeremy Jones	American Coatings Association
Brandon Bethke	Tempo Chemicals & Solutions
Robert Bennett, ***Vice Chair***	Tex-Cote
Paige Kuplic	Axalta Coating Systems
Wallace Kesler	Dunn-Edwards
Bill Dean	Interested Individual
Rankin Jays	Polyglass USA, Inc.
Jonathan Parfrey	Climate Resolve
Ashley Garrett	ACE Laboratories

Alternate Members

Name	Affiliation
Ginger Shi	Behr Paint Company
David Cocuzzi	National Coil Coating Association
Bahador Ziaeemehr	Concordia University
Ray Fernando	California Polytechnic State University
Neal Johnson	IIBEC
Evan Montanez	Cool Additives Technology
Suzanne Chang	American Coatings Association
Vacant	
Eric Brown	Tex-Cote
Farhan Ansari	Dow
Chris Wessels	Dunn-Edwards
Vacant	
Vacant	
Neetu Jain	Global Cool Green Cities Foundation
Rich Slomko	Atlas Material Testing Technology

CRRC COOL ROOF RATING COUNCIL ®

Committee Liaison Update

- **Committee Liaison**

  Beth James-Bourgeois

- **Committee Support**

  Sarah Schneider

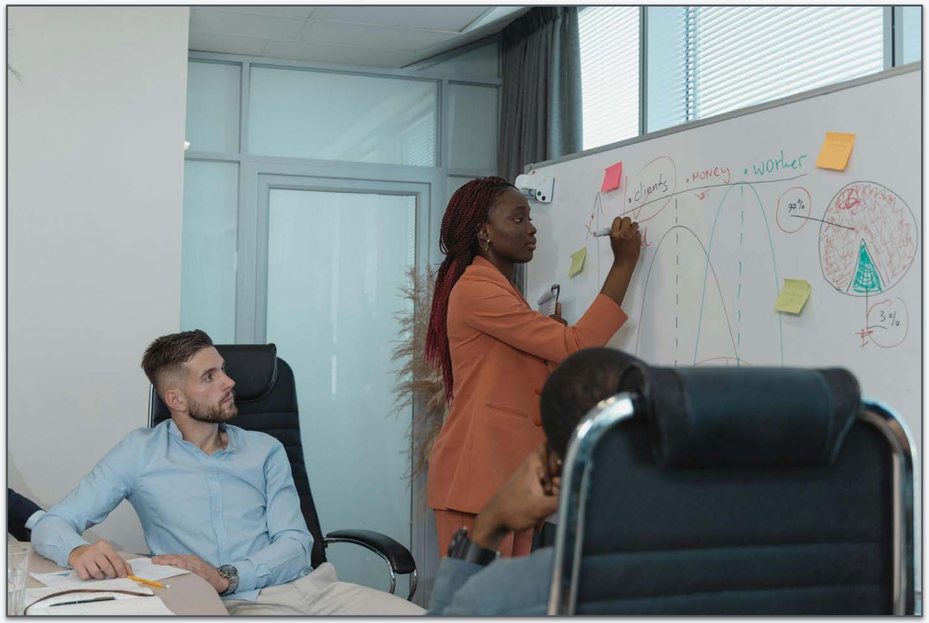
Key Activities Since 2024 Annual Meeting

Recommended various program changes

Implemented WRP Marketing Plan

Marketing Plan Updates

- Internal marketing plan developed
- Outlines tasks for pursuing four strategies
- Reviewed and updated regularly



Progress on WRP Marketing Goals

Goal 1

25 Wall Licensees
by December 2025

Goal 1			
Licensees	**Goal**	**Progress**	**Progress Bar**
13	25	52%	

Goal 2

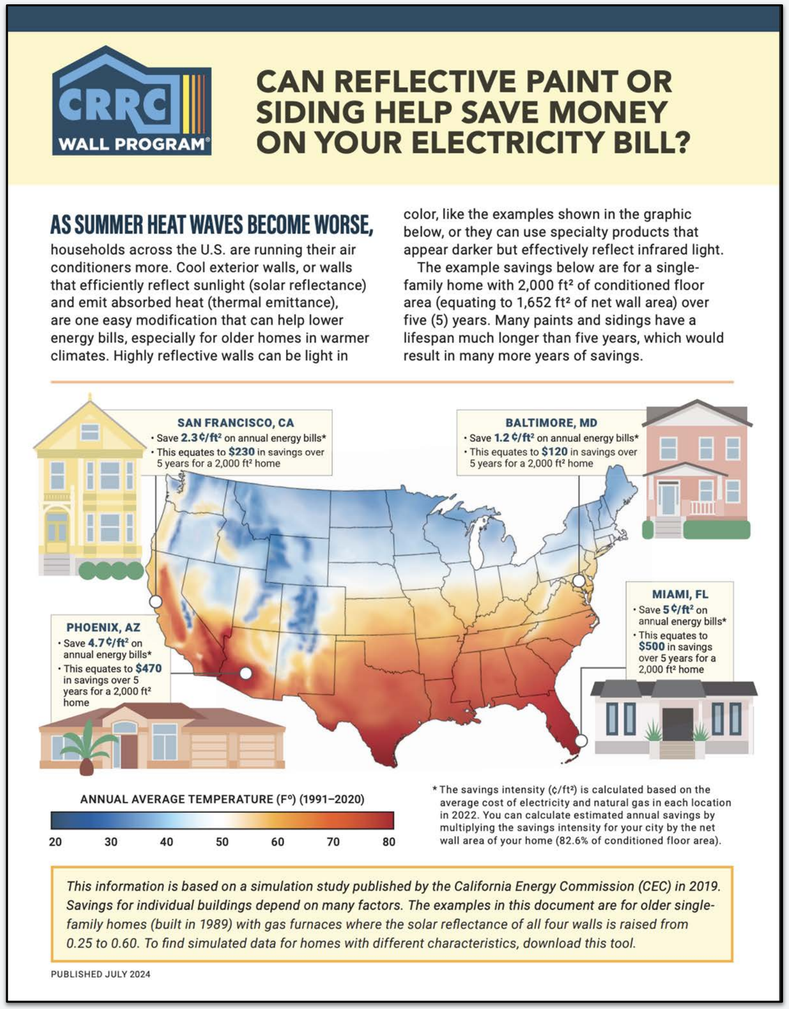
200 Rated Products
by December 2025

Goal 2			
Products	**Goal**	**Progress**	**Progress bar**
150	200	75%	

Progress on WRP Marketing Goals

Goal 3

Create educational document about energy savings



CRRC WALL PROGRAM

CAN REFLECTIVE PAINT OR SIDING HELP SAVE MONEY ON YOUR ELECTRICITY BILL?

AS SUMMER HEAT WAVES BECOME WORSE, households across the U.S. are running their air conditioners more. Cool exterior walls, or walls that efficiently reflect sunlight (solar reflectance) and emit absorbed heat (thermal emittance), are one easy modification that can help lower energy bills, especially for older homes in warmer climates. Highly reflective walls can be light in color, like the examples shown in the graphic below, or they can use specialty products that appear darker but effectively reflect infrared light.

The example savings below are for a single-family home with 2,000 ft² of conditioned floor area (equating to 1,652 ft² of net wall area) over five (5) years. Many paints and sidings have a lifespan much longer than five years, which would result in many more years of savings.

ANNUAL AVERAGE TEMPERATURE (F°) (1991–2020)

20 30 40 50 60 70 80

* The savings intensity (¢/ft²) is calculated based on the average cost of electricity and natural gas in each location in 2022. You can calculate estimated annual savings by multiplying the savings intensity for your city by the net wall area of your home (82.6% of conditioned floor area).

This information is based on a simulation study published by the California Energy Commission (CEC) in 2019. Savings for individual buildings depend on many factors. The examples in this document are for older single-family homes (built in 1989) with gas furnaces where the solar reflectance of all four walls is raised from 0.25 to 0.60. To find simulated data for homes with different characteristics, download this tool.

PUBLISHED JULY 2024

FAQ

Are cool exterior walls only white?
No! The wall colors shown in the graphic on page 1 are just a few examples of shades that can be highly solar reflective. Darker colors that use infrared-reflective pigments can also have high solar reflectance.

Are cool exterior walls expensive?
Many cool products are comparable in cost to traditional products. For example, lighter colors of conventional paints that do not contain infrared-reflective pigments are usually the same price as darker colors. Costs for specialty products that use infrared-reflective pigments will vary.

How do I find the solar reflectance of a wall product?
Visit the CRRC Rated Wall Products Directory for third-party verified solar reflectance and thermal emittance data for wall products.

My location or building type is not listed here. How can I find potential energy cost savings?
Download the Cool Surface Savings Explorer and follow the instructions in Appendix P (*page P-44*) of the CEC report.

Cool colors can be vibrant, too!

Here are some examples of the effect in the visible spectrum of increasing a surface's solar reflectance from 0.25 to 0.60:

25% REFLECTANCE

60% REFLECTANCE

Do cool exterior walls do anything else?
Yes! Cool exterior walls help lower indoor and outdoor temperatures, making homes and cities more heat resilient. If you don't have A/C or experience a power outage, they can help your home stay cooler and safer when it's hot out. They can also help combat the urban heat island effect. Learn more about how cool exterior walls can increase heat resilience here.

CONTACT THE CRRC

To learn more, visit us at **https://coolroofs.org** *or contact* **info@coolroofs.org**.

To get updates directly in your feed, follow the CRRC on **Instagram**, **X**, *or* **LinkedIn**.

CRRC WALL PROGRAM

THE ANNUAL COST SAVINGS INTENSITIES IN THIS DOCUMENT were calculated using data from the **LBNL Cool Surface Savings Explorer (Explorer)** and local electricity and natural gas price data from **https://www.eia.gov**. The data in the Explorer are the results of simulations and calculations performed as part of the CEC-funded project: **Solar-Reflective "Cool" Walls: Benefits, Technologies, and Implementation**. While this document is believed to contain correct information, neither the CRRC, nor any of its employees, makes any warranty, express or implied, or assumes any legal responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.

CRRC COOL ROOF RATING COUNCIL ®

Key Marketing Activities

Strategy 1: Prioritize presentations at national and regional events for architects and design professionals

- Continuously pursuing opportunities
- Recent in-person and virtual presentations to architecture and design community

Key Marketing Activities

Strategy 2: Explore ways to support cool exterior wall demonstration projects

- Participation in U.S. DOE Cool Surfaces Deployment Plan
- Exploring opportunities to support or lead demonstration projects
- Raising awareness of “cool murals”
  - Featured in 2025 Greenbuild session proposal
  - Relationships with cool mural artists
  - Mention in presentations, interviews, etc.

Beat the Heat Mural at Fernangeles Elementary School
Photo Credit: Kristy Sandoval

Key Marketing Activities

Strategy 3: Raise the profile of the CRRC as an informational resource for municipalities with an interest in heat action

- Created slide deck for municipalities and utilities interested in learning about cool exterior walls
- Meet with entities on an individual basis when requested

Key Marketing Activities

Strategy 4: Increase accessibility of existing data/studies about the impacts of cool exterior walls

- Developed guide for using the LBNL Cool Surfaces Savings Explorer to estimate potential energy cost savings for specific buildings and climates
  - Currently housed internally, but may be turned into a public-facing resource in the future
- CRRC Education Committee project to develop CRRC Resources Microsite, which will include an up-to-date database of cool surfaces research
  - Expected launch date January 2026

Key Activities for Late 2025 and 2026

Provide input on Validation Testing Program for rated wall products

Provide input on CRRC-2 Wall Program Manual Digitization Project

Wall Committee Staff Contacts

Beth James-Bourgeois
beth@coolroofs.org

Sarah Schneider
sarah@coolroofs.org

International Committee Update

Kurt Shickman

Committee Vice Chair

International Committee Purpose

To guide the CRRC in developing and implementing strategies and objectives for achieving the CRRC strategic plan goal of being a global leader in cool surface information.

International Committee Scope

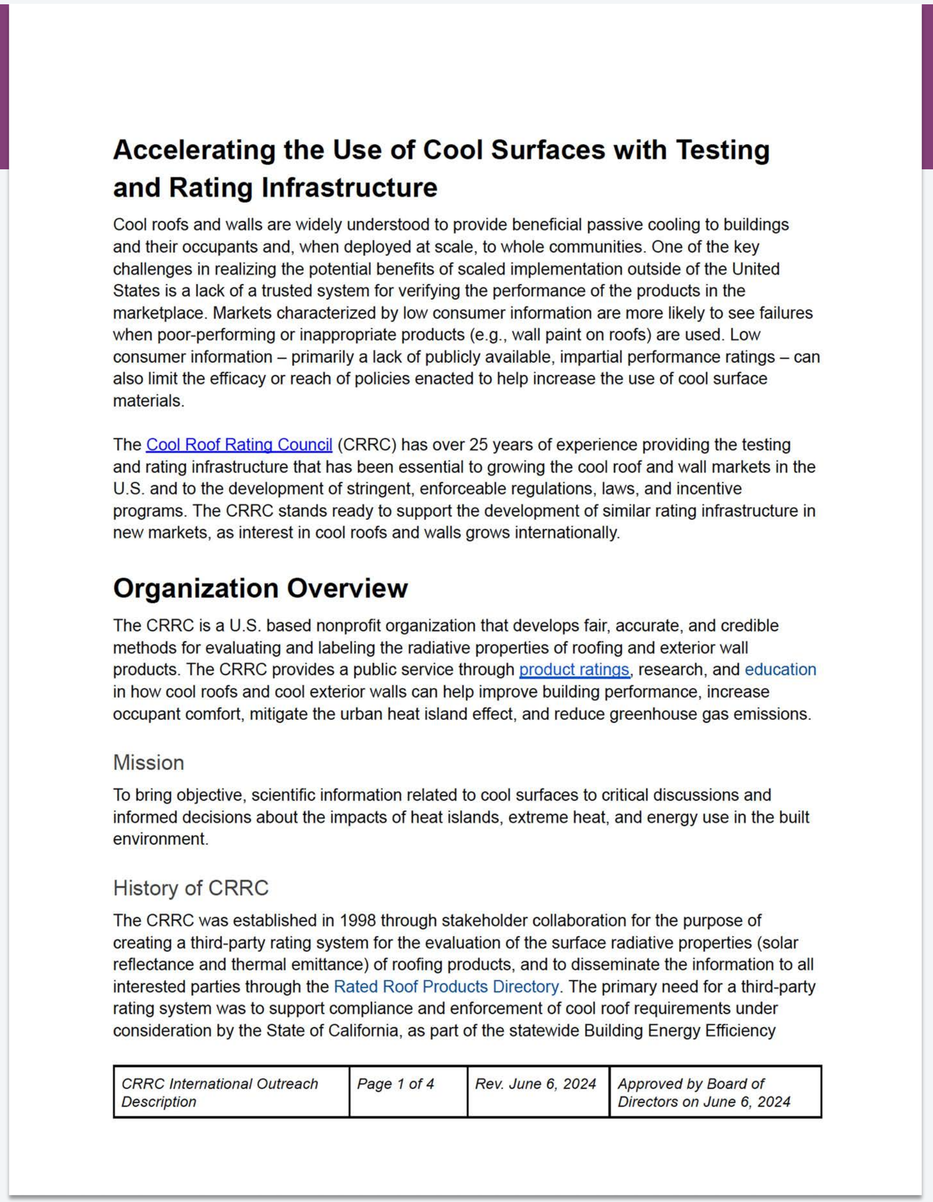
- Identify opportunities for engagement with international entities
- Guide CRRC staff in the implementation of strategic planning objectives and development of outreach strategies

International Committee Roster

Name	Affiliation
Hashem Akbari, ***Chair***	Concordia University
Neetu Jain	Global Cool Green Cities Foundation
Bipin Shah	Winbuild
Kurt Shickman, ***Vice Chair***	Interested Individual

Topics

- Priority regions
- Funding opportunities
- CRRC offerings
  - Technical assistance
  - Lab training
  - Governance advice
- Translation of materials
- C&S implementation
- CRRC member projects



Accelerating the Use of Cool Surfaces with Testing and Rating Infrastructure

Cool roofs and walls are widely understood to provide beneficial passive cooling to buildings and their occupants and, when deployed at scale, to whole communities. One of the key challenges in realizing the potential benefits of scaled implementation outside of the United States is a lack of a trusted system for verifying the performance of the products in the marketplace. Markets characterized by low consumer information are more likely to see failures when poor-performing or inappropriate products (e.g., wall paint on roofs) are used. Low consumer information – primarily a lack of publicly available, impartial performance ratings – can also limit the efficacy or reach of policies enacted to help increase the use of cool surface materials.

The Cool Roof Rating Council (CRRC) has over 25 years of experience providing the testing and rating infrastructure that has been essential to growing the cool roof and wall markets in the U.S. and to the development of stringent, enforceable regulations, laws, and incentive programs. The CRRC stands ready to support the development of similar rating infrastructure in new markets, as interest in cool roofs and walls grows internationally.

Organization Overview

The CRRC is a U.S. based nonprofit organization that develops fair, accurate, and credible methods for evaluating and labeling the radiative properties of roofing and exterior wall products. The CRRC provides a public service through product ratings, research, and education in how cool roofs and cool exterior walls can help improve building performance, increase occupant comfort, mitigate the urban heat island effect, and reduce greenhouse gas emissions.

Mission

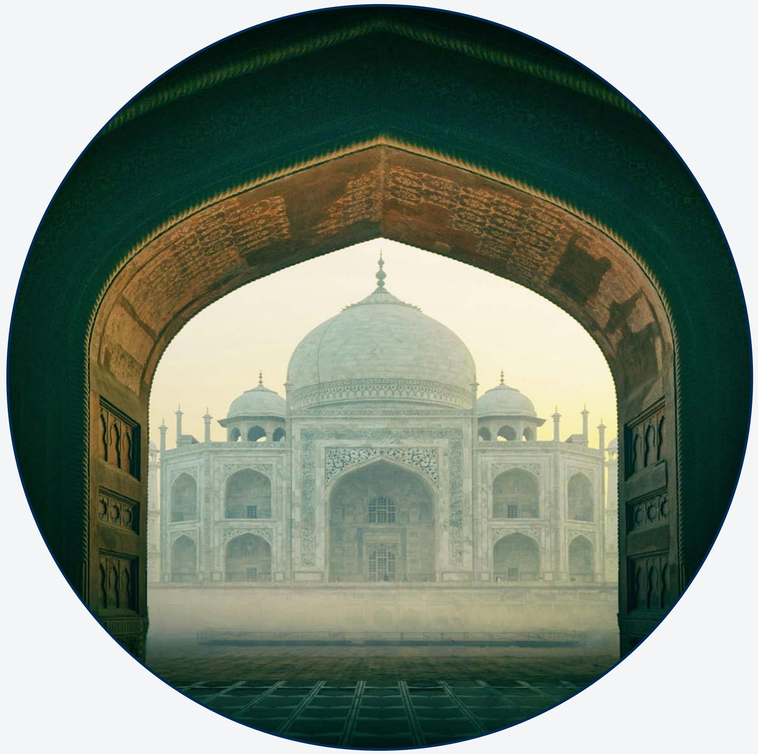
To bring objective, scientific information related to cool surfaces to critical discussions and informed decisions about the impacts of heat islands, extreme heat, and energy use in the built environment.

History of CRRC

The CRRC was established in 1998 through stakeholder collaboration for the purpose of creating a third-party rating system for the evaluation of the surface radiative properties (solar reflectance and thermal emittance) of roofing products, and to disseminate the information to all interested parties through the Rated Roof Products Directory. The primary need for a third-party rating system was to support compliance and enforcement of cool roof requirements under consideration by the State of California, as part of the statewide Building Energy Efficiency

CRRC International Outreach Description	*Page 1 of 4*	*Rev. June 6, 2024*	*Approved by Board of Directors on June 6, 2024*

Priority Regions



India

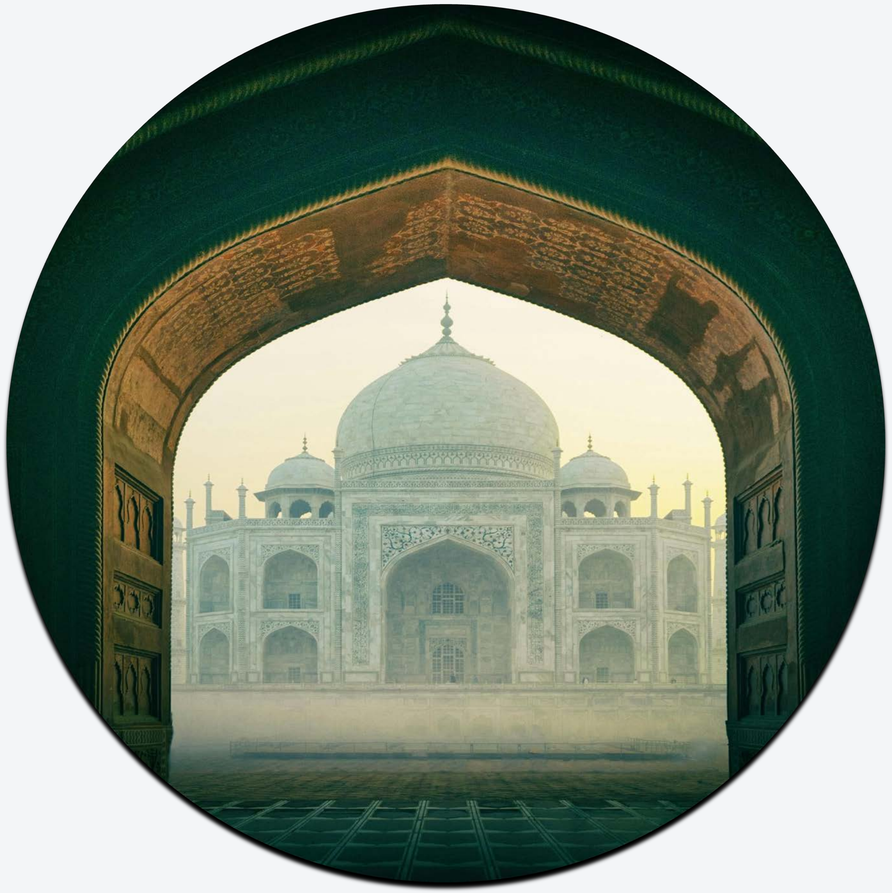
Australia

Argentina
& Paraguay

What makes a priority region?

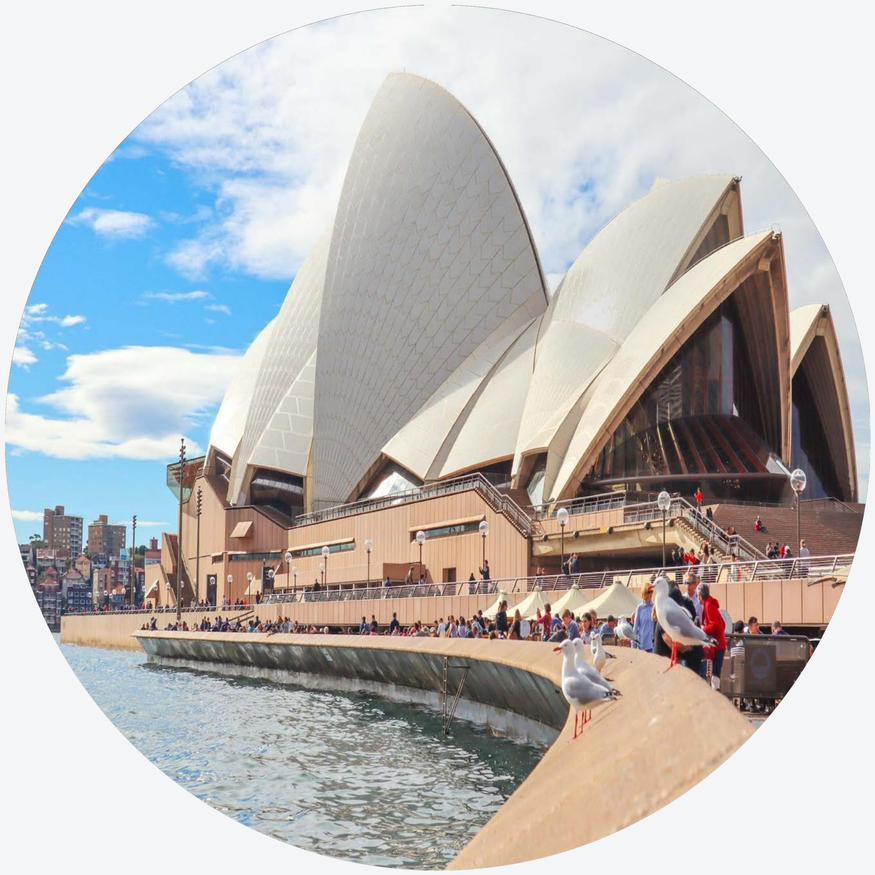
- A climate in which cool roofs would be beneficial for thermal comfort, energy efficiency, and other goals.
- Active industry partners ready to organize peers and lead the way
- Local institutions with subject matter expertise ready to engage.

India



- Continuing to Identify and meet with
  organizations to partner with to provide technical support
- Acknowledgment of CRRC value
- Funding uncertainties
- Kerala cool roof policy
- Heat action planning

Australia



- CRRC contacted by industry with interest in AUS rating system
- National Energy Code with cool roof and wall provisions
- Not as many manufacturers and product diversity as US and EU
- Political uncertainty with upcoming elections
- Developer and industry support will be important

Argentina and Paraguay

- CRRC outreach not yet conducted
- Cool roof projects led by CRRC member, MACOMA Environmental Technologies

Opportunities for CRRC and members

- Grow the number of markets utilizing CRRC test methods and procedures; cool surface products
- Large opportunity for growth (i.e. new revenue streams)
- Beneficial for companies operating in international markets or looking to expand internationally

International Committee Staff Contact

Sarah Schneider
sarah@coolroofs.org

Education Committee Update

Kurt Shickman

Committee Chair

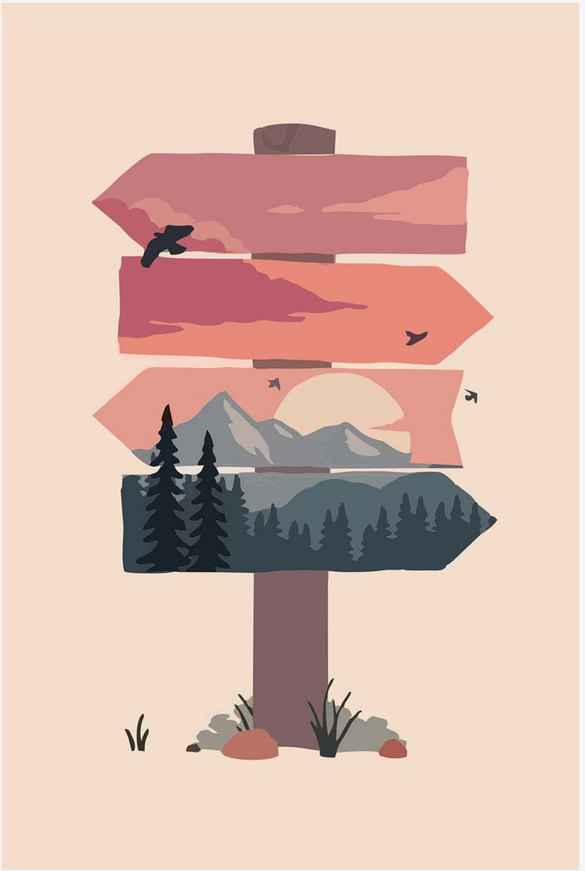
Education Committee Overview

Purpose

Provide guidance on the CRRC's educational activities to improve public awareness and comprehension of cool surfaces

Scope

- Create educational materials
- Identify opportunities
- Collaborate with other CRRC committees



Education Committee Roster

Name	Affiliation
George Daisey	Dow
Sid Dinwiddie	Asphalt Roofing Manufacturers Association
Iona Isachsen	Smart Surfaces Coalition
Neetu Jain ***Vice Chair***	Global Cool Green Cities Foundation
Wallace Kesler	Dunn-Edwards
Frank Klink	Interested Individual
Maria Koetter	Interested Individual
Dale McIntyre	Behr Paint Company

Name	Affiliation
Selena Melgoza	Climate Resolve
Dave Sailor	Interested Individual
Wade Shepherd	Westlake Royal Roofing Solutions
Kurt Shickman ***Chair***	Interested Individual
Shawn Stanley	IB Roof Systems
Amanda Turner	Cornerstone Building Brands
Steve Wadding	Polyglass USA
Howard Wiig	Hawaii State Energy Office

Committee Process

Full Committee approves active project, project scope, and target audience

Working group develops draft content and plans dissemination

Stakeholders from target audience provide feedback on draft content

Full Committee approves content

Board Secretary reviews content

Graphic designer creates final layout and illustrations

Since creation in 2021…

14 Projects completed

7 CRRC Educators authorized

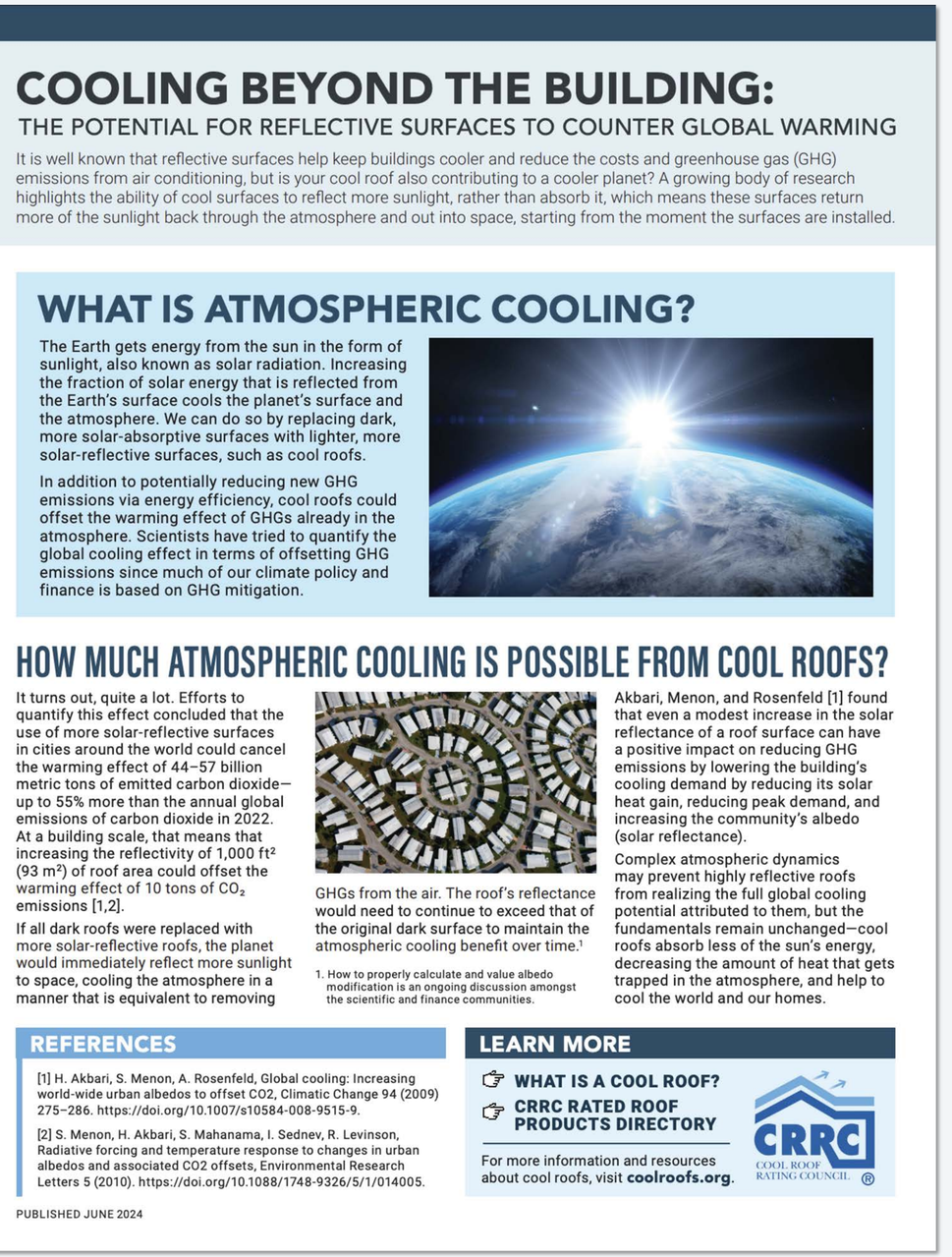
600+ Learners completed AEC Daily Course

2.5K Views of Factsheets & Brochures webpage

Recently Completed

One-pager describing how cool roofs can counter global warming by reflecting sunlight back into space

Find it at coolroofs.org



COOLING BEYOND THE BUILDING:

THE POTENTIAL FOR REFLECTIVE SURFACES TO COUNTER GLOBAL WARMING

It is well known that reflective surfaces help keep buildings cooler and reduce the costs and greenhouse gas (GHG) emissions from air conditioning, but is your cool roof also contributing to a cooler planet? A growing body of research highlights the ability of cool surfaces to reflect more sunlight, rather than absorb it, which means these surfaces return more of the sunlight back through the atmosphere and out into space, starting from the moment the surfaces are installed.

WHAT IS ATMOSPHERIC COOLING?

The Earth gets energy from the sun in the form of sunlight, also known as solar radiation. Increasing the fraction of solar energy that is reflected from the Earth's surface cools the planet's surface and the atmosphere. We can do so by replacing dark, more solar-absorptive surfaces with lighter, more solar-reflective surfaces, such as cool roofs.

In addition to potentially reducing new GHG emissions via energy efficiency, cool roofs could offset the warming effect of GHGs already in the atmosphere. Scientists have tried to quantify the global cooling effect in terms of offsetting GHG emissions since much of our climate policy and finance is based on GHG mitigation.

HOW MUCH ATMOSPHERIC COOLING IS POSSIBLE FROM COOL ROOFS?

It turns out, quite a lot. Efforts to quantify this effect concluded that the use of more solar-reflective surfaces in cities around the world could cancel the warming effect of 44–57 billion metric tons of emitted carbon dioxide—up to 55% more than the annual global emissions of carbon dioxide in 2022. At a building scale, that means that increasing the reflectivity of 1,000 ft² (93 m²) of roof area could offset the warming effect of 10 tons of CO_2 emissions [1,2].

If all dark roofs were replaced with more solar-reflective roofs, the planet would immediately reflect more sunlight to space, cooling the atmosphere in a manner that is equivalent to removing GHGs from the air. The roof's reflectance would need to continue to exceed that of the original dark surface to maintain the atmospheric cooling benefit over time.[1]

1. How to properly calculate and value albedo modification is an ongoing discussion amongst the scientific and finance communities.

Akbari, Menon, and Rosenfeld [1] found that even a modest increase in the solar reflectance of a roof surface can have a positive impact on reducing GHG emissions by lowering the building's cooling demand by reducing its solar heat gain, reducing peak demand, and increasing the community's albedo (solar reflectance).

Complex atmospheric dynamics may prevent highly reflective roofs from realizing the full global cooling potential attributed to them, but the fundamentals remain unchanged—cool roofs absorb less of the sun's energy, decreasing the amount of heat that gets trapped in the atmosphere, and help to cool the world and our homes.

REFERENCES

[1] H. Akbari, S. Menon, A. Rosenfeld, Global cooling: Increasing world-wide urban albedos to offset CO2, Climatic Change 94 (2009) 275–286. https://doi.org/10.1007/s10584-008-9515-9.

[2] S. Menon, H. Akbari, S. Mahanama, I. Sednev, R. Levinson, Radiative forcing and temperature response to changes in urban albedos and associated CO2 offsets, Environmental Research Letters 5 (2010). https://doi.org/10.1088/1748-9326/5/1/014005.

LEARN MORE

- WHAT IS A COOL ROOF?
- CRRC RATED ROOF PRODUCTS DIRECTORY

For more information and resources about cool roofs, visit **coolroofs.org**.

CRRC COOL ROOF RATING COUNCIL ®

PUBLISHED JUNE 2024

CRRC COOL ROOF RATING COUNCIL ®

Recently Completed

Free lesson plan for teaching middle schoolers about radiative properties and UHI mitigation with cool surfaces

Find it at coolroofs.org

Cool Surfaces Lesson Plan

Animated Videos

The below videos provide core instruction on the topics of urban heat islands, surface radiative properties, and cool roofs and cool exterior walls. Students should watch the videos prior to completing the rest of the lesson plan activities. The videos are broken down into three segments to allow for classroom discussion after each segment. All three segments can also be viewed as one video here.

To view the video on YouTube or watch in full screen, click the YouTube logo at the bottom right of the video.

The Urban Heat Island Effect (Cool Surfaces Video Part 1)

Surface Radiative Properties (Cool Surfaces Video Part 2)

Cool Roofs and Walls (Cool Surfaces Video Part 3)

Teacher Guide

The Teacher Guide is a supplemental resource for teachers to be used in conjunction with the Cool Surfaces Lesson Plan materials. The Teacher Guide contains the lesson plan learning objectives; a summary of each of the lesson plan resources; a glossary of terms; elaboration on concepts described in the animated videos; ideas for modifying the Cool Surfaces Experiment; opportunities for support from the CRRC community; links to sources and additional resources; and CRRC contact information.

CRRC Cool Surfaces Lesson Plan Teacher Guide

Cool Surfaces Experiment

The Cool Surfaces Experiment guides students in creating "buildings" out of cardboard boxes and observing the effect of different exterior surfaces on the air temperature inside the boxes when placed under infrared heat lamps simulating direct sunlight. The experiment compares white and black surfaces, but ideas for potential modifications to the experiment can be found in the Teacher Guide. Download the written experiment instructions or watch the video tutorial below.

Cool Surfaces Experiment Instructions

Cool Surfaces Experiment Tutorial Video

Cool Surfaces Worksheet

The Cool Surfaces Worksheet is a supplemental material containing short-answer, multiple choice, and true/false questions. It is intended to reinforce the information learned from the animated videos and Cool Surfaces Experiment. The worksheet can be completed as homework or an in-class activity.

The worksheet is available for download as a PDF with a separate Answer Key and as a Word document so that the questions can be modified if desired. Please note that the Answer Key on page 3 of the Word version should be removed prior to distribution to students.

Cool Surfaces Worksheet (pdf)

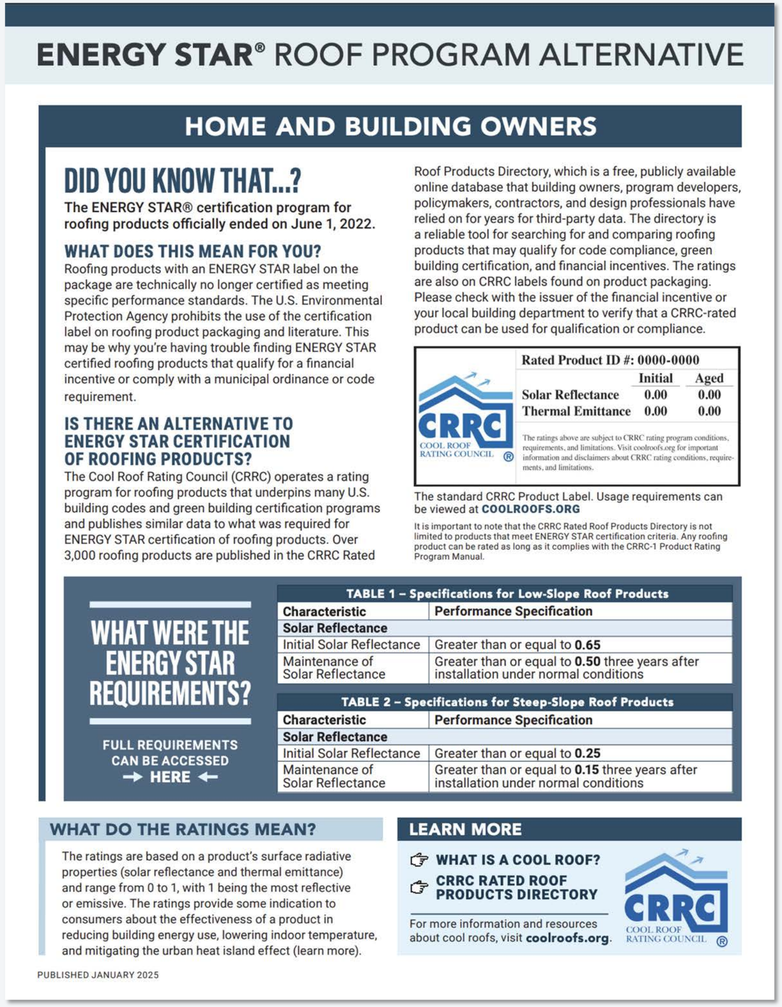
Cool Surfaces Worksheet (Word)

Cool Surfaces Worksheet Answer Key

Recently Completed

Two-pager describing the CRRC Roof Product Rating Program as a potential alternative to the former ENERGY STAR® roofing certification

Find it at coolroofs.org



ENERGY STAR® ROOF PROGRAM ALTERNATIVE

HOME AND BUILDING OWNERS

DID YOU KNOW THAT...?

The ENERGY STAR® certification program for roofing products officially ended on June 1, 2022.

WHAT DOES THIS MEAN FOR YOU?

Roofing products with an ENERGY STAR label on the package are technically no longer certified as meeting specific performance standards. The U.S. Environmental Protection Agency prohibits the use of the certification label on roofing product packaging and literature. This may be why you're having trouble finding ENERGY STAR certified roofing products that qualify for a financial incentive or comply with a municipal ordinance or code requirement.

IS THERE AN ALTERNATIVE TO ENERGY STAR CERTIFICATION OF ROOFING PRODUCTS?

The Cool Roof Rating Council (CRRC) operates a rating program for roofing products that underpins many U.S. building codes and green building certification programs and publishes similar data to what was required for ENERGY STAR certification of roofing products. Over 3,000 roofing products are published in the CRRC Rated Roof Products Directory, which is a free, publicly available online database that building owners, program developers, policymakers, contractors, and design professionals have relied on for years for third-party data. The directory is a reliable tool for searching for and comparing roofing products that may qualify for code compliance, green building certification, and financial incentives. The ratings are also on CRRC labels found on product packaging. Please check with the issuer of the financial incentive or your local building department to verify that a CRRC-rated product can be used for qualification or compliance.

CRRC COOL ROOF RATING COUNCIL

Rated Product ID #: 0000-0000

	Initial	Aged
Solar Reflectance	0.00	0.00
Thermal Emittance	0.00	0.00

The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit coolroofs.org for important information and disclaimers about CRRC rating conditions, requirements, and limitations.

The standard CRRC Product Label. Usage requirements can be viewed at **COOLROOFS.ORG**

It is important to note that the CRRC Rated Roof Products Directory is not limited to products that meet ENERGY STAR certification criteria. Any roofing product can be rated as long as it complies with the CRRC-1 Product Rating Program Manual.

WHAT WERE THE ENERGY STAR REQUIREMENTS?

FULL REQUIREMENTS CAN BE ACCESSED → HERE ←

TABLE 1 – Specifications for Low-Slope Roof Products

Characteristic	Performance Specification
Solar Reflectance	
Initial Solar Reflectance	Greater than or equal to **0.65**
Maintenance of Solar Reflectance	Greater than or equal to **0.50** three years after installation under normal conditions

TABLE 2 – Specifications for Steep-Slope Roof Products

Characteristic	Performance Specification
Solar Reflectance	
Initial Solar Reflectance	Greater than or equal to **0.25**
Maintenance of Solar Reflectance	Greater than or equal to **0.15** three years after installation under normal conditions

WHAT DO THE RATINGS MEAN?

The ratings are based on a product's surface radiative properties (solar reflectance and thermal emittance) and range from 0 to 1, with 1 being the most reflective or emissive. The ratings provide some indication to consumers about the effectiveness of a product in reducing building energy use, lowering indoor temperature, and mitigating the urban heat island effect (learn more).

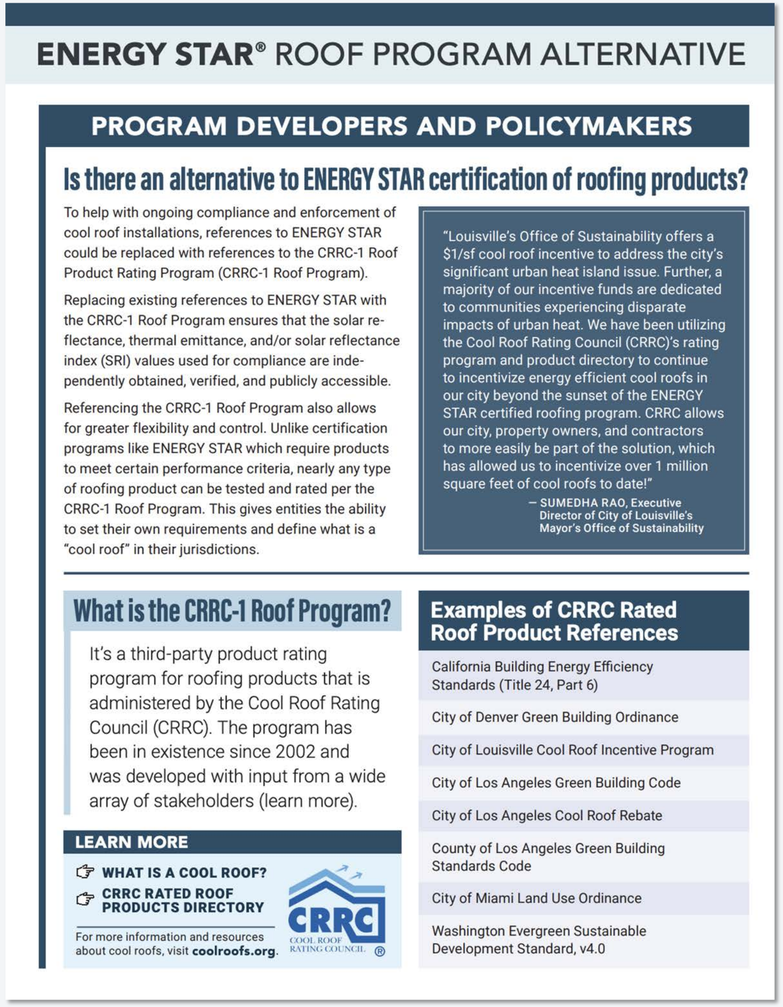
LEARN MORE

- WHAT IS A COOL ROOF?
- CRRC RATED ROOF PRODUCTS DIRECTORY

For more information and resources about cool roofs, visit **coolroofs.org**.

CRRC COOL ROOF RATING COUNCIL

PUBLISHED JANUARY 2025



ENERGY STAR® ROOF PROGRAM ALTERNATIVE

PROGRAM DEVELOPERS AND POLICYMAKERS

Is there an alternative to ENERGY STAR certification of roofing products?

To help with ongoing compliance and enforcement of cool roof installations, references to ENERGY STAR could be replaced with references to the CRRC-1 Roof Product Rating Program (CRRC-1 Roof Program).

Replacing existing references to ENERGY STAR with the CRRC-1 Roof Program ensures that the solar reflectance, thermal emittance, and/or solar reflectance index (SRI) values used for compliance are independently obtained, verified, and publicly accessible.

Referencing the CRRC-1 Roof Program also allows for greater flexibility and control. Unlike certification programs like ENERGY STAR which require products to meet certain performance criteria, nearly any type of roofing product can be tested and rated per the CRRC-1 Roof Program. This gives entities the ability to set their own requirements and define what is a "cool roof" in their jurisdictions.

"Louisville's Office of Sustainability offers a $1/sf cool roof incentive to address the city's significant urban heat island issue. Further, a majority of our incentive funds are dedicated to communities experiencing disparate impacts of urban heat. We have been utilizing the Cool Roof Rating Council (CRRC)'s rating program and product directory to continue to incentivize energy efficient cool roofs in our city beyond the sunset of the ENERGY STAR certified roofing program. CRRC allows our city, property owners, and contractors to more easily be part of the solution, which has allowed us to incentivize over 1 million square feet of cool roofs to date!"

— SUMEDHA RAO, Executive Director of City of Louisville's Mayor's Office of Sustainability

What is the CRRC-1 Roof Program?

It's a third-party product rating program for roofing products that is administered by the Cool Roof Rating Council (CRRC). The program has been in existence since 2002 and was developed with input from a wide array of stakeholders (learn more).

LEARN MORE

- WHAT IS A COOL ROOF?
- CRRC RATED ROOF PRODUCTS DIRECTORY

For more information and resources about cool roofs, visit **coolroofs.org**.

CRRC COOL ROOF RATING COUNCIL

Examples of CRRC Rated Roof Product References

- California Building Energy Efficiency Standards (Title 24, Part 6)
- City of Denver Green Building Ordinance
- City of Louisville Cool Roof Incentive Program
- City of Los Angeles Green Building Code
- City of Los Angeles Cool Roof Rebate
- County of Los Angeles Green Building Standards Code
- City of Miami Land Use Ordinance
- Washington Evergreen Sustainable Development Standard, v4.0

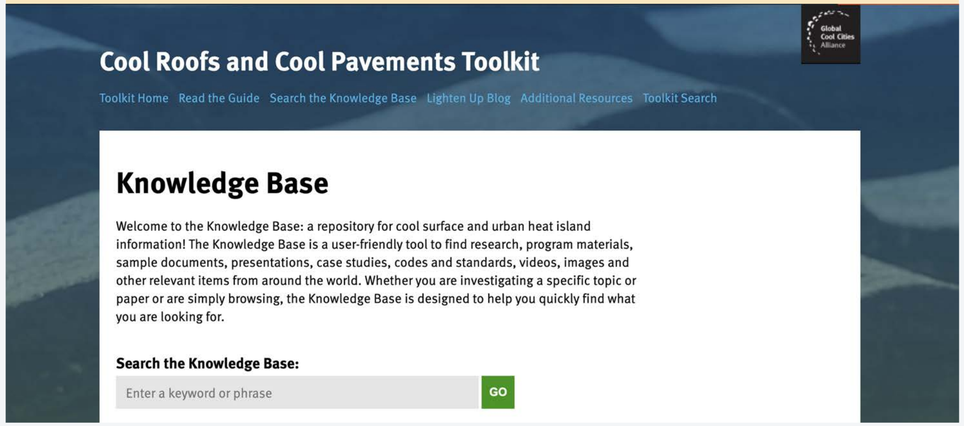
Active Projects

Cool Roofs & Solar PV Guide

- Describes the mutually beneficial relationship between rooftop solar photovoltaics and cool roofs
- Est. Publication: Summer 2025

CRRC Resources Microsite

- Committee to provide feedback on content for new microsite featuring educational resources and research database
- Est. Publication: Winter 2026



Education Committee Staff Contact

Audrey McGarrell

audrey@coolroofrs.org

Pavement Ratings Steering Committee Update

Jeff Steuben

CRRC Executive Director

Pavement Ratings Steering Committee

Evaluate technical issues

Develop program procedures & requirements

Develop program financial model

Present program plan to Board

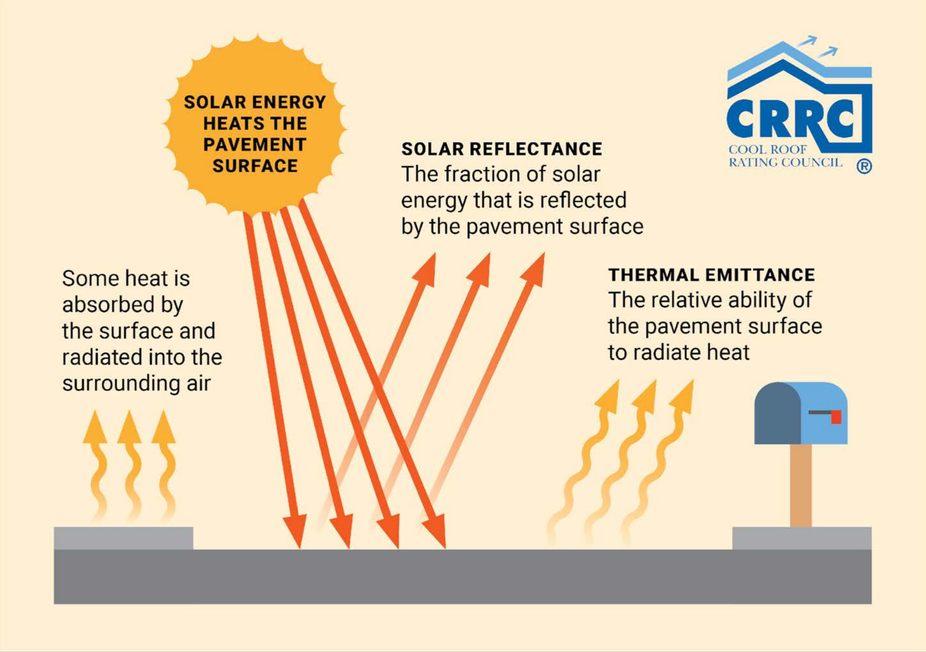
Committee Roster

Name	Affiliation
Rodney Armstrong	ACE Laboratories
Jean-Paul Fort	NAPA
Dan Haines	Azelis
Steve Heinje	GAF
Iona Isachsen	Smart Surfaces Coalition
Wallace Kesler	Dunn-Edwards
Jim Kirby	Siplast
Frank Klink	Interested Individual
Jessica Levin	Dow
Ronnen Levinson	LBNL
Bart Lungren	Pavement Technology, Inc.
Bryn Moncelsi	Climate Resolve
Ryan Stevens	City of Phoenix
Steve Wadding	Polyglass USA

CRRC COOL ROOF RATING COUNCIL ®

Education & Outreach Activities

- coolroofs.org/resources/what-are-cool-pavements
- Infographic
- Request for Information from end-users (e.g. cities)
- Outreach to key stakeholders



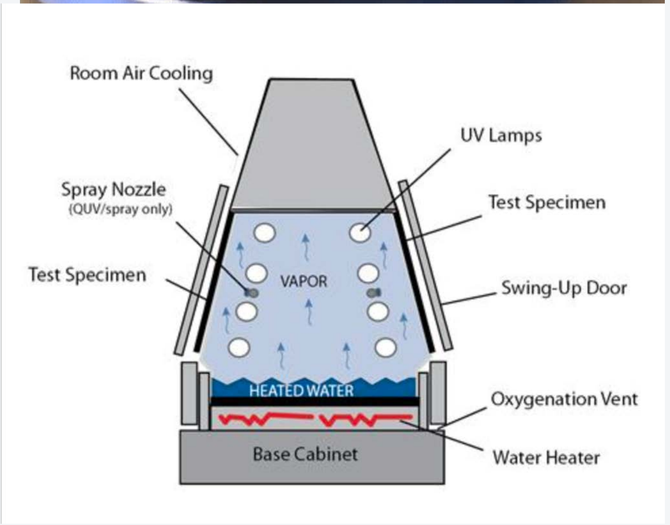
Program & Technical Discussions

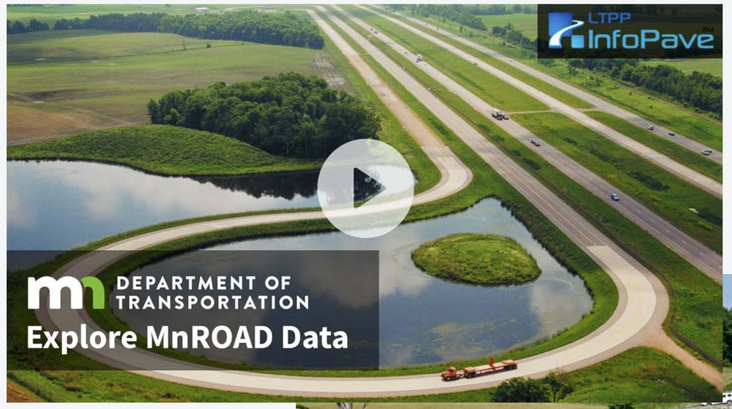
- Applicability of SRI
- Thermal comfort metrics
- Specimen size & preparation
- Product type categorization
- Other test considerations (e.g., friction)

$$\alpha I = \varepsilon\sigma\left(T_s^{\,4} - T_{sky}^{\,4}\right) + h_c\left(T_s - T_a\right)$$

Program & Technical Discussions

- Natural & simulated aging





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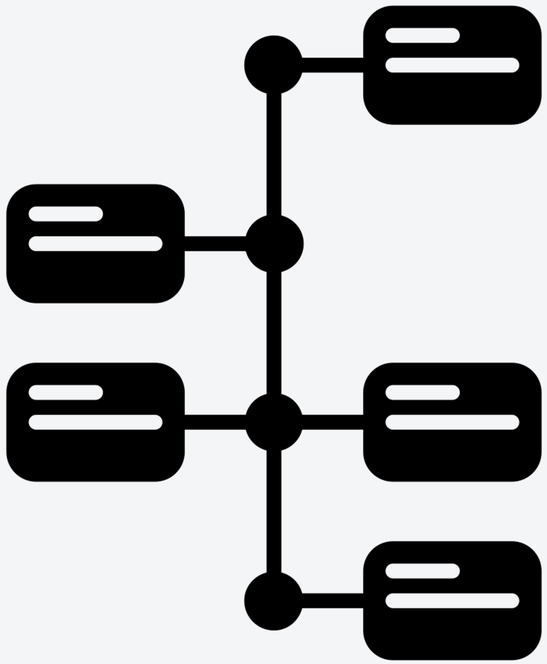
The Task Ahead

- Complete draft program concept & structure
- Seek buy-in from participants and users
- Explore pavement aging research opportunities



Pavement Steering Committee Staff Contact

Jeff Steuben

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