

Shine On & **Sol Collaborative**



Welcome

Agenda

1. Overview
2. Working Group Presentations, followed by Breakout Rooms
3. Open Q&A, followed by Working Group Interest Form
4. Brief Intermission
5. Participant Presentations: LBNL, GAF / Pacoima Beautiful, and New Buildings Institute
6. Next Steps and Closing

Thank you to *Shine On's* funders!



Grantham Foundation
for the Protection of the Environment



climateworks
FOUNDATION

About Climate Resolve

Our purpose is a just and resilient future.

Climate Resolve is responsible for convening the Sol Collaborative. Our staff and contractors serve as leads to organize each of the working groups and ensure that Sol Collaborative participants have the support needed to accomplish each working group's goals.



Shine On initiative

Shine On is advancing cool surface solutions (roofs, walls, and pavement) through a multi-pronged approach that elevates their 2-for-1 benefits: providing local community cooling and mitigating global climate change. Ultimately, we will attract greater public and private funding at scale for cool community projects, particularly to under-resourced communities.

Sol Collaborative

The Collaborative will convene on a quarterly basis:

- **Wednesday, April 24, 2024 · 9:00 am – 11:00 am**
- **Monday, July 15, 2024 · 9:00 – 11:00 am**
- **Wednesday, October 23, 2024 · 9:00 am – 11:00 am**
- **Wednesday, January 29, 2025 · 9:00 am – 11:00 am**

Working groups:

- **Policy & Communications**
- **White Paper**
- **Albedo Project(s)**
- **Finance**
 - **Measure & Verification Subtask Group**

WORKING GROUPS



Policy & Communications

Convened by Bryn Moncelsi

Goals:

- Advance legislation, codes/standards and public funding for high albedo projects

Year 1 deliverables:

- Federal policy strategy
 - US Global Climate Change Research Program
- California state policy strategy
 - CARB Scoping Plan
 - CalGreen Building Standards Code
- Communications strategy
 - White Paper on webpage
 - FAQ for webpage
 - Identify media targets

Anticipated time commitment:

- Twelve 1-hour monthly meetings
- Asynchronous feedback on Google docs

Current committed participants:

- Cool Roof Rating Council
- New Buildings Institute
- RAND
- GAF

The first working group meeting will be:

Friday, February 9, 11:00 am PT

White Paper

Convened by Bryn Monceli

Editor: Kurt Shickman

Goals:

- Synthesize peer-reviewed research that:
 - quantifies the climate mitigation benefits of high-albedo surfaces due to negative solar radiative forcing
 - discusses the full range of variables and implementation options most relevant to stakeholders

Year 1 deliverables:

- Incorporate feedback to strengthen the current draft
- Finalize and publish the white paper
- Advise on the development of an accompanying FAQ document

Anticipated time commitment:

- Paper review and comment – 4-8 hours

Current committed participants:

- Lawrence Berkeley National Lab
- Concordia University

The first working group meeting will be:

TBD in March

Albedo Project(s)

Convened by robyn eason

Goals:

- Plan at least one large-scale, shovel-ready cool community project, including necessary permits, in Los Angeles County

Year 1 deliverables of the working group:

- Develop the written project plan and budget for the shovel-ready community cooling project and research plan framework
- Obtain project permits & letters of support from key partners
- Compile list of potential grant funding sources and solicitations; and,
- Submit at least one proposal for a state or federal grant (if time permits)

Anticipated time commitment:

- TBD at first working group meeting
- Asynchronous feedback on Google docs

Current committed participants:

- AltoStratus
- GAF
- ActiveSGV
- FTBMI
- Pacoima Beautiful

The first working group meeting will be:

Wednesday, February 14, 9:00AM PT

Finance

Convened by Emilia García

Deliverable of the working group

- Roadmap for attracting private-sector capital to cool surface projects

Anticipated time commitment

- 5 bimonthly meetings (1.5 hours)
- 1 to 5 one-on-one's in the year

Current committed members

- GAF
- Grantham Foundation
- RAND

The first working group meeting will be:

**Wednesday, February 21, 3:30PM
PT**

Measurement & Verification

Convened by Roel Hammerschlag

Goal: Enable financing or monetization of albedo projects by establishing transparent and trustworthy estimation, measurement, and verification methods.

Deliverable: Feasibility study describing potential for a tool or tools to (1) estimate climate impact of proposed albedo projects and (2) utilize remote sensing or other data to verify project deployment and measure performance.

Anticipated time commitment

- Six bimonthly meetings, 1.5 hours each;
- Feasibility Study section draft and/or review, up to 8 hours;
- Best practices survey, up to 6 hours;
- (possibly) One turn as meeting presenter.

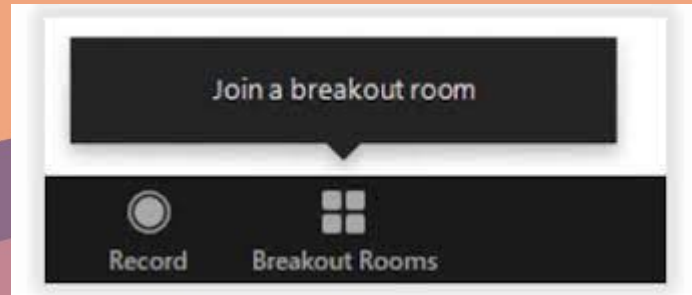
Current committed members

- GAF
- AltoStratus
- EcoEngineers
- RAND
- Concordia University
- Lawrence Berkeley National Laboratory
- Hammerschlag LLC

LBL research support to the extent that funding becomes available.

Poll for first meeting date is forthcoming (via email).

BREAKOUT ROOMS



Q&A



INTEREST FORM



BREAK



PARTICIPANT PRESENTATIONS



Lawrence Berkeley National Laboratory (LBNL)

About LBNL and the Heat Island Group

- The [Heat Island Group](#) at [Lawrence Berkeley National Laboratory](#) in Berkeley, CA brings the science needed to cool people, buildings, cities, and the planet.
- We're big fans of [cool roofs](#), [cool walls](#), [cool pavements](#), and even [cool cars](#).

United States Cool Surfaces Deployment Plan

- Our team from LBNL, Oak Ridge National Lab, Arizona State University, Smart Surfaces Coalition, and Cool Roof Rating Council has published a [plan](#) to accelerate the deployment of cool roofs and walls across the United States, especially in disadvantaged communities. Visit <https://CoolSurfaces.LBL.gov>
- Register for our [webinar](#) on Fri 9 Feb at 11 am PT to learn how to join our upcoming "Keep Your Cool" educational campaign or our high-profile demonstrations!

Vision for Shine On

- Let's work together to help people make cool choices in their daily lives.



**Get
the
plan!**

GAF and Pacoima Beautiful

About GAF and Pacoima Beautiful

- We're awesome and enjoy working together :)
- **Eliot Wall**- eliot.wall@gaf.com
- **Melanie Torres**- mtorres@pacoimabeautiful.org

Cool Community Pacoima Project

- Aimed at developing insights into ways cities can address urban heat at a community-wide level by assessing the effects of cooling strategies (SR pavement coatings & roof shingles)

Vision for Shine On

- To find opportunities to re-use & scale the PPP model employed in Pacoima to other communities that also experience extreme heat and historical underinvestment
- To leverage the research—including both qualitative & quantitative measures—to affect policy such that resource mechanisms (funding & institutional support) are codified enabling the work to be scaled more effectively and quickly

New Buildings Institute

About NBI

- Focus on building decarbonization and energy efficiency
- Decarbonizing the building environment via codes and policy, technology innovation, and market transformation
- [Newbuildings.org](https://www.newbuildings.org)

Codes & Standards

- Cool surface requirements exist in several model codes and standards: IECC, ASHRAE 90.1, ASHRAE 189.1 - but they can and should be improved
- Some jurisdictions have implemented cool surface requirements in their local building energy code

Vision for Shine On

- Create a coalition of policy and building experts that would support jurisdictions in piloting and implementing cool surface and extreme heat mitigation strategies, codes and policies.

NEXT STEPS



Next Steps

1. You will receive an email with the recording, slides, and interest form
2. We'll post the video recording and slides to the *Shine On* webpage: <https://www.climateresolve.org/shine-on-initiative/>
3. Working group leads will follow up with all who expressed interest
4. We'll invite those who are interested to our collaborative platforms
5. **Next Quarterly Meeting: Wednesday, April 24 · 9:00 am – 11:00 am via Zoom**

Questions?

Please contact:

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THANK YOU

