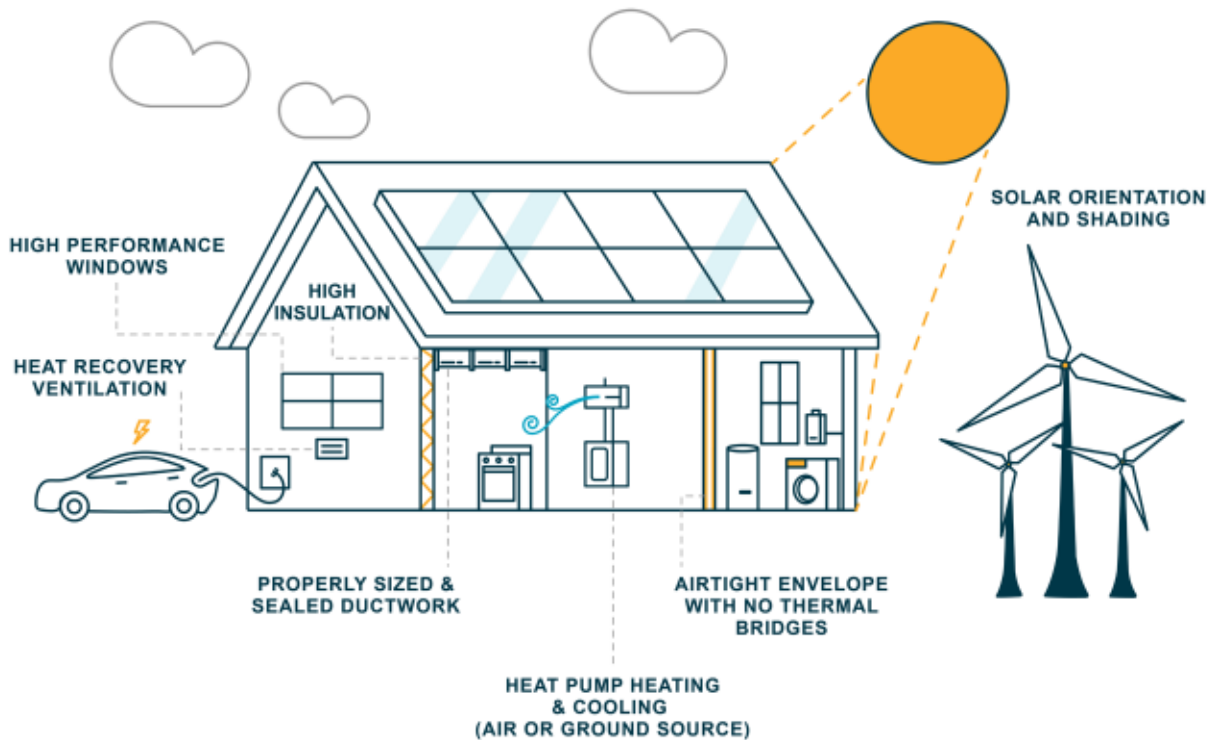


Rebuilding Better Residential Workshop Series

Workshop 1: Optimizing Comfort and Construction Cost Savings in Your New Home

Information from workshop 1 can be found on Boulder County's RebuildingBetter.org website.

RebuildingBetter.org Website Chapter 1: Building a Healthy and Comfortable Home



The design and construction of your home can affect its overall health and comfort. The key components to a healthy and comfortable home are: **airtight well-insulated buildings with limited thermal bridges, heat recovery ventilation, solar orientation and shading, high-performance windows, and building materials that limit off gassing of harmful chemicals.**

Each of these, and more, contributes to the overall performance of your home. Building a high-performance home has many benefits including: Healthier indoor air quality, a more comfortable and quieter home, increased resistance to future wildfires and smoke damage, reduced maintenance, energy efficiency and reduced operational cost, and reduced contribution to the climate crisis.

For more information about elements of a healthy and comfortable home or for answers to your questions contact Robby Schwarz, Marshall Fire New Homes Building Advisor with Boulder County EnergySmart.

Email: info@EnergySmartYes.com Phone: 303-544-1000



RebuildingBetter.org Website Chapter 4: Finding Your Team & Planning Your Rebuild

Architects, builders, energy consultants, and subcontractors all play a critical role in the design and construction of your home. Meet early and often as a team to ensure everyone is on the same page regarding the goals of your project.

Who is on your build team?

1. Your Certified Energy Rater or Certified Energy Consultant

Certified energy raters or consultants often build a computer energy model used to specify insulation, windows, ventilation, and other systems in the home. They develop Home Energy Rating System (HERS) scores for compliance with incentive programs and will also inspect and verify the home for program compliance. Lastly, they often have industry connections with partners who have experience with the codes and incentive programs guiding rebuilding in the Marshall Fire area.

2. Your Architect

Your architect takes your ideas and turns them into a design that meets your goals and complies with building codes, regulation, and the incentive program requirements you choose. Balancing aesthetics and performance is one of the most difficult jobs as an architect. Try to ensure your architect has a sound understanding of both and establish clear and regular means of communication with them.

3. Your Builder

Your builder turns your design into reality. They are the project managers, organizing the construction team and solving problems as they arise. Your builder must be involved early in the design process to identify opportunities for saving time and money during the build.

4. Your Builder's Subcontractors

All trade partners are important but the key partners are Engineering, Framing, HVAC, and Insulation, all of which should be included in the design integration meetings.

5. You

You are the core stakeholder in this process, responsible for maintaining and championing the vision of your high-performance home. Develop your relationship with your architect and builder. You do not have to become a building expert as you are hiring professionals, but it is useful to educate yourself.



In an effort to facilitate match making between homeowners seeking to rebuild and professionals seeking to serve them, EnergySmart is maintaining a list of building professionals who have expressed interest in working on Marshall Fire rebuilds. The sole requirement to be on this list is to ask to be on it or to have participated in one of the Marshall Fire builder expos. EnergySmart and Boulder County make no representations or warranties regarding accuracy of information, quality of service or product, or proof of licenses or insurance for any company on this list. Nothing about the companies on

this list has been vetted or verified by EnergySmart or Boulder County. Rebuilding residents may work with any vendor or contractor they wish and are not limited to those on this list. This list is a work in progress and will be modified on a weekly basis as additional information becomes available.

Additional Resources

July Rebuilding Better Workshop Registration - <https://bit.ly/RebuildJuly22>

August Rebuilding Better Workshop Registration - <https://bit.ly/RebuildAugust22>

Rebuilding Better Homeowner Resources Page

Rebuilding Better Residential Rebates and Incentives



Rebuilding Better Residential Workshop Series

Rebates, Discounts & Incentives and Reducing Building Costs

Xcel Energy Incentives for Rebuilding Residents

Xcel Energy is offering one-time incentives specifically for those who lost their homes in the Marshall Fire. As you look to rebuild your home, consider one of several ways to incorporate energy efficiency from the ground up. The incentives will be paid out as a rebate at the time you take possession of your new house. These incentives apply to new homes built to replace properties destroyed in the Marshall Fire.

Home Certification Standard	Rebuilding Homeowner Incentive*	New Homeowner Incentive**
2021 International Energy Conservation Code	\$7,500 ^{***}	\$0
ENERGY STAR® v3.2	\$10,000	\$1,250
Zero Energy Ready Homes v2	\$12,000	\$2,500
ENERGY STAR® New Certification	\$17,500	\$5,000
Passive House (PHI/PHIUS)	\$37,500	\$15,000

* Rebuilding Homeowner Incentives are available to Marshall Fire affected residents who lost their home, chose to rebuild on their same parcel, and previously had an Xcel Energy account

** New Homeowner Incentives are available to new residents who purchase a parcel where the home was destroyed by the Marshall Fire and build a new home.

*** Where adopted by the municipality and if the homeowner does not opt out

Equipment Discounts

Various companies have reached out to support residents in rebuilding high-performance homes after the Marshall Fire with rebates for heat pumps, air sealing, ventilation and windows.

Solar Energy Resources

Community Solar Garden: All community members rebuilding will have access to a solar garden dedicated to the Marshall Fire survivors. This option will match Xcel's current rates, so homeowners will pay nothing upfront, and no premium over time.

Rooftop Solar: The nonprofit Solar United Neighbors (SUN) is creating a solar co-op that will make it easy for all residents who are rebuilding their homes to save on the installation of solar panels, often significantly below what they would pay on their own.



Scan the QR code to learn more about all of the rebates, discounts and incentives listed on this page. This list is constantly changing and Boulder County will update the website accordingly and as more resources become available.

Reducing Building Costs

Reduce the complexity of your home

The more complex your home's exterior is, the more it costs. Choosing a simple shape both saves construction costs and improves the ratio of exterior surface area to interior floor area, which gives you more interior floor space for your exterior costs and reduces the area and amount of insulation needed. Simple, cost-effective designs can also be beautiful. Multifunctional spaces (e.g. a room that functions as home office / spare bedroom or a living room that also functions as a dining room) can cut costs and increase resale value due to their flexibility for future uses.

Align your team early

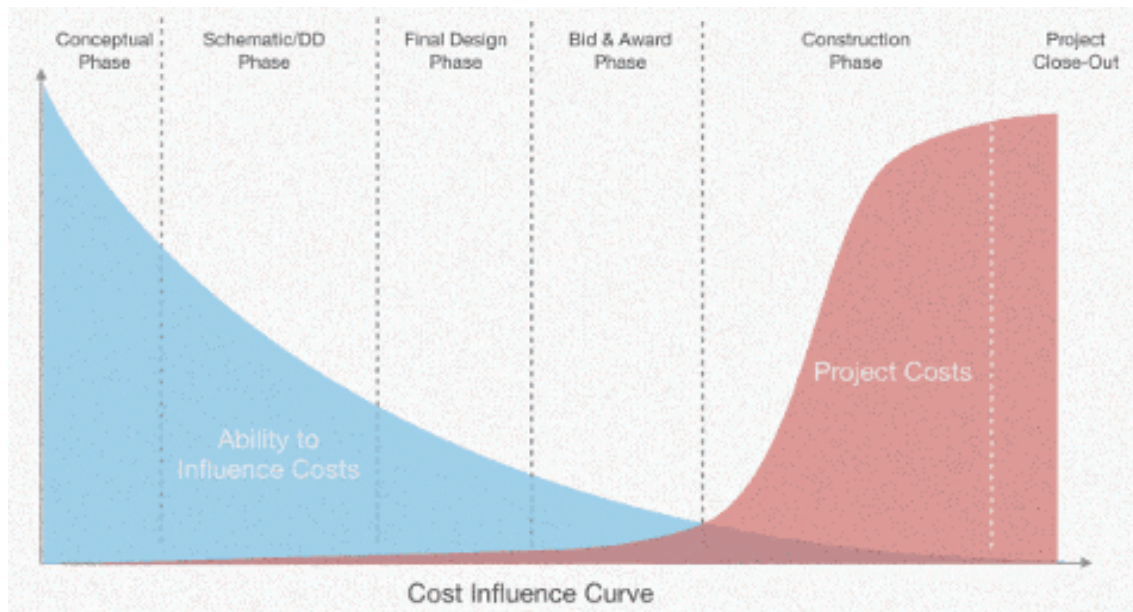
Building a home takes a team of architects, builders, energy raters, and subcontractors. Some companies may serve multiple functions or you may have different companies filling each role. Regardless, you want all members of your build team to be aligned with your goals and objectives. Having a meeting early with all the key players to get alignment on your goals can save you time and money later in the process and improve the performance of your home.

Earning incentives

The incentives offered by Xcel Energy and the Colorado Energy Office can significantly reduce or offset the cost of increasing the comfort, health, and energy efficiency of your home. Make sure you and your building team understand what is necessary to earn the incentives for the level of home performance you are aiming for.

Consider your home performance early

Most of the elements of a high-performance home are decided in the design stage as they all work together. It adds extra expense and time delays to incorporate them after the home is designed so consider these elements and what level of home performance you want early in the process.



New funding forthcoming through the Disaster Preparedness and Recovery Resources Bill

In the final days of the state legislative session the Disaster Preparedness and Recovery Resources bill passed, establishing a statewide Disaster Resilience Rebuilding Program to provide loans and grants to homeowners working to rebuild after a disaster. The funding includes \$15 million to be managed by the Colorado Department of Local Affairs and \$20 million to be managed by the Colorado Energy Office. The funding will go toward both current and future disaster recoveries including the Marshall Fire and others. The funds distributed through the Colorado Energy Office will likely go toward supporting electric (heat pump) heating, hot water heating, and induction cooking. City media channels and Boulder County RebuildingBetter.org will be updated with additional details in the coming weeks on the availability of funding for those affected by the Marshall Fire.