



viridiant

2021 Annual Report

Efficiency, Sustainability, & Durability

2021 BSCA Award Winners



Winners of the 2021 Building Sustainability Conference and Awards

Visionary Award

Marilyn Taylor - Client

Project or Development - Single Family

Habitat for Humanity in the Roanoke Valley
2227 Melrose Ave, Roanoke, VA

Project or Development - Multifamily

Apex by AHC Affordable Housing
Arlington, VA

Project or Development - Multifamily Renovation

New Clay House II by Virginia Supportive Housing
Richmond, VA

Builder or Developer

Lawson Construction
Norfolk, VA

Project, Program, or Initiative

Department of Housing & Community
Development for Virginia Energy Code
Process & Implementation



Top High-Performance Home of the Year

Habitat for Humanity of Northern Virginia

EarthCraft Home - HERS42
6848 Donora Drive, Alexandria, VA



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*Newport News Redevelopment
& Housing Authority*

James Wiltshire

Bank of America

* Denotes new members in 2022

** Denotes members that rolled off in 2021

Friends & Supporters

Viridiant is dedicated to providing access to safe, healthy, and affordable housing for all. Green building delivers low load housing, resulting in lower utility costs and improved indoor air quality. This attention to construction helps mitigate energy burdens for our most vulnerable populations. At Viridiant, we are proud of the work we do that impacts quality of life and helps create an equitable, more resilient future.

As a critical partner in our clean energy future, Viridiant lends a wealth of technical expertise in the delivery of energy efficient buildings. Our daily work includes building certifications, consulting, utility program design, energy code research and education, solar feasibility, green financing, workforce readiness, and policy development. We are driving clean economic development in collaboration with our partners, changing lives and improving our communities.

In 2021 alone, we helped put 5,186 families into homes that are more affordable, more livable, and more durable. That equals 6,061 tons of carbon dioxide eliminated and over \$2,111,672 annual savings for these families. To date we've served 35,000+ families.

On behalf of Viridiant's Board of Directors, staff, and technical advisor network, thank you for your commitments and know we can't do this work without your partnership and financial support.



KC Bleile

KC Bleile
Executive Director



Bryan Mangas

Bryan Mangas
President



2021 Top High-Performance EarthCraft Home of the Year Award

Builder: Habitat for Humanity of Northern VA

Building Type: Single Family Home

Location: Alexandria, VA

6848 Donora Drive received EarthCraft Gold and ENERGY STAR certifications, while also achieving the lowest rating on the HERS index with a score of 42.

The tight envelope on this building, as well as the efficient insulation and ductwork, ensures that the homeowners will have low utility costs for the life of their home.



Certified Projects 2021

-  1-2 Certified Projects
-  3-4 Certified Projects
-  5-7 Certified Projects



In 2021, multifamily projects were certified in the following cities:

- | | | |
|------------------------------|-----------------------------|-----------------------------|
| Alexandria, VA 6 | Fishersville, VA 1 | Portsmouth, VA 1 |
| Arlington, VA 3 | Glasgow, VA 1 | Radford, VA 1 |
| Ashburn, VA 1 | Gloucester, VA 2 | Remington, VA 1 |
| Aylett, VA 1 | Gordonsville, VA 1 | Richmond, VA 3 |
| Bedford, VA 1 | Hampton, VA 3 | Ruckersville, VA 1 |
| Blacksburg, VA 2 | Henrico, VA 1 | Spotsylvania, VA 2 |
| Charlottesville, VA 1 | Herndon, VA 1 | Staunton, VA 2 |
| Chesapeake, VA 1 | King George, VA 1 | Suffolk, VA 1 |
| Courtland, VA 1 | Lexington, VA 1 | Triangle, VA 1 |
| Crozet, VA 1 | Mechanicsville, VA 1 | Virginia Beach, VA 2 |
| Culpepper, VA 3 | Norfolk, VA 1 | Williamsburg, VA 1 |

We recognize the dedication, effort, and hard work of our amazing partners when it comes to designing energy efficient and sustainable housing. We look forward to continued partnerships in the years to come.



DONATE OR WORK WITH US TODAY
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2021 Workforce Development

In October of 2021, Viridiant, along with AZS Consulting and the Southeast Energy Efficiency Alliance (SEEA) received joint funding from the U.S. Department of Energy to work with industry professionals, manufacturers, and service providers to understand barriers to new, energy efficient technologies: **air source heat pumps, heat pump water heaters, electric vehicle (EV) charging, and battery storage.**

Through this work, Viridiant will help identify gaps in industry understanding and deploy resources and assistance to help ensure a more sustainable and knowledgeable workforce.



Expanding Code Development

Viridiant has participated in the 2021 Residential Code development process and, in partnership with SEEA and Virginia Department of Housing and Community Development, has worked to educate the industry on 2018 Residential Energy Code updates, mandated **July 1, 2022**.

To facilitate this work, Viridiant joined the Virginia Building and Code Officials Association (VBCOA) and actively serves as a recognized **code trainer, resource developer, and educational partner**. Viridiant provided tailored technical assistance to jurisdictions across the Commonwealth to aid in consistent Residential Energy Code implementation.

These opportunities allow us to continue to ensure the sustainability, safety, and energy efficiency of homes and support to our workforce in the greater Virginia area.

3-Year
Funded

RESEARCH &
DEVELOPMENT

20

RESOURCES
DEVELOPED

298+

INDUSTRY
PROFESSIONALS
TRAINED

10

STATE JURISDICTIONS
PARTNERED WITH

17

ENERGY CODE
TRAININGS
CONDUCTED

A YEAR IN REVIEW: Community Energy Services

“As a homeowner and property investor I have gotten a ton of value out of Viridiant’s energy audits. I feel like I have way more control over my utility bills each month and, more importantly, control over the comfort of my own home. I was able to make some really quick changes following the recent audit that improved the insulation in the highest traffic area of my home.”

- Jackson L.
Richmond, VA

During this past year of home energy audits, our team:



Conducted 145
Home Energy Audits



Installed Over 3,200
LED Lightbulbs



Installed More than 2,960 ft.
of Pipe Insulation Wrap



Reduced Annual Energy Use
by 176.7 Megawatt Hours



Saved Clients an Average of
\$156 a Year on their Energy Bills

(That’s a typical month’s energy bill gone!)

Families Served in 2021

SINGLE FAMILY



MULTIFAMILY



5,186

FAMILIES SERVED
IN 2021

35,626

FAMILIES SERVED
THROUGH 12/31/2021

2021 ENERGY SAVINGS

In 2021, Viridiant verified **5,186** homes



153

TOTAL HOMES IN 2021

+

5,033

TOTAL UNITS IN 2021

EQUATES TO ELIMINATION OF

13.9

GIGAWATT HOURS OF ENERGY

OR

6,061

TONS OF CARBON DIOXIDE

OR



10,898,890

POUNDS OF COAL
BURNED



106,350

INCANDESCENT
LAMPS
SWITCHED
TO LEDS



162,882

TREE
SEEDLINGS
GROWN FOR
10 YEARS



22,806

BARRELS
OF OIL
CONSUMED



2,123

PASSENGER
VEHICLES
DRIVEN FOR
ONE YEAR

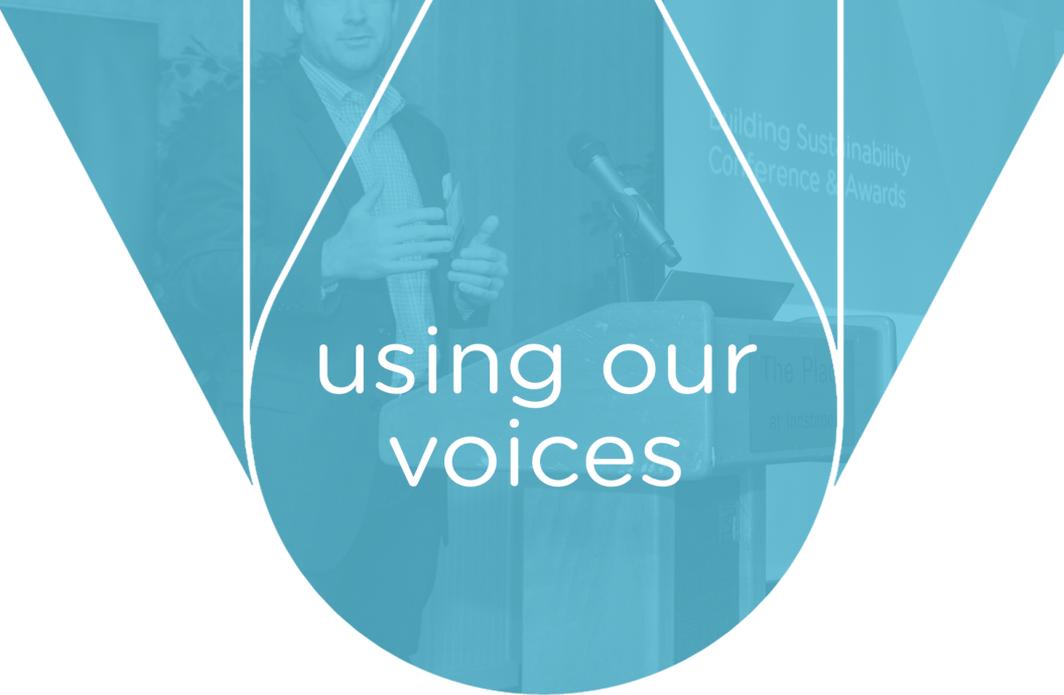


1,917

HOMES'
ELECTRICITY
USE FOR
ONE YEAR

\$2,111,672

TOTAL ANNUAL SAVINGS



using our voices

Working together to provide long-lasting
impacts to our local communities

2021 ASSOCIATIONS:

Governor's Clean Energy Advisory Board | Virginia Energy Efficiency Council
Richmond Green City Commission | Department of Housing & Community
Development - Regional Greenhouse Gas Initiative Stakehold Advisory Board
Virginia Housing Multifamily Rental Housing Advisory Board

VOLUNTEER WORK:

FeedMore (Food Distribution) | Remake
Patrick Henry School of Science & Arts (Facilities Committee, Garden Workdays)
Chesterfield County Public Schools (Urban Agriculture & Soil Science Program)

PRESENTED TO OR EXHIBITED AT:

Virginia Interfaith Power & Light | DOE National Energy Codes Conference
City of Richmond Office of Community Wealthbuilding NABCEP Solar Training
Charlottesville Area Association of Realtors & Blue Ridge Home Builders Association
Residential Energy Efficiency & Home Energy Audits | SolarizeRVA Summer Solstice
Virginia Clean Energy Summit | Virginia Energy Workforce Consortium | Governor's Housing Conference

2021 Statement of Activities:

SUPPORT & REVENUE:

Program Services:	\$1,370,721
Contributions:	\$18,317
Sponsors:	\$20,783
Events:	\$50,085
Research, Education, Grants & Other Income:	\$383,214
Net Investments:	\$126,092

**NET ASSETS RELEASED
FROM RESTRICTION:** **\$1,969,212**

EXPENSES:

Supporting Services:	\$600,939
Program Services:	\$1,282,101

TOTAL EXPENSES: **\$1,833,040**

In 2021, Viridant, like many other organizations, faced a significant operational deficit. Due to supply chain issues, building construction timelines and inflation, and increased service complexity, we had to adjust our approach and perspectives. With our assets, investment gains, depreciation, and the opportunity to apply for an Employee Retention Credit, we have been able to recoup our losses.

Moving forward, we will be reprioritizing, restructuring services, and will rely on partnerships that ensure fiscal sustainability. We appreciate your continued understanding and support.

Donors & Sponsors

A sincere thank you to all of our supporters.

PASSIONATE PROTECTOR (\$1,000 and Above)

Byran Mangas & Jeannine Bader, Louis B. Cochrane Charitable Foundation

HEALTHY HOME HERO (\$500-\$999)

Nathaniel Bauman, KC & Steve Bleile, Andrew Grigsby, Joan Kelsch, Jeffery Sadler & Ecovative Energy Inc.

GREEN GURU (\$250-\$499)

Bettina Bergoo, Nathan Blinn, Dona Huang, Judy Lamana, Stacy Mitchell

SUSTAINABLE SUPPORTER (\$101-\$249)

Worth Bugg, Paul Ferguson, Nathan Frost & the Dominion Foundation, Jenny Palmer, Justin Sidebottom, Stacey Smith, Jeffery Sties, Mark & Jane Waring

COMMUNITY CONTRIBUTOR (Up to \$100)

Sarah Jones-Anderson, Emily Bookman, Charities Aid Foundation of America, Stephen Dareing, Chelsea Harnish, Lynne Lee, Katy Maher, Mira Martin, Kevin Van Natta, Stuart & Joey Nuckols, Bill Riggs, Kevin & Kristin Rothermel, Sean Shanley, Mark Slack, Chris & Caron Sterling, Bishan Thapa, Scott Troutman, Beth Vann-Turnbull, Richard Walker, Matt & Jenny Waring, Karen Wilds, James Wiltshire

CORPORATE SPONSORS

Dominion Due Diligence Group
Huber Engineered Woods
Mitsubishi Electric
Niagra
Ultra-Aire

EVENT SPONSORS

Community Housing Partners (CHP)
Dominion Energy
Habitat for Humanity
Home Builders Association of Virginia
Rivana Natural Designs
VCDC
Virginia Community Capital
Virginia Department of Housing & Community Development
Virginia Energy
Virginia Housing



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Your Support Matters

Viridiant, a 501(c)(3) non-profit, prides itself on offering superior quality, affordable programs that can suit the needs of any builder or developer who shows a commitment to high-performance building. We strive to remove any financial barriers to green building by delivering our programs at a fraction of the cost of similar programs.

With your support, we can touch more buildings, making a significant impact not only on the region's energy use but also on the lives of the residents who will enjoy comfortable, healthy and affordable homes.



Donate today at
viridiant.org/donate



viridiant

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