

We Create Better Homes and Buildings Through Windows, Doors, and Skylights













NFRC Serves the Public

32 years of fair, accurate, and credible energy-performance ratings

The National
Fenestration
Rating Council
(NFRC) is a
501(c) (3)
nonprofit
organization
that serves the
public.

Our ratings
empower people
to compare
windows, doors,
and skylights —
otherwise known
as fenestration
products — so
they can make a
well-informed
purchase.

We help make homes and buildings more comfortable and more energy efficient and contribute to the green and healthy building movement.









World-Class Ratings

Independent, Third-Party Certification and Labeling

- NFRC's FenStar® Certification Program ensures compliance to ENERGY STAR® specifications for Windows, Doors, and Skylights and is accredited by ANSI National Accreditation Board (ANAB). ANAB accredits the FenStar program to the International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) ISO/IEC 17065 standard used for certification bodies worldwide.
- Accreditation to the ISO/IEC 17065 standard increases confidence that product certifications fulfil specified requirements impartially, consistent with international standards, and is based on objective testing.





Since 1989

We have certified millions of products so homeowners could make a well-informed purchasing decision.



Over 8,000

Product models



57 million

Options

NFRC ratings cover nearly every homeowner's needs.



\$50 Billion

According to Lawrence
Berkeley National Laboratory
(LBNL), the amount of energy
lost through inefficient
windows in U.S. annually.

NFRC's work helps lower this number.





MISSION

NFRC is committed to advancing continuous improvement of windows, doors, and skylights, contributing to making buildings more comfortable and energy efficient.



VISION

NFRC empowers people to create better buildings, increasing public awareness of energy efficiency and environmental responsibility, thereby enriching the wellness of those who choose NFRC-certified fenestration products.



Strategic Goals

Grow commercial market penetration and expansion

Achieve greater recognition with the residential market









Results: 1989 - 2018



The estimated energy savings amount to **774,619.53 GWh** (Gigawatt hours). U.S. national weighted average marginal emission rate, the CO2 emissions avoided equals 547,772,975 metric tons from 1989 to 2018.

CO₂ 547 Million Metric Tons (MMT) of CO₂ emissions avoided is equivalent to:



About **116 million** passenger cars NOT driven for one year (in 2005, about 14 million passenger cars were operated on California roads).



One year of energy use by about 65 million average U.S. households.



Greenhouse gas emissions avoided by replacing about **20 billion** standard incandescent lamps with energy-efficient LEDs.



About **644 million** acres of pine or fir forests absorbing CO2 for one year.



<u>Summary of NFRC's Carbon Emissions Avoided</u>. (October 2019). Dr. Ravi S. Srinivasan. M.E. Rinker, School of Construction Management. University of Florida.

Building a Sustainable Future

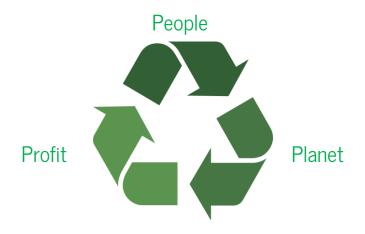


- Net-zero carbon emissions from facility and operations
- Nearly 100% remote staff and downsized headquarters
- Virtual meetings reduce environmental impact from travel, event space, materials
- Women in Fenestration Network supports gender equity in the industry



Corporate Responsibility

From Ratings Leader to Green Building Community Leader



NFRC empowers people to choose windows, doors, and skylights that save energy and reduce carbon emissions.



With every decision we make, we consider the triple-bottom-line.

"When a consumer wants to purchase a window, and they see the NFRC label, they have the peace of mind that the window will perform as it says it will in their home.

To better connect with consumers, NFRC acquired the Efficient Windows Collaborative in 2020. This gives us a forum and platform to showcase the value and importance of high-performance windows for all homes. Homeowners looking for new windows or to replace their existing windows, can search a database of products that pinpoints the most energy-efficient window for their home anywhere in the U.S. and Canada.

Merging the Efficient Windows Collaborative with NFRC gives us even more staying power to provide resources and tools for consumers to find the right window for their needs."





Deb Callahan, CAE NFRC CEO

"NFRC's strategic vision, and the foundation it sets, meets the needs of our current and prospective members to move the energy-efficient window market forward.

Now more than ever, it's vital for all members, participants, stakeholders, and allied groups to come together to put this vision into action. By doing so, we continue to make NFRC an example of excellence in not only the fenestration industry but also among nonprofit organizations."



John Gordon NFRC Chairman of the Board



Projection: 2019 - 2049



The estimated energy savings amount to **522,578.34 GWh** (Gigawatt hours). Using the AVERT, U.S. national weighted average marginal emission rate, the CO2 emissions avoided equals 369,541,796 metric tons from 2019 to 2049.

CO₂ 369 Million Metric Tons (MMT) of CO₂ emissions avoided is equivalent to:



About **78 million** passenger cars NOT driven for one year.



One year of energy use by about 44 million average U.S. households.



Greenhouse gas emissions avoided by replacing about **14 billion** standard incandescent lamps with energy-efficient LEDs.



About **434 million** acres of pine or fir forests absorbing CO2 for one year.



<u>Summary of NFRC's Carbon Emissions Avoided</u>. (October 2019). Dr. Ravi S. Srinivasan. M.E. Rinker, School of Construction Management. University of Florida.

Board of Directors

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Architects, Specifiers or Design Professionals



Fenestration Industry
Organizations/Consultants



266Fenestration Manufacturers and Suppliers



Government Agencies/
Building Officials



Higher Education /
Research Institutions



Licensed Independent Inspection & Accreditation Agencies (IA's)



11NFRC Accredited Labs



Consumer, environmental or Energy Efficiency Organization



Ready to Become a Member? Contact our Membership Department 301-589-1776 or membership@nfrc.org 650

Product
Certification
Program
Participants

28

Certified Simulators and Labs

193

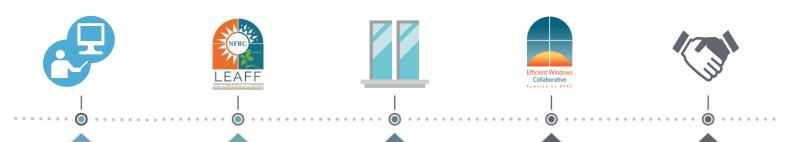
FenStar

4

Inspection Agencies



Notable Accomplishments 2019-2020



Membership opportunities include webinars, blogs, podcasts including a series on 30 years/30 voices, membership meetings and a leaders network

NFRC developed the Linear Energy Analysis for Fenestration (LEAFF), to help manufacturers get innovative products into the market faster. NFRC implemented a
Condensation Index
rating that empowers
design-build
professionals to engineer
windows that minimize
condensation by climate
zone for indoor
temperatures and
humidity levels.

Acquired the Efficient Windows Collaborative to provide homeowners resources and information on finding the most efficient window with the Window Selection Tool.

NFRC has helped other countries develop fenestration certification programs to meet the needs of their manufacturers.

Partnerships





















Upward and Onward

Serve the public through the Efficient Windows Collaborative and the Window Selection Tool.

Build a

collaborative environment where industry experts can learn from each other.

Encourage

homeowners and building occupants to demand better buildings.

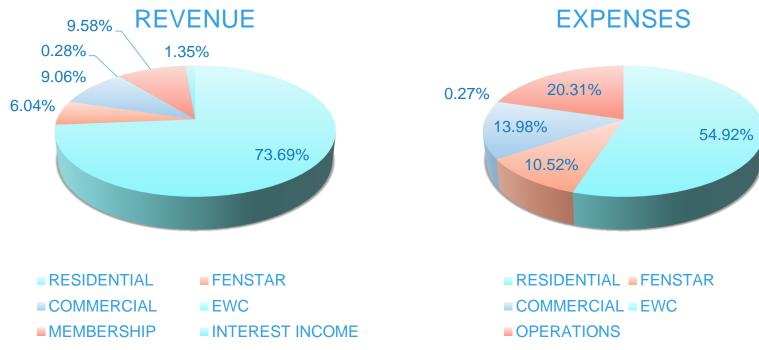


Financial Report



NFRC is a financially healthy organization.

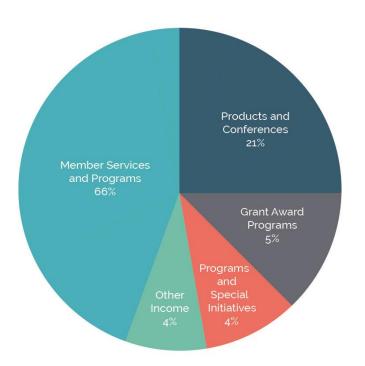
Financials



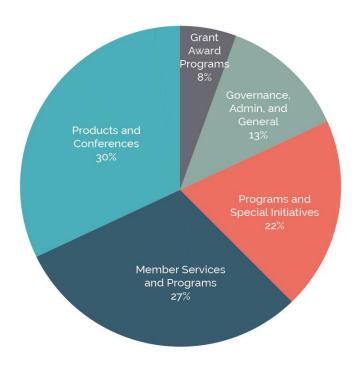


Financials

OPERATING REVENUE



OPERATING EXPENSES





Corporate Capabilities

The National Fenestration Rating Council (NFRC) is a non-profit, 501 (c)(3) public interest organization that administers the only uniform, independent rating and labeling system for the energy performance of windows, doors, skylights, and attachment products.

The NFRC was founded in 1989 to address concerns that some manufacturers were making unsubstantiated claims about the performance of their window products. In 1992, Congress codified NFRC's role as the nation's organization for rating and labeling the energy performance of fenestration products in the National Energy Policy Act (EPAct).

Since that time, the NFRC has partnered with our stakeholders, including architects, government, and code officials, manufacturers, and homeowners to provide fair, accurate, and reliable energy performance ratings for fenestration systems. Our procedures are referenced in national building codes maintained by the International Energy Conservation Code (IECC), and our ratings are a prerequisite for participation in Energy Star® and other rebate programs.



Core Competencies

Certification Program Development:

- NFRC is a recognized U.S. Environmental Protection Agency (EPA) Certification Body. As such, NFRC verifies data
 and reports products that meet the relevant ENERGY STAR® specifications to the EPA.
- NFRC has 22 years of experience developing and administering third-party certification programs for the residential and commercial markets.

Standards Development:

 NFRC is an American National Standard Institute (ANSI) Accredited Standards Developer (ASD). We develop and administer comparative energy and related rating programs for fenestration products.

Consulting and Testimony:

- NFRC has fenestration industry expertise in the areas of energy codes, standards and testing specifications and
 requirements. NFRC has applied this expertise in the international arena to assist other nations in the harmonization
 of fenestration energy ratings programs.
- NFRC's experts educate the government and other bodies on the value of energy ratings for residential and commercial buildings.

Software Tools, Web and Data Services:



- NFRC leads the way in developing innovative, enterprise-level data tools providing users access to a robust data warehouse of fenestration industry information.
- NFRC also builds and maintains association management software systems and websites for program participants, members, and the public.

Core Competencies

Grants Management:

 NFRC provides a full suite of grants management services for government and private foundation grants including the identification of funding opportunities, proposal development, and project management.

Professional Development and Conference Services:

- NFRC is an approved continuing education course provider for the U.S. Green Building Council (USGBC) and the American Institute of Architects (AIA), offering a comprehensive portfolio of leading-edge training solutions including conferences and workshops that address introductory and expert needs alike
- Our educational opportunities are available to design firms and local and state code agencies and are generally delivered onsite.
- NFRC provides comprehensive event planning and on-site support for industry meetings.

Consumer Education:

- Since 2005, NFRC has been educating consumers about the importance of energy savings by providing informational factsheets, brochures, and articles.
- NFRC designs and maintains educational websites for the public.



Partnerships

NFRC maintains partnerships and collaborations with the following organizations and government bodies: U.S. Department of Energy (DOE); U.S. Environmental Protection Agency (EPA); Lawrence Berkeley National Laboratories (LBNL); American Society for Testing and Materials; American Society of Heating, Refrigeration and Air-Conditioning Engineers; American Institute of Architects; National Institute of Building Sciences; U.S. Green Building Council (LEED); Canadian Standards Association.

Most notably: Since 1989, NFRC's Research Program, in partnership with the U.S. DOE, has invested an estimated \$3 million in fenestration rating research to ensure the most accurate ratings possible. NFRC's International Program - a program designed to harmonize fenestration energy ratings globally – has reached Australia, South Africa, China, India, and Canada. Since 2006, the U.S. DOE and NFRC have invested over \$500,000 in international energy ratings harmonization. NFRC has provided education and training support to LBNL's WINDOW and THERM software, while supporting the software financially (\$200,000 annually) by maintaining its derivative Spectral Data Library.



Organization Data

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