

José Méndez-Andino

EVP & Chief Research and Development Officer



Innovation to Strengthen Core and Provide New Solutions

What you will hear today



Transformative material and process innovation

fueled by a fundamental understanding of our materials, processes and products



Our customercentered innovation

delivers unique product solutions



Proven capabilities and robust innovation process

enables repeatable success and value creation



Innovation Based on Strong Science and Customer Insight

Unique materials, process, and product capabilities create differentiated value

Our Global Team

~450 researchers11 technology centers

Our Focus

Better materials for today, new functionality for tomorrow

Materials and Process

Innovation

Strong science fundamentals create meaningful, defensible positions on product platforms

Industry-Leading Materials/Process

- Glass fibers
- Asphalt coating technology
- Formaldehyde-free binders
- Low-global warming potential blowing agents
- Furnace performance
- Advanced process control technology



Customer-Centered

Product and Systems

Innovation

Human-centered design methodologies deliver winning product innovations with superior functionality and performance

Market-Leading Functionality

- Thermal
- Fire
- Acoustics
- Moisture
- Structural



Transformative Material and Process Innovation

Our fundamental understanding of our materials, processes and products unleash margin enhancement opportunities today and capital-efficient growth into the future



Asphalt Coating Technology

- Innovative performance features and benefits in shingles, underlayments, and specialty asphalt
- Improved network cost and supply advantages through vertical integration and blending capabilities

Material science + vertical integration = cost and performance competitive advantage



PINK Next Gen™ Fiberglas™

- 23% faster installation, less dust, improved indoor comfort and sound reduction.¹
- Improved density efficiency for a lower cost network

New binder + fiber technologies = capital-efficient capacity gains vs. competition



Furnace Life

- Consistent double-digit gains in throughput, asset life and energy efficiency over the last decade
- Lowest energy intensity per pound of insulation glass

Innovative refractory materials + advanced modeling + process controls = increased furnace performance



Customer-Centered Product Innovation Leader

Our material innovations start by leveraging customer insights in combination with our distinctive technical capabilities to deliver solutions unique to Owens Corning – 40+ product launches in 2021



FOAMULAR® NGX

- Low Global Warming Potential blowing agent delivers
 80% reduction in embodied carbon of the product¹
- Excellent market response with strong momentum into 2022

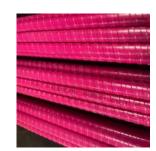
New materials + process change = 1st to market with a customer winning solution



Duration® Series Shingle

- **SureNail**® **technology** improves nail blow-through resistance up to 9x; popular TruDefinition® colors
- Cumulative annual sales growth of 23% over the past 3 years²

Customer knowledge + innovative functionality = differentiated roofing solutions



FIBERGLAS™ Rebar

- Up to 7X lighter than steel improves ease of handling, for labor (50% faster installation) and freight savings³
- Exponential growth in annual sales over past 3 years

Human-centered design + material substitution = functionality that delivers labor savings



- The sustainability profile of FOAMULAR® NGX™ is validated by a third-party verified Environmental Product Declaration and Optimization Report.
- https://dcpd6wotaa0mb.cloudfront.net/mdms/dms/Commercial%20Insulation/10024662/10024662-Foamular-NGX-Product-Announcment-Letter.pdf?v=1611132071000
- Based on average estimates of a conventional 6" thick rectangle slab, \$60 per hour labor rate. Pricing and labor rates can vary by region and fluctuations in the market

Proven Capabilities to Grow Our Core and Expand Our Addressable Markets

Our robust R&D
management systems
allow for repeatable
human-centered
innovation across
product categories and
market segments



Define & Discover

- Gain deep understanding of customer wants and needs in terms of new functionality, performance and overall product experience.
- Scope the innovations needed to **lead the industry** and win in the marketplace



Develop

- Human-centered product and process designs
- Key invention development and Intellectual Property protection



Deliver

- Stage-gate process for initiative qualification and implementation (including TPM Early Management)
- Go-to-market acceleration via strong cross-functional and customer collaborations