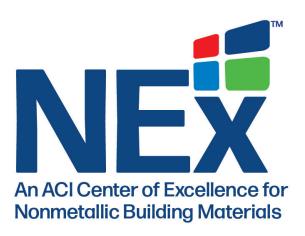


NEx Strategic Plan





OUR FUTURE | VISION

The Center envisions a future where everyone has the knowledge needed to use nonmetallic materials and products (nonmetallics) in the built environment effectively to meet the demands of an evolving world.

NEx envisions becoming a global leader in advancing nonmetallics to enhance sustainability, lower carbon footprint, and improve durability.





OUR BUSINESS | MISSION

Collaborate globally to expand and accelerate the use of nonmetallics in the built environment to drive innovation, research, education, awareness, adoption, and deployment.

OUR PARTNERS | WHO WE SERVE

- Manufacturers of Nonmetallics,
- Material Suppliers,
- Standards Bodies,
- Specifying Agencies,
- Technical Societies/Institutes,

- Universities/Research Centers,
- Training Centers,
- Project Owners,
- Engineers, Designers, Project Specifiers, and
- Construction Companies and Developers.



OUR VALUE PROPOSITION | VALUE ADDED

Center Partners will gain a thorough understanding of the performance of nonmetallics with respect to *improved*:

- Sustainability,
- Carbon footprint,
- Durability,

- Productivity,
- Constructability, and
- Life cycle costs.

CENTER SCOPE

The Center of Excellence will serve as a catalyst for the use of nonmetallics in all construction applications including but not limited to:

- Fiber-reinforced polymer reinforcement,
- Polymer concrete,
- Structural members,
- Construction chemicals,

- Building components and systems,
- Soil and foundation material beneficiation,
- Additive manufacturing, and
- Public and private infrastructure.





OUR STRATEGIC GOALS AND OBJECTIVES

STANDARDS AND SPECIFICATIONS

NEx will identify and facilitate development and adoption of design and construction codes and specifications.

ОUTCOME

The necessary standards and specifications for nonmetallics in construction will be widely available, understood, and utilized.

OBJECTIVES

- NEx will identify areas of need and facilitate the development of standards in the form of building codes; construction specifications; test methods; and material specifications.
- NEx will coordinate with ACI and other standards developing organizations (SDOs) worldwide to assist in the development of needed standards and specifications. The center will assist other SDOs by:
 - Cooperating with existing committees,
 - Identifying gaps in technical knowledge and bringing them to the attention of relevant SDOs,
 - Developing draft standards, test methods, and specifications for consideration by SDOs, and
 - Advocating and supporting the adoption and use of relevant codes and standards by regulatory agencies.

EDUCATION AND TECHNOLOGY TRANSFER

NEx will supply or facilitate the creation of the knowledge needed for designers, contractors, and owners to utilize nonmetallics in their structures.

OUTCOME

The construction community will have the knowledge needed to use nonmetallics effectively.

OBJECTIVES

- Develop technical courses or certificate programs,
- Convene symposiums or participate in other programs for technology transfer,
- Create and distribute publications such as handbooks or guides on the use of specific nonmetallics, and
- Create model curricula and the needed support materials for educational institutions.





QUALITY AND COMPETENCY

NEx will help the industry in assuring the manufacturing quality of nonmetallics and of the competent installation, testing, and inspection of those products.

Оитсоме

Designers, constructors, owners, and the public will view nonmetallics as desirable for a variety of uses in building projects.

OBJECTIVES

- Develop programs to certify/audit manufacturers of nonmetallics, and
- Develop programs to certify personnel who install, test, and inspect nonmetallics.

RESEARCH AND DEVELOPMENT

NEx will support and facilitate research needed for new technologies in nonmetallics to resolve challenges with effective solutions.

ОUTCOME

Development of new materials and products for the construction industry.

Provide standards developers with the information needed to develop comprehensive codes and specifications for various nonmetallics.

OBJECTIVES

- · Identify knowledge gaps requiring research,
- Collaborate with material suppliers, manufacturers, universities, and institutes to support technology and research,
- · Facilitate development of new or more effective products, and
- Understand the environmental impact and provide recommendations.



OUTREACH

NEx will work with material suppliers, manufacturers, designers, owners, government agencies, and standards developers to bring nonmetallics into wider use in construction.

ОUTCOME

Nonmetallics will be recognized as a solution to many types of construction scenarios.

OBJECTIVES

- Conduct awareness workshops,
- Showcase technologies and products,
- Conduct and participate in seminars and conferences,
- Participate in technical committees,
- Develop publications and articles,
- Develop educational and advocacy campaigns,

- Establish relationships with regulatory authorities to advance adoption,
- Engage material suppliers to raise awareness of opportunities in the construction sector, and
- Outreach to academic institutions.







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