NBI is driving energy efficiency and carbon reduction in the building sector.

Program Areas include:
1. Advanced new and existing buildings
2. Continuous code and policy innovation
3. Zero energy leadership and market development
High Performance and Zero Energy in Education

K-12 Schools
Community Colleges
Higher Education
Libraries
Science Centers
Key Findings in School Construction and Retrofit Market Characterization

- Primary driver of decision makers in the school market is **educational outcomes**
- Energy is not necessarily a consideration in overarching planning documents or in operational practices
- Deferred maintenance needs in school facilities are substantial
- Complicated market structure, disaggregated decision making
Importance of High Performance Schools

Students spend approximately 1,000 hours per year in a school.\(^1\) Transforming classrooms into healthy and productive spaces is of the utmost importance, especially when short-term and long-term health of students and staff is at risk.

Non Energy Benefits in High Performance Schools


Source: World GBC
Recommendation: Provide Adequate Ventilation

Fresh Air

Students more **alert** and **focused**.

Students tired, loss of concentration; Increase **respiratory symptoms** and **illness absence**
Benefits of ZNE Schools

- Higher test scores
- Increased average attendance
- Reduced operation costs
- Increased teacher satisfaction and retention
- Reduced liability
- Reduced environmental impacts
- Building as a teaching tool