In 1998, the average public school building in the United States was 42 years old.

**EDUCATIONAL**
- Empower students to affect change in their own school
- Teach all subject areas with an environmental perspective: Ties social, moral, behavioral principles with concrete, real-life examples, promoting learning transfer (e.g. education to environmental activism)
- Increased interdisciplinary studies: understanding interdependence, collaboration, and human symbiosis in all systems: industrial and natural
- Get students to identify their needs, design experiments to test their hypotheses and implement successful strategies school or district-wide

**ARCHITECTURAL**
- **Environmental design** - the practical application of the concepts of interconnectedness, system, and long-term horizons is changing how we think, and how we think about thinking.
- **Let students interact with the façade, change the filter through which they see the world, i.e. manipulate the building envelope**
- **Let the building change over time** - with participatory design, the building is a symbol of school pride

**OPPORTUNITIES**
- Spend a professional development day centered on environmental education: will help identify what tools are needed, what learning environment is most important to the school, what resources are available for environmental education.
- Provide teachers with environmental-education lesson plans that meet curriculum standards
- Selected green programs available from both DeskNet, Alliance to Save Energy, National Energy Education Development, Green Education Foundation

**OUTCOMES**
- **InCREASE DAIght**
- **Light shelf blocks heat**
- **MINOR**
  - Annual energy auditing: facilities managers can use the Operations Report Card to evaluate their school's energy performance
  - Protocols for the Collaborative for High Performance Schools energy rating system
- **MEDIUM**
  - Replace asphalt with green schoolyard
  - Butterfly gardens, vegetable gardens, outdoor classrooms, trails, wildlife corridors
- **MAJOR**
  - Change the school food system, see New York Center for Environmental Teaching, School Lunch Uptake
  - Engage students in the school lunch program with an environmental focus

**POLICY & CURRICULAR**
- Change purchasing policy to favor durable, nontoxic, sustainably harvested, energy efficient products
- Change the school food system, see New York Center for Environmental Teaching, School Lunch Uptake
- Increase the school’s hands-on learning environment

**SCHOOL-WIDE INITIATIVE SCENARIO**
Starting in 1st grade, children will learn the basics: principles of ecology, systems, networks, interdependence. By 3rd grade students will understand the issues and their roles in the system. Students feel empowered to make change and begin to clarify the needs of their specific community. By 4th grade, the class will choose an issue and design a solution. By 5th grade the children are designing experiments to test their hypotheses about the environment and the building. 6th graders speed time building the case/movement for full implementation of a successful school-wide strategy. The time children reach middle school, they will have seen the long-term process of change, and be a part of a multi-level effort. Middle and high schools could propose and test their own designs.

**REGIONAL RESOURCES**
- **CORVALIS SCHOOL DISTRICT, Corvallis, OR**
  - Strategies: Energy efficient, digitally controlled lighting, heating and cooling; program to turn off computers and lights not in use.
  - Projected savings: $1.5 million over 5 years
- **CLACKAMAS HIGH SCHOOL, Clackamas, OR**
  - Strategies: Sustainable systems class at a public high school, hands-on learning to help overcome fear of nature.
  - SEED Silver school building
- **CENTER FOR ECO-LITERACY, Berkeley, CA**
  - Programs to turn off computers and lights not in use.
  - Hosts workshops and conferences for teachers and administrators to get started in environmental programs and starting movements.
- **Eco-Trust TANPA TO SCHOOLS, Portland, OR**
  - Works with schools and farms to incorporate healthy, locally sourced products, nutrition-based curriculum; experiential learning

**POSTER REFERENCES**