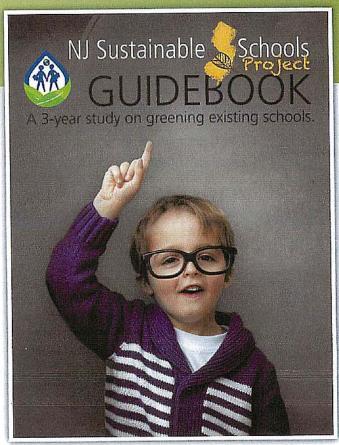
A Guidebook for Going Green NJ Sustainable Schools

The final report of the New Jersey Sustainable Schools Project charts the successes and challenges of sustainability

BY JOHN HENRY AND MARIANNE LEONE



Sustainability hasn't traditionally been a top concern for school officials. School budgets, the 2 percent tax levy cap, student achievement, curriculum issues, the health and safety of students – these are the types of matters that many board members and school administrators tend to become immersed in.

But sustainability ties in to all of these issues. Sustainability initiatives in schools have the potential to lower district operational costs; those savings can then be redirected back into the classroom toward activities related to student achievement. Sustainability can tie into curriculum, and help students better understand science, technology, engineering, mathematics, and a host of different subjects. And sustainability initiatives – such as a school with better air quality – can improve the health of students, and help decrease student absences. All of these types of initiatives lead to more effective teaching and learning.

When approaching the analysis with an open mind, it becomes clear: Greening schools might be the most cost-effective path toward improving school performance. In fact, it might be the only educational-achievementenhancing path that is also "profitable" (due to energy and operational cost benefits) even without considering the secondary (job creation, student/ teacher health) and tertiary (pollution levels, capacity building for energy efficiency and other "green" across the country) benefits. Adam Siegel, management consultant and environmental blogger

There have long been New Jersey districts and schools that have engaged in innovative projects to advance sustainability. But such efforts were scattered and largely unknown.

Enter the New Jersey Sustainable Schools Project (NJSSP). In 2011, the New Jersey School Boards Association (NJSBA) helped begin the program with the idea of documenting the impact that sustainability has on schools, capturing the process for implementing sustainable practices, and providing the results to school districts throughout the state. The idea was to enable other districts to replicate those sustainability practices.

That same year, NJSBA also began sustainability training for school board members to learn how to integrate sustainability in school operations such as finance, operations and maintenance, curriculum, policy and other areas.

Eleven districts participated in the NJSSP, volunteering to share their sustainability practices, undergo additional training and professional development in the topic, and provide data and insights to the NJSSP team. The participating It is important to me to make my school green. If we start cleaning up our school, others might follow. If other schools start to follow, then maybe we can convince towns or villages, townships or cities! This would make me happy! Mia Gowran, Grade 4

districts included Allamuchy, Cherry Hill (High School West), Highland Park, Holland Township, Medford, Neptune Township (Gables Elementary School), North Brunswick, Ogdensburg, Plumsted, Swedesboro-Woolwich, and West Orange.

Each district passed a board resolution and designated a team leader who served as the point person to collect information, participate in professional development, report findings to project managers and other districts, and work with an evaluator for pre-and post-interviews.

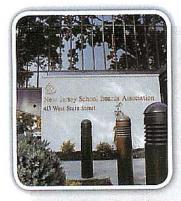
Initial training emphasized the importance of collaboration and the need for district leadership to communicate within the school to the respective green team being formed. This was valuable because it demonstrated a broad range of activities and strategies that were considered significant for the school district.

John Henry, the NJSSP director, and Kara Angotti, the manager, conducted site visits to the pilot districts and gathered data related to operating costs, student achievement and governance, and, with the district team leader, explored strategies for continued district progress toward measurable goals.

In late October, at Workshop 2015, NJSBA unveiled the final report of the New Jersey Sustainable Schools Project (NJSSP). The complete guidebook is available on the NJSBA website in PDF format at the sustainability webpage at www. njsba.org/sustainability/. (To view the report, select the guidebook link from the "Related Content" area on the left side of the page.)

General Observations Implementing sustainability is not a one-size-fits-all process. Data from multiple schools - urban, suburban and rural - was needed to accurately capture the variety of methods that were successful as well as those that did not work. Success stories, as well as reports about challenges, were key components of the NJSSP.

The program guidebook has detailed profiles of each school's practices. Here are some highlights: Medford Township Public Schools (MTPS)



NJSBA's Sustainability Efforts

For NJSBA, sustainability starts at home. The New Jersey Sustainable Schools Project (NJSSP) prompted the Association to embark on a number of "green" projects at NJSBA

headquarters. The projects ranged from reducing the amount of paper use and forming a green team consisting of NJSBA staff members, to pursuing Leadership in Energy and Environmental Design (LEED) certification for NJSBA headquarters from the U.S. Green Building Council, and creating a more sustainable workplace.

Under the NJSSP, NJSBA developed sustainability-focused board member academy training for members, established an iSTEAM and Green Command Center at the annual Workshop, worked with the New Jersey Department of Education to manage the Green Program of Study for grades 9-12, had a "green fellow" from the U.S. Green Building Council who worked with school districts and the Association on sustainability initiatives, hired a full-time iSTEAM and sustainable schools specialist and partnered with Sustainable Jersey to establish the highly successful Sustainable Jersey for Schools certification program.

is on track this year to surpass its goal of reducing energy costs by 5 percent through various conservation measures. For the 2010-2011 school year MTPS's electric and natural gas spending was \$940,181. Last year, 2014-2015, MTPS's energy spending was \$792,094. This represents a 16 percent reduction in gas, electric and natural gas costs. MTPS has saved roughly \$592,000 over the past six years. District spending on energy was lower in 2014-2015 than it had been a decade earlier. Since 1998 the district biodiesel use has reduced busing fleet operating expenses by roughly \$170,000.

Swedesboro-Woolwich estimates it has saved \$17,000 by going "paperless" and making the district newsletter and various flyers available electronically.

In some districts, the sustainability initiatives have been geared to improving the health of students – a factor that has a documented impact on

NJ Sustainable Schools Project pilot program has been instrumental in helping school leaders understand the monetary, environmental and educational values that green schools provide. The 11 pilot districts and schools that participated in this program have demonstrated leadership by adopting new policies, environmental curriculum standards and efficient operations and maintenance practices. The measurable success of the districts participating in the program has been a springboard to the formation of the new statewide Sustainable Jersey for Schools program. Donna Drewes, Sustainable Jersey for Schools

student achievement. At the Gables Elementary School in Neptune Township, officials are taking steps to improve indoor air quality by upgrading to HEPA (high-efficiency particulate absorption) air filters, replacing carpet and applying low-VOC (volatile organic compound) paint that is routinely used. The school is tracking student asthma incidence by looking at the distribution of nebulizers and inhalers from the nurse to quantify and document the decrease in asthma incidences.

In Allamuchy, a district school redirected cafeteria waste. The composted food waste is used in the school garden, presenting the district with a double bonus – the school doesn't buy fertilizer for the garden and it pays less in tipping fees to get rid of its garbage. The district saved money and also engaged students in experiential hands-on learning.

The NJSSP project team understood that the pilot schools had good intentions to become sustainable, and was well aware that changing behavior in an organization and documenting those changes is not always easy. However, getting to change requires data and positive outcomes that can be replicated, and as always, a dedicated group of green champions willing to commit to becoming a sustainable school. It requires an understanding of the short and long-term benefits for strategically implementing sustainability measures that are unique to the culture of the school and the community, and a clear understanding of the importance of identifying measurable objectives that are realistic and achievable. Another point of importance was to report obstacles so other schools can avoid taking the same actions and wasting time and resources.

Recommendations for Action While each school is different, the NJSSP team recommended sev-

Change is difficult in any dose. Change in behavior is especially difficult. My advice is to never take things personally. So I suggest that you broadcast the change desired through videos, posters, actions, reminders, contests, and anything else that may cause a spark. Be conscious of others and what sits on their plates. Always be respectful. Amy Rafano. teacher and team leader. North Brunswick Public



Not sure where to start – or how to make progress – on your school or your district's sustainability journey? NJSBA has created a new service, the Sustainable Practices Working Session, that is designed to guide a school or district in implementing sustainable practices.

The service, free to NJSBA members, provides a school or district with a "wellness check," assessing its sustainability status and assisting in setting goals. The wellness check will also help schools in registering for, or continuing certification efforts with, the Sustainable Jersey for Schools certification program.

There are currently several one-day Sustainable Practices Working Sessions planned for winter 2016, including programs on Feb. 26, March 11 and March 25.

The sessions will be conducted by John Henry, NJSBA's STEAM and sustainable schools specialist; Jason Kliwinski, director of sustainable design for Parette Somjen Architects, and founder and chief executive officer of the Green Building Center; and Marianne Leone, sustainability consultant.

The sessions are free to NJSBA members, although pre-registration is required. Registration links can be found at www.njsba.org/sustainability.

Sustainable strategies rely on the tenets of collaboration and problem solving. These same tenets provide the foundation used by all high performing districts. Joe Biluck, Jr., team leader and director of operations for Medford Township School District

eral actions that support sustainable practices in schools. Among the suggestions:

- · Provide guidance through policy development in areas such as: professional development for stakeholders involved in the daily operation of the school; physical plant and operations; fiscal and business management for energy procurement, conservation and efficient systems, waste management, water conservation and green purchasing; and others;
- Create a schoolwide green team consisting of teachers, facility directors, students, board members, parents, business and industry

It's important to take care of things that take care of you. "Little things can have a big impact." Keina Amora, Grade 12

members, associations, and government agency representatives;

- Use school buildings and grounds as teaching tools to apply real-world learning and curriculum standards to achieve academic goals for all students;
- Approve professional development for staff aligned to the district sustainability goals;
- Inform the public about the school's and the district's sustainability programs and how they will impact students and the community financially and environmentally; and
- Register for Sustainable Jersey for Schools.

Next Steps As an immediate next step following the conclusion of the NJSSP, NJSBA has created an opportunity for each member school's sustainability practices to be assessed.

NJSBA is offering members and school district personnel an opportunity to attend a one-day Sustainable Practices Working Session. In this session participants will review a Sustainability Wellness Check, which will be in alignment with the Sustainable Jersey for Schools certification program.

There are several sessions planned for February and March. All sessions will take place at the NISBA headquarters at 413 West State Street, Trenton. The sessions will run from 9:30 a.m. -3:30 p.m. with registration beginning at 9 a.m. The sessions are free and include a continental breakfast, lunch, and program materials. Pre-registration is required and seats are limited. Districts are encouraged to send their entire green teams. To register for a session, go to www.njsba.org/sustainability and select a program date.

Following the Sustainable Practices Working Session, member schools and districts will have the opportunity to dig in deeper and contract with NJSBA sustainability specialist and experts from sustainable industries to achieve the goals identified from the working session.

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