



## Sustainable Jersey for Schools Certification Report

This is the Sustainable Jersey for Schools Certification Report of Delran High School (Burlington), a Sustainable Jersey for Schools bronze certified applicant.

Delran High School has morphed two clubs, the Environmental Club and the Horticulture Club, in the 2015-2016 school year into a highly functioning Green Team. The work of the newly developed team, Jennifer DiCesare and Aaron Fiordimondo, have been working towards the tenants of People, Planet and Practices for many years, both in the classroom and with their students. Jennifer, an art teacher, and Aaron, a biology and horticulture teacher, have been working towards curricular endeavors for many years. This fall, the students were trained in the Sustainable Jersey for Schools process and have begun working on Google Docs and actions in order to attain bronze level certification in the 2016-2017 cycle.

### Contact Information

The designated Sustainable Jersey for Schools contact for Delran High School (Burlington) is:

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### Actions Implemented

Each approved action and supporting documentation for which Delran High School (Burlington) was approved for in 2016 appears below. Note: Standards for the actions below may have changed and the documentation listed may no longer satisfy requirements for that action. Additionally, points associated with actions prior to 2013 certifications may not be accurate.

#### Board Leadership & Planning

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##### School District Foundation

10 Points

School District

**Program Summary:** The Delran Education Foundation, Inc., a 501(c)(3) nonprofit corporation, was formed early in 2015 with the support of the Delran Board of Education and the district's superintendent, Dr. Brian Brotschul. Their website can be found at [www.delranedfoundation.org](http://www.delranedfoundation.org) (Although the Foundation has the district's support, they operate independently.) The Foundation was modeled after other local education foundations, such as the Medford Education Foundation, the Moorestown Education Foundation and the Mount Laurel Public Education Fund, all of which have provided significant financial support to their respective districts. Since New Jersey schools face constant funding challenges and operating costs are increasing rapidly, government our funding is decreasing. With such tight resources, school districts are often unable to fund the kinds of innovative programs that would develop and enhance skills necessary for success in the 21st century. In order to combat these financial strains, the Foundation raises money from local businesses, corporate sponsors, parents, alumni, and other supporters throughout the community. These contributions are used to support educationally sound, cutting-edge programs designed to better prepare Delran students for the rapidly-changing world. One of the main initiatives of the foundation is to support our programs in sustainability and STEAM initiatives. See the following links for more evidence of our working foundation: <https://drive.google.com/a/delranschools.org/file/d/0B1Mw45jd9ZatcmtXRnRoMFhkbjA/view?usp=sharing> <http://www.delranedfoundation.org/casino-night/> <https://drive.google.com/a/delranschools.org/file/d/0B1Mw45jd9ZatMGdNS09HYWhoa28/view?usp=sharing> In March, the DEF granted \$200 to complete the purchase of 1,800 plant plugs for Millbridge Elementary School's Earth Day Festival/Rain Garden Installation project called Rain Gardens for Recess Too (an addition to the \$10,000 Sustainable Jersey for Schools grant win). The check- <https://drive.google.com/file/d/0B1Mw45jd9ZatUHEwdzZjd2RUYzQ/view?usp=sharing> Email from the Superintendent of Schools to the President of the DEF making the request-

<https://drive.google.com/file/d/0B1Mw45jd9ZatTVE4dk9XM2pDMmc/view?usp=sharing>

PDF: [DELTRAN EDUCATION FOUNDATION GRANT APPLICATION](#)

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## Energy Efficiency

### Energy Audit

20 Points

 Bronze Priority  Silver Priority School

**Program Summary:** The implementation of this action has been ongoing for some time. From results of an energy audit conducted in 2009 all buildings in the district say significant energy reductions. See the results of the DomeTech Energy Audit, EUI Documentation and EUI Calculations for all four of the Delran Township Public Schools at the following links:

<https://drive.google.com/file/d/0B1Mw45jd9ZatUktYWDJpTUw2Tzg/view?usp=sharing>

<https://drive.google.com/file/d/0B1Mw45jd9ZatQmY3NWlpeWg3OUk/view?usp=sharing>

PDF: [ENERGY AUDIT DOCUMENTATION](#)

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### Building Efficiency Measures

30 Points

 Bronze Priority  Silver Priority School

**Program Summary:** Delran has implemented many Building Efficiency Measures over the years: In 2008-2009, The District installed new lighting fixtures and motion sensors at DHS and District-wide. This is shown in the documentation, and included incentives from the NJ Clean Energy Program. The pre-EUI measurement was from 2008-2009, and the post EUI is in the DomeTech audit. The energy savings calculated for DHS was 31%! The first attached document shows these calculated figures. The two audits documented can be found in the second attachment. In the late winter of 2015, our Business Administrator took the results of the energy audit to identify areas that purchasing could enhance our costs. He identified that all electric appliance, including our photocopiers, computers and vending machines were electricity hogs. As a result, all appliances, either purchased or leased must have the Energy Star seal of performance. In addition, Dr. Russo has researched and requested a quote on an appliance that can be attached to snack and vending machines that can reduce ghost energy consumption. Dr. Russo has proposed to purchase these items for all snack and vending machines in the district. As a member of The New Jersey School Boards Association, he has worked closely with other Business Administrators in the State of NJ to adopt energy efficient practices. The NJSBA adopted ACES, which was their chosen consortium. ACES was supposed to be an incentive to save electricity through the NJSB's bulk purchasing option. ACES chose Direct Energy to be the consortium's energy provider. Since May 2013, our school district has been using ACES. The contract ends in May 2015. From that point on, Delran and other members of the NJSBA have bid out. We have chosen to work with Schneider Electric, because we've been unhappy with the performance and cost savings that we believed ACES guaranteed. Shared Services with Medford Township Public Schools - We have made a resolution for shared services with Medford, NJ. Medford went to bid, and Schneider won the bid for procurement of energy including bill pay analysis, so they will obtain the energy by reviewing our bills for cost and seek ways for saving energy by reviewing all of our systems. This generates the highest level of internal auditing possible. The timeline for starting this work is July 1, 2015. Based upon the results of the Dome-Tech energy audit, the District has chosen to move forward with an Energy Savings Improvement Program (ESIP). On July 28, 2015, the District issued an RFP to select an Energy Services Company to fully develop and implement the ESIP. The Board approved Schneider Electric as is provider of the Power Purchasing Agreement. It is anticipated that this work will be completed by the Fall of 2016, and will include many energy conservation measures such as lighting upgrades, motion sensors, upgraded building management systems, building weatherization, plug load control devices, and solar power installations.

PDF: [BUILDING EFFICIENCY MEASURES DOCUMENTATION](#)

PDF: [BUILDING EFFICIENCY MEASURES DOCUMENTATION](#)

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PDF: [BUILDING EFFICIENCY MEASURES DOCUMENTATION](#)

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### Energy Tracking & Management

10 Points

School District

**Program Summary:** Delran Township Board of Education has embarked on an ambitious energy savings improvement program

(ESIP) to reduce energy costs, address key capital improvements, and improve the learning environment. Superintendent of Schools, Dr. Brian Brotschul, notified the public of the evaluation of the program and how the contract was awarded in the following Word Press Blog: <https://bbrotschul.wordpress.com/2015/10/08/great-news-from-the-business-operations-committee-of-the-board/> Schneider Electric was chosen to run the ESIP program including a Power Purchasing Agreement to include improvements such as mechanical and HVAC upgrades, building management systems and improvements to occupant comfort, lighting upgrades, a solar power purchase agreement, water conservation measures, and more. The purpose of this document is to facilitate a brainstorming session on how to A) improve the District's image by marketing to key stakeholders, and B) how to make a positive impact on students through the partnership between Delran Township BOE and Schneider Electric.

**PDF: [ENERGY TRACKING & MANAGEMENT DOCUMENTATION](#)**

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**PDF: [ENERGY TRACKING & MANAGEMENT DOCUMENTATION](#)**

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## Sustainable Energy Transition Plan

20 Points

School District

**Program Summary:** Over the past 12 months, Delran Township School District has undergone a comprehensive Energy Efficiency and Sustainability planning process. In 2013, the LGEA was completed with Dome-Tech. In February 2015, the District began looking into an Energy Savings Improvement Program (ESIP). A Sustainable Energy Transition Plan, or Business Case, was developed. The District then issued an RFP and selected Schneider Electric to fully develop and implement the plan. This plan will make use of various NJCEP funds, and will incorporate more than 70% of the ECMs noted in the LGEA, with additional ECMs included that were not uncovered during the LGEA. Please see the attached SETP and ESIP Award Notice, signifying that this plan will not only be completed but fully implemented within the next 12 months. The following Docs serve as evidence of the Sustainable Energy Transition Plan: <https://drive.google.com/a/delranschools.org/file/d/0B1Mw45jd9ZataZxamRYMjN1eGs/view?usp=sharing> <https://drive.google.com/a/delranschools.org/file/d/0B1Mw45jd9ZatZTA1b1JiQkQxZXM/view?usp=sharing> <https://drive.google.com/file/d/0B1Mw45jd9ZatUktYWDjpTUw2Tzg/view?usp=sharing> <https://drive.google.com/a/delranschools.org/file/d/0B1Mw45jd9ZatQmY3NWlpeWg3OUk/view?usp=sharing> Finally, both district administration and Schneider Electric meet regularly to conference and convene on the district's needs and plans for energy savings and student learning. <https://docs.google.com/document/d/1R3GMBIq-fNkcodL74SbP4glxJB7a98NQvg-nocFjiE/edit?usp=sharing> [https://docs.google.com/document/d/1KhL0f\\_wKCXfcxqtS55mmy\\_8KPOMVB7yBZAIHOE21hio/edit](https://docs.google.com/document/d/1KhL0f_wKCXfcxqtS55mmy_8KPOMVB7yBZAIHOE21hio/edit)

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## Food & Nutrition

### School Gardens

10 Points

School

**Program Summary:** Delran High School was blessed to pass a referendum to build a state of the art science wing in 2012. This included a biotechnology facility and high tech green house. The green house is currently staffed by a full time Delran High School teacher, Aaron Fiordimondo. He is the teacher of Horticulture and the DHS Green Team co-advisor for 2015-2016. His work can be viewed through his growth Google document, where students are tracking the growth of plants through a collaborative platform.

[https://docs.google.com/spreadsheets/d/1rtGW\\_k7MwyAogtF4hjdqSIBGQhLwm7smMohFMGhaM0w/edit#gid=0](https://docs.google.com/spreadsheets/d/1rtGW_k7MwyAogtF4hjdqSIBGQhLwm7smMohFMGhaM0w/edit#gid=0) Additionally, the Green Team at Millbridge has taken field trips to the facility to learn from the high school students about the projects and tools that are used in a sustainable green house (worm composting, rotating composting, watering systems and climate zones). See the images of one of these sessions:

[https://drive.google.com/a/delranschools.org/file/d/1TDIMHS5TeVe5u52xKgB\\_Ce1lwHuwowyLRw/view?usp=sharing](https://drive.google.com/a/delranschools.org/file/d/1TDIMHS5TeVe5u52xKgB_Ce1lwHuwowyLRw/view?usp=sharing)

<https://drive.google.com/file/d/1Le-hTHUCXJuTTaRCJnNfUhbRljmuf1y28A/view?usp=sharing>

<https://drive.google.com/a/delranschools.org/file/d/1Dcf7Epmj3DCmo0awWJAMkQGubHReXTmLnG/view?usp=sharing>

<https://drive.google.com/file/d/1mgJ4gZU0N1gKdUeylklDTkYv5fTs8FIKrQ/view?usp=sharing>

<https://drive.google.com/file/d/1fA9XWHsUD5UeSDm0qrb--ErqITf8MXGUKA/view?usp=sharing>

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## Green Cleaning

## Green Cleaning Supplies

10 Points

School District

**Program Summary:** Delran Township Public Schools and T.U.C.S Cleaning services began their service contract for the 2015-2016 school year. The details of the contract specified Green Cleaning Supplies as a requirement for the bid to be accepted. The RFP included Custodial and Black Seal Operator Services to ensure proper training and protocols. T.U.C.S servicing contract outlines management, custodial operations, Green equipment and a Green Cleaning Program which utilizes products that are non-toxic, biodegradable and made from renewable resources. Most importantly, these products are effective, in addition to the benefits of being environmentally safe. The Ecolab product line consists of the following Green Seal Certified chemicals: ES64C (an EPA Registered Neutral Disinfectant Cleaner for hard surfaces); Solution 75, Solution 84 (pH neutral floor cleaner) and Bio-Active Cleaner ES920.

PDF: [GREEN CLEANING SUPPLIES DOCUMENTATION](#)

PDF: [GREEN CLEANING SUPPLIES DOCUMENTATION](#)

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## Green Cleaning Equipment

10 Points

School District

**Program Summary:** Delran Township Public Schools and T.U.C.S Cleaning services began their service contract for the 2015-2016 school year. The details of the contract specified Green Cleaning Supplies as a requirement for the bid to be accepted. The RFP included Custodial and Black Seal Operator Services to ensure proper training and protocols. T.U.C.S servicing contract outlines management, custodial operations, Green equipment utilized includes the attached list of scrubbers, vacuums and extractors. The T.U.C.S Green Cleaning Program utilizes products that are non-toxic, biodegradable and made from renewable resources, as well as microfiber systems and powdered equipment that capture and/or collects particulates while operating at a sound level of less than 70dBA. The custodial staff inspect the dust bag every two hours and replace the bag when full to ensure proper dust collection and removal. Auto scrubbers limit worker exposure to chemicals and the green solutions used by the staff are non-toxic and non-corrosive. Most importantly, these products are effective, in addition to the benefits of being environmentally safe. The Green Cleaning Equipment includes: the Advance EcoFlex system floor scrubber model SC750 REV, Tennant Floor Machine FM-17SS, Tennant Upright Vacuum V-SMU-14, Nobles Dry/Wet Vacuum V-WD-15 and 16B, and the Tennant Self-Contained Extractor EX-SC-412

PDF: [GREEN CLEANING EQUIPMENT DOCUMENTATION](#)

PDF: [GREEN CLEANING EQUIPMENT DOCUMENTATION](#)

PDF: [GREEN CLEANING EQUIPMENT DOCUMENTATION](#)

## Healthy School Environments

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### Classroom Chemical Purchase, Storage & Disposal Policy

15 Points

School District

**Program Summary:** Coastal Environmental Compliance, LLC is an Environmental Consulting Firm that has helped Delran Township Public Schools maintain compliance with environmental regulations since 2003. Their environmental consulting, industrial hygiene and health and safety trainings and inventories have helped our district meet and maintain today's environmental and health and safety compliance standards. Coastal maintains a record of our Chemical Hygiene Plan for all materials used in the district, including in our four buildings. At this time, Millbridge Elementary does not use any hazardous materials which are in need of disposal. However, a Right to Know fact sheet is provided by Coastal along with the most current standards. Each building's binder with Emergency contacts (also in every science room, nurse's office and transportation building). In addition, the school district has a board policy #7420, for their Hygienic Management Plan, which is available to the public: <http://www.delranschools.org/common/pages/DisplayFile.aspx?itemId=4496505> The Chemical Hygiene Plan and associated documents can be found on the District Homepage (Parent/Community section) or under Millbridge's page (Under Parent/Green Team Information) [http://www.delranschools.org/UserFiles/Servers/Server\\_3013589/File/JoelDeanley/Delran%20HS%20MS%20CHP%202014%20pdf.pdf](http://www.delranschools.org/UserFiles/Servers/Server_3013589/File/JoelDeanley/Delran%20HS%20MS%20CHP%202014%20pdf.pdf) The district has purchased no hazardous waste, nor removed any hazardous waste in the past 12 months. Additionally, all purchased chemical storage containers are up to date, but there is no documentation of their purchase available. Coastal Management ensures that the high school and middle school are in compliance of all laws in proper storage and disposal of chemicals. Our weblink to the Chemical Hygiene Plan: [http://www.delranschools.org/UserFiles/Servers/Server\\_3013589/File/JoelDeanley/Delran%20HS%20MS%20CHP%202014%20pdf.pdf](http://www.delranschools.org/UserFiles/Servers/Server_3013589/File/JoelDeanley/Delran%20HS%20MS%20CHP%202014%20pdf.pdf)

PDF: [CLASSROOM CHEMICAL PURCHASE, STORAGE & DISPOSAL POLICY DOCUMENTATION](#)

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PDF: [CLASSROOM CHEMICAL PURCHASE, STORAGE & DISPOSAL POLICY DOCUMENTATION](#)

## Student & Community Outreach

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### Green Team

10 Points

 Bronze Required School District

**Program Summary:** The Green Team was created through a reorganization of two of our high school clubs into one defined team, working towards the tenant of sustainability. The Horticulture Club and Environmental Club morphed into one team, under the direction of district and union leadership. The two advisors were approved through the contract process to act as Green Team leaders at DHS. The teachers and district administration worked to teach the 9th through 12th grade students on the team how the Sustainable Jersey for Schools program works and how it could guide their ideas through the action documents within the Sustainable Jersey for Schools portal. Their ideas were turned into a Doc in September 2015. Attached are the following documents: Delran Education Association acceptance of Green Team Advisors, DHS Green Team Annual Summary 2015-2016, DHS Green Team Ideas planning document (using the Sustainable Jersey for Schools Actions as a guide), DHS Plant Growth Data Document (from the DHS School Garden), BOE Approval of the DHS Green Team a letter from the DHS Principal, Dan Finkle, certifying the Green Team staff.

PDF: [GREEN TEAM DOCUMENTATION](#)

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PDF: [GREEN TEAM DOCUMENTATION](#)

PDF: [GREEN TEAM DOCUMENTATION](#)

PDF: [GREEN TEAM DOCUMENTATION](#)

### Green Challenges

10 Points

School

**Program Summary:** The Delran High School and Millbridge Elementary School Green Teams have been collaborating on a program to impact the school and local community. The program was created through the Philadelphia Zoo, and is called the UNLESS Project (as in the children's story The Lorax). This year, the Contest focuses on the impact that our paper usage has on climate change and how that relates to the decline of Red Pandas. The goal of the contest is to demonstrate a measurable decrease of the amount of paper used at home, at school, or in the community by changing our behaviors and committing to reduce the amount of junk mail we receive. Evidence of the UNLESS project actions such as email between district administration in Delran, a presentation at the Public January, 2016 Board of Education Meeting, BOE minutes of our presentation on page 2 Item 8C, a video of the presentation to the BOE, pictures of the district administration, Green Team advisors and students presenting to the public gathering, Twitter feed from the night, ReTweet by the Burlington County Times can be found at: The attachments of the work completed by DHS and Millbridge Elementary School Green Teams include: The entire planning document (Go to page 3 of the Doc), the Student Google presentation of slides, and the DHS staff pledge. The BOE video of the Presentation can be viewed at the following link:

<https://drive.google.com/a/delranschools.org/file/d/0B9RC2ubQgOaCcWxxSFIFaHJqMjg/view?ts=56954412> In addition, to get the word out to the community about our efforts, after the ceremonies at the Zoo, there were Tweets and Re-Tweets:

<https://drive.google.com/a/delranschools.org/file/d/0B1Mw45jd9ZatMGpER0IyaFcwWmM/view> The UNLESS Project closed, and both Delran High School and Millbridge Elementary School have been chosen as finalists for this award. See the DHS Annual Summary pages 2-4 for the teams outreach and notification of winning a trip to the zoo for the awards ceremony. The ceremony took place on May 16, 2016. Millbridge Elementary was awarded 2nd place and won \$750 for their sustainability efforts. Delran High School was awarded 3rd place and won \$250.

PDF: [SUPPORTING LINKS](#)

PDF: [UNLESS DOCUMENTATION](#)

IMAGE: [CHALLENGE EMAIL](#)

IMAGE: [TWEET 2](#)

IMAGE: [TWEET](#)

### Recycling Non-Mandated Materials

10 Points

School

**Program Summary:** In 2012-2013, the Athletic Trainer for DHS decided to do something about the used sneakers that were being left behind by students in the gymnasium lockers at the end of the school year. He found a company, Community Recycling (<http://www.communityrecycling.biz/programs/shoebbox-recycling>) that would take the donated sneakers, to be reused in other parts of the world. He signed up DHS as a contributing member. They sent multiple ShoeBox Recycling collection boxes. Dave let everyone know about the fundraiser through emails and announcements to the 880 students and staff at DHS. Students and staff started filling the ShoeBox Recycling boxes. With a downloadable UPS sticker, Dave then sent the recycled shoes to the company. These shoes have found a new home somewhere around the world. The attached pdf is a spreadsheet of the pounds of shoes donated, and the amount of money that has been given back to DHS for those shoes, promotion materials used by the school and contact information to implement the program with fidelity.

**PDF:** [RECYCLING NON-MANDATED MATERIALS DOCUMENTATION](#)

**PDF:** [RECYCLING NON-MANDATED MATERIALS DOCUMENTATION](#)

**PDF:** [RECYCLING NON-MANDATED MATERIALS DOCUMENTATION](#)