



Sustainable Jersey for Schools Certification Report

This is the Sustainable Jersey for Schools Certification Report of Long Branch Middle School (Monmouth), a Sustainable Jersey for Schools silver certified applicant.

Long Branch Middle School (Monmouth) was certified on August 18, 2017 with 355 points. Listed below is information regarding Long Branch Middle School (Monmouth)'s Sustainable Jersey for Schools efforts and materials associated with the applicant's certified actions.

Contact Information

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Actions Implemented

Each approved action and supporting documentation for which Long Branch Middle School (Monmouth) was approved for in 2017 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

Professional Development for Sustainability

5 Points

🏅 Bronze Priority 🏅 Silver Priority School District

Program Summary: This year Long Branch was privileged to send teachers, and administrators

to a 6 hour training for Sustainable Jersey Schools! The session were held in December and January by NJASBO in their Trenton offices. On Day 1, we sent 6 participants, and Day 2 we sent 7 participants. We also have two board members attend training at the school boards convention in Atlantic City along with the School Business Administrator. Of course, Dr. Salvatore, the Superintendent of Schools was part of the presentation, which made it easy to get board members to attend! We are also enrolling 2 board members for online courses to become Green certified this year! We also have two schools enrolled in Power Save Schools this year - and we had 8 people attend that training as well. Our Physical Education Supervisor attend a week long conference in Boston focused on Physical Education and students movement. Finally, we had the Business Administrator attended several classes at NJASBO convention last fall. There are many other examples of sustainable Professional Development, but these are the examples we were able to document easily.

EXCEL: [PROFESSIONAL DEVELOPMENT SUMMARY](#)

PDF: [POWER SAVE INFO](#)

PDF: [SHAPE PHYSICAL EDUCATION CONFERENCE](#)

IMAGE: [NJSBA TRAINING TWEET](#)

District Sustainability Policy

10 Points

District

Program Summary: The Long Branch Public Schools embarked on an environmental and sustainability change over three years ago when we started our Energy Management program. Since then we have installed solar panels on 8 schools and implemented green initiatives district wide. Our policy includes our desire to conduct operations and make decisions with identified sustainability priorities that include, as a minimum: protecting students, staff, and community from environmental harm; preparing students for the future by educating for sustainability (knowledge of concepts and practices of environmental, social, and economic responsibility and sustainability); and intent to preserve current and future resources. All District policies are posted on the school website in a searchable database providing access to all staff and the community.

WORD: [DISTRICT SUSTAINABILITY POLICY DOCUMENTATION](#)

WORD: [SUSTAINABILITY POLICY WEBSITE SEARCH](#)

: [WAVE SAFETY BULLETIN](#)

PDF: [OCTOBER BULLETIN ANNOUNCING POLICY](#)

Climate Mitigation & Renewable Energy

School Carbon Footprint

10 Points

 Bronze Priority School District

Program Summary: Long Branch School District uses EnergyCAP to track and manage electricity, natural gas, and water usage. Scope 1 emissions from combustion of natural gas as well as Scope 2 emissions from purchased electricity were gathered from the EnergyCAP system.

Mileage data for each vehicle in the fleet was collected. It was then converted to gallons of fuel consumed using the Fuel Economy Factors provided by GHG Protocol (a project of the World Resources Institute). The resulting value, representative of fuel consumed by the entire district's fleet, was allocated to each school according to known values of students who ride the bus from each school. All calculations were based on July 1, 2013 - June 30, 2014 fiscal year.

EXCEL: [SCHOOL CARBON FOOTPRINT DOCUMENTATION](#)

EXCEL: [SCHOOL CARBON FOOTPRINT DOCUMENTATION](#)

Onsite Renewable Generation System - Geothermal

10 Points

School

Program Summary: The Long Branch Middle School was built by the NJ School Construction Corporation (now known as the NJ School Development Authority) in 2005. The Geothermal system is the source of all the HVAC equipment for a building approximately 246,000 sf. The geothermal well field consists of 368 wells located under the Varsity Baseball field located next to the building. GEOTHERMAL INFORMATION Number of Wells 368 Well Depth 500 ft. ea.; (128,000 ft. tot.) Number of Well Circuits - 32 Number of Wells per Circuit 8 Geothermal Pipe Size Well Size (in.) 1-1/4" Branch Size (in.) 3";2" S & R Main Size (in.) 12" Manifold Size (in.) 12" Geothermal Pipe Material Well Pipe: SDR 11 Polyethylene Branch Pipe: SDR 11 Polyethlyene S & R Main Pipe: SDR 11 Polyethylene Manifold Pipe SDR 17 Polyethylene Insulation (Above Grade&in Pit) 3/4" Rubatex R-180-FS Fluid Information Fluid: Environol 2000 (23%) By Wt.) Flow (GPM): 2850 Well Field Press. Drop (ft. HD): Approximately 60 Maximum Entering Water Temp. 100°F Insulation (Above Grade&in Pit) 3/4" Rubatex R-180-FS Minimum Entering Water Temp. 30°F

: [ONSITE RENEWABLE GENERATION SYSTEM - GEOTHERMAL DOCUMENTATION](#)

IMAGE: [ONSITE RENEWABLE GENERATION SYSTEM - GEOTHERMAL DOCUMENTATION](#)

IMAGE: [ONSITE RENEWABLE GENERATION SYSTEM - GEOTHERMAL DOCUMENTATION](#)

Onsite Renewable Generation System - Solar

20 Points

School

Program Summary: Long Branch has installed a canopy & fix-tilt, roof mounted 772.920 kWDC photovoltaic (solar) energy generation system, operating exclusively as a Net Metering Photovoltaic Solar Electric Facility (SEF). The rooftop Solar Electric Facility is comprised of one hundred and nine (109) strings each with thirteen (13) Motech MTPVp-235-MS poly-crystalline silicon photovoltaic modules in series with a maximum nominal voltage of 600 VDC. These strings are fed through eleven (11) combiner boxes with 210 amp, 600 volt integrated DC disconnects and to two (2) PVPowered 75kWpme (1) 50 kW and one (1) 100kW PVPowered three-phase 480 VAC inverters. The Canopy Solar Electric Facility is comprised of one hundred and forty-four (144) strings each with thirteen (13) Motech MTPVp-235-MS poly-crystalline silicon photovoltaic modules in series with a maximum nominal voltage of 600 VDC. These strings are fed through fifteen (15) combiner boxes with 210 amp, 600 volt integrated DC disconnects and to two (2) 35 kW and one (1) 75 kW and one 260 kW PVPOwered three-phase 480 VAC inverters. There are eight (8) PVPowered inverter systems. Each inverter system consists of an Inverter Control Switch, a DC Disconnect, a PVPowered inverter, and an AC Disconnect. The three-phase AC output from each inverter is fed through three-phase 480 VAC isolation transformer within the inverter, and

the output is connected to the load side of an existing Customer distribution panel via two (2) 60 amp, one (1) 80 amp, three (3) 125 amp, one (1) 150 amp and one (1) 400 amp, 480 volt AC breakers to one (1) 1200 amp Main breaker and one (1) 1200 amp, 600 volt AC disconnect, fused at 1200 Amps. Power from this new metering system is connected on the Customer side of a JCP&L revenue grade electric meter. .

IMAGE: [ONSITE RENEWABLE GENERATION SYSTEM - SOLAR DOCUMENTATION](#)

PDF: [ONSITE RENEWABLE GENERATION SYSTEM - SOLAR DOCUMENTATION](#)

EXCEL: [ONSITE RENEWABLE GENERATION SYSTEM - SOLAR DOCUMENTATION](#)

IMAGE: [ONSITE RENEWABLE GENERATION SYSTEM - SOLAR DOCUMENTATION](#)

EXCEL: [ONSITE RENEWABLE GENERATION SYSTEM - SOLAR DOCUMENTATION](#)

PDF: [LETTER FROM BUSINESS ADMINISTRATOR](#)

Energy Efficiency

Energy Audit

20 Points

 Bronze Priority  Silver Priority School

Program Summary: Long Branch School District had a Local Government Energy Audit (LGEA) completed by CDM Smith through the New Jersey Clean Energy Program. It included all eight schools as well as the board office. Since then, Long Branch has updated their audit through CDM Smith, the results of which were completed in July of 2015. The recommended ECRMs included in the audit update project savings of 440,315 kWh, 34,864 therms, and \$103,366 in fiscal savings each year. George L. Catrambone Elementary School was not included in either audit because it is a new construction building that has been in use for only a year. All other buildings in the portfolio are included in the audit results.

PDF: [ENERGY AUDIT DOCUMENTATION](#)

EXCEL: [ENERGY AUDIT DOCUMENTATION](#)

Building Efficiency Measures

10 Points

 Bronze Priority  Silver Priority School

Program Summary: Middle School Long Branch Board of Education hired Cenergistic in 2011 to help identify potential savings. We hired a full-time Energy Manager that actively tracks and monitors utility usage at every building. Part of that program includes tracking With EnergyCAP, you can track any energy or non-energy commodity and any type of bill detail. We enter bills manually using bill entry templates. EnergyCAP provides two different views—finances and facilities—so you can view and report both data types separately. EnergyCAP PowerViews and reports provide a clear picture of each account/meter's cost and consumption history for months or years in graphical or tabular format While analyzing the bills, we were able to identify areas for improvement. The Long Branch Middle School demonstrated a 14% energy use reduction, 23% in energy savings, and achieved over \$95,000 annual reduction in energy costs. The school went from almost 176.5 in energy use intensity (EUI) to 151.7 EUI in a three year period. Key changes

included efforts to update and properly uses the school's energy management system (EMS) and promoting simple behavioral changes as such turning lights off when not in use and unplugging appliances. We also updated the schedules for heat and air conditioning. We also found all exhaust fans running 24/7 and fresh air intake was also running throughout the night. Finally, we reduced the temperatures in the hot water loop to also reduce energy costs.

EXCEL: [EUI CALCULATOR](#)

WORD: [LIST OF UPGRADES](#)

Energy Tracking & Management

10 Points

School District

Program Summary: Long Branch Public Schools embarked on a large and successful energy savings program district wide with Cenergistic, Inc nearly 4 years ago. We hired a full-time Energy Manager that actively tracks and monitors utility usage at every building. Part of that program includes tracking With EnergyCAP, you can track any energy or non-energy commodity and any type of bill detail. We enter bills manually using bill entry templates. EnergyCAP provides two different views—finances and facilities—so you can view and report both data types separately. The two data hierarchies are also hyperlinked, which makes it easy to jump between accounts, buildings, and meters. By helping you correlate cost and consumption information, EnergyCAP provides granular and summary level data from both perspectives for powerful analytics that yield actionable insights. EnergyCAP PowerViews and reports provide a clear picture of each account/meter's cost and consumption history for months or years in graphical or tabular format.

IMAGE: [MS ELECTRIC](#)

IMAGE: [MS GAS BILLS](#)

PDF: [ENERGY MANAGEMENT CENERGISTIC CONTRACT](#)

PDF: [2016 13 MONTH REPORT](#)

IMAGE: [DASHBOARD FOR DEC 2016 - 48 MONTHS](#)

WORD: [ENERGY TRACKING BILLS PROCESSING PROCEDURES](#)

Food & Nutrition

Promote Locally Grown Foods

10 Points

School District

Program Summary: Our Food service program is committed to providing and promoting locally grown foods. We provide locally grown food samples on a monthly basis to students during lunch time with special recipes. We also promote quarterly chef competitions with healthy recipes and recently, our elementary winner was selected to have her healthy salad recipe shared nationally. Long Branch purchases local foods though the USDA Fresh Fruit and Vegetable Program and our efforts to provide the most nutritious foods to our students along with food education and awareness has been recognized at both the national and local level. The Long Branch Schools contracts with Sodexo for our food programs in the schools. And the staff at Sodexo are

committed to promoting good nutrition, get the students to stop and think about the path that food takes from the field to the table, and to have FUN!

PDF: [NUTRITION, LOCAL FOODS AND FOOD SERVICE OVERVIEW](#)

WORD: [PROMOTE LOCALLY GROWN FOODS SCHOOL WELLNESS POLICY](#)

PDF: [PROMOTE LOCALLY GROWN FOODS MENU AND NEWSLETTERS](#)

PDF: [FARM TO SCHOOL PROGRAM PARTICIPATION](#)

PDF: [FRESH FRUIT AND VEGETABLE PROGRAM PARTICIPATION](#)

PDF: [FFVP VOUCHERS: MONEY SPENT ON JERSEY FRUITS AND VEGETABLES](#)

School Gardens

10 Points

School

Program Summary: Our Middle School Garden has many participants and it is utilized as a student based learning environment complete with benches and a podium. We are in our third year of the garden and continue to expand its use. The crops are shared by our charity sponsor- Providing Hope and our "Bistro 63" students in a café style offering. Our Garden is located in the courtyard of the MS - the largest courtyard in the District! Our garden is the oldest - at three years old, and we are planning to plant a fruit tree this year!

PDF: [PROVIDING HOPE](#)

PDF: [BISTRO 63](#)

PDF: [SCHOOL GARDENS DOCUMENTATION](#)

PDF: [SCHOOL GARDENS PHOTOS](#)

IMAGE: [MS GARDEN: SOCIAL MEDIA POST](#)

Green Cleaning

Green Cleaning Supplies

10 Points

School District

Program Summary: Long Branch Public Schools started only purchasing green cleaning supplies in July of 2015. Our cleaning products are green and our paper products support our sustainability efforts. The Green Cleaning and purchasing efforts have shown a difference with the staff through cleaning - as they are simpler and easier to utilize. We anticipate a reduction of wasted and outdated custodial product in the next few years. We used to order different cleaners for various surfaces . The staff needed more time to clean in order to change product and were inefficient. Product would sit on a shelf because there were too many items to track. The new system has two main items for cleaning thereby eliminating waste. We are utilizing the remaining supplies in one of the buildings until they are depleted, then the entire district will be cleaned with green supplies.

PDF: [LETTER FROM BA](#)

PDF: [GREEN CLEANING PRODUCT INFO](#)

EXCEL: [GREEN CLEANING SUPPLIES DOCUMENTATION](#)

PDF: [GREEN CLEANING SUPPLIES DOCUMENTATION](#)

Green Purchasing

Green Purchasing Policy

10 Points

 Bronze Priority  Silver Priority District

Program Summary: The Long Branch School District is dedicated to decreasing our footprint while increasing our sustainability and community awareness of conservation. A large step for this goal is to include the awareness of sustainability and conservation in all aspects of the district including purchasing. In June of 2015 the board adopted a green initiatives policy that includes green purchasing considerations whenever fiscally responsibility allows. When the board adopts the policy, the policy is posted in the board minutes for everyone to read. All District policies are also posted on the school website in a searchable database providing access to all staff and the community. Finally - We are already purchasing sustainable and energy smart appliances and equipment throughout the district!

WORD: [GREEN PURCHASING POLICY 7660](#)

WORD: [GREEN POLICY ON WEBSITE POLICY DATABASE](#)

Healthy School Environments

Access to Healthy Water in Schools

20 Points

School

Program Summary: In December Long Branch Public Schools start to develop a Lead Water testing plan per the Department of Education lead testing regulations N.J.A.C. 6A:26-12.4, with additional definitions at 6A:26-1.2. We developed water inventories, filter inventories, plumbing layouts and assessments in our schools. We sent announcement letters regarding the testing to staff and students and performed the tests on 450 outlets across the district on March 4 with assistance from an outside agency. 9 outlets were designated above the limits. We sent letters to 6 schools affected within 24 hours of receiving the results. We also hung signs indicating the outlets were not suitable for drinking. Also, we believed those outlets were either shut off or had low usage and not properly flushed the evening prior to the testing. So, we retested the following Saturday on March 18. 8 of the outlets came back cleared. We replaced the fixture in the final device with a certified lead free faucet and we tested the flush sample on that 9th outlet which came back with acceptable levels. We followed the regulations by appointing Project Manager which prepared all the paperwork and Project Officers who performed the water inventories and were also present during the water tests. We also posted all of the results and inventories and profiles on line on our district website. Finally, we prepared a Quality Assurance Plan which is also

posted on our website. <http://www.longbranch.k12.nj.us/Page/16156>

PDF: [NJ AMERICAN WATER TEST RESULTS](#)

PDF: [ACCESS TO HEALTHY WATER IN SCHOOLS POLICY](#)

PDF: [SAMPLING PLAN WITH RESULTS](#)

PDF: [SECOND TEST RESULTS - ALL CLEAR](#)

PDF: [RESULTS LETTER FROM FIRST TEST](#)

PDF: [POSTERS AND PICS](#)

Outdoor Air Quality Awareness Program

10 Points

School District

Program Summary: Understanding the importance of breathing healthy air, this year the Long Branch Public School district implemented the outdoor air quality program as modeled by www.airnow.gov in each of our 9 schools. This program allows for both our students and staff to not only understand the importance of healthy air quality but the appropriate activities that are promoted for a healthy lifestyle in each of these air quality categories. Representative of the outdoor air quality, these flags set the standard for outdoor activity in each building. Administrators, staff, and students have learned about the importance of the program and the significance of each of the flag colors. The program influences each of our students through participation in Physical Education Classes and recess activities, as well as our after school athletic sports programs. Each building has set aside designated indoor areas when necessary to allow for the continuation of gross motor play and practice. Flags are coordinated daily based on the information provided by airnow.gov displayed on our district webpage and daily emails received to many administrators, and educators in each building. Staff and students are made aware of these levels as they enter through lobbies in each building or walk by the flag poles. The message is also reaching the community's our students take home and spread the message to their families and friends.

PDF: [OUTDOOR AIR QUALITY AWARENESS PROGRAM DISTRICT LETTER TO FAMILIES](#)

WORD: [OUTDOOR AIR QUALITY AWARENESS PROGRAM DISTRICT WEBPAGE INFORMATION AND WIDGET](#)

WORD: [OUTDOOR AIR QUALITY AWARENESS PROGRAM SAMPLE OF DISTRICT AND BUILDING LEVEL PROTOCOL](#)

WORD: [OUTDOOR AIR QUALITY AWARENESS PROGRAM EMAIL INTRODUCING PROGRAM TO ADMIN AND STAFF](#)

WORD: [OUTDOOR AIR QUALITY AWARENESS PROGRAM PHOTOS](#)

Radon Testing, Education and Mitigation

10 Points

School

Program Summary: Our district continues to test Radon as a condition of providing a healthy environment for our students and staff. We last performed our test in August of 2016. We will perform our next set of test in August of 2016. No radon remediation was required at Long Branch Middle School. All of our radon testing was completed by a company Radiation Data, from Skillman NJ. They are fully licensed and certified for testing as well as remediation. J. Keith Baicker was the tester for our sites

PDF: [RADON TESTING RESULTS](#)

WORD: [RADON TESTING WEBSITE LINK](#)

IMAGE: [FLOOR PLAN 1](#)

IMAGE: [FLOOR PLAN 2](#)

Learning Environment

Student Participation in the Arts

10 Points

District

Program Summary: The Visual and Performing Arts are essential for a thriving community. The overall goal of the Visual and Performing Arts department is to provide a wide variety of experiences. Students are provided the greatest opportunity for success and the developmental level of each child is considered when selecting activities. Creative thinking, problem solving and critical thinking skills are nurtured throughout each course. Our purpose is to enhance the strengths of the students while creating awareness, building self-esteem and fostering leadership skills. The Long Branch Public Schools provide a plethora of opportunities for students to be engrossed in enriching arts programs both during and after school. The past few years the arts courses have been infusing the importance of sustaining our natural resources with the standards for each content area in order to promote global awareness of protecting our environment. Attached is a list of community activities the district was involved in with regards to the arts, letters from the Superintendent stating the courses and highly qualified teachers in our district, as well as the NJ School Report for the Visual & Performing Arts in our schools.

IMAGE: [NJ SCHOOL REPORT](#)

IMAGE: [LBMS NJ SCHOOL REPORT](#)

WORD: [STUDENT PARTICIPATION IN THE ARTS DOCUMENTATION](#)

WORD: [STUDENT PARTICIPATION IN THE ARTS DOCUMENTATION](#)

Student & Community Outreach

Green Team

10 Points

 Bronze Required School District

Program Summary: The District Green Team was appointed by the Board of Education in November of 2015. The Green Team meets monthly at the Middle School to discuss recent activities. The Middle School Team focused on activities drawn from the Model Program Initiative which included many of the activities noted in our submission from recycling, to gardens, to evaluating the building and surrounding site plans. The team has also become the driving force to create gardens and awareness at all school levels including adding a "Green Theme" to other school activities. Most recently, the Green Team organized a District Wide Green Fair showing Sustainable Art, we expanded our Gardens into two more schools, built a Greenhouse from

recycled plastic bottles, established aeroponic gardens inside each school. We support the efforts to the outside gardens as well as new initiatives i.e. air quality monitoring, additional professional development for staff, and one additional district employee dedicated 50% to sustainability efforts! Finally, each school has submitted requests for support for sustainable projects we are supporting through PTA funding, district funding, or district support through the labor of staff. We continue to promote awareness of local food needs while bringing the students together with the community. We have also reported needs to the administration to add bottle filling stations - which will continue this summer to all schools, and promote LED light replacement in main use areas when funds are available. The diversity of the team has been essential in getting action in areas district-wide. LED lights are already being considered, and water filling station upgrades will take place this summer in all of our cafeteria areas. We are also starting to build a greenhouse made of water bottles collected by students! Our second Annual Report was presented by the Superintendent of Schools to the Board in June.

PDF: [ANNUAL REPORT VOLUME 1](#)

PDF: [ANNUAL REPORT VOLUME 2](#)

PDF: [LETTER FROM SUPERINTENDENT](#)

PDF: [CERTIFIED MINUTES](#)

Green Fair

10 Points

School

Program Summary: On April 26, 2017 our schools hosted a Green Fair at the Long Branch Middle School. Each School highlighted their partnerships with the community by bringing in a strategic partner with vested interest in sustainability at the local level. In addition to inviting a partner, each school contributed to the fair by displaying student projects and sending a member of their Green Team to represent their school at the event. Students were encouraged to reuse "waste" materials in their art work when creating their displays. Also on display was the artwork of the Earth Day Poster Contest winners, sponsored by the Long Branch Environmental Commission. We sought to maximize event efficiency and attendance by hosting the fair at a centralized location. Student exhibitions educated hundreds of guests as the Green Fair took center stage during a board meeting night where the district's green and sustainability efforts were recognized with the following awards: Energy Excellent Award from Cenergistic Very Impressive Produce Award from NJ Bureau of Child Nutrition New Jersey Green Ribbon Award from NJSBA Energy Star Award The event proved to be a step in the right direction towards the school's sustainability goals in the community. The general consensus was one of positivity and enthusiasm! This collaborative effort was made possible by each school and the following partners and community organizations: Sodexo, JCP&L, New Jersey Natural Gas, Clean Ocean Action, Monmouth County Climate Coalition, Cenergistic, the Long Branch Environmental Commission, Transition Monmouth and the Surfers Environmental Alliance of Long Branch.

PDF: [QUALITATIVE ASSESSMENT - LBMS](#)

PDF: [PUBLICITY AND COMMUNITY OUTREACH](#)

PDF: [GREEN FAIR DOCUMENTATION](#)

"Green" Your Green Fair or School Event

10 Points

School

Program Summary: During our 16th Annual District Art show our student artists showcased the importance of conserving power and energy and the impact it can have globally. In order to lessen the footprint and environmental impact of hosting this event, the district was intentional about implementing green practices in logistics and marketing. During the event, guests learned about the importance of conserving power and energy through beautiful student exhibitions. Having successfully carried out our vision for this event, we're excited to explore even more green strategies and ideas that would further advance our sustainability goals.

PDF: ['GREEN' YOUR GREEN FAIR OR SCHOOL EVENT DOCUMENTATION](#)

PDF: ['GREEN' YOUR GREEN FAIR OR SCHOOL EVENT DOCUMENTATION](#)

PDF: [PUBLICITY AND COMMUNITY OUTREACH](#)

PDF: [PROJECT SUMMARY](#)

Green Challenges

10 Points

School

Program Summary: Poster contest in coordination with Long Branch City Environmental commission What would your world look like with out litter?? Winners were presented at the District Green Fair on May 24th, 6pm at Long Branch Middle School Other challenges throughout the year The PowerSave Team has initiated Green Challenges through the PowerSave schools program. PowerSave students are leading energy saving efforts by providing teachers and staff with Holiday Break Shutdown/PowerDown Challenges. A few days before Thanksgiving, Winter, Spring, and Summer break each classroom is provided with a checklist of easy ways to help the school save energy during the extended break. Also, the teams are leading an Energy Patrol Contest which tracks school energy efficiency through weekly classroom audits. The goal of the Energy Patrol Contest is to encourage teachers and students to use strategies suggested by the PowerSave Team to reduce energy waste throughout the school day. The contest promotes a culture of energy savings which, over time, becomes the expectation. The PowerSave Team tracks points earned through graphs and spreadsheets. Points will be illustrated through the school webpage or a score sheet posted in a central location. At the end of the school year, the classroom with the most energy efficiency points wins a prize

PDF: [GREEN CHALLENGES DOCUMENTATION](#)

WORD: [GREEN CHALLENGES DOCUMENTATION POSTER GUIDELINE](#)

IMAGE: [GREEN CHALLENGES DOCUMENTATION POSTER WINNER](#)

IMAGE: [GREEN CHALLENGES DOCUMENTATION POSTER WINNER 2](#)

Enrichment Programs through Partnership

10 Points

School

Program Summary: For the 2016-2017 year, our school is working in partnership with the Alliance to Save Energy (ASE) to implement the PowerSave Schools program. This partnership was developed through 3 entities: New Jersey Natural Gas, Alliance to Save Energy, and Sustainable Jersey. Through this partnership, students learn how to manage an energy audit, work with classmates and adults to implement energy efficient strategies, meet with the ASE Local Project Leader to help facilitate the PowerSave Schools program and present their accomplishments at the end of the school year. Power Save Meetings are held after school with faculty advisers and

during staff lunch or prep periods. By participating in the PowerSave Schools program, our school has learned behavioral strategies to reduce energy waste. This partnership has helped promote a culture of energy savings as the norm rather than the exception. The PowerSave Schools program has fostered a long-term impact for a less wasteful school. Teachers are given weekly awards for getting "caught" saving energy. Photos are then posted for the school community to see.

IMAGE: [ENRICHMENT PROGRAMS THROUGH PARTNERSHIP DOCUMENTATION](#)

PDF: [ENRICHMENT PROGRAMS THROUGH PARTNERSHIP DOCUMENTATION](#)

Student Learning

Education for Sustainability Grades 4-12 Arts

10 Points

School

Program Summary: The theme of this year's art exhibition focused was Garden Art. Art educators chose lessons that highlighted sustainability, which included but not limited to recycling, reusing, reducing, preserving nature, addressing water, ecological systems, etc. The district collaborated with our garden program, Providing Hope and Jersey Fresh through our food service company, Sodexo. The show was located in our middle school gardens and included a food sampling of Jersey Fresh produce. Art was featured by artists in PreK through 12th grades. The goal of the show was to highlight the importance of preserving our natural resources and to help reduce the amount of waste and re-purpose any materials possible.

WORD: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 ARTS DOCUMENTATION](#)

IMAGE: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 ARTS DOCUMENTATION](#)

IMAGE: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 ARTS DOCUMENTATION](#)

IMAGE: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 ARTS DOCUMENTATION](#)

PDF: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 ARTS DOCUMENTATION](#)

WORD: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 ARTS DOCUMENTATION](#)

Education for Sustainability Grades 4-12 English Language Arts

10 Points

School

Program Summary: In the ELA classes Long Branch Middle school took the opportunity to use sustainability as a focal point to enhance essay writing skills, debate skills and persuasive letter writing. In 2nd and 3rd marking period students focused on plastics and chemical reactions into the 7th grade science classroom. The ELA classes used the focus topic to debate the beneficial vs. non beneficial issues with the production and use of plastic. During the unit students wrote and essays and then had to choose three places to write a persuasive essay about the plastic issue. At the culmination of the unit the ELA classes debated the topic of sustainability in relation to plastics in our environment.

WORD: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 ENGLISH LANGUAGE ARTS DOCUMENTATION ENGLISH ESSAY](#)

PDF: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 ENGLISH LANGUAGE ARTS DOCUMENTATION STUDENT WORK AND RUBRIC](#)

WORD: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 ENGLISH LANGUAGE ARTS DOCUMENTATION ADDITIONAL LESSONS IN THE UNIT](#)

WORD: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 ENGLISH LANGUAGE ARTS DOCUMENTATION QUESTIONNAIRE](#)

PDF: [LESSON PLAN AND STUDENT WORK](#)

Education for Sustainability Grades 4-12 Science

10 Points

School

Program Summary: Students learn about energy principles, conservation, demand, renewable, and green careers, through the Power Save Program. They learn the difference between light bulbs and easy sleep mode settings to conserve energy and not use energy when they do not need them. They see the difference between wattage and voltage and different non-renewable/renewable sources of energy. With this information students will explore actually using renewable energy to promote Power Saving techniques. Using solar power students will charge their devices for class and share with the rest of the school how it is possible to use renewable energy to run everything they need in class. Students will also participate in a solar device challenge. Using only Solar Power to charge their personal technology needs students will really see the practical application of renewable energy. They will use this to create other examples to share with their peers of everyday usage of solar power. As part of our school wide participation in the Power Save program students in grades 6-8 take part in learning and understanding renewable resources. They further take this knowledge and make presentations to their peers regarding the benefits of renewable resources and how it will impact the future of our community and our world. As part of the Middle School Curriculum students take part in numerous lessons on the importance of renewable energy. As part of the 6th grade curriculum students take part in lessons understanding the practical use of using renewable resources. Students research the and compare renewable and non renewable resources and discuss this with in their classrooms.

PDF: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 SCIENCE DOCUMENTATION](#)

EXCEL: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 SCIENCE DOCUMENTATION](#)

PDF: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 SCIENCE DOCUMENTATION](#)

PDF: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 SCIENCE DOCUMENTATION](#)

PDF: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 SCIENCE DOCUMENTATION](#)

Education for Sustainability Grades 4-12 Social Studies

10 Points

School

Program Summary: In the social studies classroom the student understand how forest resources are managed to provide products and other benefits through simulation activities. This activity in the social studies classroom correlates to the standards of colonizing and development of the Americas. The great industrial progress in correlation to our environment.

IMAGE: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 SOCIAL STUDIES DOCUMENTATION](#)

POWERPOINT: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 SOCIAL STUDIES DOCUMENTATION](#)

PDF: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 SOCIAL STUDIES DOCUMENTATION SW](#)

WORD: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 SOCIAL STUDIES DOCUMENTATION LESSON PLAN](#)

WORD: [EDUCATION FOR SUSTAINABILITY GRADES 4-12 SOCIAL STUDIES DOCUMENTATION RUBRICS](#)

Student and Staff Wellness

School Wellness Council

10 Points

 Bronze Priority  Silver Priority School

Program Summary: Our School Wellness Councils were formed several years ago. However, our activities have really taken off in the past few years with the implementation of the Jersey Sustainability for Schools. The councils at each location have made a concerted effort to turnkey the information and activities created at each meeting to the staff, as well as expand our offerings to students and staff. The councils meet at least 4 times a year, and share the information directly with the principals for support. The Middle School this year target nutrition and food offerings throughout the building. We installed bottle fillers near the cafeteria, lead a discussion on better choices for breakfast, dance program for students and yoga program for staff. The District also improved its support of the programs by providing additional support for efforts with rooms, fields, supplies and technical support whenever necessary. This past year, we completed our implementation of Green Cleaning to all schools with the help of the Wellness Councils. They have become a “Green Voice” from within to provide feedback on environment issues.

WORD: [SCHOOL WELLNESS COUNCIL DOCUMENTATION](#)

WORD: [SCHOOL WELLNESS COUNCIL DOCUMENTATION](#)

WORD: [SCHOOL WELLNESS COUNCIL DOCUMENTATION](#)

WORD: [SCHOOL WELLNESS COUNCIL DOCUMENTATION](#)

PDF: [PHOTOS: ACTIVITIES](#)

School Health Assessment

20 Points

School

Program Summary: Long Branch Public Schools approaches the Health Assessment on the district level as well as the school level. We are fortunate to have a District Head Nurse, Kathy Celli, as well as a nurse in each school. So while the Health Assessment is coordinated by the district level, other activities are performed by our High School nurse. We work with various community agencies and resources to maintain optimal health standards for all students by offering a wide variety of programs and services to all our students regardless of socio-economic standing. The district Health Department, led by our Head Nurse oversees a large variety of programs involving medical professionals on staff, as well as the local hospitals and community organizations. The nursing and Pupil Personnel staff provide continuing health guidance to individual pupils to enable them to gain knowledge and experience in solving immediate health problems. They participate in the planning/review of the School Health Program. The school nurses’ maintain relationships with the parents of their students in order to assist them and their families in health/social issues. Each year we accomplish many activities with our staff of nurses that focus on overall school health as well as individual needs. We added several relevant activities this year to increase the health of our students and staff. We secured funding to add

bottle fillers to each cafe location. The installation of each unit will be completed for September school start. We also added Air Quality programs to each school - with flags displayed in school lobby, and a virtual flag on the school main webpage. We instituted a bike to school safely program which enjoyed great success and participation from students. We increased awareness of healthy and nutritious food by expanding our gardens. We now grow food year round with an aeroponic garden indoors here at lbhs! Information regarding the School Health Assessment is posted on district website. ' <https://www.longbranch.k12.nj.us/Page/15330>
<https://www.longbranch.k12.nj.us/Page/15331>

PDF: [SCHOOL HEALTH ASSESSMENT DOCUMENTATION](#)

PDF: [DISTRICT HEALTH PLAN](#)

WORD: [SCHOOL HEALTH ASSESSMENT DOCUMENTATION](#)

WORD: [PROGRAMS LIST](#)

PDF: [COOKING EVENT](#)

Programs to Promote Physical Activity

10 Points

School

Program Summary: Long Branch Middle School offers many activities to increase physical activity among our students. We host Fitness Days, PE Labs, and offer students many opportunities to walk for a cause. We have recently implemented our “Fitness Fever, Watch it” program, which aims towards improving the fitness levels of all students. As part of our fitness action plan, we have also introduced many new and exciting programs where students can participate throughout the year, including: yoga, dance, theme and field days, and many outdoor activities listed under the attached “Middle School Activities” document.” We have also partnered with the Alliance for Healthier Schools Program, who works with our school to transform the conditions and systems that lead to a healthier lifestyle. Our students are always encouraged to bring in their families to participate in school-sponsored events. We welcome families to be part of our Family Fitness Nights, where students and their family come together to engage in physical activity after school hours. Additionally, every year our students participate in the Barnabas Health Kids and Family festival, where families come out on a Saturday to participate on a kids run/walk. The event takes place at the Long Branch Promenade and its well-attended by the community. Our goal is to prepare students to live an active healthy and productive lifestyle and we’re very excited to promote the values and benefits of physical activity in our school.

PDF: [PROGRAMS TO PROMOTE PHYSICAL ACTIVITY DOCUMENTATION](#)

PDF: [PROGRAMS TO PROMOTE PHYSICAL ACTIVITY DOCUMENTATION](#)

PDF: [PHOTOS: PE PROGRAMS](#)

IMAGE: [KIDS WALK FLYER](#)

Policies to Promote Physical Activity

10 Points

District

Program Summary: Long Branch's quality Physical Education/wellness program is fundamental for our students. Why do children need a quality PE/wellness program? The simple answer is so that they will remain physically active throughout their lifetime and reap the benefits of doing so. Quality PE/wellness provides students with a multitude of important learning experiences that

cannot be duplicated in the classroom. Physical Education/wellness is that phase of education which is concerned with the teaching of skills, improving physical fitness, the reinforcement of other subjects, self-discipline, leadership and cooperation, enhancing self-efficacy, stress reduction, and strengthening peer relationships. Physical activity contributes much to the growth, development, and the general well-being of every individual. Some of the benefits of our quality PE/wellness program are: An opportunity to teach character traits such as sportsmanship, teamwork, cooperation, encouragement, kindness, responsibility, self-esteem, respect for others, and so much more! It gives students an additional area in which to excel. Students who struggle in the classroom may find increased self-respect and a new sense of admiration from their classmates in PE. A quality PE/wellness program keeps our students healthy through participation through the program, while teaching them the basic skills needed for future fitness, athletic, and health success. A student who is physically and mentally healthy is more likely to be prepared to meet the daily challenges of living in our society, and is more likely to make appropriate choices about lifestyles. Quality PE/wellness promotes long-term health and wellness by making health and fitness fun, and by incorporating lessons on the importance of movement for overall health and disease prevention. PE reduces obesity and other health risks. Research shows that a quality PE program will increase standardized test scores. PE can be used to improve and reinforce learning across the curriculum. Quality PE involves every student, and meets every student at his or her level of ability. The goal of our program is to provide activities where self-expression, self-confidence, and physical and mental poise can be attained through perseverance and mastery of physical, mental, and social tasks. Quality PE/wellness provides sufficient personal skills to perform a variety of physical activities, give the student a high regard for participating in regular physical activity, and gives them knowledge of the benefits, risks, precautions of involvement in physical activity, and a value for the role of a healthy lifestyle. Long Branch Physical Education and wellness program is more than running, calisthenics, or sport. It is a total movement experience that focuses on fun, involvement, character, self-esteem, health and fitness, and total well-being for our students. It is an essential part of every day to live long, healthy lives. The overall goal of the "Fitness Fever, Catch It" program is to enhance, develop and implement a comprehensive physical fitness program. This goal will be achieved through the new "Fitness Fever, Catch It" Program, which will address meeting and improving upon all NJ Core Content Standards. To meet these goals the following objectives will be implemented throughout grades six through eight students; 1. To increase fitness levels of all students. 2. To initiate an updated physical education and wellness program for grades 6-8 students, obtain necessary equipment and incorporate technology into the "Fitness Fever, Catch It" program. Action Plan- Implement a two day per week mandatory fitness days, which will incorporate nutrition values in all K-12 PE/HE classes. The LBMS staff will implement the fitness gram program. We will use these funds to purchase the program and additional technologies necessary to use the program so we can track all students' progress. The data will be used to drive instruction for improvements as well as used for student growth objectives. All K-12 students will be tested in the fitness gram, they will then be tested in the spring of the following year (May). Results will be compared to make improvements in our fitness program for the following year. All results will be shared with students and parents. During the course of the year we will implement fitness day programs to help students increase their cardiovascular endurance, BMI and student achievement. Students will be involved in brain breaks all throughout the day, circuit training in PE classes as well as fitness games to work on their skills. We will implement a dance class as well as a yoga class, the students will also participate in dance dance revolution and you tube dance videos and contests. We will host 3 family fun and fitness nights so parents and family members can become involved in the activities. This year our field day will be themed fitness field day. We will participate in the NJ Kids Marathon which will track their miles all throughout the year. All students will wear a pedometer to see their individual results during PE class. All data will be utilized to drive instruction throughout the year for 21st century learning. We believe that Long Branch Public Schools are; "Where Children Matter Most". With this philosophy in mind, we are certain that the "Fitness Fever, Catch It" Program will teach continuous growth and achievement for all students, without exceptions.

PDF: [POLICIES TO PROMOTE PHYSICAL ACTIVITY DOCUMENTATION](#)

PDF: [POLICIES TO PROMOTE PHYSICAL ACTIVITY DOCUMENTATION](#)

PDF: [DISTRICT REPORT](#)

Staff Wellness Program

10 Points

School District

Program Summary: The Long Branch Schools goes above and beyond to promote staff wellness. Three years ago, they allocated capital expense to build a wellness center at the Long Branch High School providing medical support for all staff 7 days a week. The PHCLB provides all of its members' basic wellness AND medical needs under one roof of over 5000 sf, seven days a week. The health center's activities are centered around the theme of "Care for the Whole You". PHCLB is structured to provide quality wellness and health care which is easily accessible to employees of the district. Employees pay no co-pays or deductibles for any services or programs of the health center. It is open 7 days a week for 65 hours, opening weekdays from 7 AM to 6 PM and Saturdays and Sundays from 8:00-6:00 throughout the year. The wellness center is located centrally in the school district on school property making it a convenient location to all work sites. The center provides monthly newsletters, diagnostic services, as well as nutrition, chiropractic care, physical therapy and programs targeting staff wellness and activities.

WORD: [STAFF WELLNESS PLAN](#)

WORD: [STAFF WELLNESS PICTURES](#)

PDF: [NEWSLETTERS AND FLYERS](#)

Student Safety

Pedestrian and Bicycle Safety and Promotion Initiatives

10 Points

School

Program Summary: No description was provided.

WORD: [PEDESTRIAN AND BICYCLE SAFETY AND PROMOTION INITIATIVES DOCUMENTATION](#)

PDF: [PEDESTRIAN AND BICYCLE SAFETY AND PROMOTION INITIATIVES DOCUMENTATION](#)

IMAGE: [PEDESTRIAN AND BICYCLE SAFETY AND PROMOTION INITIATIVES DOCUMENTATION](#)