

2015



SUSTAINABLE MASSPORT



Sustainability Awareness



What can you do?

Attend the annual Health Fair on January 16, 2015 from 11:00 AM to 2:00 PM. This event kicks off Massport's Health and Wellness Incentive Program for 2015.

What is Massport doing?

Massport is taking a broad, holistic view of sustainability consistent with the Airports Council International – North America's (ACI-NA) definition of airport sustainability. This approach focuses on Economic Viability, Operational Efficiency, Natural Resource Conservation, and Social Responsibility (EONS).

PROJECT Highlights

Each quarter, Massport publishes a tenant newsletter, *EnviroNews*. This awareness-raising initiative highlights various sustainability programs and events happening at Massport facilities. Past newsletters have included topics such as recycling, the Sustainability Management Plan, resiliency planning, the Earth Day Hazardous Waste Collection, and safety. *EnviroNews* also includes important Massport contact information for tenant questions or comments.

JANUARY 2015

S M T W T F S

Did you know?

In 2013, Massport was selected to receive a Federal Aviation Administration (FAA) grant to prepare a Sustainability Management Plan as part of a nationally recognized pilot program. The Plan is anticipated to be completed in early 2015.

Each month, this calendar will feature a different area of sustainability. Stay tuned for sustainability information and history throughout the year.

					1 New Year's Day	2	3
4	5 Electric vehicle charging stations installed: 2012	6	7	8	9	10	
11	12	13	14	15	16 Massport Health Fair	17	
18	19 Martin Luther King, Jr. Day	20	21	22 First Residential Soundproofing Pilot Program began: 1984	23	24	
25	26	27	28	29	30	31 Economy Parking Garage solar power and LEDs installed: 2011	

Questions or ideas?

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Recycling



Logan Airport recycling barrel.

PROJECT Highlights

In 2013, Massport implemented a single-stream recycling program in the terminals and Logan Office Center. Single-stream collection includes mixed paper (newspaper, cardboard, and magazines), plastics, aluminum, and glass. Single-stream recycling will help to increase the recycling rate by minimizing confusion and decreasing the effort needed to recycle. The transition to single-stream collection is ongoing.

What can you do?

Recycle your old athletic shoes! Massport is kicking off its Reuse-A-Shoe program sponsored by Nike. The program recycles old shoes into new athletic surfaces such as courts, turf fields, and tracks.

Locate your nearest recycling bin and make sure to place your recyclables into the marked receptacles. Consider less commonly recycled items, such as ink cartridges. Where can you recycle these at the office? Don't know where to recycle? Contact us.

What is Massport doing?

Massport's agency-wide recycling program started in 2005 with the intention to divert waste from landfills and reduce the total volume of waste disposed. Massport has a target to increase Logan Airport's recycling rate to 20% by 2016, 40% by 2018, and 60% by 2020.

FEBRUARY 2015

S M T W T F S

Did you know?

In 2009, Massport started diverting nearly 100% of construction related waste from landfills. This includes materials such as dry wall, wood, asphalt, brick, and concrete.

In Massachusetts, commonly disposed of materials including paper, glass, plastic, and aluminum must be recycled. Most recently, commercial organic material was added to the list.

1 Super Bowl Sunday	2 Groundhog Day	3	4	5	6	7
8	9 Reuse-A-Shoe Program kickoff: 2015	10	11	12	13	14 Valentine's Day
15	16 President's Day	17	18 Agency-wide recycling program began: 2005	19	20	21
22	23	24	25	26 Grant received for shore power at Fish Pier: 2009	27	28

Questions or ideas?

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Energy/Electricity



LEFT: Solar panels atop the Terminal B garage.
RIGHT: Terminal C checkpoint.

What can you do?

- Turn off lights when not needed.
- Report inefficient equipment at work.
- Unplug electronics such as cell phones and laptops once they're charged. Adapters plugged into outlets use energy even if they're not charging.
- For your home: Get free energy efficient light bulbs and a free home energy assessment from Mass Save. Insulation improvements are 75% off (up to \$2,000) for qualifying homes (www.masssave.com).

What is Massport doing?

In 2008, Massport voluntarily committed to three of the Massachusetts' Governor's Leading by Example targets. These targets are:

- Reduce greenhouse gas emissions 40% by FY2020 and 80% by FY2050 (based on a 2002 baseline year);
- Reduce overall energy consumption of buildings (energy use per square foot) 35% by FY2020; and
- Procure 30% of annual electricity consumption from renewable sources by FY2020.

PROJECT Highlights

Renovations to the Terminal B Parking Garage included a combination of lighting retrofit, lighting controls, and solar generation panels. The completed project reduced total electricity use by 42%.

As part of a larger project to give the Terminal C checkpoint an aesthetic and operational upgrade, LED lighting was installed to decrease energy impact. The final installed project achieved a 53% reduction in energy.

MARCH 2015

S M T W T F S

Did you know?

Massport has Sustainable Design Standards and Guidelines (SDSG), which provide a sustainable building framework for design and construction.

Massport has a Logan Airport Energy Master Plan to help implement a comprehensive strategy for achieving targets and reducing overall energy use. The plan has led to measures at the central heating and cooling plant that is expected to reduce energy use significantly.

1	2	3	4	5  LOC wind turbines installed: 2008	6	7
8 Daylight Savings	9  Terminal B Parking Garage solar power and LEDs installed: 2010	10	11	12	13	14
15	16  Terminal A, first LEED-certified airport building, opened: 2005	17	18	19	20	21
22	23  Launch of first walking challenge: 2015	24	25	26	27	28
29	30	31				

Questions or ideas?

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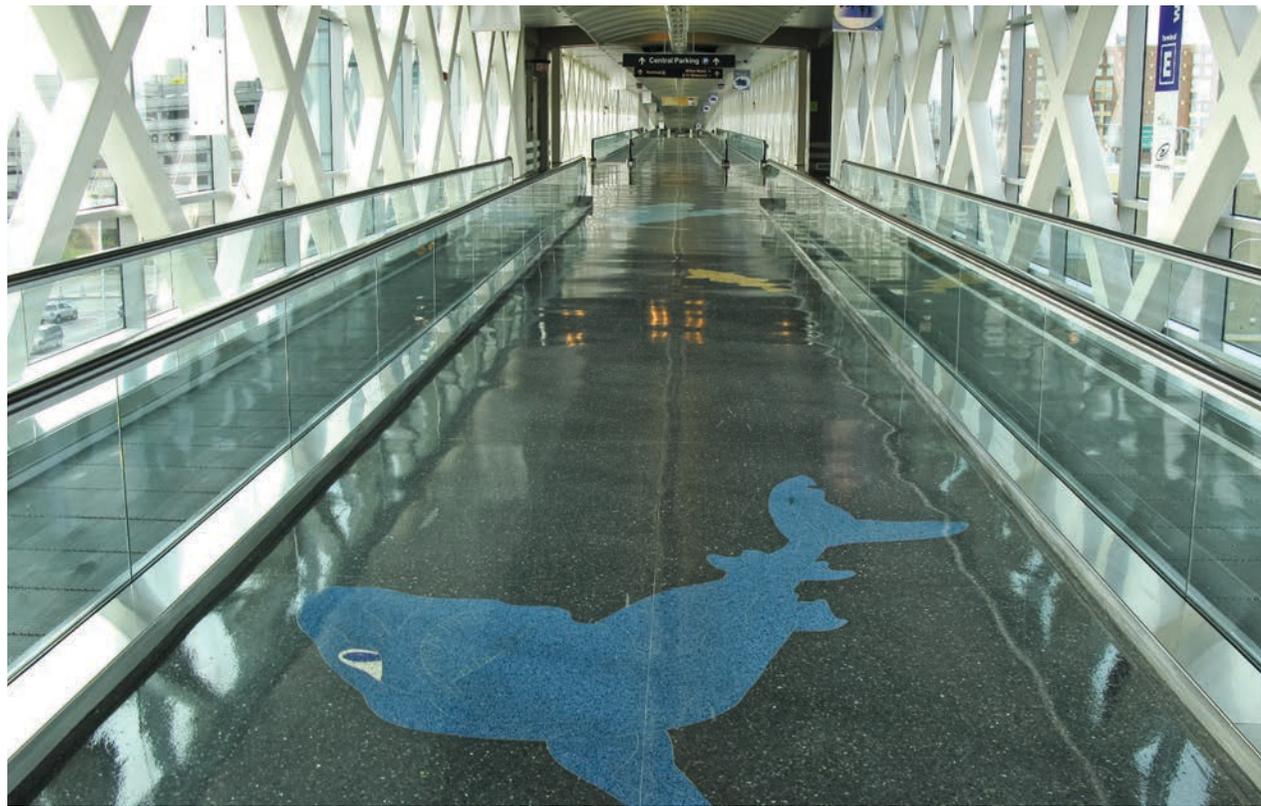
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Enhance Passenger Experience



LEFT: "Atlantic Journey" by artist Jane Goldman.

TOP RIGHT: Art display at Logan Airport.

BOTTOM RIGHT: Rocking chairs and art installations in terminals.



What can you do?

- Volunteer to work in the terminals at peak times of travel to assist with stressed travelers.
- Recognize your first responders.
- When traveling, look for examples of sustainability measures at other airports – take a photograph and share with Massport's Sustainability Project Manager, Jacob Glickel.

What is Massport doing?

Welcoming visitors and providing them with a convenient and smooth passage is a key priority for Massport. Some of the more notable conveniences at Logan Airport include wayfinding services; free Wi-Fi and charging stations; children's play spaces; a public art program; the new, convenient, state-of-the-art Rental Car Center; several pet relief areas; a chapel; health services; and shopping.

PROJECT Highlights

Logan Airport's Public Art Program beautifies the Airport's public spaces through the provision of works intended to educate, inspire, and entertain. The art displayed at Logan Airport is from local artists and institutions, and provides visitors with insight into the culture of Boston and the central New England region. Art installations include both permanent and rotating exhibits.

APRIL 2015

S M T W T F S

Did you know?

Passengers can now self check-in at the renovated United area at Terminal B.

There are delicious healthy food options at Berkshire Farms in Terminal B.

Passengers can follow a walking path to exercise while waiting.

Massport's in-terminal hologram "Carla" describes amenities to passengers in both English and Spanish at locations throughout the Airport.

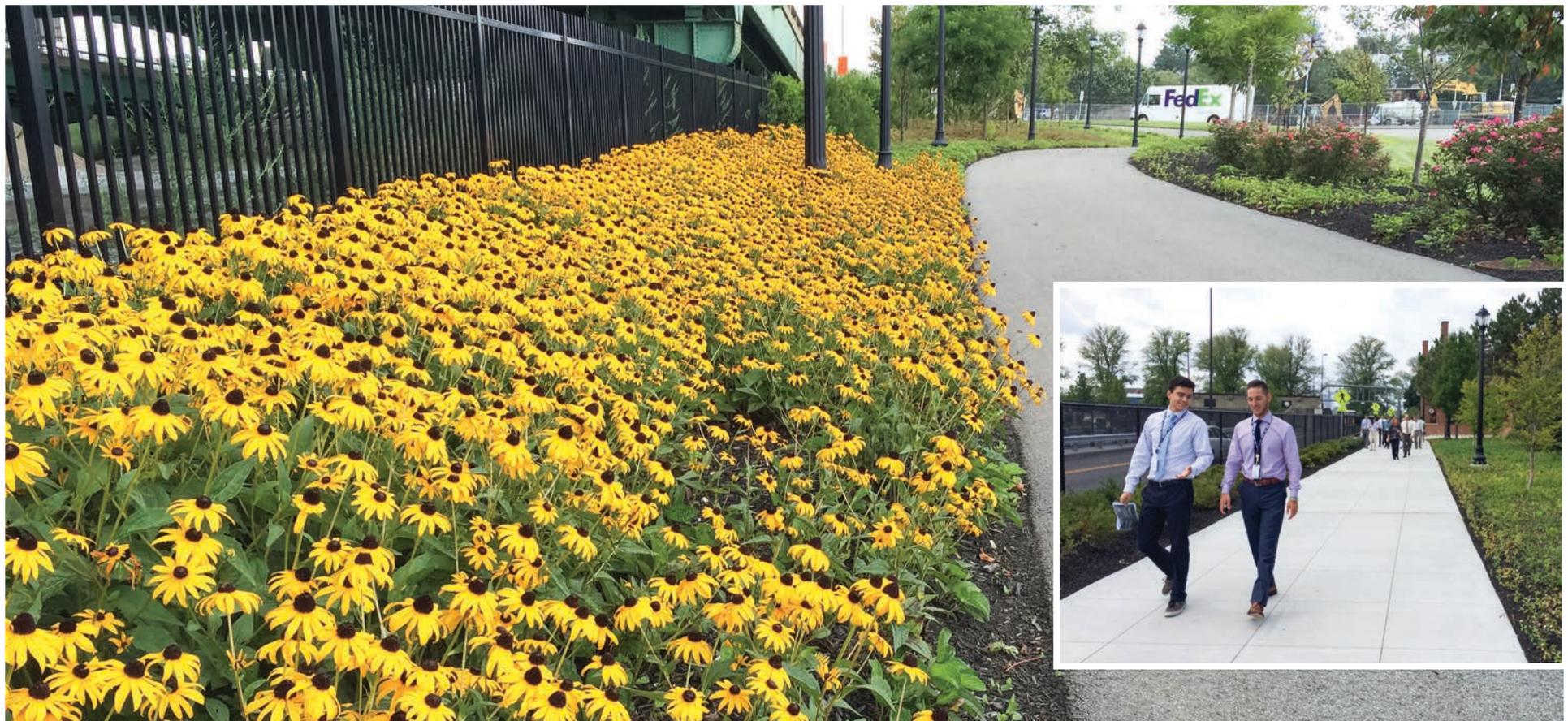
			1 National Walking Day	2 Terminal C lighting retrofit: 2011	3	4
5	6	7	8	9	10	11
12 Conley Terminal Drayage Truck Replacement Program began: 2012	13	14	15	16	17	18 Leading by Example state energy goals adopted: 2007
19	20 Patriot's Day	21	22 Earth Day celebration: 2015	23	24	25
26	27	28 Back Bay Logan Express service began: 2014	29	30 Renovations and improvements at Terminal B complete: 2014		

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Parks and Open Space



Recently completed segment of the East Boston Greenway Connector.

What can you do?

- Organize a walking group. Enjoy a walk along the Greenway Connector and visit Bremen Street Park or the Marsh Overlook.
- Have lunch outside on the Harborwalk.
- Get outside and explore your local parks.
- Interested in growing your own food this summer? Try a backyard (or patio) vegetable garden!

What is Massport doing?

Massport owns and operates more than 30 acres of parks and open spaces, including Piers Park, Bremen Street Park, a series of Airport Edge Buffers in East Boston, and the South Boston Maritime Park.

PROJECT Highlights

In July 2014, Massport completed a one-half mile segment of the East Boston Greenway Extension (Greenway Connector) connecting Bremen Street Park across Logan Airport to the Marsh Overlook. The Greenway will eventually extend to Constitution Beach, and when completed, will provide a continuous pedestrian/bicycle path from Piers Park to Constitution Beach.

MAY 2015

S M T W T F S

Did you know?

The 18-acre Bremen Street Park is one of East Boston's open space gems. The Park is home to the YMCA and provides children with a play area and spray pool.

The Park also offers 36 community garden plots tended by local residents. Massport recently broke ground on East Boston's first fenced-in dog park (to be located within Bremen Street Park).

						 Alternative Fuel Vehicle (AFV) preferred parking and head-of-line taxi privilege began: 2007	
		 South Boston Maritime Park breaks ground: 2003	 Woburn Logan Express - Anderson RTC opened: 2001				
 Mother's Day							
							
	 Memorial Day						
							

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Sustainable Transportation



Bike racks at Terminal E.



MBTA Blue Line, Airport Station.

What can you do?

- Get your subsidized “T” pass and take public transportation to work.
- If you currently drive to work, consider alternative transportation modes such as the MBTA, Logan Express, walking, or biking.
- Carpool with colleagues to off-site meetings.
- Visit the MassRides website or call 1-888-4COMMUTE to learn about transportation options.
- How often do you find yourself driving “just around the corner?” Consider walking, biking, or taking the T for short trips!

What is Massport doing?

Massport’s goal is to provide superior ground access to Logan Airport through alternative and high occupancy vehicle (HOV) travel modes, information services, and appropriate parking. Massport has a goal of 35% HOV mode share and continues to rank at the top of U.S. airports with respect to HOV/transit mode share.

PROJECT Highlights

Recently, Massport developed a Bicycle Master Plan to further enhance connectivity. The Plan proposes connections between Logan Airport’s current cycling facilities, East Boston’s parks, and the city’s larger network of cycling infrastructure. This is one of the first airport-specific cycling infrastructure plans in the country.

JUNE 2015

S M T W T F S

Did you know?

Logan Airport opened its LEED Silver Green Bus Depot in 2013 which gets 10% of its energy use from solar panels. The building houses Massport's clean-fuel bus fleet which reduced Airport bus miles traveled by 65%.

Massport promotes the AltWheels Festival, which is a forum to promote alternative fuels and sustainable transportation modes.

	1 Full Silver Line service began: 2005 Bremen St. Park opened: 2007	2	3 New Airport Blue Line Station opened: 2004	4	5	6 Hanscom Airport first EMS Certification: 2001
7	8	9	10	11	12	13 Conley Terminal dedicated freight bypass ground breaking: 2014
14 Rocking chairs first installed at terminals: 2001	15	16	17	18 Logan Airport installed first Airport Noise Monitoring System: 1975	19	20
21 Father's Day Piers Park history of immigration plaque celebration: 2012	22	23	24	25	26	27
28	29	30				

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Water Conservation



Landscape design at Logan Airport includes hardy perennials, which require less irrigation.

What can you do?

- Keep a reusable water bottle with you; don't buy plastic water bottles.
- Switch off faucets when not in use.
- Report leaking fixtures and toilets at work.
- Install a low-flow shower head.
- Wash only full loads in the dishwashers.
- Consider an at-home rain barrel. Collect rain water and use for summertime irrigation.

What is Massport doing?

Massport has a goal to conserve regional water resources through reduced potable water consumption. Objectives include encouraging efficient water use, increasing water reuse, and investing in water saving technologies.

PROJECT Highlights

The Massport Sustainable Design Standards and Guidelines, which have been in place since 2011, contain three performance standards that seek to reduce Airport-wide water use. These include maximizing water use efficiency and minimizing potable water use; reducing water use and use of chemicals in landscaping; and reclaiming and reusing wastewater and stormwater to reduce potable water demand.

JULY 2015

S M T W T F S

Did you know?

The state-of-the-art irrigation system installed at the Rental Car Center in summer 2014 is designed to minimize both energy and water usage.

Massport uses efficient fixtures in Airport terminals.

The Green Bus Depot recycles 80% of the water used for washing buses.

			1 CNG and hybrid diesel bus fleet began operation: 2012	2 East Boston Greenway opens: 2014	3 Warm mix asphalt first used: 2006	4 Independence Day
5	6	7	8	9	10 Central Heating Plant upgrade: 2012	11 Copa Airlines began nonstop service to Panama City: 2014
12	13	14	15	16	17	18
19	20 Logan Airport established noise rules relating to runway use: 1976	21 Rain water harvesting began at Terminal B: 2010	22	23	24	25
26	27 Logan Airport enacted nighttime runway use restrictions: 1976	28 Navy Fuel Pier Airport Edge Buffer completed: 2008	29	30	31	

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Community Outreach/Support



LEFT: Massport STEM scholarship recipients.

TOP: Massport employees clean up a local park.

What can you do?

- Participate in a Massport community improvement program such as park clean-ups, tree plantings, Earth Day activities, and other special events.
- Volunteer for charity events.
- Consider volunteering in your local community.
- Donate food to your local food pantry.
- Shop in neighboring communities.

What is Massport doing?

One of Massport's top priorities is to invest in its neighboring communities and to be a good neighbor. Massport supports many community programs and initiatives to enhance the overall quality of life for neighboring citizens.

PROJECT Highlights

Massport sponsors several scholarship programs that reward local graduating high school seniors for demonstrated academic achievement and community service, among other qualifications.

AUGUST 2015

S M T W T F S

Did you know?

Massport's *Wings for Autism* program is designed specifically for families with autistic children to help ease the stress of flying. The program allows families the opportunity to go through a "dress rehearsal" before their actual trip.

Massport actively engages local youth through internships, summer job support, scholarships, mentoring programs, and educational events.

1
LEED-Silver Green Bus Depot opened: 2012

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Logan Airport Transportation Management Association established: 1995

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Logan Airport Noise Abatement Office established: 1977

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Cool Globes exhibit began at Logan Airport: 2013

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LEED-Silver Signature Flight Support breaks ground: 2005

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Waste Management/Reduction



ABOVE: Bottle caps collected by local elementary school students were donated to Artists for Humanity where they were used to create an art exhibit displayed in the Terminal A walkway to Central Parking.

RIGHT: A composting pilot program is currently underway at Logan Airport. Efforts will continue to expand at Massport facilities.

PROJECT Highlights

Massport addresses reuse of materials through several performance standards credits within Massport's Sustainable Design Standards and Guidelines (SDSG). For example, the SDSG encourages designing projects for disassembly rather than demolition, so that materials can be salvaged and reused on- or off-site when the project is at the end of its useful life.



What can you do?

- Keep reusable ware with you at the office, such as a reusable mug and a water bottle. Reducing your use of single use products (e.g., plastic water bottles, paper cups, plastic silverware, Styrofoam containers) can greatly reduce your waste generation.
- Bring lunch from home in reusable containers.
- Make fewer copies - consider sharing print-outs at meetings.
- Print double sided.
- When ordering supplies, specify recycling content and products with no packaging, less packaging, or reusable packaging.

What is Massport doing?

Massport has a target to reduce waste generation per air passenger by 2% per year through 2030.

Massport is working with staff and tenants to identify ways to minimize waste sources (such as disposable products).

SEPTEMBER 2015

S M T W T F S

Did you know?

In 2014, Massport began working with airlines to donate unused snack food from flights to local charities. This pilot program diverted trash and provided a local benefit to the local community. Over 3,000 pounds of food was donated!

Massport often posts surplus supply on GovDeals (like eBay for government entities).

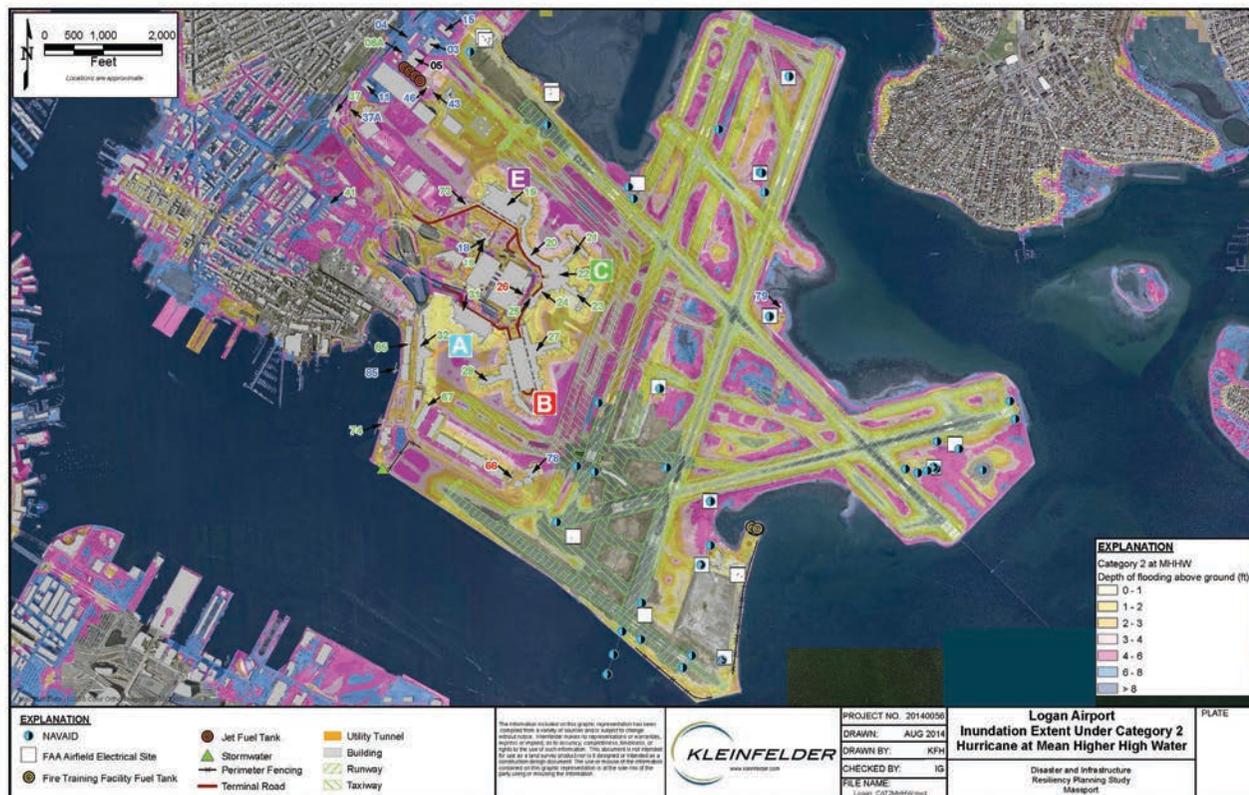
		1 Rental Car Center opened: 2013	2 Braintree Logan Express service began: 1986	3	4	5
6	7 Labor Day	8 Peabody Logan Express service began: 2001	9	10	11 Patriot Day	12
13	14 First AltWheels sponsorship: 2006	15	16	17	18	19 First-in-nation warm mix asphalt runway project complete: 2009
20	21	22	23 Delta commits to purchase of 50 electric GSE: 2009	24	25	26 Two-mile trail opened to public in Bedford: 2011
27	28	29	30			

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Climate Change Adaptation and Resiliency



Modeled results showing the worst possible hurricane landfall scenario for a Category 2 storm at Logan Airport.

What can you do?

One critical aspect of a resilient Massport is a resilient workforce. Ensuring employees and their home lives are well taken care of during an event enables staff to come to work to assist with the region's recovery. Things you can do at home:

- Know your flood risks - understand the potential sources that can threaten your home and their impacts. Plan to make a resilient home through measures that will reduce the aftermath of flooding even while you're away. These include

ensuring health and food/water security; installing energy back up; and having appropriate temporary flood barriers (such as plywood).

- Develop an operational "game plan" for your family in the event of an emergency such as a well-rehearsed evacuation route, well-stocked emergency supplies, and a strong social support system.

What is Massport doing?

Massport is preparing for anticipated future climate events through the development of a comprehensive Resiliency Program. Massport has identified a number of goals and strategies for becoming more resilient to threats, avoiding long-term disruption, limiting destructive impacts, and creating operational flexibility.

Check out Massport's Resiliency page online at:

www.Massport.com/Environment

PROJECT Highlights

In 2014, Massport completed a *Disaster and Infrastructure Resiliency Planning (DIRP) Study*, which assessed the risks associated with extreme weather events and climate change at Logan Airport and Massport's maritime facilities in South Boston. The DIRP Study focused on storm surge and sea level rise, but also addressed climate change indicators (precipitation, temperature, and wind).

OCTOBER 2015

S M T W T F S

Did you know?

Massport has a Floodproofing Design Guide, which provides planning and design considerations for improving the performance of critical Massport facilities during and after flood events.

In August 2014, Massport launched a new portal on its public website dedicated to sharing information on the Resiliency Program.

					1 Massport's first sustainability plan: 2004	2 Massport receives Leading by Example award: 2008	3 CNG fuel station opened and first CNG buses began service: 1995
4	5	6	7	8 Hanscom Field solar power installed: 2011	9	10	
11	12 Columbus Day	13	14	15	16	17	
18 Quieter Boeing 737-800 begins service at Logan: 2000	19	20	21	22	23	24	
25	26	27 Logan Airport received first FAA School Soundproofing Grant: 1981	28	29	30	31 Halloween	

Questions or ideas?

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Employee Wellness



In August 2014, Massport hosted a Fitness Friday kickball event.

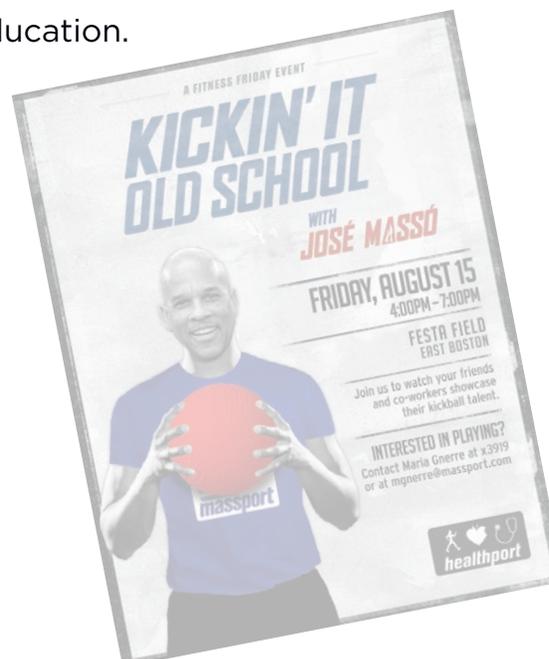
What can you do?

Get involved with Massport's wellness programs! Yearly offerings include Fitness Friday events, discounts at select YMCA locations, and on-site fitness classes. Check out the Massport Employee Portal for more information.

- Take a walk at lunchtime on the Harborwalk or East Boston Greenway.
- Bike to work.
- Consider starting (or continuing) a regular exercise plan.
- Have regular medical checkups for the whole family.
- Cook healthy meals and increase fruit and veggie intake. Many online resources have healthy recipes.

What is Massport doing?

Massport is committed to enhancing the health and well-being of its employees. It sponsors a health and wellness program with three main components: prevention, fitness, and education.



PROJECT Highlights

New in 2014, Massport offered Fitbits to all employees who wanted to participate in a walking program. Massport also launched a new website for employee wellness, www.ahealthyme.com. The site includes online workshops, resources, monthly newsletters, and logs where employees can track eating, training, sleep patterns, and other wellness activities.

NOVEMBER 2015

S M T W T F S

Did you know?

Massport offers a variety of health and wellness education courses throughout the year. Past topics have included stress management, healthy cooking, and eating/exercising for your body type.

Massport's *On the Move* program is a partnership between Massport and the YMCA of East Boston. The program includes regularly scheduled fitness classes at the LOC.

1 Daylight Savings Time	2 Framingham Logan Express service began: 1986	3 Woburn Logan Express service began: 1992	4 National Eating Healthy Day	5	6 Massport Board approves environmental management policy: 2000	7 JetBlue commercial service from Worcester Airport began: 2013
8	9	10	11 Veteran's Day	12	13 Health & Wellness Incentive Program deadline: 2015	14
15	16	17	18	19	20	21
22	23 Runway 14-32 begins operation: 2006	24	25	26 Thanksgiving Martin A. Coughlin Bypass Road opens: 2012	27	28
29	30					

Questions or ideas?

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Air Quality and Greenhouse Gas (GHG) Reduction



In 2010, Massport purchased 50 new alternative fuel buses to replace its aging fleet.

What can you do?

- Take alternative transportation modes to work such as the MBTA, Logan Express, walking, or biking.
- Visit the MassRides website or call 1-888-4COMMUTE to learn about transportation options.
- Remember to turn off lights and electronics, switch to LED bulbs, or improve home insulation. Energy saving efforts often result in less GHG emissions.
- Consider indoor air quality and get a plant!

- For your next car, consider a hybrid or low emission option.

What is Massport doing?

Massport is committed to minimizing air emissions and GHGs. Consistent with state goals, Massport has a target to reduce GHG emissions that result from Massport facility operations at Logan Airport by 40% by 2020 and 80% by 2050.

PROJECT Highlights

A component of Massport's Air Quality Management Program is the Alternative Fuel Vehicles (AFV) Program. The AFV Program is designed to replace conventionally fueled fleet vehicles with alternatively fueled or powered vehicles, when feasible, to help reduce emissions associated with operations.

DECEMBER 2015

S M T W T F S

Did you know?

Massport resurfaced the entire length of Runway 33L with warm mix asphalt, which is heated 75 to 50 degrees less than traditional hot mix. This process produces 20% less GHG emissions than standard hot mix asphalt.

The Rental Car Center consolidated the rental car shuttle bus fleet into a unified shuttle route system resulting in the elimination of 70 bus trips per hour and a 30% decrease in emissions.

		1 Rental Car Center solar power online: 2012	2 First Charlie Card machine installed: 2006	3 Recycling at Massport begins: 2008	4	5
6	7	8	9	10	11 Terminal A solar power online: 2011	12
13	14 First Environmental Data Report published: 2001	15	16	17	18	19 Conley Terminal first EMS certification: 2003
20	21 Logan Airport first EMS certification: 2003	22	23	24	25 Christmas	26
27	28	29	30	31		

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