

Stewart International Airport Sustainable Management Plan Achievements 2012

We are pleased to release the results of our sustainability program's achievements for calendar year 2012. During this time, we implemented a total of fourteen initiatives. The airport has saved \$54,000 in utility costs due to the completion of a lighting retrofit. A waste audit identified the potential to increase recycling diversion rates by almost 20%, and the airport switched its three main cleaning agents for the Terminal to Green Seal Certified products.

We have installed a new online noise complaint system, which makes it easier for the public to register noise complaints and for the airport to respond. We have also completed a noise exposure map to determine how our operations are affecting the community.

We look forward to continuing our progress on our sustainability program. As we continue implementing our sustainability plan, we look forward to working with tenants and the community to save money, decrease our environmental impact, and create lasting value at Stewart International Airport.

Quick Glance-2012 Sustainability Initiative Achievements

CO2 Savings

97.5 tons

Sustainability Initiatives
Underway

19

Electricity Savings

291,442 kWh

Sustainability Initiatives
Completed

17

SWF Sustainability Milestones Achieved-2012

Airport **Waste Audit** Complete

Smart Meters for Energy and Water Installed

Updated **Noise Contours** Complete

Green Cleaning Products in Terminal in Use

Anti Idling Program in Place

Airport **Lighting Retrofit** Complete

Investment Grade **Energy Audit** Complete

Air Quality and Climate Change

Goal: Minimize SWF's contribution to climate change, air pollution, and depletion of the ozone layer.

Initiatives	Status	Implementation Details
Enforce a Vehicle Anti-idling Policy for staff	Ongoing	Anti-idling policy in place; employee training occurred in 2012.
Create Preferred Parking for Alternative Fuel/ Hybrid Vehicles	Complete	Preferred parking in place. Monitoring usage of spaces
Continue to Participate in Port Authority Alternative Fuel Vehicles Program	Ongoing	100% of light duty vehicle purchases are alternative fuel
Coordinate Routine Maintenance of Equipment and Facilities	Ongoing	Sprocket maintenance program in place since 2012 to monitor and coordinate routine maintenance
Phase out CFCs, HCFCs, and Halons	Under Investigation	
Widen Taxiway C to Allow Two-way Use	Future initiative	
Encourage Tenant Airlines to use Alternative Aviation Fuels	Ongoing	Agency-wide initiative encouraging use of alternative aviation fuels
Use environmentally preferable cleaning products and implement integrated pest management	Ongoing	Three principle cleaning products used in Terminal are Green Seal Certified as of 2012

Metrics

SWF Greenhouse Gas Emissions- Summary, 2009	Total CO ₂ e Emissions
Aircraft	31,812
Ground Support Equipment	1,433
Attracted Travel	19,417
Fleet Vehicles	483
Buildings	
Stationary Combustion	644
Indirect Electricity	1,293
Refrigerants	45
Construction Equipment	170
Totals	55,297

Provide indoor air quality that meets or exceeds applicable state or federal guidelines.

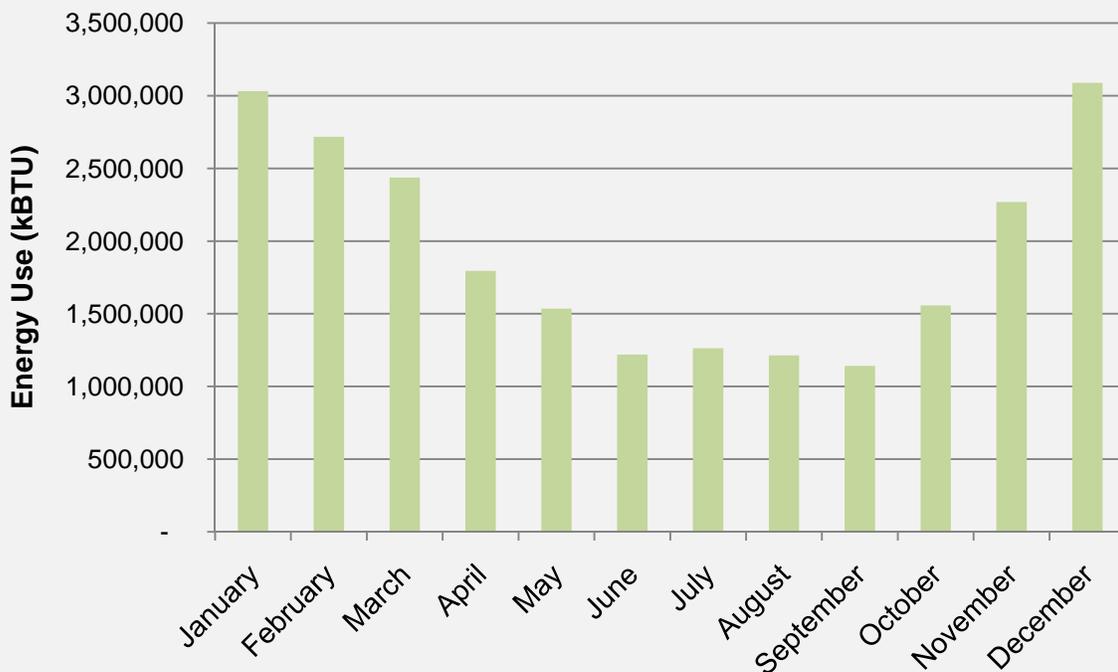
- Metric: Cleaning products used
- Baseline: Green Seal products not consistently used in terminal
- Current: Three principal cleaning products in terminal are now Green Seal Certified

Energy Conservation and Renewable Energy

Goal: Reduce energy consumption to the maximum extent possible and utilize clean and renewable energy sources

Initiatives	Status	Implementation Details
Include SWF Facilities in Multi-Facility Performance Based Energy Services Process	Complete	Investment grade audit completed in 2012; suite of efficiency upgrades to roll out in 2013
Perform Retro-Commissioning of Existing Building Systems	Ongoing	Smart metering system was first step to monitor building systems
Install More Energy Efficient Lighting	Complete	2012 comprehensive lighting retrofit completed
Install Daylighting Control Systems		
Install Lighting Occupancy Sensors	Ongoing	Some occupancy sensors installed in 2012
Purchase Energy Star Products	Ongoing	
Institute Office Equipment Shut-Off Policy	Ongoing	
Improve Escalator Operation	2014 initiative	
Install High Efficiency Hand Dryers	2014 initiative	
Replace Revolving Doors in Terminal	Future initiative	
Replace Roofing with High Albedo Material	Complete	Terminal roofing was replaced with white roof in 2011
Partner with NYSERDA for Energy Efficiency Programs and Funding	Ongoing	Working with NYSERDA on various efficiency initiatives
Purchase "Environmental Attributes" or Energy from Renewable Sources	Ongoing agency initiative	

SWF Building Energy Use, 2012



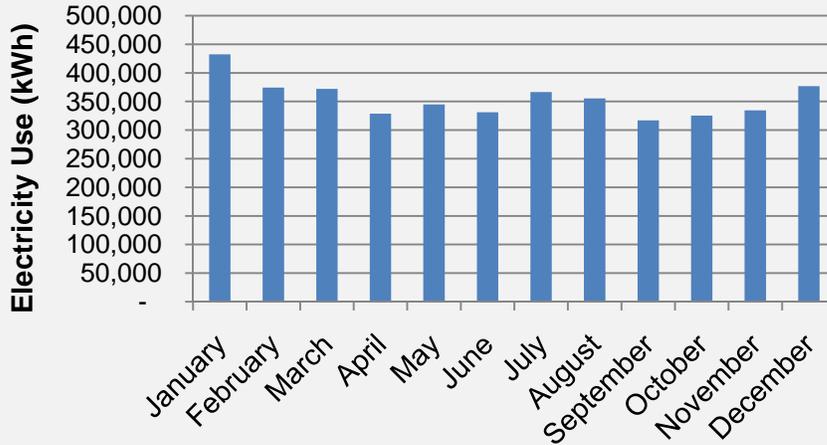
Metrics

Energy Conservation and Renewable Energy

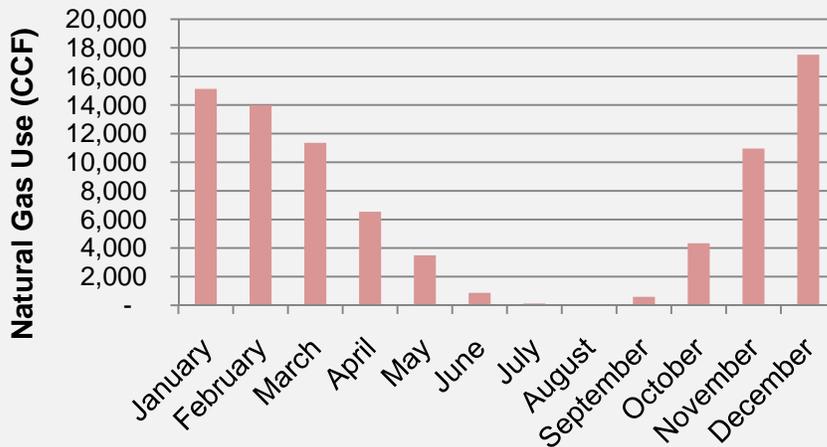
Goal: Reduce energy consumption to the maximum extent possible and utilize clean and renewable energy sources

Metrics

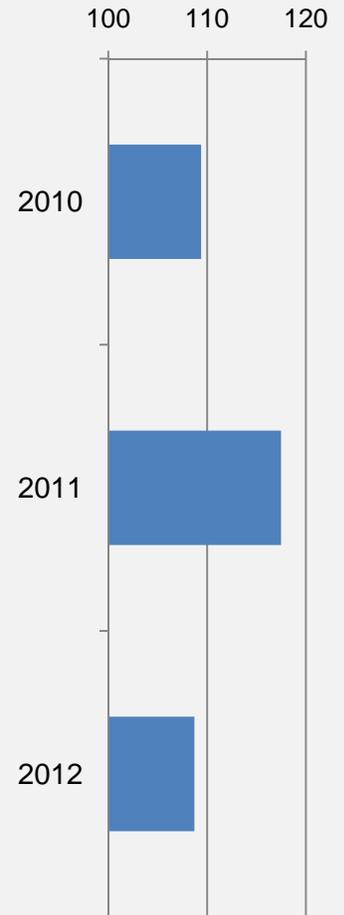
SWF Electricity Use, 2012



SWF Natural Gas Use, 2012



SWF Terminal Energy Use Intensity (kBTU/SF)



Port Authority/AvPorts Vehicle Energy Use

22,154 Gallons
of Diesel Fuel Used

11,035 Gallons
of Gasoline Used

153,271
Vehicle Miles Travelled

Noise Abatement

Goal: Minimize noise impacts on surrounding communities

Initiatives	Status	Implementation Details
Conduct a Noise Baseline Analysis	Complete	Completed Noise Exposure Map in 2012
Work with Municipalities on Compatible Land Use	Ongoing	Attended the DEC Watersheds Workshop in November 2012; will continue to engage with county/cities
Enhance Noise Complaint Program	Complete	Put in place new online noise complaint system in 2012
Conduct Noise-Related Community Outreach	Ongoing	Continue to engage with communities, National Guard, and Citizens Advisory Panel
Coordinate with the Air National Guard to Reduce Noise Associated with Military Aircraft Activity	Complete	Continue to work with National Guard on variety of environmental issues
Accommodate the FAA's Next Generation Air Traffic Control System	Ongoing agency initiative	Port Authority founding member of the National Alliance to Advance NextGen

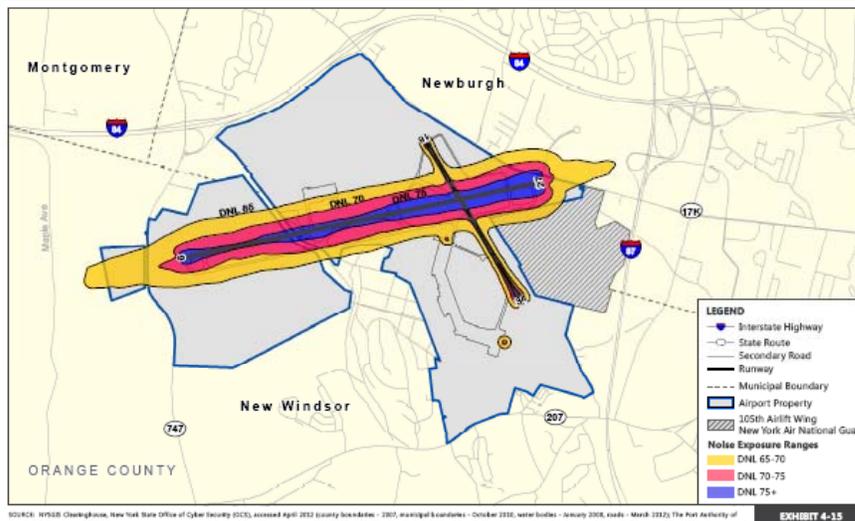
0

Construction Noise Complaints

1

Aircraft Noise Complaint

Metrics



SOURCE: NYSED Clearinghouse, New York State Office of Cyber Security (OCS), accessed April 2012; County boundaries - 2007; municipal boundaries - October 2010; water bodies - January 2008; roads - March 2012; The Port Authority of New York & New Jersey, 2012 (airport property, runways, taxiways, gateways); National Guard Bureau, January 2011 (105th Airlift Wing New York Air National Guard); Ricardo & Associates, Inc., Integrated Noise Model (version 7.0); 2012 (noise contours); PROVIDED BY Ricardo & Associates, Inc., May 2012.

EXHIBIT 4-15



2010 Noise Exposure Map

9

Households within 65 DNL

25

Residents within 65 DNL

Water quality protection and conservation

Goal: Minimize water consumption and contribute to the protection of water quality in the Moodna Creek Drainage Basin, Quassaic Creek and the Beaver Dam Lake watershed.

Initiatives	Status	Implementation Details
Conduct Water Use Audits	Complete	Completed water use audit in 2012
Install Water Efficient Fixtures	Ongoing	Installed several water efficient fixtures; continually evaluating opportunities for improvement
Install Water Efficient Landscaping and Irrigation Systems	Complete	Capability to capture water from pervious parking lot and irrigate medians of roadways
Install Pervious Pavement	Complete	Completed pervious parking lot; evaluating other opportunities
Coordinate with Orange County Water Authority	Ongoing	Met with OCWA in 2012 to discuss opportunities for collaboration
Install water metering	Complete	Installed smart water meters in 2012
Recycle deicing fluid	Under investigation	Met with National Guard to discuss their collection system; working on design for new collection system
Encourage tenants to use alternative deicing methods	Ongoing	
Develop a water reuse program	Under consideration	

Metrics	6,700 Gallons of Pavement Deicing Fluid Used	
	18,356 Gallons of Aircraft Deicing Fluid Used	41% Deicing Fluid Collection Rate
	1,405,656 Gallons of water used in Terminal	3.88 Gallons of water used per passenger

Solid Waste Reduction and Recycling

Goal: Minimize the generation of solid waste, and reuse and recycle collected waste to the greatest extent possible.

Initiatives	Status	Implementation Details
Develop a Comprehensive Waste Management Program	Complete	Recycling program implemented in all areas of the airport
Conduct Waste Management Education Program	Ongoing	
Evaluate alternative systems for waste collection and recycling	Complete	Completed waste audit in October 2012
Recycle all universal waste and dispose of hazardous wastes properly.	Complete	Universal Waste policy in place

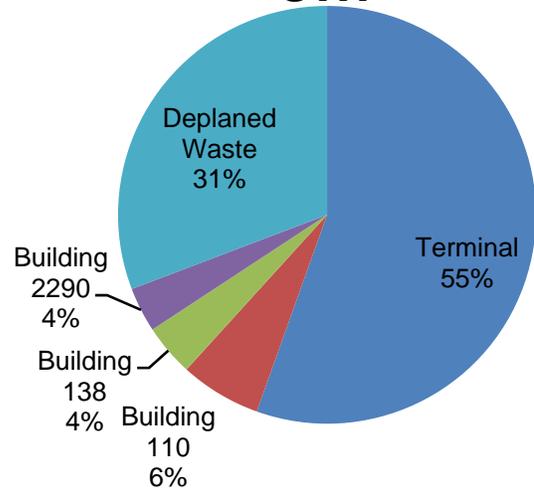
3.88

Tons of Waste per Month

21%

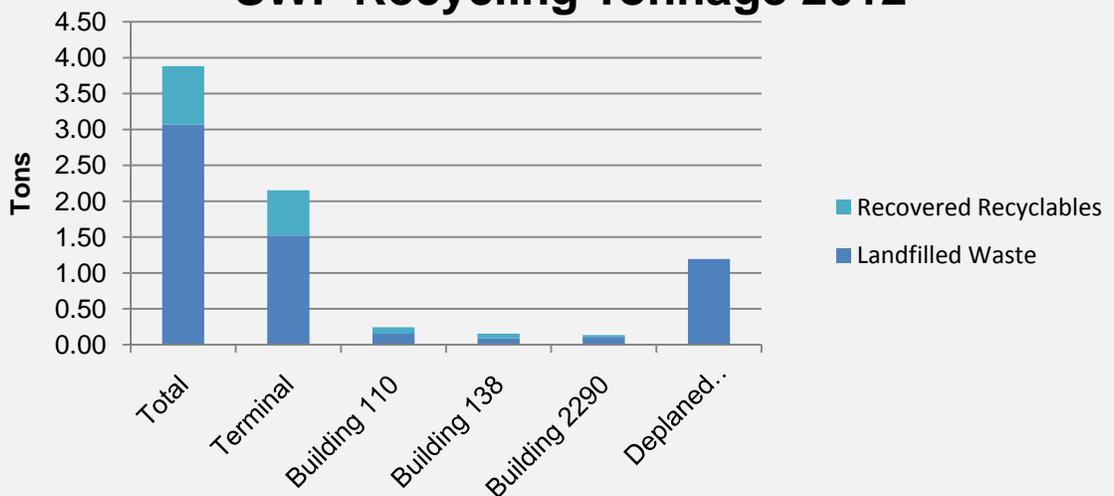
Recycling Diversion Ratio

Waste and Recycling, SWF



Metrics

SWF Recycling Tonnage 2012



Surface Transportation Management

Goal: Reduce reliance on single occupancy vehicles as a means of travelling to and from SWF as a means of alleviating future surface traffic congestion

Initiatives	Status	Implementation Details
Develop Transportation Demand Management Program	Ongoing	Initiatives in this section address the TDM initiative.
Encourage Newburgh-Beacon Shuttle Ridership	Ongoing	
Use Appropriately Sized Newburgh-Beacon Shuttle Buses	Complete	New shuttle buses smaller and more fuel efficient than predecessors
Coordinate with Local Transportation Agencies	Ongoing	Member of West of the Hudson Regional Transit Access Study in partnership with regional agencies
Install Bicycle Racks, Offer Secure Storage and Paint Bike Lanes	Under Consideration	Bicycle master plans released for agency; currently considering best methods for effective implementation

Socioeconomic Benefits and Community Engagement

Become a positive catalyst for development in the local and regional economy, and a good neighbor.

Initiatives	Status	Implementation Details
Prepare Annual Environmental Sustainability Report Card Showcasing SWF initiatives	Complete	Environmental sustainability report card for 2012 complete
Appoint an SWF Sustainability Officer	Complete	SWF has a sustainability coordinator on staff
Continue to Participate and Collaborate with Local and Regional Business	Complete	SWF holds Stewart Airport Commission and Citizens Advisory Panel meetings to interface with local business
Develop Sustainability Requirements for Businesses and Contractors	Under consideration	Under consideration on an agency wide basis
Coordinate with Orange County Workforce Investment Board	Ongoing	
Engage Local Communities on Economic Development Issues	Ongoing	
Establish Sustainability Education Program	Ongoing	Earth day and other programs help integrate sustainability into community activities.

Appendix - Airport Traffic

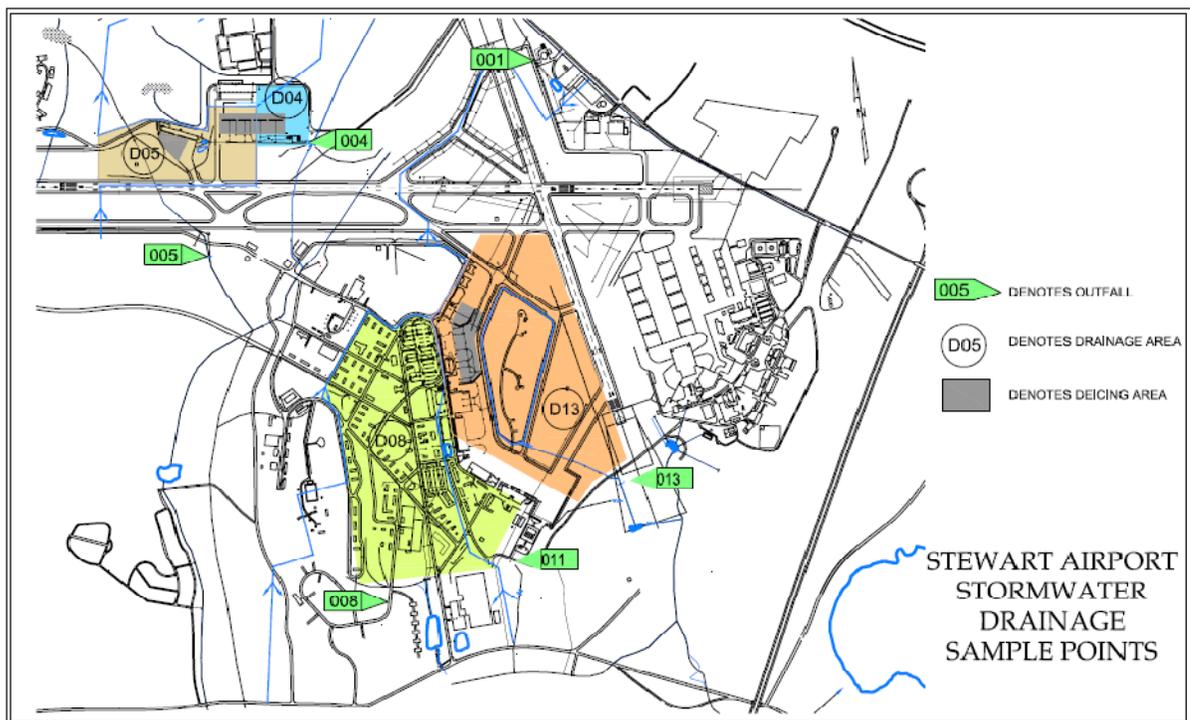
Metrics	Passenger Traffic		2011	2012
	Domestic Flights	Arriving Passengers	202,087	181,905
		Departing Passengers	209,966	182,943
		Total	412,053	364,848
	International Flights	Arriving Passengers		
		Departing Passengers		
		Total	1,601	0
	Transfer Passengers		19,366	-
	Transit Passengers		-	-
	Total Passengers		413,654	364,848
	Aircraft Movements		2011	2012
	Commercial Passenger Aircraft Movements	Domestic	7,478	7,334
		International	20	0
	Cargo Aircraft Movements	Domestic	1,159	1,352
		International	1	16
	Government and General Aviation Aircraft Movements	Domestic	37,851	38,402
		International	21	30
	Total Movements		46,530	47,134
	Day/Night Ratio			65%
	Cargo Traffic		2011	2012
	Arriving Cargo Tonnage	All-Cargo	13,088	14,497
		Passenger Aircraft	52	3
	Departing Cargo Tonnage	All-Cargo	3,335	42,36
		Passenger Aircraft	10	43
	Total Cargo Tonnage		16,263	14,543

Appendix – Environmental Performance

Metrics

Direct Energy Consumption	2012
Energy Consumption-Renewable Sources (GJ)	0
Energy Consumption-Non-Renewable Sources (GJ)	12,572
Energy Consumption-Total (GJ)	12,572
Indirect Energy Consumption	2012
Energy Consumption-Renewable Sources (GJ)	0
Energy Consumption-Non-Renewable Sources (GJ)	15,334
Energy Consumption-Total (GJ)	15,334
Energy Saved through Conservation	2012
Energy Conserved (GJ)	1,049

Quality of Stormwater by Regulatory Standards	2011	2012
Sample Locations (number)	8	8
Sample Frequency	1/month	1/month
Incidences of non-compliance	0	1



Waste by Type and Disposal Method	2012
Waste for Landfill-Tons	3.07
Waste for Incineration-Tons	0
Waste for Recycling-Tons	0.81
Waste for Composting-Tons	0
Diversion Ratio-Deplaned Waste	0
International Waste-Tons	0

Number of wildlife strikes per 10,000 aircraft movements	2012	7.31
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