



# Sustainability Opportunities



Let us know if you'd like more information. (Red font = JSC internal event)

Here are your **Aug 2014 Sustainability Opportunities** at the Johnson Space Center and in the greater Houston area.

Please participate, and contact [JSC-Sustainability@mail.nasa.gov](mailto:JSC-Sustainability@mail.nasa.gov) with additional opportunities.

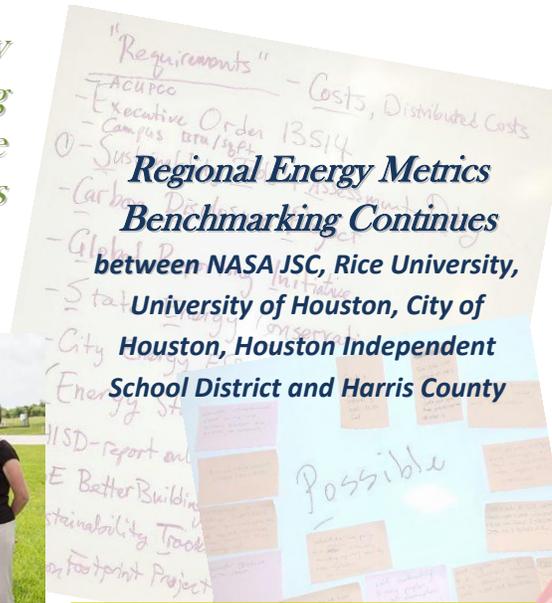
Get this electronically at <http://www.nasa.gov/centers/johnson/about/sustainability/index.html>

## Within this notification:

- ⇒ **A Look Back before we Look Ahead...**
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## ➔ A Look Back before we Look Ahead...

### Reducing our Energy Needs by Decreasing Energy Intensive Buildings



### Regional Energy Metrics Benchmarking Continues between NASA JSC, Rice University, University of Houston, City of Houston, Houston Independent School District and Harris County

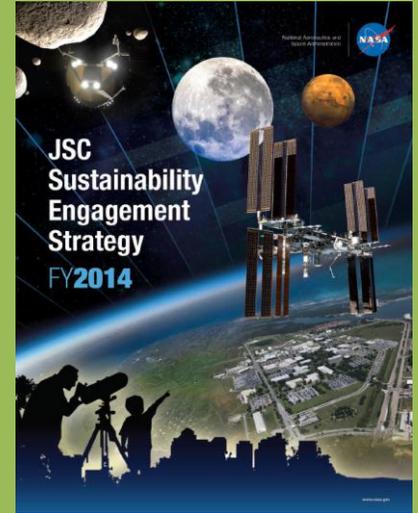
### 2014 Monthly Sustainability Focus Areas

- Jan - Feb = **LAND**
- Mar - Apr = **WATER**
- May - Jun = **PEOPLE**
- July - Aug = **AIR**
- Sept - Oct = **ENERGY**
- Nov - Dec = **MATERIALS**

Every Month Join the Fun & Educational Sustainability Activities related to our **JSC Sustainability Model**

Check out all the **Red Font** activities on the following pages!!

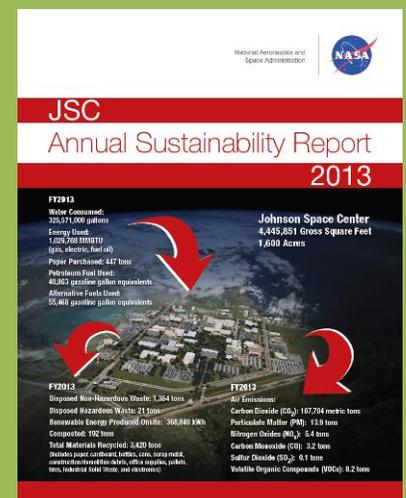
Do you know what "Sustainability" actually means? Read our **JSC Sustainability Engagement Strategy!!**



In our JSC Sustainability model, there are 6 natural resources we're trying to protect while meeting our mission objectives here at JSC. Employees can find out more at our internal **JSC Sustainability Webpage!**



You're making a difference in our **JSC Annual Sustainability Report!!**



FY2013		Johnson Space Center 4,445,821 Gross Square Feet 1,600 Acres	
Water Consumed:	225,171,000 gallons	Carbon Dioxide (CO <sub>2</sub> ):	107,704 metric tons
Energy Used:	1,029,708 MWH (117,918,000 kWh)	Perchloric Acid (PCA):	0.19 tons
Electricity:	985,000 MWH (117,600,000 kWh)	Hydrogen Peroxide (HP):	5.4 tons
Propane:	144,708 gallons	Carbon Monoxide (CO):	3.2 tons
Petroleum Fuel Used:	40,263 gallons (gasoline equivalents)	Sulfur Dioxide (SO <sub>2</sub> ):	0.1 tons
Alternative Fuels Used:	55,460 gallons (gasoline equivalents)	Waste Organic Compounds (WOC):	0.2 tons
Disposed Non-Hazardous Waste:	1,364 tons		
Disposed Hazardous Waste:	21 tons		
Renewable Energy Production (On-site):	306,880 kWh		
Composted:	192 tons		
Total Materials Recycled:	3,435 tons		
Materials Recycled (excluding metals, glass, ceramics, composites, construction materials, other plastics, rubber, tires, industrial 5000 tons and electronics)			



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## Sustainability Opportunities This Month

- **Houston Restaurants Weeks 2014 Aug 1<sup>st</sup> – Sept 1<sup>st</sup> benefitting Houston Food Bank**
  - Established in 2003, HRW is a fun-filled dining event benefitting the Houston Food Bank. Held simultaneously in restaurants in the greater Houston area, Houston Restaurant Weeks is the largest single annual fundraiser for America's largest food bank.
  - <http://www.houstonrestaurantweeks.com/>
- **Every Tues & Thurs – JSC Wellness Walks around the Ponds**
  - 9:00AM
  - POC: Richard Wooten
  - <https://starport.jsc.nasa.gov/en/programs/wellness/wellness-walks>
- **Saturdays – Armand Bayou Breakfast on the Bayou or Sunset Pontoon Cruise**
  - Every Saturday with reservation
  - Other opportunities available. Click this link for more info.
  - <http://www.abnc.org/things-to-do/pontoon-boat-cruises.html>
- **Aug 1<sup>st</sup> – Spotlight on the Regional Growth Forecast**
  - Houston-Galveston Area Council (H-GAC) 2040 regional population workshop
  - 8:30AM – 12:00PM
  - H-GAC Conference Room A, 2<sup>nd</sup> Floor
  - <http://www.h-gac.com/community/socioeconomic/2040-regional-growth-forecast/default.aspx>
- **Aug 2<sup>nd</sup> – Kayak at the Bayou Trash Bash at Buffalo Bayou**
  - 8:30AM – 3:00 PM
  - <http://www.meetup.com/KayakingHouston/events/192622212/>
- **Aug 4<sup>th</sup> – Demonstration of Sustainable Acquisition workshop**
  - 9:00AM – 11:00AM
  - JSC Gilruth/Coronado room
  - POC: Jeni Morrison
- **Aug 9<sup>th</sup> – (and every 2<sup>nd</sup> Saturday) Electronics Recycling at Ellington Field**
  - <http://www.houstontx.gov/solidwaste/clearlake.html>
- **Aug 12<sup>th</sup> – JSC Environmental Brown Bag – Cycling to JSC Q&A**
  - 12:00 – 1:00PM
  - B45 R751
  - POC: Michelle Fraser-Page
- **Aug 13<sup>th</sup> – JSC Sustainability Partnership Team (SPT) Monthly Meeting**
  - 3:00 – 4:30PM
  - B45 R751
  - POC: Chantel Whatley or Mike Ewert
- **Aug 19<sup>th</sup> – JSC Contractor Affairs Safety Committee (CASC)**
  - 9:00AM – 10:30AM, JSC Gilruth Lone Star Room
  - POC: Pat Ferrell
- **Aug 27<sup>th</sup> – JSC Contractor Environmental Partnership (CEP) Monthly Meeting**
  - 10:00AM – 11:00AM
  - B3 Collaboration Area
  - POC: Jeni Morrison

Get more external events at <http://www.cechouston.org/>



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## Sneak Peek at Events Past This Month

- **Sept 4<sup>th</sup> – JSC Environmental Stewardship Subcommittee Monthly Meeting**
  - 10AM – 11AM, B1 R820
  - POC: Brandon Campbell or Alan Amor
- **Oct 8<sup>th</sup> – Oct 14<sup>th</sup> –Coastal Resilience Conference**
  - Sponsored by the Galveston Historical Foundation
  - <http://www.galvestonhistory.org/preservation/center-for-coastal-heritage/coastal-resilience-conference/coastal-resilience-conference-2014>
- **Oct 18<sup>th</sup> – Energy Day, Education for the Energy City**
  - 11:00AM – 5:00PM
  - Sam Houston Park
  - <http://energydayfestival.org/>
- **Nov 18<sup>th</sup> – 20<sup>th</sup> –Clean Air Through Energy Efficiency (CATEE) Conference**
  - Sponsored by Texas A&M
  - <http://catee.tamu.edu/home>



## How can I be more sustainable?

National Aeronautics & Space Administration

January 2014 OMB Scorecard on Sustainability/Energy

	<b>Scope 1&amp;2 GHG Emission Reduction Target</b> For Scope 1&2 GHG Reduction Target of 18.3% by 2020: 16.3% reduction in 2013 and on track		Score: <b>GREEN</b>
	<b>Scope 3 GHG Emission Reduction Target</b> For Scope 3 GHG Reduction Target of 12% by 2020: 94.4% reduction in 2013 and on track		Score: <b>GREEN</b>
	<b>Reduction in Energy Intensity</b> Reduction in energy intensity in goal-subject facilities compared with 2003: 36.4% and on track for 30% by 2015		Score: <b>GREEN</b>
	<b>Use of Renewable Energy</b> Use of renewable energy as a percent of facility electricity use: Total of 7.6% from renewable electricity sources including at least 3.75% from new sources (thermal, mechanical, or electric)		Score: <b>GREEN</b>
	<b>Reduction in Potable Water Intensity</b> Reduction in potable water intensity compared with 2007: 30.5% and on track for 28% in 2010		Score: <b>GREEN</b>
	<b>Reduction in Fleet Petroleum Use</b> Reduction in fleet petroleum use compared to 2005: 36.7% and on track for 20% in 2015		Score: <b>GREEN</b>
	<b>Green Buildings</b> Sustainable green buildings: 14.22% GSP of inventory sustainable		Score: <b>YELLOW</b>

**Featured Story:** The Office of Management and Budget (OMB) released the 2014 Scorecards on Sustainability and Energy. How are we doing at NASA?

Get the rest of the information here:  
<http://www.nasa.gov/agency/sustainability/omb/mbc2014.html>

Find tips on your own resource savings in the JSC FY2014 Sustainability Engagement Strategy:  
<http://www.nasa.gov/centers/johnson/about/sustainability/index.html>

**Calculate your ecological footprint!** How many Earth's does it take to sustain your lifestyle if everyone in the world lived like you?

<http://myfootprint.org/>

**Ten Ways to Go Green and Save Green**

[http://www.worldwatch.org/resources/go\\_green\\_save\\_green](http://www.worldwatch.org/resources/go_green_save_green)



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## **Additional Links for JSC Employees and Contractors (internal only)**

### **JSCs Internal Sustainability Webpage**

*(also accessible via the JSC Internal Homepage → Around JSC → Sustainability Initiatives)*

<http://jsc-web-www6.jsc.nasa.gov/ja/ja13/capp.cfm>

### **JSC Photos of Earth Day 2014 and local wildlife**

<https://io.jsc.nasa.gov/app/browse.cfm?cid=51063&&pn=1&rpp=25&ct=1>

<https://io.jsc.nasa.gov/app/browse.cfm?cid=49948&&pn=2&rpp=25&ct=1>

<https://io.jsc.nasa.gov/app/browse.cfm?cid=49948>

### **How do I monitor the energy usage in my JSC building?**

<http://ebiem:8080/idashboards/?guestuser=guest>

### **JSC Environmental Brown Bag Presentations**

<http://jsc-web-www6.jsc.nasa.gov/bbs/scripts/>

(Scroll down to “Environmental Brown Bag”)