



Sustainability Opportunities

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



Here are your **April 2015 Sustainability Opportunities** at the Johnson Space Center and in the greater Houston area. Please participate, and contact 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...**
- ⇒ **Upcoming Events**
- ⇒ **Featured Story "Our Planet is Changing. We're on it!"**
- ⇒ **How can I be more sustainable?**
- ⇒ **Internal NASA Links**

A Look Back before we Look Ahead...

Read our JSC 2014 Annual Sustainability Report!!

Do you know how good of a job we're doing at our center? Really good! And, we always have further to go. Our Annual Sustainability Report has engaging, short articles and pictures to help you get a sense of the awesome accomplishments of our center.

Water

Water Usage
JSC uses over 117 million gallons of water each year. In 2014, we reduced our water usage by 1.5% compared to 2013. This is a significant achievement, especially considering that we are a large, complex facility with many different types of buildings and equipment.

Water Consumption

Water Works

Water Line Project Update

Challenge: Think you can do better than JSC? Check your numbers at home to see if you can!!!

Learn more by [clicking this link](#), or the image of the Annual Sustainability report on the right hand column.

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. Employees can find out more at our internal [JSC Sustainability Webpage!](#)



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

New

JSC Annual Sustainability Report 2014

FY2014

- Water Consumed: 291,517,961 gallons
- Energy Usage: 1,000,000 MMBTU (gas, electric, fuel oil)
- Paper Purchased: 7777 tons
- Polychlorinated Biphenyls (PCBs): 26,344 gallons (equivalent to 100,000 gallons of oil)
- Alternative Fuels Used: 15,800 gallons (equivalent to 100,000 gallons of oil)

Johnson Space Center

- 4,416,220 Gross Square Feet
- Over 6,500 Parking Spots
- 1,600 Acres
- Over 10,000 Employees

FY2014

- Disposited Non-Hazardous Waste: 1,200 tons
- Disposited Hazardous Waste: 18 tons
- Recyclable Energy Produced Onsite: 375,521 kWh
- Compost: 182 tons
- Total Materials Recycled: 2,870 tons
- Recycled Paper: 1,000 tons
- Recycled Plastic: 1,000 tons
- Recycled Metal: 1,000 tons
- Recycled Glass: 1,000 tons
- Recycled Textiles: 1,000 tons
- Recycled Other: 1,000 tons

FY2014

- Air Emissions: 167,102 metric tons
- Carbon Dioxide (CO2): 167,102 metric tons
- Particulate Matter (PM10): 15.5 tons
- Mercury (Hg): 0.27 tons
- Carbon Monoxide (CO): 6.65 tons
- Sulfur Dioxide (SO2): 0.1 tons
- Volatile Organic Compounds (VOCs): 20.83 tons

2015 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!!



Sustainability Opportunities

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



Upcoming Events

- **Apr 1st – 15th: Send your pictures of our beautiful world for Earth Day!**
 - The JSC Environmental Office is asking civil servants and contractors to send the Environmental Office your favorite pictures (.jpg format).
 - The pictures can be just about anything having to do with the environment – people in nature, flora, fauna, and weather. We want to see your perception of the environment through your own eyes, and share that with the rest of JSC.
 - We're planning to have these displayed in either B3 café and/or B9 and potentially on the JSC homepage.
 - POC: Alex Moore-VanDyke (alexandra.j.moore-vandyke@nasa.gov)
- **Apr 1st – 30th: Take the Save Water Pledge.**
 - <http://www.mywaterpledge.com/campaign/national-campaign-2015/>
- **Apr 11th: Earth Day Houston!!**
 - Come see vendors, artists, recycle your Styrofoam and enjoy the weather!
 - 11:00AM – 7:00PM, Discovery Green
 - <http://www.earthdayhouston.org/>
- **Apr 11th: Second Saturday Boat Tours at Buffalo Bayou**
 - 10:00AM – 2:00PM, 30 min rides (last ride departs at 1:30PM)
 - Cash only, weather permitting, <http://buffalobayou.org/calendar/boat-tours/>
- **Apr 14th: JSC Environmental Brown Bag – B12 Wind Turbines & NREL Partnership**
 - 12:00PM – 1:00PM
 - B45 CR(TBD)
 - Includes a tour of B12's LEED features and green roof!
 - *Closed toed shoes & slacks required*
 - POC: Michelle Fraser-Page
- **Apr 22nd: 45th Anniversary of Earth Day, <http://www.earthday.org>**
- **Apr 22nd: Tiny Houses in Houston Presentation and Tour**
 - An Earth Day show & tell with two ACTUAL tiny houses for you to tour right here outside the GBRC after the talk!
 - 6:00PM – 8:00PM
 - City of Houston's Green Building Resource Center (GBRC), 1002 Washington Ave
 - POC: <http://www.greenhoustontx.gov/gbrceducation.pdf>
 - RSVP: <http://usgbctexasgulfcoast.org/meetinginfo.php?id=88&ts=1426538677>
- **Apr 22nd: JSC Earth Day 2015!! JSC Safety, Health and Environmental Fair**
 - 10:00AM – 1:00PM
 - Gilruth Center
 - Bring your paper to shred, books to swap, get a sapling tree to plant, discover additional ways to be "green" both at work and at home, see the U.S. Coast Guard Helicopter, JSC's mobile command unit, the area's only monster fire brush truck, and enjoy multiple food trucks for your lunch options!!
- **Apr 24th – 26th: Earth Day Texas 2015 (the 2nd largest Earth Day in the nation)**
 - Come see the NASA booth!
 - 10:00AM – 6:00PM each day
 - Fair Park, in the heart of Dallas, Texas
 - <http://earthdaytx.org/>



Sustainability Opportunities

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



- **Apr 25th: Exploration Green Earth Day Volunteer Activity**
 - 8:00AM – 12:00PM
 - Meet at the green space behind 1891 Neptune Lane, 77062
 - Help clear grass, plant trees, and develop mile markers
 - Bring work gloves, water, and energy!
 - POC: Doug Peterson (dougpeterson@earthlink.net)
- **May 9th: Harmony Public Schools I-SWEEEP Judging**
 - I-SWEEEP = International Sustainable World Energy, Engineering, and Environment Project
 - Need NASA employees and contractors to volunteer to judge student projects
 - George R. Brown Convention Center
 - POC: Laurie Peterson
- **May 14th – 17th: STAR Master Composter Program**
 - Green Building Resource Center, 1002 Washington Avenue
 - Certified YardWise Master Composters (MC) complete a 20-hour training course by approved MC instructors, as well as 20 hours of volunteer community service in public compost education and awareness (within six months of completing the course). MC training courses will provide at least 16 hours of classroom time to be supplemented with four hours of hands-on training. MC training courses will utilize reference texts and curriculum given by Steve Stelzer, Program Director. Eight guest speakers familiar with composting at various levels and waste diversion in general will provide the majority of the instruction and insight to the attendees.
 - <http://www.greenhoustontx.gov/gbrceducation-2015spring.pdf>
- **May 20th: Upward Mobility – Redefining Transportation in Houston**
 - Workshop; 8:30AM – 11:00AM, Transportation Fair; 11:00AM – 1:00PM
 - Two Allen Center, 1200 Smith St.
 - Register: <https://www.eventbrite.com/e/upward-mobility-redefining-transportation-in-houston-tickets-16382625875>
- **Jun 2nd – 4th: JSC APPEL Introduction to Green Engineering**
 - 8:30AM – 4:30PM
 - JSC B12 CR(TBD)
 - [Click here to Register](#); [Click Here for Course Information](#)
- **Jun 3rd: The Market-Moving Link Between Sustainability & Wellness**
 - 8:30AM – 11:00AM
 - Location TBA
 - POC: Houston's Green Office Challenge, Lisa Lin
- **Jun 22nd: EPA brings CREAT train the trainer workshop to Houston**
 - CREAT = Climate Resilience Evaluation & Awareness Tool
 - City of Houston's Green Building Resource Center (TBC)
 - POC: Laurie Peterson



Sustainability Opportunities

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



Featured Story



April 22nd 2015 marks the 45th Earth Day celebration. <http://www.earthday.org/2015>

Are you better than JSC? Since 2000, JSC has reduced energy consumption by almost 10%. We're diverting over 50% of our total waste from landfills through recycling, reuse (including composting), and reduction. We've also planted over 90% of the JSC landscaping with native vegetation, decreasing our water needs in most cases.

What are you doing? What can you do?

- 1) Come to the JSC Safety, Health, and Environmental Fair at the Gilruth gym and Live Oak Pavilion from 10:00AM – 1:00PM. Bring your paper to shred, books to swap, get a sapling tree to plant, discover additional ways to be “green” both at work and at home, see the U.S. Coast Guard Helicopter, JSC’s mobile command unit, the area’s only monster fire brush truck, and enjoy multiple food trucks for your lunch options!!
- 2) Calculate and reduce your [ecological footprint](#).
- 3) Get involved in your community (this is a great month to start!)
- 4) Consider other ways you can contribute by reading about all the aspects of sustainable living in our JSC Sustainability Engagement Strategy.

Find information on all [NASA JSC Sustainability effort on the external homepage](#) (click hyperlink, scan this QR code, or Google “NASA JSC Sustainability”).



“My goal as the JSC Center Operations Director is to create a working environment where JSC employees feel happy, comfortable, and productive to support our mission. Similarly, my vision for sustainability is that it’s something we don’t even think about; it’s ingrained in our thinking.

We just do it.”

- Joel Walker, JSC Center Sustainability Officer



Sustainability Opportunities

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



How can I be more sustainable?

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

<http://www.footprintnetwork.org/en/index.php/GFN/page/calculators/>



Internal NASA Links

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 the Natural Champions Meet Up, Earth Day and local wildlife

<http://io.jsc.nasa.gov/app/browse.cfm?cid=56553&ord=4> (new)

<http://io.jsc.nasa.gov/app/browse.cfm?cid=59636&ord=4> (new)

<http://io.jsc.nasa.gov/app/browse.cfm?cid=55905&ord=4&&pn=3&rpp=25&ct=1>

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

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

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”)

JSC Environmental Newsletter Archives

<https://jsc-web-www6.jsc.nasa.gov/ja/ja13/greenside.cfm>