



# Sustainability Opportunities



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

Here are your **November 2013 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.

## Within this notification:

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## A Look Back before we Look Ahead...



### [2013 Energy Competition Extended through Oct 31<sup>st</sup>!](#)

You heard about the energy competition, and to hold true to our 10-week plan, we extended the energy competition until Oct 31<sup>st</sup>.

**Winners will be awarded and photographed at the "Sustainability Initiatives Booth" at S&H Day at 11:30AM November 14<sup>th</sup>** and the award parties will be the following week. Contact the [JSC Green Team](#) with any questions.

### *The 2014 Sustainability Engagement Strategy Released at the JSC Safety & Health Day event - Nov 14<sup>th</sup>*

See our energy savings experts and sign up for a tour of the Waste Management (WM) single-stream recycling facility!

### Sonny Carter Training Facility Saved Energy

Three new chillers were installed and we replaced the parking lot lights with lower power LEDs. For a good part of the year, we only ran 4 of our 5 chillers. In addition we started using only half the overhead NBL lights during the day.



We found we didn't need to use all of them. The lights are 1000 watts a piece. What we did use we started turning on later in the morning and then turned them off as soon as the work was done. This took some getting used to, but eventually we formed a habit of turning them off and on.

These changes reduced overall energy usage by 13%.

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. Find out more at the [JSC Sustainability Webpage!](#)



You're making a difference in our [JSC Annual Sustainability Report!!](#)

**JSC Annual Sustainability Report 2012**

- 12% REDUCTION in electricity consumption from FY 2011
- \$54,400,000 in equipment redistribution instead of disposal
- 404,644 kWh of renewable energy generated onsite
- 99% REDUCTION in hazardous waste generation over 20 years
- 280,000 GALLONS of water runoff saved for irrigation
- 321,660 SQUARE FEET of certified green building space
- 750 ACRES containing rare Texas Coastal Prairie habitat
- 11% REDUCTION in water use from FY 2011
- \$30,000 saved in 10 months through a JSC Green Team energy saving competition
- 3 more efficient chillers installed
- 69% REDUCTION in petroleum fuel use in fleet vehicles from FY 2005
- One Presidential Greenhouse Award earned by NASA



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## Sustainability Opportunities this month

*Now's the time to share your sustainability success stories for FY 2013!! Send your stories to [JSC-Sustainability@nasa.gov](mailto:JSC-Sustainability@nasa.gov). Your story might end up in the 2013 JSC Annual Sustainability Report or on the [Sustainability Web Site](#)! Make your voice heard by December 1st!*

- **JSC Upcoming Innocentive NASA@work Challenge Launch**
  - The submission period will open on October 30, 2013 and run through November 27, 2013.
  - We will select up to five winning Challenge concepts. Winners (either individuals or teams) will receive a Certificate of Excellence from the Office of the Chief Technologist and the Space Technology Mission Directorate. In addition they will also be eligible for up to 0.5 FTE in FY14 to further develop a detailed Concept of Operations and draft competition rules to support launch of a new Centennial Challenge that addresses the submitted technology need.
  - For full details and requirements please visit <http://nasa.innocentive.com> to access the full challenge write-up.
- **Nov 1<sup>st</sup> – Mommy and Me Classes at Armand Bayou Nature Center**
  - 9:30AM – 11:00AM
  - Armand Bayou Nature Center, 8500 Bay Area Blvd, 77507
  - Provides a fun introduction to animals, plants, and other nature topics.
  - <http://www.abnc.org/educational-programs/mommy-me-classes.html>
- **Nov 1<sup>st</sup> – Effluent Bacterial Loading Workshop**
  - 1:00PM – 5:00PM
  - League City Civic Center, 400 West Walker Street, League City, TX 77573
  - Texas A&M Engineering and Extension Service and Galveston Bay Conservation and Preservation Association present this Effluent Bacterial Loading Workshop.
  - [http://www.cechouston.org/ai1ec\\_event/effluent-bacterial-loading-workshop/?instance\\_id=124218](http://www.cechouston.org/ai1ec_event/effluent-bacterial-loading-workshop/?instance_id=124218)
- **Nov 1<sup>st</sup> – 8<sup>th</sup> Annual Feast with the Beasts**
  - 7:00PM – 11:00PM
  - Houston Zoo
  - \$95 Zoo Members; \$105 Non-Members
  - Musical guest: Smash Mouth
  - <http://www.houstonzoo.org/feast/>
- **Nov 2<sup>nd</sup> – Nurture Nature Festival**
  - 1:00PM – 4:00PM
  - Baytown Nature Center
  - [http://www.cechouston.org/ai1ec\\_event/nurture-nature-festival-2/?instance\\_id=](http://www.cechouston.org/ai1ec_event/nurture-nature-festival-2/?instance_id=)
- **Nov 2<sup>nd</sup> – (and Every Saturday) Sierra Walkers @ Nassau Bay Post Office**
  - 7:30AM – 9:30AM
  - Meet across from the Nassau Bay post office at 18214 Upper Bay Rd, 77058
  - After a 3-mile walk, we have breakfast at a nearby deli.
  - [http://www.cechouston.org/ai1ec\\_event/sierra-walkers/?instance\\_id=47461](http://www.cechouston.org/ai1ec_event/sierra-walkers/?instance_id=47461)



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- **Nov 2<sup>nd</sup> – Pontoon Boat Cruises at Armand Bayou**
  - 8:00AM – 9:30AM
  - Armand Bayou Nature Center, 8500 Bay Area Blvd, 77507
  - Breakfast and Sunset cruises available
  - [http://www.cechouston.org/ai1ec\\_event/pontoon-boat-cruises/?instance\\_id=57267](http://www.cechouston.org/ai1ec_event/pontoon-boat-cruises/?instance_id=57267)
- **Nov 6<sup>th</sup> – GreenGov Dialogue on Energy Management**
  - 8:30AM – 2:30PM
  - CEQ sponsored GreenGov Conference normally held in October annually in DC, is replaced this year with a single day event.
  - <http://www.ofee.gov/revised-agenda-green-gov-dialogue-on-energy-management.pdf>
- **Nov 6<sup>th</sup> – (and Every Wednesday until Dec 18<sup>th</sup>) Farmers Market in front of City Hall**
  - 11:00AM – 1:30PM
  - Houston's City Hall at 901 Bagby
  - It's not just vegetables, go see the food trucks!
  - <http://www.greenhoustontx.gov/farmersmarket.html>
- **Nov 8<sup>th</sup> – JSC Flex Friday**
- **Nov 8<sup>th</sup>- 9<sup>th</sup> – Gulf Coast Bioneers Conference turning Vision into Action**
  - Friday: 8:30AM – 3:00PM at AIA (Downtown)
  - Saturday: 8:00AM – 6:00PM at Kirksey Architecture (I10/610W)
  - Join Houston Bioneers for a two-day forum exploring the practical solutions and innovative social strategies that are revitalizing our community. Connect with other on-the-ground innovators, change agents, and thought leaders from business, education, government, and the community.
  - <http://gulfcoastbioneers.org/>
- **Nov 9<sup>th</sup> – Compost Bin / Rain Barrel Sale**
  - 9:00AM – 1:00PM
  - Houston Permitting Center (aka – Green Building Resource Center) at 1002 Washington Avenue, Houston, 77002
  - <http://www.greenhoustontx.gov/2013compostrainbarrel-english.pdf>
- **Nov 9<sup>th</sup> – 10<sup>th</sup> – 33<sup>rd</sup> Annual Martyn Farm Harvest Festival**
  - Armand Bayou Nature Center, 8500 Bay Area Blvd, 77507
  - Limited parking is available for a nominal fee at the nature center with shuttle bus transportation available to and from overflow parking at USRA, 3600 Bay Area Blvd.
  - [http://www.cechouston.org/ai1ec\\_event/33rd-annual-martyn-farm-harvest-festival/?instance\\_id=119950](http://www.cechouston.org/ai1ec_event/33rd-annual-martyn-farm-harvest-festival/?instance_id=119950)
- **Nov 12<sup>th</sup> – JSC Environmental Brown Bag –Green Building Resource Center**
  - 12:00PM – 1:00PM
  - B45/751
  - POC: Michelle Fraser-Page
- **Nov 14<sup>th</sup> – JSC Environmental Stewardship Subcommittee Liaison Meeting**
  - 1:30-2:30PM
  - B-45, R-751
  - POC: Alan Amor
- **Nov 15<sup>th</sup> - America Recycles Day**
  - <http://americarecyclesday.org/join-an-event>



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- **Nov 15<sup>th</sup> – JSC Book Swap-It**
  - 11 AM – 1:30PM
  - Bring your old books/magazines to the B3 café to swap (“recycle”) them out for new reading material. Books and magazines should be gently used.
  - You can drop off unwanted books and magazines in the B3 and B11 cafés from November 12th through 14th if you prefer to get them out of the house early.
  - Contact the Environmental Info Line at [JSC-Environmental-Office@mail.nasa.gov](mailto:JSC-Environmental-Office@mail.nasa.gov) or (x36207) with questions.
- **Nov 22<sup>nd</sup> – JSC Flex Friday**
- **Nov 28<sup>th</sup> – NASA Holiday → Happy Thanksgiving!!**
  - 21<sup>st</sup> Annual TXU Turkey Trot (supporting Neighborhood Centers and Sheltering Arms) - <https://turkeytrot.shelteringarms.org/>



## Sneak Peek at Upcoming Events

- **Dec 2013 – Holiday Cruises along Buffalo Bayou**
  - Weekly on Saturday Dec 7<sup>th</sup> – Dec 21<sup>st</sup>, 2013, 5:00PM – 7:30PM
  - Boat landing and pick up location is at downtown's Allen's Landing (Commerce and Main Street) on the other side of Main Street Bridge from the Spaghetti Warehouse.
  - [http://www.cechouston.org/ai1ec\\_event/2013-christmas-cruises-along-buffalo-bayou-2/?instance\\_id=](http://www.cechouston.org/ai1ec_event/2013-christmas-cruises-along-buffalo-bayou-2/?instance_id=)
- **Dec 5<sup>th</sup> – JSC Environmental Stewardship Subcommittee 4<sup>th</sup> quarter meeting**
  - 10:00-11:00
  - B-1 R-820
  - POC: Alan Amor
- **Dec 6<sup>th</sup> – JSC Flex Friday**
- **Dec 10<sup>th</sup> – JSC presents “Greening the Cafeterias”**
  - 11:30-12:00
  - B3 Collaboration Center
  - POC: Laurie Peterson
- **Dec 10<sup>th</sup> – JSC Environmental Brown Bag – Panel discussion with UH, UHCL, Rice and City of Houston**
  - 12:00-1:00
  - B12/TBD
  - POC: Michelle Fraser-Page
- **Dec 11<sup>th</sup> – JSC Sustainability Partnership Team Meeting**
  - 3:00-4:30
  - Location TBA
  - POC: Mike Ewert
- **Dec 20<sup>th</sup> – JSC Flex Friday**
- **Dec 25<sup>th</sup> - NASA Holiday → Happy Holidays!!**



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## 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://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)

**Hot tips for a cool summer!** Save energy in summer and fight climate change. Get tips to reduce energy bills and greenhouse gas emissions.

<http://www.epa.gov/epahome/hi-summer.htm>

**Landscaping makes WaterSense!** Homeowners or businesses can use WaterSense-labeled controllers for landscape watering. Landscaping water controllers with the WaterSense label meet criteria for efficiency and performance.

<http://www.epa.gov/watersense/products/controltech.html>

## Check out the "No Impact Project"

<http://noimpactproject.org/>



## Additional Links

### Top Greenest Cities in North America (2011)

<http://www.siemens.com/press/pool/de/events/2011/corporate/2011-06-northamerican/northamerican-gci-report-e.pdf>

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

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

### USGBC Texas Gulf Coast Chapter Releases "Is Houston Solar Ready?"

**Publication:** Available for free [download](#).

### Sign up for the Citizen's Environmental Coalition Newsletter

<http://www.cechouston.org/cec-programs/houston-environmental-news-update/>

### City of Houston's Official Green Site

<http://www.greenhoustontx.gov/index.html>

### Sustainable Houston

<http://www.sustainablehouston.org/index.html>

### US Green Building Council Houston

<http://www.usgbc-houston.org/>