

Sustainability Opportunities

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Executive Order Summary



2016 Monthly Focus Areas

January & February March & April May & June

LAND

WATER

PEOPLE

July & August September & October November & December

AIR

ENERGY

MATERIALS

Online: <http://www.nasa.gov/centers/johnson/about/sustainability>

At the Johnson Space Center (JSC)

- Already reduced energy consumption 10% since 2000
- Planting 90% native vegetation, decreasing water needs
- Diverting 50% of trash from landfills through recycling, reuse, and reduction

What are you doing?

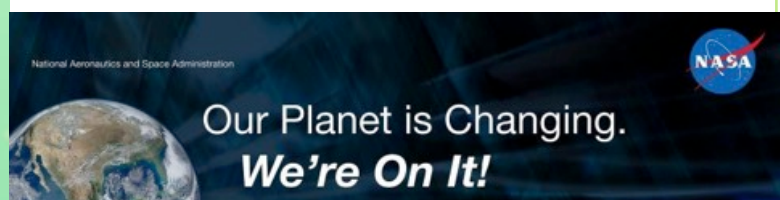
- Calculate and reduce your ecological footprint
- Get involved in your community

• What else?



"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



If everyone lived your lifestyle, how many Earths would it take? Calculate your **ecological footprint!**

#nasagoesgreen

Use to see how others are working sustainably!



<http://www.pocacito.org/us>

POCACITO in Houston

Post-Carbon Cities of Tomorrow

POCACITO is a European research organization aiming to create sustainable, post-carbon cities. POCACITO facilitates cities' social, environmental, and economic health through shifts towards sustainability, and seeks to bridge gaps in development in cities such as Houston, Las Vegas, and Memphis. These cities have already implemented sustainable infrastructure ideas (in Houston, plans are in motion to retrofit low-income housing to improve overall energy efficiency), but are detached from a larger picture.

POCACITO held a workshop in Houston the first week of June, and posed an important question: What are the three most important urban issues to address in Houston?

Participants chose: 1) water management and flooding. How can Houston develop infrastructure that improves water management, lessens

threats of flooding and reduces water consumption; 2) urban mobility (traffic) – how can the city move people and vehicles efficiently; 3) sustainable communities. These are key challenges faced by many cities globally; architects and city planners from Europe shared their city's success stories and challenges. Participants then switched tables to assess the problems identified by the previous group, and came up with solutions.

Houston is one of six U.S. cities in the POCACITO's 12-city project, striving to create working sustainable solutions- just like JSC! **Food for Thought:** If **you** were in the workshop, what important urban



issues would you choose to discuss? How would you mitigate them?

Ongoing Events

Note: Italics indicate JSC internal event

Free Day in Nature - every 1st & 3rd Sunday

Hike the trails (guides available). View the prairie, forest, marshes, and reptiles on display.

12:00 – 5:00PM

Armand Bayou Nature Center

Further info: (281) 474-2551x10 or www.abnc.org

Nassau Bay Farmer's Market – every Wednesday

Enjoy organic produce and other products just across the street!

3:00 – 6:00PM

Upper Bay Rd., Nassau Bay, TX 77058

POC: Ann Rogers

Nature Nurture Series – every first Saturday

Free admission and family friendly! This upcoming class is on Camping!

10:00AM – 12:00PM

Baytown Nature Center

Bayou Bikers – every first Sunday

Free admission, just bring your own bike! 25 – 40 mile bike rides around beautiful Houston.

Starts at 8:00AM

Market Square

Sheldon Lake Prairie Restoration – every Tuesday

Free to participate! Come enjoy nature and help restore the prairie.

11:00AM – 1:00PM

Sheldon Lake State Park, 14140 Garrett Road, Houston, TX 77044

Upcoming Events

Note: Italics indicate JSC internal event

July 2nd – Electronics Recycling Day

The City of Houston Waste Department and CompuCycle will be collecting electronics to recycle!

9:00AM – 3:00PM

Kingwood Metro Park & Ride lot

July 8th – Community Solar Workshop

Attend a webinar to learn about exploring solar programs for your community! Webinar login info will be available beforehand at gosolartexas.org.

Begins at 11:30AM

July 9th – Sunset Bike Ride

Bring out your bike for an evening ride on Warren Ranch for \$5 per person!

Open to all ages! Register at katyprairie.org.

6:30PM – 8:30PM

July 16th – Pasadena Rain Barrel Workshop

Learn how to create your own rain barrel and harvest rainwater for a \$35 fee (includes workshop, barrel, and kit.)

9:30AM – 11:30AM

Pasadena Convention Center and Fairgrounds

July 19th - JSC Green Team Meeting

July 23rd - Growing Green Workshop

Come in for a free half-day workshop to talk to local and state agricultural groups on how to maximize or improve your property sustainably!

9:00AM – 12:00PM

Texas A&M Agrilife Extension Service

21017 County Road 171, Angleton, TX 77515

Turtle Island Restoration Network

Securing the future of endangered sea turtles along the Gulf Coast

Turtle Island's Sea Turtle Restoration Project has been working to restore and protect sea turtles along the Gulf Coast and other areas for nearly twenty-five years!

After the BP oil spill in 2010, during which almost 320,000 sea turtles were affected, the need to support their survival increased. In 2014, Turtle Island began developing the Upper Texas Coast Nesting Beach Monitor Program, open to volunteers. Volunteers assist in counting and protecting the Kemp's Ridley sea turtle! This season, Turtle Island volunteers have sighted 173 Kemp's Ridley nests and 2 Loggerhead nests along the Texas coast.

Two weekends ago, volunteers found their third complete nest in Surfside and evacuated 113 eggs to a safer nesting site. If you are interested in volunteering, check out www.seaturtles.org!

Photo taken by Turtle Island Volunteer



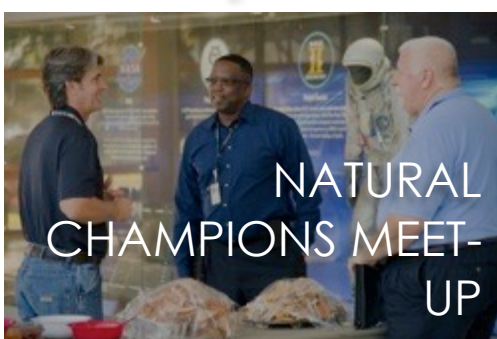
Internal Photos & Links

[Environmental Newsletter Archives](#)

[Environmental Brown Bag Presentations](#)

[Environmental Webpage](#)

[Energy Usage by Building](#)



JSC Sustainability Program Recognized

The Texas Commission on Environmental Quality gives out the Texas Environmental Excellence Awards annually, honoring the achievements in environmental preservation and protection. These awards are recognized as the state's highest environmental honor.

JSC's Environmental Office nominated the JSC Sustainability Program. Highlights from the nomination include integrating Leadership in Energy and Environmental Design principles when replacing buildings and the mulch-biowall located out by Building 383. Innovative technologies were

also a big part of the nomination, such as the web-based energy monitoring and display (the Energy Dashboard). JSC is proud to be recognized as a finalist for this distinguished award.

Contact info:

JSC Environmental Office

281-483-6207

<http://centerops.jsc.nasa.gov/je/>

Featured Resource

ReUse in Houston

<http://reuse.uhmrc.com/reuse/>

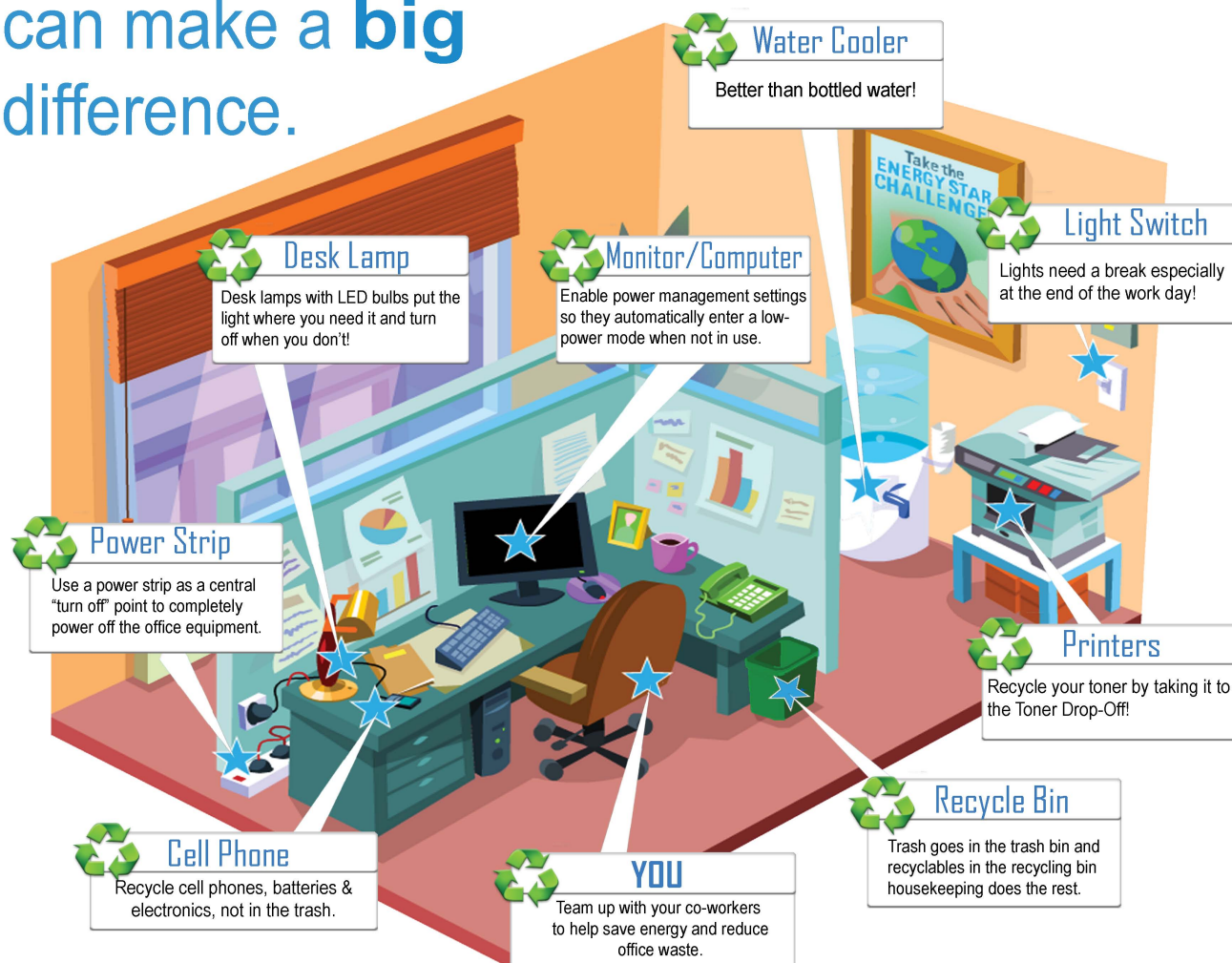
This website lists local groups, companies, or organizations that help reuse or recycle materials other than paper and plastic. You can find links to their websites, what materials they take and services they offer, and their contact information.





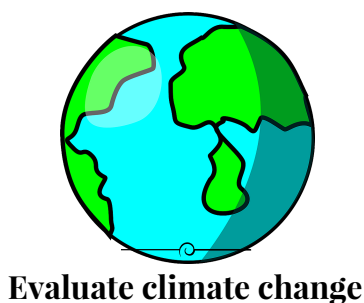
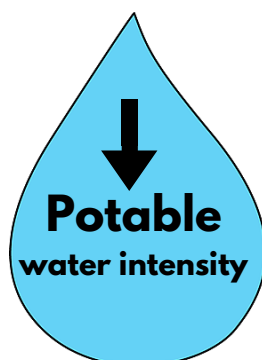
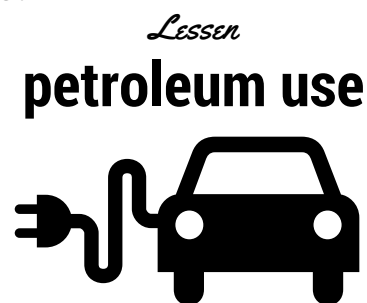
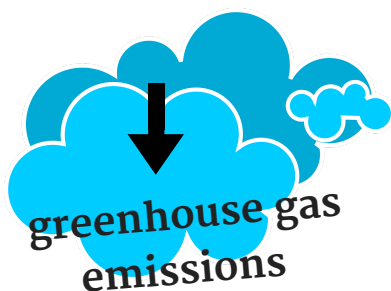
Bring Your **GREEN TO WORK** with ENERGY STAR®

The small steps **you** take
at work to save energy
can make a **big**
difference.



Sustainability Goals

JSC is working towards reaching all ten goals set by Executive Order 13693.



RISKS



Award investment value to energy performance contracts