Greening Business In St. Louis



Jean Ponzi – Green Resources Manager EarthWays Center of Missouri Botanical Garden

Resource Advisor to the St. Louis Green Business Challenge





Inaugural Class - 2010

3Degrees/St. Louis Earth Day

Ameren

Arcturis

AT&T

Bethesda Health Group

Boeing

Brown Shoe Company

Bryan Cave

Burns & McDonnell

Bunge North America

Cassidy Turley

Christner

Color Art Integrated Interiors

Commerce Bank

Deloitte

EDC of St Charles County

East-West Gateway Council

Emmis Communications

Express Scripts

Farnsworth Group

Federal Reserve Bank of St. Louis

Focus St. Louis

Gallop Johnson & Neuman

Geotechnology Graybar Electric

HOK

The Hauser Group

Habitat for Humanity - St. Louis

IAMCP-St. Louis

Laclede Gas

Lewis and Clark Community College

Mackey Mitchell

Madison County Treasurer's Office

Maritz

Markwort Sporting Goods Company

McKendree University

Metro

Microsoft Certified Partners Assn.

Millipore

Missouri Botanical Garden

Moonrise Hotel

Partnership for Downtown St. Louis

SCI Engineering

SWT Design

St. Louis Cardinals

St. Louis Community College

St. Louis County Economic Council

St. Louis RCGA

St. Louis University

Southwestern Illinois College

Special School District of St. Louis County

Stan Gellman Graphic Design

Tarlton

Tower Grove Park

UMB Bank

The Vandiver Group

Walsh & Associates

Wells Fargo Advisors





The Right Tool for the Job!



St. Louis Green Business Challenge Scorecard

Company Name:
Site Location:
Number of Employees At Site Location (Full-time, part-time, contract, etc):
Building Owner or Tenant?
Square Feet of Office Space at Site Location:
Green Business Challenge Contact:

Baseline Score (due March 15, 2010)
Final Score (due October 15, 2010)



Question Number	Outreach	Question	Answer (yes/no)	Points Achieved	Points Available	How did you achieve this strategy? Please provide a short description of the action taken.
01.1	Green Team Functions	Green Team Organization: Does your company have a "Green Team," which is responsible for managing sustainability initiatives at this site (1pt)? Do you have a dedicated staff person whose written job duties include responsibility for sustainability initiatives in your business (1pt)? Does your Green Team meet at least quarterly (1pt)?		46	3	2
01.2		Certified Staff: Does your company have a BOC or LEED-AP accredited person on staff or contract to assist with sustainability?	1		1	×
01.3		Level of Commitment: Has your company's CEO provided written support for the company sustainability efforts (1pt)? Do you have dedicated budget resources to support sustainability efforts (1pt)?			2	
01.4		Educational Sessions: Does your company's Green Team hold educational sessions for all company employees?		37	1	.
02.1	Internal Communication	Sustainability Guidelines: Has your Green Team written a set of sustainability guidlelines for the company and distributed it to all employees or made it accessible on the company's internal website?			2	2
02.2		Progress Reports: Do you have ongoing measurement of your sustainability strategies and alert all staff with electronic reports on the progress of in-house environmental initiatives?			2	2
02.3		Recognition: Does your company recognize your sustainability accomplishments at least once a year?			1	
03.1	External Outreach	Corporate Policy: Have you posted your company's approved Sustainability policy, message and strategy on your website?			2	8

Triple Bottom Line of Sustainability



Making Green Work In Business Terms



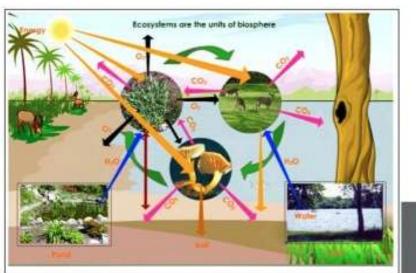


Natural Resources

Core Principles can be Adapted to Fit Diverse Company Cultures

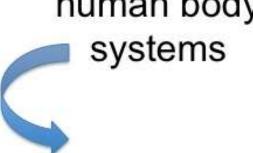
Cultivating Sustainability as a Literacy

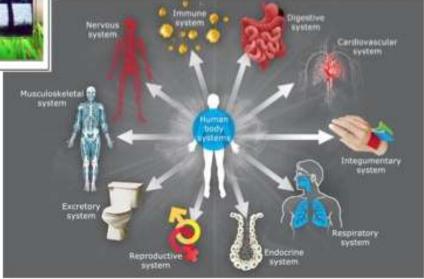
Green Makes Connections



ecosystems

human body systems







Why Do Businesses Care About This Green Stuff Now?

Class of 2011

The Advertisers Printing Company

Alberici

Ameren

American Lung Association
America's Central Port

Arcturis

Armstrong Teasdale LLP

The Boeing Company St. Louis

Brown Shoe Company

Bryan Cave LLP

Burns & McDonnell

Cannon Design

Christner

Citi

Clayco

Color Art Integrated Interiors

Commerce Bank

Covidien

DRS Sustainment Systems, Inc.

Datotel

Deloitte

The Doe Run Company

EDC of St. Charles Company

Express Scripts, Inc.

Federal Reserve Bank of St. Louis

Geotechnology, Inc. Global Products, Inc.

Graybar HOK

Habitat for Humanity St. Louis Holland Construction Services, Inc.

Jacobs

Jones Lang LaSalle

KPMG

Laclede Gas Company Mackey Mitchell Architects

Maritz

Markwort Sporting Goods Company

McCormack Baron Companies

McKendree University

Metro

Microgrid Energy

Missouri Botanical Garden

Missouri History Museum

Monsanto

The Moonrise Hotel

Novus International

Partnership for Downtown St. Louis

SCI Engineering, Inc.

SWT Design Saint Louis Zoo

Saint Louis University Save-A-Lot Food Stores Schnuck Markets Inc

Sigma-Aldrich

Southwestern Illinois College

Special School District of St. Louis County

St. Louis Cardinals
St. Louis County

St. Louis Office for Developmental

Disability Resources

St. Louis RCGA

Stan Gellman Graphic Design, Inc.

SustainEdge

Tarlton Corporation
Thompson Coburn LLP

UMB Bank

The Vandiver Group

Walsh & Associates

Wells Fargo Advisors





Zero Waste Waste = Food



In Cycles We Trust



We all live downstream



Live Within Earth's Limits







Diversify the sources that meet basic needs



Beauty is Powerful







Mother Nature Bats Last



Take a cue from Compost and maintain a Sense of Humus



AWARD OF ACHIEVE ENT

ST. LOUIS

• GREEN BUSINESS • CHALLENGE





- ✓ One Ream Less Campaign paper use has decreased by approximately 10.5 reams per person
- ✓ Chose 30% post consumer recycled paper as the Bank standard
- ✓ Calculated carbon footprint for the St. Louis office
- ✓ Initiated LEED certification for renovation effort









- Sustainable landscaping on campus
- Green Restaurant Certification for Extra Thyme employee cafeteria
- ✓ Single-stream recycling and composting reduced waste by 65%
- ✓ High-performance cleaning program with third-party certification
- ✓ Nationwide sustainability Wiki









COVIDIEN



- ✓ Reduced solid waste to landfill by 12% and recycling increased by 18% through waste reduction programs
- ✓ Saved 26,400 MMBTU/year in natural gas by replacing boilers
- ✓ Found market for a waste by-product to become a raw production material
- Upgraded system to use waste heat from new heat recovery chiller





EDC of St. Charles County



- Established sustainability guidelines for tenants
- Surveyed tenants on thermal comfort to appropriately adjust heating and cooling system
- ✓ Provides conference calls and video webinars for clients to reduce emissions from car travel
- ✓ Organized Cowbell Marathon to improve health and wellness of St. Charles community





Markwort Sporting Goods Company

- ✓ Redesigned product packaging to reduce plastic and materials
- ✓ Sustainability Officer visually communicated Challenge progress
- ✓ Implemented single-stream recycling
- ✓ Purchased BPA-free canteens for all employees
- ✓ Added transit benefit for employees
- √ Switched to e-mailed invoices



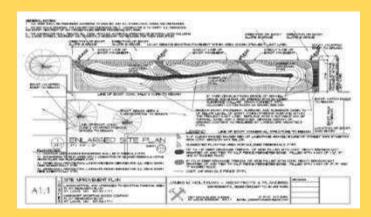




Markwort Sporting Goods Company

- ✓ Designed and received permit for a depaying rain garden project and will remove 15 parking spaces for rain garden
- ✓ Interior lighting audit and upgrade of fixtures
- ✓ Enrolled in Energy Star Program
- ✓ Hosting Holiday Lights recycling bins for St. Louis Green.com -Operation Food Search drive













- ✓ Opened Downtown Bicycle Station in collaboration with more than 15 companies and organizations
- ✓ Recycling at Old Post Office events
- ✓ Tours downtown guests in WeCars
- ✓ Participant in first downtown buildingwide composting collection









- ✓ Launched St. Louis County SAVESTM Residential Energy Efficiency loan program
- ✓ Replaced boilers with new high efficiency equipment
- ✓ Implemented single stream recycling throughout County building achieving 28% waste reduction











- ✓ Developed Sustainability Management System
- ✓ Reduced waste to landfill by 80% with aggressive recycling program
- ✓ Certified Sustainable Green Printers
- ✓ "Know Before You Throw" Program picks up clients' old printed or recyclable materials
- ✓ Donates unusable sizes of blank stock to local schools





ARCTURIS together we create

- ✓ Collaborated with fellow tenants on composting program
- ✓ Promoted National Park(ing) Day with Trailnet to take back streets for pedestrians and bikes
- ✓ Redesign Challenge promotes sustainable do-it-yourself design
- ✓ Donated old product samples to Edgewood Children's Art program









- ✓ Hydrogen fueled Phantom Eye assembled in St. Louis
- ✓ Recycling sealant tubes and using excess sealant for cement kiln fuel
- ✓ ENERGY STAR Partner of the Year
- ✓ Closed-loop system to cool pump bearings saves 13.9 million gallons of water a year









Brown Shoe Company

- ✓ Participated in EPA Climate Leaders
- ✓ Educates associates on sustainability policies through intranet and newsletter
- ✓ Naya Shoes made from recycled and renewable materials
- ✓ Plant-A-Tree campaign with Nordstroms and Naya Shoes and Souls4Soles shoe recycling program







Habitat for Humanity St. Louis

- ✓ Shares best practices on LEED home construction with other Habitat chapters
- ✓ ReStore partners with the St. Patrick Center to provide green jobs training to Go Green! Recycling Interns
- ✓ Placed standardized recycling bins throughout facility and trained all staff







JACOBS®



- ✓ Native Habitat Restoration on Riverfront Trail
- ✓ Monthly Eco-Challenges to engage employees
- ✓ Greening workstations with plants to improve indoor air quality
- ✓ Adopted St. Louis office sustainability guidelines
- ✓ Promotes transit, ridesharing and maintains companyspecific WeCar







- ✓ ENERGY STAR-certified building
- ✓ Launched tenants Green Team
- ✓ Started composting pilot project for tenants
- ✓ Toner and Battery recycling kiosks
- ✓ Electronic recycling drives











- ✓ Installed 100kW Solar panels
- ✓ Constructed the Energy Learning Center, to teach information on renewable energy resources, energy efficiency-options and environmental upgrades across the Ameren system
- ✓ Added 3 electric vehicles (Chevrolet Volts) to fleet and 9 charging stations











Laclede Gas

- ✓ Extended Green Challenge activities to district facilities
- ✓ Implemented multiple materials recycling program
- ✓ LEED –CI process for new conference center
- ✓ Sustainability education on Laclede TV
- Building wide composting partner









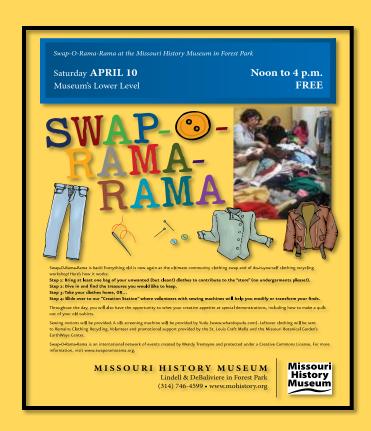
- ✓ Electronic document policy reduced paper in office by 90%
- ✓ Doubled our recycling efforts to include batteries, light bulbs, and plastic bags
- ✓ Involving building management in company sustainability goals







- ✓ Hosted sustainability
 programs for community,
 SWAP-A-RAMA, Bike to Work
 refueling station
- √43% reduction in HVAC energy consumption
- ✓ Purchased new electric truck
- ✓ Annual Office Supply Swap between departments







MONSANTO

- ✓ Active partner in the EPA WasteWise Program
- ✓ Overall landfill diversion rate of 70%
- ✓ Waste-to-Energy initiative diverts nearly 250,000 pounds of laboratory waste
- ✓ Rebalanced laboratory ventilation rates to reduce energy use by 33% in HVAC











The Moonrise Hotel

- ✓ Installed 5kW Solar Awning on Rooftop Bar
- ✓ Electric vehicle charging stations for guests and public
- ✓ Global Soap Project to recycle unused soap
- ✓ Reduced food waste program through donations to Operation Food Search and composting









- ✓ Participants in Sustainable SITES initiative
- ✓ Awarded Level B rating by Global Reporting Initiative
- ✓ Installed wind spire to offset energy used for landscaping
- ✓ Electric charging stations
- ✓ On campus bee hives yield 65 pounds of honey

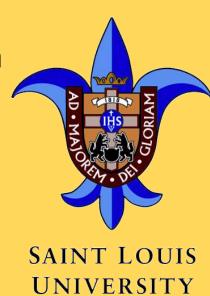






Saint Louis University

- ✓ Received Bronze Award at the Association for the Advancement of Sustainability in Higher Education (AASHE)
- ✓ Assisted City of St. Louis participation in ICLEI Star Index
- ✓ LED technology reduced energy by 87% in student center
- ✓ Participated in "Recyclemania with Higher Education Sustainability Consortium









✓ New bio-diesel system reuses old fryer oil

- ✓ Installed high-efficiency ondemand water heaters
- ✓ Pursuing LEED certification
- ✓ Lighting efficiency upgrades throughout zoo buildings
- ✓ Sharing sustainability initiatives with other zoos









- Cardboard recycling at all corporate stores
- ✓ Soft plastic recycling pilot program
- ✓ E-waste recycling for employees
- ✓ ZERO WASTE pilot program at one St. Louis store







SIGMA-ALDRICH"

- ✓ Planning installation of 50kW solar array
- ✓ Participates in Carbon
 Disclosure Project 70th
 percentile in carbon reduction
- ✓ Pilot phase of Green Chemistry Grading matrix
- ✓ Integrated social and environmental responsibility into corporate standards







Special School District of St. Louis County

- ✓ Recycling campaign reduced waste by more than 25%
- ✓ Decoration for office parties from recycled materials
- ✓ Photovoltaic energy used at school
- Recycling and sustainability incorporated into curriculum







St. Louis Cardinals

- ✓ Recycling rate of 29% avoided 520 tons of waste to landfill
- ✓ No-Idling Policy around stadium
- ✓ Participates in EPA WateWise and ENERGY STAR Partnership
- ✓ Member of Green Sports Alliance and challenging other stadium managers on energy and trash reductions













- √ 85% of electrical usage provided by 100kW solar array
- ✓ Installed energy monitoring and energy efficient power strips at work stations in the office
- ✓ Utilization of the EPA Energy Star Portfolio Manager with a score of 96
- ✓ "Hero of the Planet" award winner in sustainable business operations









- ✓ "Kick the Can" campaign eliminated individual trash bins for recycling
- ✓ Assisted Jones Lang LaSalle in implementing building-wide composting
- ✓ Created "Eat Green" catering policies and local vendor list
- ✓ Implemented Sustainable Operations Plan





Maritz



- ✓ Metal recycling donated 150 tons to Operation Food Search
- ✓ Partnered with local farmers to grow soybeans and pumpkins on undeveloped campus property
- ✓ Blue Jean recycling campaign
- ✓ Landscaped water retention area into wetlands
- ✓ Fall walking tour lunch and learn for employees







- Enrolled customers in eDoc to reduce paper statements
- ✓ Recycled 24 cubic feet of styrofoam per week
- ✓ Annual Green Fair with 2,000 employee attendees and 52 vendors
- ✓ Partnered with City of St. Louis for ICLEI Star Index
- ✓ Environmental Forum blog shows where to purchase green products and services





CHRISTNER

- Moved into new LEED-Gold designed office space
- ✓ Dual monitors for employees to reduce office paper consumption
- ✓ Installed new high-efficiency lighting and low-flow toilets
- ✓ Donated old office furniture to Operation Food Search









- ✓ Partnered with OfficeMax to deliver office supplies in reusable totes
- ✓ Implemented electronic certified mailing processes
- Created electronic documents and links for employees to reduce paper usage
- ✓ Increased video conferencing, conference calling and on-line communication to decrease travel







THE COMPANY



- ✓ Battery recycling facility recovers up to 160,000 tons of refined lead and lead alloys from more than 13.5 million recycled lead-acid batteries annually
- ✓ Recycled shoes with Shoeman Water Project
- ✓ Implemented single stream recycling
- ✓ Reduced paper usage by 30%









- ✓ Installed 25 kW solar array on headquarters building to offset our electrical energy costs
- ✓ Installed large ventilation fans to better circulate heated air
- ✓ Induction lighting reduces energy use by 50%
- ✓ Heat maintenance facility with excess vehicle waste oil
- ✓ Truck Tracker software improves fuel efficiency









- ✓ Created Citi Supply Room to recycle office supplies
- ✓ Excess supply drive/building clean-up resulted in nearly \$10,000 in recycling proceeds
- ✓ Piloted Single Stream Recycling; annualized impact –
 200 tons
- ✓ Building became ENERGY STAR Certified









- ✓ Lighting renovation expected to reduce energy by 66%.
- Changed 100% of textile screen printing inks to phthalate-free inks
- ✓ Sustainable Purchasing Policy created
- Cardboard packaging previously purchased in China now purchased in St Louis using FSC certified paper
- ✓ Recycling centers at each production work center





Missouri Botanical Garden



- ✓ Office renovation complies with LEED-EBOM standards certification in 2011
- ✓ Native plant landscaping expanded to west side of building
- ✓ Implemented single stream recycling
- ✓ 25kW photovoltaic solar array will provide 5% of electrical power needs











MISSOURI BOTANICAL GARDEN

- ✓ Barrel vault skylight renovation upgraded to incorporate insulation
- ✓ Food waste composting implemented for all Garden catered events
- ✓ Turn It Off Campaign to engage employees in energy wise use of lighting, computers and other office equipment





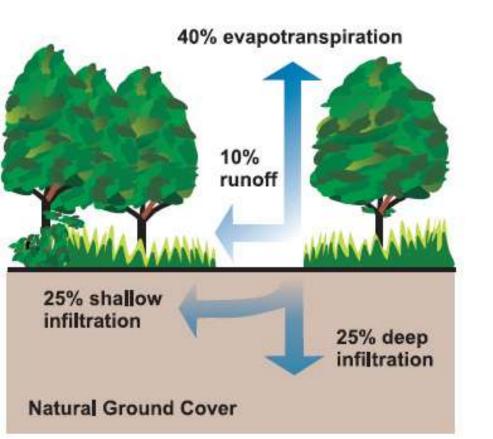


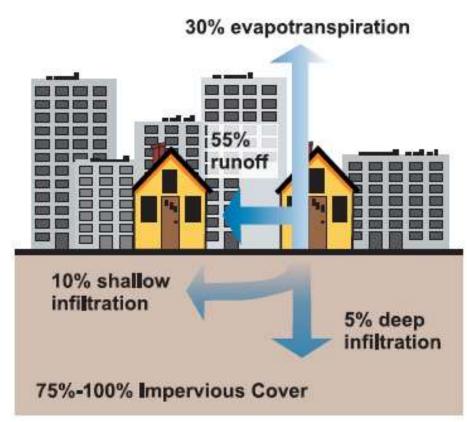




Greening the Garden's Parking Lots:

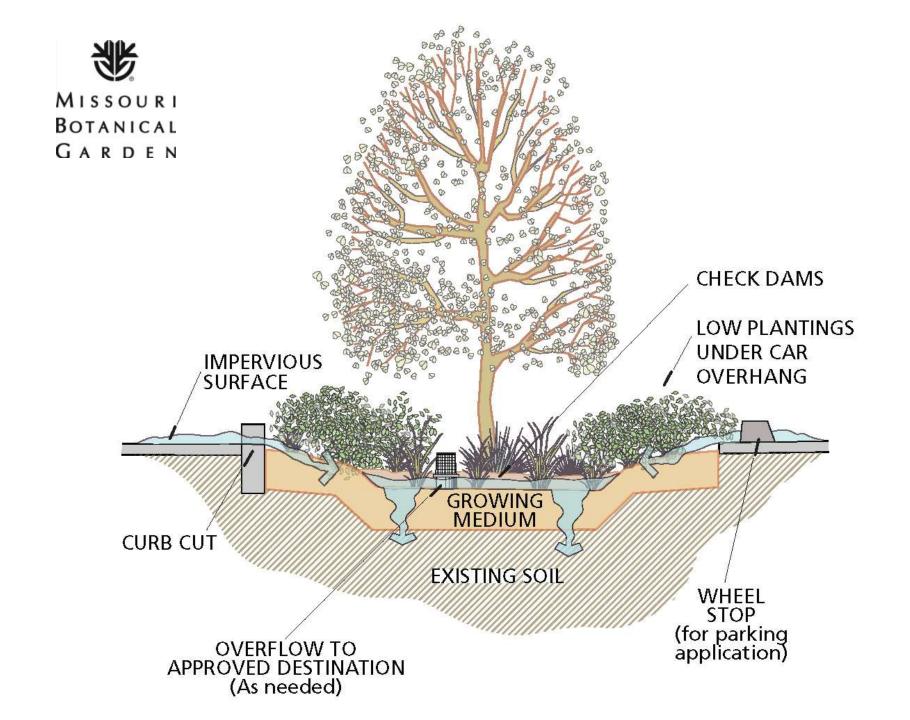
The Problems with Paving





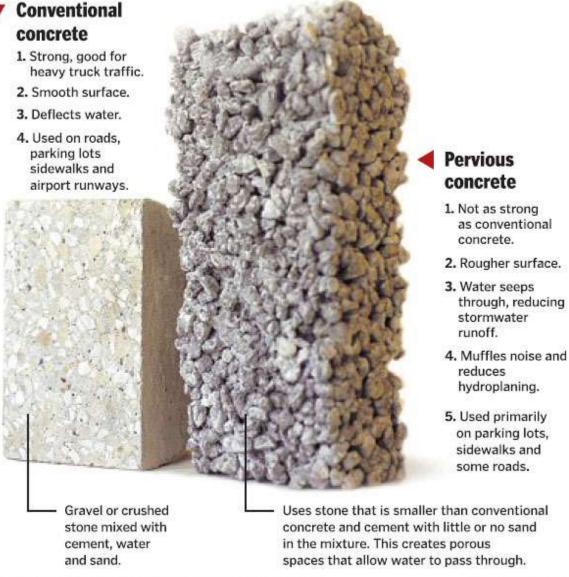


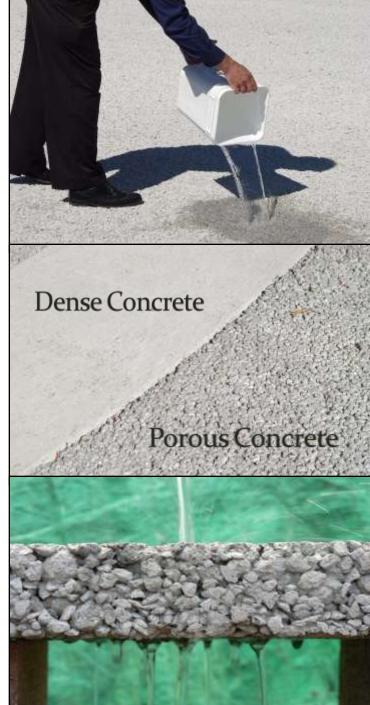




Concrete solution

Pervious concrete, widely used in the South, is becoming increasingly popular in northern climes. Tests have shown that the porous concrete, if installed and maintained properly, can hold up under the freeze-thaw cycles experienced in Ohio.





- > **100,000** Visitors in **3.5** months
- > 90% Waste Diversion Rate



missouribotanicalgarden.org







- ✓ Organizer of St. Louis Green Business Challenge
- ✓ Winner of 2011 Growing Green Award for Corporate Leadership
- ✓ Providing reusable silverware and glassware for meetings
- ✓ Composting of food and coffee waste after events





100 of St. Louis Region's Largest Businesses are Actively Integrating GREEN into Daily Operations, Corporate Policies and Values







Earthworms – KDHX-FM Mondays 7-8 p.m. www.kdhx.org

Growing Green St. Louis
KTRS-AM
Sunday 1-2 p.m.
www.ktrs.com

Green Questions?

Missouri Botanical Garden's Green Resources Answer Service is at your service



greenresources@mobot.org - 314-577-0246

