

Pre-Production

Producer/Director Sound Stage/Shop Locations

Producer/Director

- An environmental commitment from the executive producer, producer, or director, would not only set the tone for the production, but would enable the environment to be included in everyday budgetary decisions. If reinforced by the line producer, 1st A.D., production manager and various department heads, this top down approach would assure the crew that financial priorities need not rule out sustainability goals, as long as in the end the cost/benefit analysis makes good business sense.
- Consider including an environmental budget line item that would include the up front costs of recycling and environmentally friendlier procurement. Redirecting material from landfill is only cost prohibitive when you ignore the potential savings from conserving resources, and incorporating waste reduction strategies into the day to day operations of your production can offset the costs of purchasing less toxic materials.

Sound Stage/Shop

- Sound stages and construction shops should be accessible by public transportation, and be located in an area where the majority of the crew will not have to drive long distances.
- Many scene shops and set locations have no HVAC systems, limited heating/air conditioning capabilities, or are in buildings that are too large to keep climate controlled while still providing proper ventilation. Energy efficiency will often be at odds with indoor air quality, so make sure to put the scenics, special effects, welders, and other departments who regularly use hazardous materials closest to windows and doors to provide them with the fresh air they need, while minimizing energy loss.

INDUSTRY LEADERS

Mari-Jo Winkler, Executive Producer

Peter Saraf and Jane Evans, Producers

Away We Go (working title for Focus Features)

They hired [greenmediasolutions](#), an environmental consulting firm to help the production reduce their carbon footprint. They used biodiesel in vehicles and generators, purchased organic, local food and biodegradable dinnerware, composted their food waste, used reusable water bottles instead of plastic disposables on set, and shot in 3 perf to reduce film use and processing chemicals.

Gale Anne Hurd, Producer

The Incredible Hulk (Universal Pictures/Marvel Studios)

They made the entire set [laan free](#) with low VOC paint, used reusable or biodegradable plates, bottles and utensils, hired a recycling contractor to reduce waste, and was the first movie to feature the [Environmental Media Association's Green Seal](#) in the closing credits.

Tom Shadyac, Director

Evan Almighty (Universal Pictures)

Crew members were given bicycles by the director to reduce car usage, the wood used to build the sets was donated to Habitat for Humanity, they planted trees and offset their carbon emissions with a donation to The Conservation Fund, and the dvd special features section highlighted the crew's green production efforts.

Howard Gordon, Executive Producer

24 (Twentieth Century Fox television show)

The production was powered with biodiesel and other renewables, to save energy and reduce carbon emissions.

- If the shop has heat or air conditioning, make sure there are strip curtains or insulated curtains installed on the loading dock doors if they are to be left open for long periods of time.
- Identify and address any health and safety risks, like poor ventilation or previous hazardous waste use or storage, before bringing in the crew. The unions should be actively involved in this process from the beginning, to ensure that their workers are safe, and to eliminate possible problems in the middle of a build.

LOCAL UNIONS

IATSE Local 8

2237 Hartranft St.
Philadelphia, PA 19145
Phone: 215-952-2106
Fax: 215-952-2109
www.iatse8.com

Contact:

Michael Barnes, Business Agent
Cell: 215-880-3162
Email: mbarnes@iatse8.com

IATSE Local 52

326 West 48th Street
New York, NY 10036
Phone: 212-399-0980
Fax: 212-315-1073
www.iatselocal52.org

Contact:

John Ford, Business Agent (main number, extension 20)
or
Michael Barnes, Business Agent
Cell: 215-880-3162
Email: mbarnes@iatse8.com
E-mail: ialocal52@msn.com

United Scenic Artists Local USA 829

29 West 38th Street
15th Floor
New York, NY 10018
Phone: 212-581-0300
Fax: 212-977-2011

www.usa829.org

Contact:

Beverly Miller, Business Representative for Film, Television, Commercials and Scenic Shops
Office: 917-408-6149
Cell: 914-393-3908
Email: bev@usa829.org
Monona Rossol, Industrial Hygienist (Health and Safety)
Phone: 212-777-0062
Email: actsnyc@cs.com

WGAE (The Writers Guild of America, East)

555 W 57th St.
New York, NY 10019
Phone: 212-767-7800
www.wgaeast.org

SAG (Screen Actors Guild) North Region

1800 JFK Blvd.
Suite 300
Philadelphia, PA 19103
Phone: 215-760-8535
www.sag.org
Contact:
Rick McKiddy, North Region Executive
rmckiddy@sag.org

Producers Guild of America East

100 Ave of the Americas,
11th Floor
New York, NY 10013
Phone: 212-894-4016 TEL.
Fax: 212-894-4056
www.producersguild.org

- Create the main recycling area during the initial shop set up, to ensure that it will have adequate space, be clearly marked with appropriate signage, and be centrally located to all crewmembers (close to the breakroom area is usually ideal). Include a bulletin board for instructions, directions to any other recycling areas, etc. and a place for crew feedback and suggestions. Assigning a "green PA" to monitor this area is one way to stay on top of any glitches in the system, while allowing the crewmembers to concentrate on their primary responsibilities.

Locations

- Look for locations that are reachable by public transportation, and make sure that maps given to the crew in the future include the closest public transit options.
- Consider the potential environmental impact your production might have when scouting locations.

RECYCLING CONTAINERS

Windsor Barrel Works

9928 Kistler Valley Road
P. O. Box 47
Kempton PA 19529
Stephen A. Hamm, General Manager
Phone: 610-756-4344
Toll Free: 800-527-7848 x203
Fax: 610-756-6389
www.windsorbarrel.com

Email: steve@kettlecreek.com

They are local company that makes [clear, 100% recycled PET plastic recycling bins](#) that are designed to be used without bags. This enables the crew to see the recyclables inside, helping to ensure that they use the proper receptacles. They can be custom labelled for any material, and have interchangeable parts that allow for a variety of configurations. They can be rinsed out whenever necessary, and can be disassembled and conveniently stored when not in use.

The Production Office

Office Supplies Energy Consumption Computers/Electronics

Office Supplies

- Look for office products with [Green Seal](#) certification.
- Buy recycled products. Many recycled products contain pre-consumer manufacturer waste, but do not contain post-consumer waste (PCW), so look for paper, pencils, paperclips, rubber bands, plastic pens, etc. with a high percentage of post-consumer content.
- Try used office supply dealers or thrift shops for desk chairs, file cabinets, etc.
- Make a point of asking for the least amount of packaging when ordering supplies.
- Avoid chlorine bleached paper, which produces toxic dioxin pollution.
- Use remanufactured and refillable toner and inkjet cartridges.
- Keep copies to a minimum, and print double-sided whenever possible (many laser printers now feature double-sided printing capability).

OFFICE SUPPLY VENDORS

Curry Office Supplies

233 Chestnut Street
Philadelphia, PA 19106
Phone: 215-627-0990
Fax: 215-627-5448
www.dswebengine.com/curry

Enter "recycled" in their search field for a list of recycled paper products, including Mohawk 100% Recycled Copy Paper. They also carry Eco-Products compostable plates/cups/forks.

GreenLine Paper Company, Inc.

631 S. Pine St., York, PA 17403
1-800-641-1117
www.greenlinepaper.com
They are a local Pennsylvania company with an excellent online catalog of [Green Seal certified products](#), including [100% post consumer recycled, chlorine free, FSC certified paper](#), [90% post consumer recycled, chlorine free paper towels](#), and many [biodegradable/compostable cups, containers, etc.](#)

Staples in the Philadelphia Area:

For all of their environmentally friendlier office supplies, see their ["eco-easy" products page](#).

Wallgreens in the Philadelphia Area:

[Printer cartridge refills](#) for Dell, HP, Lexmark, Okidata, Primera, Sharp, Xerox ONLY.

Cartridge World

110 Yorktown Plaza
Elkins Park, PA 19027
Phone: 215.886.4821
www.cartridgeworldusa.com
Refill all major brands including HP, Dell, Canon, Lexmark & Epson. Remanufactured laser toner cartridges for most high speed copiers, full color printers or all-in-one laser printers and refill fax and copier cartridges.

PetSmart Recycled Ink and Toner Cartridges

Now you can purchase recycled and refilled ink cartridges and ink laser cartridges to complete the circle of recycling. For every cartridge you buy, PetSmart Charities will receive a \$2-5 donation to help save homeless pets. Visit www.recyclingforpets.com to buy your cartridge today.

- Reuse any single-side printed paper for test printing, rough drafts of scripts, memos, etc.
- Communicate via email instead of printing memos, or unnecessarily transferring/storing information on disk.
- Storing information in web based email doesn't require additional storage media, and is also good back up, especially since much of your production's information is only needed for the duration of the shoot. Use flash drives instead of cds whenever possible.

- Use a bulletin board to communicate interoffice messages.
- Reuse manila envelopes.
- Share magazines.
- Choose less toxic, water-based markers, correction fluid, etc. that conform to the Art and Creative Materials Institute (ACMI) standards, labeled "AP" (approved product).

Computers/Electronics

- Rent or purchase energy efficient [EPA Energy Star equipment](#), and look for products that have also received approval by [EPEAT \(Electronic Product Environmental Assessment Tool\)](#), whose much broader [evaluating criteria](#) also includes elimination of toxic chemicals during manufacture, and product longevity.
- Try to use laptops, which are more energy efficient than older desktop models.
- Turn off computers when not in use, and enable the "sleep mode" feature on your computer, to conserve energy. In Windows, the settings are found on the control panel. For Mac users, the energy saving settings are under system preferences in the apple menu.
- Leave peripherals unplugged until you need them.
- Use Blackle, the environmentally friendly black version of the Google search engine, that saves energy by lowering the amount of energy required by your monitor to display a black screen.
- Donate or recycle any unwanted electronic equipment.

Energy Consumption

- Purchase renewable energy credits from the local utility company.

ENERGY EFFICIENT PRODUCTS

Energy Star

401 M Street
SW (6202J)
Washington, DC-20460
Phone: 888-STAR-YES (782-7937)
Fax: 202-564-9569
www.energystar.gov

Click here for the [Store Locator](#) or just look for the ENERGY STAR label when purchasing office equipment.

Greenpeace Guide to Greener Electronics

This guide evaluates many electronics manufacturers according to their policies on energy efficiency, toxic chemical usage, recycling, and climate change.

www.greenpeace.org/usa/news/greener-electronics-guide-

RENEWABLE ENERGY

Energy Cooperative Association of Pennsylvania

1218 Chestnut Street, Suite 1003
Philadelphia, PA 19107
toll free 800-223-5783
Phone 215-413-2122
Fax 215-413-2140
www.theenergy.coop
email: ecapstaff@theenergy.coop

The Energy Cooperative is a nonprofit, member-owned cooperative licensed electrical supplier with over 6500 members throughout Southeastern Pennsylvania. Founded in 1979 by [Weaver's Way](#), a successful food cooperative in the Germantown neighborhood of Philadelphia, The Energy Cooperative has provided savings on home heating oil for more than 25 years.

Peco Wind Energy

www.exeloncorp.com
1-866-WIND-321

You may choose to sign up for Wind Blocks at \$2.54 per block per month or have 100% of your actual monthly electric usage charged at 2.54 cents for each kilowatt-hour used.

- Set the thermostat in winter to 68 degrees or less, and 78 degrees or more during the summer. Use fans instead of air conditioning whenever possible.
- Turn off space heaters and fans when leaving the room.
- Keep doors and windows closed when heat/air conditioning is on.
- Turn out the lights in unused rooms, and work by daylight whenever possible.
- Use compact fluorescent or led light bulbs, instead of halogen and incandescent.
- Many appliances continue to draw power even when turned off, and chargers continue to use energy even when the equipment is fully charged or disconnected from the charger. To reduce these "phantom loads", plug your equipment into power strips that can be turned off when not in use to eliminate their "standby" consumption. Make sure to turn them all off at the end of the work day. Unplug all chargers when not in use, and leave all seldom used equipment unplugged until needed.
- Use rechargeable batteries instead of disposables for small electronic devices.
- Use batteries and chargers powered by alternative energy.

ENERGY EFFICIENT LIGHTING

Earthmate Lighting

(Also sold as **Neolite**, manufactured by [Litetronics](#))

These compact fluorescents contain only 1 milligram of mercury, and the packaging is made with 100% post-consumer waste, printed with soy-based ink, and is completely recyclable.

Available locally at:

Wegmans Cherry Hill

2100 Route 70 West
Cherry Hill, NJ 08002
Phone: 856-488-2700

They can also be special ordered from

Billows Electric Supply

9100 State Road
Philadelphia, PA 19136
Phone: 215-332-9700

www.billows.com

or from the closest online distributor,

www.goodmart.com (in NY)

Goodmart also sells [Neptun dimmable compact fluorescents](#).

ECObulb PLUS

www.ecobulbplus.com

(Manufactured by [Feit Electric](#))

These compact fluorescent light bulbs (CFLs) contain lower amounts of mercury, lead, cadmium, hexavalent chromium and polybrominated biphenyls. They are available instore and online at any [Home Depot](#) and [Walgreens](#), and can be special ordered at [Home Depot](#) if specific bulbs are not in stock.

EcoLEDs.com

2055 N. Kolb Rd Ste. 131

Tucson, Arizona 85715

Phone: 1-520-232-9300

Fax: 1-520-615-1957

Made in the USA led light bulbs, available online at

www.BetterLifeGoods.com

Ikea

2206 S. Columbus Blvd.

Philadelphia, PA 19148

Phone: 215-551-4532

www.ikea.com

They sell many CFL and LED lighting options.

BATTERIES/CHARGERS

USBCCELL Batteries

(Manufactured by [Moixa Energy](#))

NiMH batteries rechargeable from a USB port.

Available online at www.usbcell.com

Free Charge 12V

www.freeplayenergy.com

Hand crank generated electricity for mobile phones, PDAs, iPods, GPS receivers, or any other electronic device for which you have (or can get) a cigarette-lighter adapter.

Solio (Better Energy Systems LLC)

1510 Sixth Street

Berkeley, CA 94710

United States

Phone: 510-868-8714

Fax: 510-295-2449

Solar powered chargers for a wide variety of handheld electronic devices.

Available at many [retail locations](#), or at www.solio.com.

Solar Home

www.solarhome.org

1-866-SUN PRODUCTS

(1-866-786-7763)

Online retailer of many solar powered chargers.

Cleaning/Restrooms

Safer Cleaning Products Restroom

Safer Cleaning Products

- Choose nontoxic/biodegradable alternatives to harsh chemical cleaners that expose employees to toxic fumes and pollute the local waterways. Also, many cleaning needs can be met with:

- 1/4 cup distilled white vinegar (available in glass) + 2 cups water is an excellent glass cleaner.
- baking soda or Bon Ami cleanser for no scratch abrasive cleansing.
- hydrogen peroxide (disinfectants and bleaches).
- lemons (cuts grease).
- 1/2 cup white vinegar/1 teaspoon olive oil (wood polish).

- Purchase concentrates and bulk sizes to avoid excess packaging.
- Use equal parts baking soda/white vinegar to unblock pipes. You can also use washing soda if your pipes are not PVC.

Restroom

- Buy 100% post consumer recycled, chlorine free toilet paper, tissues, paper towels.
- Use paper towels sparingly, and substitute natural sponges and/or cloth rags whenever possible.

CLEANING/RESTROOM SUPPLIES

Sun & Earth, Inc.

221 King Manor Drive
King of Prussia, PA 19406
1-800-298-7861

www.sunandearth.com

Locally manufactured, biodegradable cleaning products, available in bulk sizes. You can **bring your own container** to the **Big Green Earth Store** on 239 Market Street in Philadelphia to buy bulk Sun and Earth dish soap, hand soap, laundry detergent, all purpose cleaner, and dishwasher pellets.

Lap Distributors

3515 Amber Street
Philadelphia, PA 19134

215-744-4000

Fax 215-744-5717

Email: paul@lapdistributors.com

www.lapdistributors.com

A local wholesale distributor that carries safer cleaning products and **EcoSoft Green Seal towel and tissue products**.

Curry Office Supplies

233 Chestnut Street
Philadelphia, PA 19106
215-627-0990

Fax: 215-627-5448

www.dswebengine.com/curry

Bulk recycled toilet paper, tissues, and paper towels. Specify products with the highest post consumer recycled content. Also, many bulk size safer cleaning products, including **Green Works**.

GreenLine Paper Company, Inc.

631 S Pine St., York, PA 17403
1-800-641-1117

www.greenlinepaper.com

Many cleaning products, bulk recycled toilet paper and **Tork 90% post consumer recycled, chlorine free paper towels**.

Whole Foods Markets

For locations, go to

www.wholefoodsmarket.com

Many safer cleaning products, and 365 or Seventh Generation recycled toilet paper, tissues and paper towels.

Method

Widely available line of environmentally friendlier, safer home care products.

For a list of retail outlets, go to

www.methodhome.com or

call 866-9-method.

The Breakroom/Lunch

Water

Coffee/Tea

Lunch/Snacks

Water

- Use tap water. Municipal tap water is filtered, disinfected, and subject to strict pollution controls by state and local governments, as well as the EPA. **Bottled water** is subject to far less stringent testing, and the bottles themselves can leach the elemental metal antimony, a suspected carcinogen, into the water.
- If you do not trust the quality of your tap water, you can rent a bottleless water cooler, a filtration system that removes chlorine and other contaminants.
- Another alternative is using water coolers instead of single use, disposable plastics bottles.
- If you must drink bottled water, make sure to choose a brand with a local water source to minimize the amount of fuel used during transport. Always recycle the bottles, the plastic caps, and any cardboard or plastic film the bottles were packaged in.

REUSABLE WATER CONTAINERS

Klean Kanteen

Stainless steel water bottles, available online at www.kleankanteen.com or sold locally at:

Big Green Earth Store

239 Market Street
Philadelphia Pennsylvania 19106
Phone: 267-909-8661

www.biggreenearthstore.com

or

Mugshots CoffeeHouse & Café

2100 Fairmount Avenue
Philadelphia, PA 19130
Phone: 267-514-7145

www.mugshotscoffeehouse.com

or

Eastern Mountain Sports

3401 Chestnut Street
Philadelphia, PA
Phone: 215-382-0930

www.ems.com

Sigg

Aluminum and stainless steel water bottles, widely available at many grocery, sporting goods, and camping supply stores. For a list of retailers, go to www.sigg.com

WATER SUPPLIERS

Eagles Peak Spring Water

Phone: (215) 345-6069

Fax: (215) 345-5561

E-Mail: trevor@eaglespeak.com

www.eaglespeak.com

Address: Route 313 at Ferry Rd
Fountainville Pennsylvania 18923

A locally-owned and family operated company delivering spring water from the mountains of Pennsylvania. They offer a ceramic water “crock” that uses no electricity, dispensing the water at room temperature, saving money and energy costs.

BOTTLELESS COOLER (WATER FILTRATION)

Culligan Of Philadelphia

3113 W Ridge Pike
Eagleville, PA 19403
877-203-9122

Fax: 610-539-1963

E-mail: main@culliganfunk.com

www.culliganphilly.com

Arctic Coolers

135A Gaither Drive,
Mt Laurel NJ, 08054
Toll Free: 800-372-0262

Phone: 856-231-0262

Fax: 856-231-0264

www.arcticcoolers.com

BOTTLED WATER

Give Natural Spring Water

Bottled water with a local source, sold Whole Foods Market in the Philadelphia Area

Coffee/Tea

- Buy organic, fair trade coffee and tea in bulk, to save money and to avoid excess packaging.
- Use your own travel mugs and take them with you when going out for coffee. If you forget to bring one along, don't purchase coffee sold in styrofoam cups, and make sure to recycle the disposable #6 plastic lids.
- Use washable, reusable spoons instead of disposable stirrers. If you use disposables, recycle them.
- Choose a coffee maker that uses washable, fine mesh filters instead of disposable paper filters. If you are using a model that uses paper filters, buy them unbleached.
- Thermal carafe coffee makers are also a better choice, as the coffee will stay hot without needing electricity to keep a burner on warm.
- Unplug the coffee maker when not in use.

FAIR TRADE COFFEE / BEANS

Whole Foods Market

2001 Pennsylvania Ave
Philadelphia, PA 19130
Phone: 215.557.0015

or

929 South St
Philadelphia, PA 19147
Phone: 215.733.9788

www.wholefoodsmarket.com

Essene Market

719 S. 4th Street
Philadelphia, PA 19147
Phone: (215) 922-1146

www.essenemarket.com

Bucks County Coffee Co.

sold at:

30th Street Station

2951 Market Street
Philadelphia, PA 19104
Phone: 215-270-0860

or

Sansom Street Coffeehouse

3430 Sansom Street
Philadelphia, PA 19104
Phone: 215-387-6722

or

Manayunk Coffeehouse

4311 Main Street
Philadelphia, PA 19127
(215) 487-3927

Mugshots CoffeeHouse & Café

2100 Fairmount Avenue
Philadelphia, PA 19130
Phone: 267-514-7145

or

110 Cotton Street
Philadelphia, PA 19127
Just off Main Street in Manayunk
Phone: 215-482-3964

www.mugshotscoffeehouse.com

joe coffee bar

1100 Walnut Street, #110
Philadelphia, PA 19107
Phone: 215-592-7384

www.joecoffeebar.com

Lunch/Snacks

- Buy organic and/or locally grown seasonal fruits and vegetables, and minimally packaged snacks for the breakroom (see **Catering/Craft Service** section on page 26 for vendors.)
- Carpool to restaurants.
- If you leave the office for lunch, get into the habit of taking your own reusable bag with you.

RECYCLABLE/BIODEGRADABLE FOOD PACKAGING

Clear Bags

4872 Highway 64 East
PO Box 307
Selmer, TN 38375
Phone: 800-328-1847

www.clearbags.com

They carry Earth First brand biodegradable, compostable clear ziplock bags.

Traditional wax paper is coated in petroleum based paraffin, but **Chefs Select Soy Wax Paper** is coated in 100% soy wax. Available online from www.greenfeet.com and www.kingarthurfLOUR.com

If You Care 100% Recycled Aluminum Foil is available at any Whole Foods location.

- Bringing your own lunch can eliminate a lot of wasteful packaging, to go containers, bags, etc. It also gives you more control over the carbon footprint of your lunch, and is more economical.

- Stock the lunch area/breakroom with reusable plates, cups, mugs, and utensils instead of disposables, and encourage the crew to wash their own dishes. The extra time it takes is minimal, and will keep an enormous

amount of non biodegradable material from being unnecessarily thrown away.

- Any disposables provided should be made from biodegradable, compostable material, not petrochemical plastic.
- Taking your own utensils will also prevent more single use plastic from being sent to landfill. Many different types are available at camping supply stores, or you can simply purchase some from a local thrift store.
- Avoid using all styrofoam.
- Use [biodegradable trash bags](#).

BIODEGRADABLE CUPS/PLATES/ UTENSILS/BAGS ETC.

Lap Distributors

3515 Amber Street
Philadelphia, PA 19134
215-744-4000
Fax 215-744-5717
Email:
paul@lapdistributors.com
www.lapdistributors.com
A local wholesale distributor that carries biodegradable/ compostable cups, utensils, and take out containers.

Singer Equipment Company

PHILADELPHIA SUPERSTORE
7300 Lindbergh Blvd.
Philadelphia, PA 19153
Phone: 215-365-0200
Fax: 215-365-2711
www.singerequipment.com
Toll-Free: 800-443-2212
Hours: M-F 8:30am to 5:00pm
See their “Eco-friendly Products” section.

Curry Office Supplies

233 Chestnut Street
Philadelphia, PA 19106
Phone: 215-627-0990
Fax: 215-627-5448

www.dswebengine.com/curry
They carry Eco-Products compostable plates/cups/forks and Mohawk 100% Recycled Copy Paper.

GreenLine Paper Company

631 S Pine St., York, PA 17403
Phone: 1-800-641-1117
www.greenlinepaper.com
Extensive online catalog of Green Seal certified products, including biodegradable/ compostable cups, containers, etc.

Excellent Packaging & Supply

3220 Blume Drive, Suite 111
Richmond, CA 94806
Phone: 800-317-2737
www.excellentpackaging.com
Contact: Steve Levine at 707-253-1437 or 707-363-5515
steve@excellentpackaging.com
They are a wholesale distributor of many types of biodegradable/compostable products. They have a \$350 minimum order requirement, and ship Fed Ex to the Philadelphia area in 4-5 business days.

REUSABLE TO GO CONTAINERS

To-Go Ware

Stainless steel lunch carriers, available online at www.to-goware.com or locally at:
Urban Outfitters
1627 Walnut Street
Philadelphia, PA 19103
Phone: 215-569-3131

The Laptop Lunch System

“Bento” style stainless steel lunch containers.
www.laptoplunches.com

REI

200 W Ridge Pike Ste 115
Conshohocken, PA 19428
Phone: 610-940-0809
www.rei.com
Stainless steel travel cutlery.

Reusable Bags

www.reusablebags.com
Carries many bags, utensils, and bottles.

BIODEGRADABLE TRASH BAGS

BioBag

Phone: (727)789-1646
Email: info@biobagusa.com
Biodegradable, compostable trash bags with no petrochemical content. Available at [Whole Foods Stores](#), and many other retail outlets, or in bulk online at www.biobagusa.com

Set Construction/Locations

Set Design

Construction

Grips

Paint

Set Dressing/Props

Greens

Electrics

Special Effects

Transportation

Set Design

- The designer needs to factor the environment into the design of the set, and should work with the art director, construction coordinator and foreman, scenic charge, and set decorator to conserve resources, and to choose materials that are safe for both the workers and the environment.
- Cooperation and good communication between the designer and the director is crucial in the planning stages of the build to avoid expensive, wasteful design changes. Also, with careful planning, the design and shoot schedule can be coordinated to allow for reuse of things like set walls, platforming, and lighting grids, saving both money and resources.

Construction

- [Lauan](#) is manufactured with endangered rainforest hardwood, and should be avoided. [The Environmental Media Association \(EMA\)](#) has gathered a list of directors who have pledged to help reduce the use of the tropical plywood Lauan, in favor of available, environmentally responsible and cost-effective [lauan alternatives](#).
- Build all set walls and pieces with resource conservation, disassembly and recoverability in mind. Whenever possible, use screws that can be removed instead of staples, and avoid applying adhesive to materials that will make separating them at strike difficult or impossible.
- Check the designated wood scrap/offcut area first before using new material.
- [Formaldehyde](#), present in most construction material, has been identified by [OSHA](#) as carcinogenic. Sawdust should always be kept to a minimum with proper dust collection systems.
- Cutting and routing composite materials can release harmful vapors from heating adhesives and resins, so ventilation in the carpentry area is essential.
- Avoid fossil-fuel-based plastics, foam, and other polluting materials, substituting wood, canvas, paper, and cardboard and other biodegradable materials whenever possible.
- Use [low VOC, solvent-free construction adhesive](#).
- Rechargeable batteries in power tools should be fully drained before recharging to extend their life.

CONSTRUCTION VENDORS

Green Depot

6951 New State Road
Philadelphia, PA 19135
Phone: 215-333-3810 ext: 7902
Fax: 215-333-3878

Contact: Kerri Owsiany
KOwsiany@GreenDepot.com
www.greendepot.com

They carry FSC certified dimensional lumber and NAUF (no added urea formaldehyde) plywood. They also have [low VOC, solvent-free construction adhesive](#).

Russell Plywood

South Gate Industrial Center
3 McCullough Dr.
New Castle, DE 19720
Phone: 800-787-7355
Fax: 302-324-5146

They have a "Green Compliant Product Portfolio", including [Purebond FSC](#)

certified, NAUF plywood, particleboard, and melamine.

Fessenden Hall Inc.

1050 Sherman Ave.
Pennsauken, NJ 08110
Phone: (856) 665-2210
Fax: (856) 665-6518
Email: terrygery@fessendenhall.com

www.fessendenhall.com
They carry [Uniboard's NU Green NAUF](#) particleboard and melamine, and [Sierra Pine's NAUF MDF](#).

Kane Hardwood (Collins Pine Co.)

95 Hardwood Drive
Kane, PA 16735
Phone: 814-837-0117
Fax: (814) 837-8401

Contact: Randy Byers
rbyers@collinsco.com
www.collinswood.com
Manages the [FSC-certified Collins Pennsylvania Forest](#) in the Allegheny

Mountains of northern Pennsylvania. They carry FSC certified dimensional lumber and particleboard.

Homasote Company

932 Lower Ferry Road
West Trenton, NJ 08628-0240
Toll Free: 800-257-9491

Phone: 609-883-3300
Sales: Ext. 1500
Tech Support: Ext. 1332
www.homasote.com
Manufacturer of sheet goods made from 100% recycled newsprint and less than 2% paraffin wax. Their new PINnacle 440 3/8" thick tackboard panels are a smoother finished panel that is paint ready with no additional finishing necessary.

Grips

- Set up an area where offcut lauan/homasote/plywood/plexiglass and other sheet goods, and 1x, 2x, etc., can be stored and used for smaller jobs, rather than cutting from full sheets and lengths.
- Designate waste cans specifically for small wood scraps and sawdust only, so that they are kept separate from other trash, and can easily be recovered by your recycler.
- Sawdust, silica dust, and many other dusts from sanding and liquid evaporation become airborne when they are dry swept, causing a significant respiratory health risk to the crew. Wet mop or **HEPA** vacuum dust whenever time allows, and use a spray bottle with water or solvent-free sweeping compound when sweeping.

Paint

- Many materials scenics use contain skin, eye, and lung irritants, and can be carcinogenic and toxic to the environment. The scenic charge needs to educate the industrial/scenic crew on proper handling and disposal of materials, and make it a top priority throughout the build.
- Look for [Green Seal](#) certified paints that emit zero or low levels of volatile organic compounds (VOCs), hazardous air pollutants, and ozone-depleting compounds. They cannot contain any proven carcinogens, mutagens, reproductive toxins (except titanium dioxide). The packaging must also contain a minimum of 20% recovered material.

GRIP SUPPLIES

McMaster-Carr

200 New Canton Way
Robbinsville, NJ 08691-2343
Phone: 609-689-3000 or 609-259-8900
Email: nj.sales@mcmaster.com
They carry petroleum free sweeping compound, and biodegradable hydraulic and air compressor lubricating oils.

- The **ACMI AP (Approved Product) Seal** is another important certification to look for on artist materials. While primarily concerned with identifying materials that do not pose significant health risks, products with this stamp are often less polluting to the environment.
- Paint is one product that is not necessarily better to buy in bulk sizes. Gallon cans are made of recyclable steel, which can be melted down almost indefinitely, with minimal loss in the quality of the raw material. Five gallon buckets are made out of fossil fuel based #2 HDPE plastic, which can only be “downcycled” once into a much lower grade product, such as plastic lumber, that must then be landfilled at the end of its life.
- Steel paint cans can still be recycled with small amounts of dried latex paint residue in them, so after getting as much paint as possible out of the can (regular kitchen spatulas work great) leave the lid off to air dry, and then recycle the can and lid. Never rinse excess paint down the drain.
- Keep a large sheet of cardboard in the scenic area to get excess latex paint off of rollers and brushes before washing. Each layer can dry out, so the sheet can be used repeatedly.
- Brushes and roller covers that are going to be used again within a short time can be stored in biodegradable ziplock bags, rather than repeatedly rinsing excess paint down the drain.
- Leftover paints of similar chemistry can be consolidated by color/sheen, so that they can easily be tinted and reused for a different project, or used as a primer or base coat. Make sure that these mixtures are clearly labeled, and **never** mix solvent based oil paint with water based paint.

PAINT VENDORS

D.L. Richie Paint N' Decorating

5241 Brightwood Road
Bethel Park, PA 15102
Phone: 412-833-0237
www.dlrichie.com
They carry **Green Planet** zero VOC paints (soy resin and clay based).

Kilian Hardware

8450 Germantown Ave
Philadelphia, PA 19118-3302
Phone: 215-247-0945
www.kilianhardware.com
They carry **The Old Fashioned Milk Paint Co.** products.

The Real Milk Paint Co.

11 West Pumping Station Rd.
Quakertown, PA 18951
Phone: 800-339-9748 or
215-538-3886
www.realmilkpaint.com
They carry milk paint and Soapstone solvent-free wax (an alternative to Butcher's wax).

Greenable

126 Market Street
Philadelphia, PA 19106
Phone: 215-922-6066
www.greenable.org
Carries **Mythic***, **Yolo Colorhouse***, **AFM Safecoat***, and **Durasoy*** brands.
Contact: Angelo Anastasio

Green Depot

6951 New State Road
Philadelphia, PA 19135
Phone: 215-333-3810 ext 7902
Contact: Kerri Owsiany
KOwsiany@GreenDepot.com
www.greendepot.com
They carry **AFM Safecoat*** paint and low VOC caulk.

Home Depot

1651 S Columbus Blvd.
Philadelphia, PA 19148
Phone: 215-218-0600
For additional store locations, go to www.homedepot.com
Their zero VOC paint line is called **The Fresh Aire Choice.***

Lowes

2106 S. Christopher Columbus Boulevard
Philadelphia, PA 19148
Phone: 215-982-5391
For additional store locations, go to www.lowes.com
Their zero VOC paint line is called **Olympic Premium***.

Old City Paint & Decorating (Benjamin Moore)

210 W Girard Ave
Philadelphia, PA 19123
Phone: 215-625-8300
For additional store locations, go to www.benjaminmoore.com
Their zero VOC paint line is called **Eco Spec***.

M A B Paints

2100 N Broad St
Philadelphia, PA 19121
Phone: 215-765-7018
For additional store locations, go to www.mabpaints.com
Their zero VOC paint line is called **Enviro-Pure***.

Philadelphia Paint Store

3851 Aramingo Ave
Philadelphia, PA 19137
Phone: 215-743-4555
www.phillypaint.com
Their zero VOC paint line is called **Pure Performance***.

Sherwin Williams

1001 Washington Ave
Philadelphia, PA 19147
Phone: 215-389-4801
For additional store locations, go to www.sherwin-williams.com
Their zero VOC paint line is called **Harmony***.

*Products marked with an asterisk are low or zero VOC, and less toxic than most latex paints, but are still petrochemical based

For more brands, see the **Greenseal Recommended Paint Listings** at:

www.greenseal.org/findaproduct/paints_coatings.cfm

- Avoid all oil-based paints that include toxic paint thinners, like mineral spirits, turpentine, acetone, xylene, and denatured alcohol. Make sure you wear NIOSH-approved respirators with the proper cartridges when using solvents, and remember that the warnings regarding proper ventilation also applies to the workers around you.
- Establish a solvent mixing area separate from the water based mixing tables, where the fumes can be properly ventilated, and keep all containers closed when not in use.
- If you use oil paints, **never** wash brushes in the sink without soaking them in paint thinner first. Jars used for cleaning brushes must be tall enough to soak brushes in and still close tightly. The paint sediments will settle to the bottom overnight, so you can reuse the turpentine, mineral spirits, etc. many times over. Wash hands with baby oil instead of solvents.
- Even water-based latex paints can contain harmful ingredients like formaldehyde, ammonia, hazardous pigments, and solvents like ethylene glycol (antifreeze). These are all toxic when absorbed through the skin, or if inhaled for long periods of time, so use with caution.
- Oil-based paint, brushes, and rags used with solvents are considered hazardous materials, and cannot be disposed of in regular trash.

ADDITIONAL SCENIC SUPPLY VENDORS

Murco 100 Natural Joint Compound

253 E Cemetery St

Pulaski, TN 38478

Phone: (931) 363-5851

www.murcowall.com

Solvent and preservative free, with only natural binders.

Green Earth Office Supply

1400 Coleman Ave, Ste H16

Santa Clara, CA 95050

Phone: 408-353-2096

Fax: 408-969-0909

Toll Free: 800-327-8449

www.greenearthofficesupply.com

info@greenearthofficesupply.com

They carry biodegradable quart cups, and cellophane rolls to replace acetate.

Clear Bags

4872 Highway 64 East

PO Box 307

Selmer, TN 38375

Phone: 800-328-1847

www.clearbags.com

They carry Earth First brand biodegradable, compostable clear ziplock bags and rolls to replace acetate.

For more environmentally friendlier art supplies, see

ACMI's (Art and Creative Materials Institute)

Searchable Certified Product List at

www.acminet.org

- Brushes, even inexpensive chip brushes, are not meant to be disposable. Take care off them.
- Use canvas drop cloths without the plastic lining.
- Avoid spray paints and adhesives. If they must be used, only use them while wearing a respirator in a well ventilated area, like outdoors or in a spray booth.
- Repeated exposure to “respirable” silica dust from [sanding joint compound](#) and paint can cause many respiratory health problems, including lung cancer and [silicosis](#). Wet sand whenever possible, avoid making the dust airborne with fans, and make sure to wear a mask or respirator with the proper particulate filter efficiency level (nuisance dust masks are not sufficient protection.)
- Joint compound contains polyvinyl acetate, preservatives like formaldehyde, and solvents. When drying time allows for a slower setting joint compound, use [Murco 100](#), which is solvent and preservative free, and contains only natural binders.

SAFETY EQUIPMENT

Arbill

10450 Drummond Road

Philadelphia, PA 19154

Phone: 800-523-5367

Fax: 800-426-5808

Email: orders@arbill.com

www.arbill.com

Local company that carries nitrile gloves, respirators/ cartridges, dust masks, Tyvek suits, earplugs, safety glasses, and many other worker safety products.

- Use water based glues, like Elmer's or Sobo whenever possible, and avoid highly toxic two part epoxies, spray adhesives, rubber cement, etc.

- Try [powdered biodegradable glue](#) or [100% wheat paste](#) (without vinyl additives and preservatives).

- Use [solvent-free butchers wax](#).

- Use [low VOC caulk](#).

- Polyurethane two-component resins, expandable foams and fiberglass resins are extremely toxic, and should only be used after specific precautions have been taken. Contact United Scenic Artists Local 829, Industrial Hygienist Monona Rossol 212-777-0062 or at actsnyc@cs.com regarding the safe use of these materials.

- Use [biodegradable ziplock bags](#) for brush/roller storage, [biodegradable quart cups](#) instead of plastic, and [biodegradable cellophane](#) instead of acetate for tracing/elevation covering.

- Buy [reclaimed rags](#), and rinse and reuse them as much as possible before discarding.

Set Dressing/Props

- Rent instead of buying whenever possible.
- Buyers for set deck/props should choose fuel efficient vehicles, and make every effort to shop locally.
- Purchase used cardboard boxes, or choose a supplier that uses recycled cardboard with a high percentage of post-consumer content.
- Replace commonly used cleaners, like ammonia, with less toxic alternatives (see **Safer Cleaning Products** on page 15.)

Greens

- Purchase plants, soil, etc. from local nurseries and urban farms that do not use excessive pesticides, and sell native species. Donate plants to the community after the shoot.

BIODEGRADABLE GLUE

MagiGlue

1450 S. Rolling Road
Baltimore, MD 21227
Phone: 410-455-6319
Toll Free: 1-888-892-8408
www.athenaenvironmental.com
Plant based, preservative free biodegradable glue powder manufactured in Baltimore.

SET DRESSING SUPPLIES

American Box and Recycling Co.

3900 North 10th Street
Philadelphia, PA 19140
Phone: 1-800-970-3777
215-599-2350

Fax: 215-599-2361

E-mail: Kim@amboxco.com

They not only sell used cardboard boxes, but are an excellent local recycling resource (see

Recycling: All Inclusive in the recycling listings.)

Green Packaging, Inc.

650 North Cannon Avenue
Lansdale, PA 19446
Phone: 877-822-0552
Local: 215-368-7265
www.greenpackaginginc.com
Local supplier of 100% post consumer waste cardboard boxes, biodegradable corn starch packing peanuts and [PaperNuts](#) and [Prairie Eco Pak](#) sustainable packaging materials.

GREENS SUPPLIES

The Organic Mechanic Soil Company, LLC

110 E Biddle St.
West Chester, PA 19380
Phone: (484) 557-2961
mark@organicmechanicsoil.com
www.organicmechanicsoil.com

Wholesale producer/distributor of organic potting soil. For smaller quantities, see their list of retailers [here](#).

Greensgrow

2501 E. Cumberland Street
Philadelphia, PA 19125
Phone: 215-427-2702

www.greengrow.org

Local urban farm with a variety of plants, potting soils (including Organic Mechanic), and mulches.

Redbud Native Plant Nursery

1214 North Middletown Road
Glen Mills, Pa 19342
Phone: 610 358 4300
info@redbudnativeplantnursery.com
www.redbudnativeplantnursery.com
Extensive selection of trees, shrubs, grasses, vines, ferns, wildflowers and aquatic plants for the mid-Atlantic region. Pick-up only, they do not ship plants.

Electrics

- The electrics crew are often left with the task of turning off unused equipment. Make sure that the crew is told at the beginning of the production that while the electrics crew is there to help safely get power to their work area, it is the responsibility of every crew member to turn off their work lights, compressors, fans, etc. when they are finished with them.

Special Effects

- Many hazardous chemicals are used in the special effect department, and it is crucial that this area be located in a section of the shop with adequate ventilation and exhaust capabilities.
- The welding area should be kept 35 feet from any combustibles, including sawdust and flammable paint. Fire extinguishing equipment must be available and maintained.

Transportation

- Carpool whenever possible.
- Instead of just reimbursing for parking or mileage, consider financial incentives to reward the crewmembers who use public transportation.
- For getting around the set, opt for alternate forms of transportation whenever possible. Encourage the crew to ride bike, scooters, etc. around the set instead of gators or cars.
- To conserve fuel, the scenic charge, construction foreman, and key grip should make every effort to coordinate their supply runs and deliveries to locations.
- Unload any unnecessary weight during deliveries, to increase fuel efficiency.
- Do not keep production vehicles running when not in use. Diesel emissions contribute to asthma, chronic bronchitis, and lung cancer, and Philadelphia has [anti-idling laws](#) aimed at reducing toxic air pollution and conserving fuel.
- Optimize fuel efficiency by accelerating slowly and smoothly, and maintaining the speed limit.
- Recycle all motor oil, antifreeze, etc.
- Contract with buses/trailers that are fuel efficient, preferably biodiesel.
- Purchase biodiesel blends for trucks and equipment. While B5-B20 are the current standard, some engine manufactures are starting to accept higher biodiesel percentages.

ALTERNATIVE TRANSPORTATION

TransitChek

Delaware Valley Regional
Planning Commission
Office of Commuter Services
190 N. Independence Mall
West 8th Floor
Philadelphia, PA 19106-1520
Phone: 215-592-1800
Fax: 215-592-9125
Toll Free: 800-355-5000
Email: TransitChek@dvrpc.org
www.dvrpc.org/gettransitchek
An employer-offered commuter
benefit program to encourage
regional public transit.

ALTERNATIVE FUEL STATION

Center City Shell Station; S&B Auto

1135-45 Vine Street
Philadelphia, PA 19107
215-928-9181
Open 24/7
Contact: Steve Mack
Sells B20 Blend Biodiesel and E85
Ethanol

During the Shoot

Locations

Catering and Craft Services

Shooting Grips/Electrics/Lighting

Camera/Sound

Continuity

Special Effects

Script/Call Sheets

Make-up/Hair

Wardrobe

Onset Scenic/Carpenter/Dresser/Props

Greens

Transportation/Trailers

Locations

- Arrange for a dumpster or hauler that will recycle all recoverable materials generated on location, including construction, paint, catering, and shoot crew waste.
- If possible, bring a coffee pot to the location, so that the crew can have coffee throughout the day in travel mugs that they bring with them, rather than buying the crew coffee in disposable cups.
- Water on location also generates a great deal of unnecessary waste, so whenever possible, encourage the use of tap water, water coolers, and refillable containers, instead of buying bottled water.

Catering and Craft Services

- Many caterers who serve the entertainment industry use dishes, glasses and silverware, rather than single use disposables. Make sure that when you are deciding on a caterer, that you choose one that agrees to make that the default, and that if a location has no dishwashing capability, or there are other circumstances that make using real dishes impossible, that they agree to use only biodegradable disposables.
- All food has a carbon footprint, but caterers can greatly reduce their environmental impact by serving meals with more seasonal, local produce, and less meat and dairy. When serving meat, look for locally sourced, free-range, and antibiotic/growth-hormone free options, and try to find seafood choices that are also local and sustainable.
- Both the caterers and craft service should use locally sourced and/or organic foods whenever possible and remember to provide vegetarian/vegan options.
- Offer some craft service snacks that do not require plates or utensils. Any disposables provided should be made from biodegradable, compostable material, not petrochemical plastic. Avoid using all styrofoam.

CATERING/ CRAFT SERVICE SUPPLIES

The Wholesale Guide to Local Farm Products

“Created by The Fair Food Project of White Dog Community Enterprises as a tool for chefs and other wholesale buyers to purchase local farm products and locally produced foods. The Guide provides a comprehensive list of regional family farms and food companies that market directly to restaurants and small retail stores in the Philadelphia area.”

www.localfoodphilly.org/wholesale_guide.php

Essene Market

719 S. 4th Street
Philadelphia, PA 19147
Phone: 215-922-1146

www.essenemarket.com

Their produce is organic, although most is not local.

Fair Food Farmstand

12th & Arch Street (stand is inside, across from Metropolitan Bakery)
Phone: 215-627-2029

Tues-Sat: 8am-6pm

Sun: 9pm-4pm

www.whitedogcafeoundation.org/farmstand

Local, sustainably produced produce, humanely-raised meat and poultry, grass-based dairy, eggs, cheese, and baked goods.

Greensgrow

2501 E. Cumberland Street
Philadelphia, PA 19125
Phone: 215-427-2702

Fax: 215-475-4670

www.greengrow.org

Local urban farm and market that sells produce, cheeses, baked goods, etc. from regional farms and businesses.

Otolith

143-47 West Girard Avenue
Philadelphia Pennsylvania 19123
Phone: 215-426-4266

E-Mail: otolith@covad.net
www.otolithonline.com

Local, family owned business that sells responsibly harvested Alaskan seafood

Weavers Way Coop

559 Carpenter Lane
Philadelphia, Pennsylvania 19119

Phone: 215-843-2350

www.weaversway.coop

Whole Foods Market

2001 Pennsylvania Ave
Philadelphia, PA 19130

Phone: 215-557-0015

or

929 South St

Philadelphia, PA 19147

Phone: 215-733-9788

www.wholefoodsmarket.com

LOCALLY MADE CRAFT SERVICE OPTIONS

Metropolitan Bakery

www.metropolitanbakery.com

Toll Free: 1-877-41-BREAD

Handmade bread, rolls, granola, and other baked goods made in Fishtown since 1993. They support local farmers by offering locally made jams, cheeses, spreads and other specialties in their [five Philadelphia locations](#), and the 19th street store is a pick-up location for community-supported agriculture. They also donate bread to shelters every week. For wholesale, contact Sandra Larcade at 215-266-6386 or E-mail:

sandra@metropolitanbakery.com

StarBar Organics is a handmade protein bar and baked goods company located in Philadelphia, PA.

For more information or to place an order, contact mary@starbarorganics or call: 267-259-1853

www.starbarorganics.com

Steaz (The Healthy Beverage Company)

18 S. State Street
Newtown, PA 18940
Phone: 215-321-8330 office

Toll Free: 800-295-1388

Email: info@steaz.com

www.steaz.com

A local, organic, fair trade beverages company.

BIODEGRADABLE FOOD STORAGE/SERVEWARE

Lap Distributors

3515 Amber Street
Philadelphia, PA 19134

Phone: 215-744-4000

Fax: 215-744-5717

Email: paul@lapdistributors.com

www.lapdistributors.com

A local wholesale distributor of many biodegradable/compostable cups, utensils, and take out containers.

GreenLine Paper Company, Inc.

631 S Pine St., York, PA 17403

Toll Free: 1-800-641-1117

www.greenlinepaper.com

They carry many [biodegradable/compostable cups, containers, etc.](#)

Curry Office Supplies

233 Chestnut Street
Philadelphia, PA 19106

Phone: 215-627-0990

Fax: 215-627-5448

www.dswebengine.com/curry

They carry biodegradable/compostable plates, cups, and utensils.

Green Earth Office Supply

1400 Coleman Ave, Ste H16
Santa Clara, CA 95050

Phone: 408-353-2096

Fax: 408-969-0909

Toll Free: 800-327-8449

www.greenearthofficesupply.com

info@greenearthofficesupply.com

They carry biodegradable/compostable hot and cold cups, straws, cutlery, cellophane, and many take out containers.

- Arrange to get any perishable leftover food after the meals to a local food bank or shelter, and donate any unwanted non-perishables when time allows. For detailed information on The Emerson Good Samaritan Food Donation Act, see www.epa.gov/epawaste/conservation/materials/organics/pubs/wast_not.pdf.

- Philadelphia currently does not have a commercial composting facility that handles food waste. The closest permitted compost facility is [Two Particular Acres in Royersford](#). For smaller quantities, many types of portable, inexpensive composters are available that could be used to handle food preparation scraps, and the resulting compost can be donated to many community gardens in Philadelphia.

Shooting Grips/Electrics/Lighting

- Turn off all lights and equipment when not in use, and unplug them when feasible.
- Recycle color gels. While costly, glass dichroic filters are a longer lasting, less wasteful choice.
- Use energy efficient lighting, like compact fluorescents or [Nila](#) led lighting.

Camera/Sound

- Record to hard drive, cards, Flash Drive, or other reusable media instead of tape and film.
- Play digital dailies directly from the hard drive, rather than printing them to cd/dvd.
- Use rechargeable batteries, and put used batteries aside for recycling.
- Purchase and rent energy-efficient equipment.
- Consider shooting in 3 perf, which uses 25% less raw film stock and processing chemicals.
- When using film, make sure that waste film and photographic processing chemicals are disposed of in accordance with local regulations.

Continuity

- Use digital photos, rather than polaroids.

Special Effects

- Make sure that the [Philadelphia Department of Public Health's Air Management Services and Environmental Health Services Units](#) are consulted regarding any potential environmental hazards that may be associated with special effects during the shoot.

COMPOSTING

Planet Natural

1612 Gold Ave.
Bozeman, MT 59715
Phone: 800-289-6656
www.planetnatural.com
Most portable compost bins are now made of plastic, but they carry a metal [Compost Tumbler](#).

Two Particular Acres

301 Rittenhouse Road
Royersford, PA 19468
Phone: 610-454-9635
Fax: 610-397-1895
www.twoparticularacres.com
Email: EJF@twoparticularacres.com
Family farm located in western Montgomery County with an On-Farm Compost Permit issued by the Pennsylvania Department of Environmental Protection (DEP).

ENERGY EFFICIENT LIGHTING

Nila Lighting System

Phone: 818-392-8370
www.nila.tv
Energy efficient, sustainably designed LED lighting system.

RECYCLED VIDEO CASSETTE TAPES

Green Earth Office Supply

1400 Coleman Ave, Ste H16
Santa Clara, CA 95050
Phone: 408-353-2096
Fax: 408-969-0909
Toll Free: 800-327-8449
www.greenearthofficesupply.com
info@greenearthofficesupply.com

Script/Call Sheets

- Use the daily call sheets as a place for reinforcing your production’s environmental commitment, by including recycling reminders, updates on any progress made, or other environmental information.
- Use double-sided script sides, and make sure that there is a clearly marked paper recycling bin convenient to the set.

Make-up/Hair

- Choose products that use less packaging, or biodegradable packaging.
- Choose products that meet the criteria of the [Compact for Safe Cosmetics](#).
- Use cruelty-free products that do not use animal testing.
- Look for organic alternatives.

MAKE UP/HAIR CARE SUPPLIES

Use The Environmental Working Group’s searchable “Skin Deep Cosmetics Safety Database” at www.cosmeticsdatabase.com to look for less toxic, more environmentally friendly beauty supplies.

Cargo Plant Love

Available online at www.cargocosmetics.com or locally at [Sephora](#)
1714 Chestnut Street
Philadelphia, PA
Phone: (215) 563-6112
Their “Plant Love” line of lipsticks, face powders, eyeshadows, and liner

pencils are biobased, petroleum free, and packaged in 100% biodegradable paper or PLA corn packaging.

Ecco Bella

Available online at www.eccobella.com or locally at:

Whole Foods Market

2001 Pennsylvania Ave
Philadelphia, PA 19130
Phone: 215-557-0015

[FlowerColor](#) Face Powder and Bronzing Powder are biobased, petroleum free, talc free, and are packaged in cardboard compacts.

Farmaesthetics

Available online at www.farmaesthetics.com or locally at:

Macy’s

1300 Market Street
Philadelphia, PA 19107
215/241-9000

Biobased, petroleum free cleansers, moisturizers, powders, etc. packaged in recyclable glass bottles.

Josie Maran

www.josiemarancosmetics.com

Not entirely plant based, but most products are packaged in glass, aluminum, or paper, and the blush, bronzing powder, cream blush, cream bronzer, eye shadow, finger paints and pressed powder are packaged in biodegradable PLA corn plastic.

Wardrobe

- Avoid purchasing synthetic materials like vinyl and polyester, which are petroleum derived and highly toxic to manufacture.
- Donate used costumes.
- Reuse/recycle coat hangers and plastic garment covers.

- Avoid dry cleaning, or use environmentally friendlier dry cleaners that do not use perchloroethylene when cleaning costumes.

Onset Scenic/Carpenter/Dresser/ Props

- Traditional onset quick fixes involve using dulling spray, spray adhesive, toxic cleaners and other solvent-based products that pollute the environment and subject the cast and crew to inhalation hazards. Proper ventilation is likely to be even more limited than usual in a controlled shooting environment, so every effort should be made to substitute less toxic, non-aerosol alternatives to minimize the impact on indoor air quality.

Greens

- Plants purchased should be maintained not just for the duration of the shot, but with the intent of selling, donating or replanting as many of them as possible afterwards.

Transportation/Trailers

- Avoid flying as much as possible, by using phone and internet conferencing.
- When trailers are empty, make sure to turn off the generators.
- When renting cars/trucks/gators, choose fuel efficient models, alternative fuel hybrids, or use diesel engines, which run on low sulfur diesel or biodiesel.

Hotels

- Whenever possible, book rooms in hotels that have instituted environmental friendlier policies.

ENVIRONMENTALLY FRIENDLIER DRY CLEANING

Oxford Valley Custom Cleaners

148 N. Flowers Mill Rd.
Langhorne, PA 19044
Phone: 215-750-787
Listed in the [EPA's The Cleaner Guide](#), but you must specify that you want them to use their wetcleaning process, a water-based alternative that uses special biodegradable detergents.

Plaza Cleaners*

1662 Bethlehem Pike,
Flourtown Mall.
215-836-1614

Kim's Cleaners*

414 South 20th Street
Phone: 215-546-5595

*These two cleaners use the hydrocarbon method, which is less toxic than perchloroethylene, but still involves using a petrochemical VOC solvent that release greenhouse gases. Until better options become available in Philadelphia, the best option is to hand wash, and avoid dry cleaning whenever possible.

COMMUNITY GARDENS

The Neighborhood Gardens Association

100 N. 20th Street, Fifth Floor
Philadelphia, PA 19103
Phone: 215-988-8797
Email: nga-staff@ngalandtrust.org
Maintains a list of Philadelphia Land Trust community gardens at www.ngalandtrust.org

CAR RENTALS

Enterprise Rent-A-Car

36 S. 19TH ST
Philadelphia, PA
19103-3525
Phone: (215) 751-1460
or
123 S 12TH ST
Philadelphia, PA
19107-4933
Phone: (215) 625-6970
www.enterprise.com
These two locations have hybrid vehicles for rental.

PhillyCarShare

125 S. 9th Street Suite
1000
Philadelphia Pennsylvania
19107 Phone: (215)
730-0988
Fax: (215) 130-0650
www.phillycarshare.org
They have hybrid cars in their fleet, offer many creative business transportation solutions, and will "create a unique solution for your company's unique needs."
Contact Jerry Furgione
215-495-1059

Zipcar

218 S. 12th Street
Philadelphia, PA 19107
Phone: 215-735-3691
Fax: 215-735-3695
www.zipcar.com
They have hybrid cars in their fleet.
Contact: Jeremy Nelson,
General Manager

GREENER LODGING

Philadelphia Airport Marriott

One Arrivals Road
Philadelphia, Pennsylvania 19153
Phone: 1-215-492-9000
Toll-free: 1-800-682-4087
The only [Green Seal certified hotel](#) in Philadelphia

The Strike

Recycling Set Materials

Set Dressing/Props/Wardrobe Donations

Paint Disposal

Greens

Recycling Set Materials

- Set walls can be reused or donated to high schools, theatres, churches, etc.
- Recycle all scrap metal. Ferrous scrap metals are magnetic, and include all types and shapes of iron and steel. Nonferrous scrap metals including aluminum, copper, and brass may be recycled separately, so check with your recycler.
- Carpeting can be donated or recycled.
- Plate glass, tempered glass, Plexiglass, etc. should be donated or recycled.

Set Dressing/Props/Wardrobe Donations

- Props and set dressing pieces that were purchased rather than rented should be sold or donated (see REUSE/ DONATIONS/ FOOD RECOVERY section on page 9)
- Recycle all cardboard boxes and packing material.

Paint Disposal

- Ask the production office staff to notify the entire crew about any available paint that they may take for home projects.
- Donate any unwanted leftover paint to local theaters and scene shops, schools, Habitat for Humanity, etc.
- **Never** put any wet paint, including water based latex, down the drain or in the trash. Small amounts of unwanted paint can be rolled out onto a piece of scrap cardboard, or solidified by adding small amounts of shredded newspaper or cat litter until dry, and then sent to landfill.
- Empty paint cans, can lids, and #2 plastic paint buckets with minimal residue, and empty aerosol cans with their caps removed, can **ALL** be put in with commingled recyclables.
- All solvent based paint must be disposed of as hazardous waste. Contact the Philadelphia Streets Department for commercial hazardous waste regulations.

Greens

- Donate plants, mulch, soil, etc. to crewmembers, or to local community gardens, who may also be able to use leftover organic material in their compost.

Post-Production

Editing

Promotions/Marketing

Editing

- Use digital post-production.

Promotions/Marketing

- Distribute promotional materials online as much as possible, and choose nontoxic, biodegradable materials for print promotion.
- There are many DVD case designs now that are made out of renewable material, so choose environmentally friendly media packaging.
- Consider highlighting your production's environmental best practices in the local media, or in the Special Features section of the dvd.

GREENER PRINTING

Paper Crane Press

2 New Road, Suite 129

Aston, PA 19014

Phone: 610-358-9496

Fax: 610-358-1844

www.papercranepress.com

Green Office Certified, worker owned and operated union print shop that promotes sustainable paper choices and utilizes silver recovery.

ALTERNATIVE PACKAGING

The 11th Hour

and

An Inconvenient Truth: A Global Warming

DVD packaging was made with 100% renewable recycled paperboard sleeves, sealed for retail in clear EarthFirst © PLA (bio-based) film.

Universal Studios

All DVDs distributed by Universal Studios Home Entertainment and Universal Pictures International Entertainment will carry messaging about going green. In addition, USHE has adopted the use of several groundbreaking environmentally conscious packaging and display products.

LOCAL GREEN MEDIA

Sandy Bauers

Writes a column and a blog for the *Philadelphia Inquirer* called *GreenSpace*.

www.philly.com/inquirer/columnists/sandy_bauers/

Email: sbauers@phillynews.com

Grid Magazine

Published by *Red Flag Media*

1032 Arch Street, 3rd Floor

Philadelphia, PA 19107

Publisher: Alex Mulcahy

215-625-9850 (Ext 102)

Editor: Dana Henry

215-625-9850 (Ext 101)

www.gridphilly.com

Carbon Offsets

The films *The Day After Tomorrow* (Twentieth Century Fox), *Syriana* (Participant Media), and the documentary *An Inconvenient Truth* (Paramount Vantage) were the first major motion pictures to be considered “climate neutral”. By investing in reforestation efforts and renewable energy projects, they sought to “offset” the carbon dioxide emissions generated by their productions. CO2 offsets have since become an increasingly popular trend in the entertainment industry, and it is becoming the primary tool for measuring a production’s environmental commitment. However, climate change is only one aspect of our ecological footprint. Along with curbing greenhouse gas emissions, sustainable production also means:

- Sustainable use of our planet’s natural resources.
- Reduction of waste and toxic pollutants in our landfills and waterways.
- Promotion of organic agriculture and equitable global food distribution.
- Water conservation.

All of these factors contribute to our impact on the environment, and should be considered in any sustainable production strategy.

“Carbon neutrality” itself is controversial. There are no globally agreed upon standards, and any regulations imposed on the market are voluntary, and extremely difficult to verify. In the entertainment business, this is further complicated by the fact that there are no industry-specific formulas to calculate how much carbon dioxide a production generates. Does “carbon neutral” include deforesting the rainforest for luan? What about the carbon footprint of the petrochemical plastics used to construct the set? Are carbon credits purchased to offset travel limited to compensating for the travel of the cast and crew, or have the greenhouse gas emissions from transporting food, water, and materials been considered? Given these limitations, it is more realistic to discuss reducing, not neutralizing, carbon emissions.

Finally, because financial considerations are by far the biggest impediment to making more environmentally responsible productions, the best strategy for reducing global warming is to concentrate on minimizing consumption and waste, rather than trying to compensate for it after the shoot.

If there is money in the budget for offsets, first consider:

- Hiring an environmental consultant to assist your production with sustainability efforts.
- Paying to switch from fossil fuel-based energy to 100% renewables with the local utility company.
- Purchasing sustainable, locally sourced building materials, food, etc. even if at higher cost.
- Ensuring that your recycler will divert the majority of your waste, including organics, from landfill to reduce methane emissions.
- Creating a financial incentive program for the cast and crew to choose environmentally friendlier travel options.
- Purchasing any available alternatives to petrochemical products.

CARBON OFFSET COMPANIES

The Environmental Media Association’s “Fast Facts about Offsets” page

with a link to www.climateclean.net

Climate Care

www.climatecare.org

Making tangible, measurable investments in your production’s environmental efforts is the most effective way to reduce your overall carbon footprint.