to New York City's wealth of sustainable* options.

Open this map in sections to view three maps: • Dark Side — Why We Need to Act Now • Bright Side — Every Day & Easy Green Choices **Powerful Investments** — For Today & Tomorrow

*Sustainability - a balance of environmental integrity, social equity and economic vitality. Climate Change - Global Warming: undeniably impacted by humanity's choices, weather is getting erratic and stormier, with dire predictions ahead. Emissions - airborne discharges of pollution, CO2 or

water vapor, etc. into the atmosphere. **Renewable Energy -** powered by the sun: solar, wind, biomass (plants) and other infinite resources. = At this website address (may need www.)

Click to learn more, download resources, etc. = Call this telephone number for details



About this Map

Green Maps are locally made maps of the natural and cultural environment that use Green Map® Icons to indicate sites and promote sustainability. This is the 225th published worldwide, as seen at @ Green-Map.org! NYC's is the original Green Map, and this energy edition is our fifth citywide Green Apple Map. = Get Maps at Greenmarkets, gardens, libraries, green businesses and at other sites on this map. Send in a stamped, self-addressed envelope for one copy or call/email for many. This map is also available as a poster, or tape 2 together for your wall. There's more energy online:
GreenAppleMap.org has in-depth information, **W**, links and tips in Chi-



PO Box 249, New York, NY 10002 nail: apple@greenmap.org Credits — Map: Wendy E. Brawer, Founding Director, Xixi Chen, Max Goldstein, Lee Frankel-Goldwater, Alice Hartley, Marshall Levine, Soon Chung Lim and Carlos A. Rubio Martinez Design: Jane Barber at @ JaneBarberDesign.com Images: Beth Ferguson & Juan Martinez and M Stock on cover Thanks to: 02NYC, Neighborhood Energy Network, GreenHome NYC, City of New York's Green Apple Initiatives & related agen-

East Sustainable Energy Association, and Greg Barber Printing.

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You Have the Power!

current power choices:

By exposing current and predicted energy-related problems on this map, our aim is to create awareness and positive action for our common future. Even though NYC is known as the USA's most energy

efficient city, we are paying a very high cost for our

the changing climate - the impacts of global

nergy Dark Sides: True Costs & Predictions

Wake Up Calls

Climate Change Predictions

Impact Sites

Potential Infrastructure

Traffic Hazard Zones

Power Generation Sites

Ecological Restoration Sites

Diesel Pollution Hot Spots

The Unfolding Story of this Map

 the highest asthma rate in the country fossil fuel dependency, resulting in debt, unhealthiness and injustice • the insecurity of being unprepared for the future

warming are just dawning on us Climate Change Predictions

Mhat happens to our city's 580 miles of shoreline if the ocean water levels rise as Columbia Earth Institute's "Climate Change and a Global City" report (Vivien Gornitz, 2001 🌐 earth.columbia.edu) predicted? Without surge barriers, areas impacted by a 10 foot flood are shown in **grey**. Accelerated by the emission of carbon dioxide (CO2) and other greenhouse gases from cars, buildings, farms, landfills, etc., ancient glaciers and the North Pole are melting, pouring fresh water into the oceans. New York could lose its storm surge buffers,

smart actions today can

from becoming reality.

help prevent this prediction

✓ vital infrastructure (water treatment)



Our fuelish choices are impacting everything — 2005's weather extremes including Hurricane Katrina, nese, Spanish and English. See NYC youth maps, too. summer's record drought in the Midwest and Europe, Arizona's week-long 110° heat wave, Bombay India's 37 inches of rain in one day, then a two-foot snowfall in NYC in early 2006 — all are indicators we can no longer ignore. Get the booklet Ready New York 311, get climate change resources greenhousenet.org.

"Where's the Non-Smoking Lane?"

- Steve Stollman 🌑 LocalExpression.com Even though NYC has the lowest number of autos 50% of NYC's air pollution (and 80% of inhaled cancer-causing substances) comes from vehicle emissions, and the increase in heavier, less efficient autos and especially wide SUVs is costly to all. NYC has new pollution laws for garbage trucks, taxis, construction equipment, and buses. Studies show auto emissions will be reduced through congestion pricing (midtown

tolls — see (RPA.org). Nationally, 20% of CO2 comes

from autos. With 5% of global population, the USA

contributes 25% of the CO2 (now at a 650,000 year

high level!). 2005 was the hottest year on record. Terror and trauma — over 40,000 Americans are killed each year by cars, trucks and buses. In NYC, there are over 650 accidents every day. The 25 most dangerous intersections for pedestrians and cyclists are on the map. See @ crashstat.org. Still gotta drive? Slow down! Drive with a light foot and see highlights at greenercars.com. Don't drive yourself to extinction.

Smokestacks from fossil fueled electrical power plants dot our waterfront. NYC's air quality is No.3 worst in the US, according to Environmental Defense, and over 185,000 of our kids already have asthma. See

ed.org 212·505·2100. Check air quality @ epa.

Peak Oil is the point at which oil extraction declines worldwide. Some experts say we're peaking now. North America's natural gas is in decline, too. Costs are soaring! Are we adapting to using less fossil fuel? See @ oilawareness.meetup.com/36/, @ Peak-OilNYC.org **or** EnergyBulletin.net.

There have been no major oil spills in NYC since

🕸 Nuclear power plants 🔣

they create no CO2, but their radioactive waste is an

NYC's closest 🕸 power plant, Indian Point, is a major

security risk, too. Cities, counties and Congress mem-

bers want it closed - learn more at mriverkeeper.org

There is no national security without environmental

security. Contact policy makers via Who Represents Me

& faith-based action at @ ClimateCrisisCoalition.org.

and renewables is a very sensible priority."

– Ben Cohen, president 🌐 TrueMajority.org

Each of us has the power to change NYC's energy future.

See this map's "Bright Sides " for getting around and

Icons without numbers are residences and

visit. Help us add more sites to the Powerful

Green Map's online edition.

other private sites. Do call ahead when you plan to 👚 🦳

more secure, greener living. Get efficient and involve

NYPIRG.org. See corporate campaigns at man.org

support for energy conservation

your school, workplace, apart

ment building, place of wor-

ship and community center.

Sign: Committee for Full Enjoyment

unsolved safety risk for current and future generations.

are controversial - true,

AGAINST

OIL WARS

gov/airnow and toxic emissions at @ scorecard.org.

1990, but current diesel pollution hot spots are on the com. Find out more about toxic infrastructure and other ustice issues through Natural Resources Defense Coun-Cological Restoration sites cultivate natural wetlands and plants to clean up oil spills and landfill leaks

map, along with Newtown Creek's infamous fifty-year old 17 million gallon spill − see ∰ GreenpointvExxor cil mrdc.org, Sustainable South Bronx ssbx.org and West Harlem Environmental Action @weact.org

as seen on Gaia Institute's @gaia-inst.org. Security Concerns: Nature creates hazards, but it's our careless development that fuels disaster.

Empowered Mobility The power to change is in our hands, thanks to abundant free, low-cost and readily available options for our daily needs, all across NYC! Multiple benefits: a healthier hometown, cleaner air, more \$ saved and a

Every Day and Easy

◀ Major Mass Transit Connections. Practically weather-proof, subways transport 4.6 million riders daily, more physically fit you. Start here today — then move on to Side 2's energy investments.

Getting Around

• Walking is one of the greatest adventures in the Green Apple, and powerfully efficient, too. Explore di verse cityscapes on 6.000 miles of sidewalks. 🧺 We og every day, even if you arks offer great walking ınd refreshment anvtime Take a free guided urban adventure walk with

nycParks.org, 🌐 Walk org 🕽 212-228-3126 or shorewalkers.org. Get inspired by mysonglines. com and NY Soundmap at myAcousticEcology.org What can your block association, club or school do to improve conditions? Kids and community resources include the Walking School Bus 3 646.375.2306 and ActiveLivingResources.org. See TrafficRelief.

org, 🌐 BikeWalk.org and 🌐 RightOfWay.org, too.

NYC's great Bike Map at myc.gov/dot 311. It in-

than we can detail on this small but Powerful Map!

₹ Fast, convenient, healthy and cheap: 120,000 ride

bicycles in NYC every day, enjoying the many advan-

Dress visibly – lights, bell and good brakes are re-

quired, plus a helmet for those 14 and under. \P Bikes

tages of this powerful vehicle for social change!

usally win cross-borough car-subway-bike races.

Advocacy, planning, great rides & events with

212.629.8080. Ride the state with New York Bicycle

Coalition mybc.net, and help calm NYC's streets at

monthly @ Critical-Mass.org rides — see **16 🌥** on

Side 2. See BikeCult.com and NewMobility.org.

Some garages offer secure bike parking, your work-

Time's Up! times-up.org 212-802-8222 and

Transportation Alternatives transalt.org

cludes bikes-on-transit rules, safety tips and far more

🐔 🚲 75 miles of car-free Greenways offer frustration and congestion. beautiful biking, walking, running and skate paths. Brighter Lighting — most traffic cross-NYC's network grows each year (see treebranch.com) walk and signals now use super efficient as does the East Coast Greenway @ greenway.org. LED lighting. Soon to be everywhere, க்க Connect with 108 miles of க்க Bike spot LEDs in exit signs, bike lights today. Paths and 25 accessible bridges, including those over Find 💥 solar panels on new parking Jamaica Bay, East River and Harlem River, the Tri-Bormeters, emergency phones and road-work signs.

ough, George Washington and more. All are detailed on

Ferries and Water Taxis are delightful, especially the free Staten Island Ferry with fresh green terminals at both ends. See our great harbor and the Statue of Liberty. Low-emission ferries are on our wishlist. Schedules at myc.gov/dot - put "ferries" in the quick search.

buses carry 2.4 million. There's a 20% discount with a

\$10 Metro Card. Subway and bus mta.info

sit — have an adventure on Metro

North (One Day Getaways), on

America's only commuter

cable car, the Roosevelt Island

Tram . 🚜 Take your bike along

and explore distant beaches a

ferries, the Airlink, or take

▲ Water-borne Recreation - rowboats, kayaks, canoes - are available at no or low-cost to the public, thanks to boat-building groups @ RockingTheBoat.org 718·466·5799, 🌑 FloatingTheApple.org and community groups like Bronx River Alliance bronxriver.

learwater.org or with mycAudubon.org to learn

about our waterways' rich wildlife. MyHarborSchool

org is a visionary marine-themed NYC public school.

▼ Fastest growing source of CO2: Flying! It's practi-

cally the same as each passenger driving alone to the

destination. Besides the noise pollution and emissions

around airports, high altitude releases of CO2 have

double the impacts. You can offset them (substitute

with carbon-reducing renewable energy development)

at MativeEnergy.com or BetterWorldClub.com, a

travel agency that offers roadside assistance to bicy-

locally and enjoy NYC's global and natural diversity!

clers and insurance discounts for hybrid cars. Vacation

See 📤 Metropolitan Waterfront Alliance's calendar and camnet 3800·364·9943.

▲ Sail on the

place may, too. There are 3,169 City Bike racks installed - get one from myc.gov/dot 311. Sad-looking "beater bikes" deter theft, good locks are a necessity. 75 Pedicabs are delightful bike-powered taxis. Catch one on the street or call Manhattan Rickshaw for a ride NYC now has its firs

Map Concept: 8/2003 - gasoline \$1.89/gallon 12/2005 - \$2.49/gallon; natural gas & oil up +30% 3718⋅330⋅1234 or check ⊕ hopstop.com for mixed Greenways walking/transit directions. Advocacy: Strap-Bike Lanes hangers.org campaigns for system improvements and wision42.org for light rail. 🛭 World Carfree Day is Major Mass Transit Connections September 22 — when will New Yorkers take part? Ferries and Water Taxis ◀ NYC has over 40% of the entire country's mass tran-Community Boat Access Car Sharing Parking Spots Preserving Resources Libraries (Main Branch) parks. myc.gov/dot has ferry schedules, private bus Marks Parks routes and live traffic cameras. Low CO2 travel by train Waterfront Parks Amtrak.com 3800·USA·RAIL or by bus @peterpanbus.com **3**800⋅237⋅8747 **or ⊕** trips123.com. Botanical Gardens P Car sharing saves hassle, \$\$\$, congestion and Year-round Greenmarkets resources. When you need one, ZipCar's efficient, partly-hybrid fleet is conveniently parked in 19 spots Seasonal Greenmarkets 👚 zipcar.com 🔰 866·4·ZIPCAR. Carpooling is another City Farms great way to reduce impacts and avoid creeping along in isolation - find one through 1.866.NY.COMMUTE or arpoolworld.com. Combine your errands to reduce

Energy Bright Sides

Free & Easy Options

Bike Parking

Bike Shops

River

Conserving Embodied Energy

Conserving Energy is easy: Turn off lights, comput- TreesNY.com. There's about a half-million ers, TVs, A/Cs when not in use. Wear a sweater indoors in winter so you can turn down the heating. Close curtains on hot summer days. Find tips in English, Chinese and Spanish at GreenAppleMap.org. See

19 💥 SolarOne energy education center on Side 2. Check your progress — is your energy bill shrinking? Want a cleaner electricity source? Click "Power Your Way" at @ ConEd.com, compare at @ PowerScore-Card.org. Get advice from @ IdealBite.com, @ greenhomeNYC.org and NY State's @ GetEnergySmart.org

₹ Waste Reduction and Reuse means don't waste energy buying disposables or tossing good stuff. Julia Butterfly Hill of CircleofLife.org says, "Bring your Make stuff you have last longer — if we bought and tossed less, we'd see, smell and breathe less garbage every day. Too much junk mail? Free list removal DMAconsumers.org. Prevent charities from bombarding you — give through @ NetworkforGood.org.

1.866-GRN-POWR. Ready to re-invest? See Side 2!

Libraries are a classic energy-saving resource. Each borough's major library is mapped; citywide, there are over 200 branches! Check locations and hours: brooklynpubliclibrary.org 718.230.2100 ext 4 @ queenslibrary.org **3**718-990-0700 ext 3

New York Public Library: @ nypl.org, which serves The Bronx 3 718-579-4200, Manhattan 3 212-661-0626 and Staten Island **2** 718-442-8562. Second-hand shops are chic, cheap and prevent waste, too. NYC has far too many to chart but find them

through 1.877.NYC.STUFF, @ nyc.gov/NYCwasteless or ReUseAlliance.net. Trade via freecycle.org, or set up a free Exchange Shelf in your community center or lunch/laundry room. See **39** on Side 2. ₹ INFORM has WasteFree NYC, a Community Waste

Prevention Toolkit, and more online informinc.org Cultural non-profits and art schools can take a wide variety of items donated by companies from Materials for the Arts mfta.org 718.729.3001.

A Recycling really does save resources and energy. Really! Get your neighbors to separate metal, glass, paper, plastic for NYC's deluxe weekly pickup. @ nyc.gov/sanitation 311 has details, free posters and schedules. Radio Shack and Staples stores recycle batteries and cellphones, see @ earth911.org.

Composting means recycling kitchen scraps and yard waste into fertile soil. This "black gold" is the most efficient form of recycling. How-to and drop-off info at MyCcompost.org or Lower East Side Ecology Center's stand at **16** 🍅 Union Square Greenmarket



Parks, Community Gardens and other green spaces provide cooler, cleaner air. Chill out by nurturing a

street trees in NYC – get one planted 311.

Join a community garden and help cultivate of formerly empty lot with @ GreenGuerillas.org

NYC's open spac

Lower East Side are major districts. Natural refreshment is free every day at NYC parks! With 28,000 acres, we have the nation's largest urban park system. The City is re-planting a diversity of native plants and restoring habitats for butterflies and birds @ NYCparks.org 311. ₩ Waterfront park views and breezes air-con-

dition our spirit - see Metropolitan Waterfront Alliance's events and maps @waterwire.net. Enjoy and learn at lush Botanical Gardens in the Bronx mybg.org, Queens (see 41 a on Side

sibg.org, Brooklyn 🌐 bbg.org. Find more 🛞

Food Matters 27 seasonal and a 15 year-round Greenmar-

vary, get the current schedule at any Greenmarket or @ cenyc.org 212.788.7476. The biggest one, Union Square Greenmarket, is **16** an Side 2. Grow your own food at a 🍄 City Farm like East New York Farms 3718.649.7979, or connect with

Community Supported Agriculture "subscription" program. 37 CSAs are at ∰ justfood.org **3** 212·645·9880. Fuel for you: Meat production and imported foods waste lots of energy and vitamins. Alternatively, resource-efficient locally grown and/or pesticide-free organic foods offer vitality - see TrueCostofFood.org and GraceLinks.

eWaste" recycling days for 212-477-4022. Recycle rain

delivery and shopping options opening all the time, we can't chart them all — find 'em online nappycow.net or 🌐 vivavegie.org 🕽 212-242-0011. A vegetarian or vegan (totally free of animal products) diet is a great way to save energy.

WNYC 820 AM/93.9 FM; magazines like Plenty, Organ ic Style, Metropolis and E; community papers like

New York's energy is legendary Requiring an investment of time or money, the green sites and resources on this half of the map use conservation and efficiency along wit renewables and other advanced and decentral ized forms of energy. Paybacks include rebates and tax credits, smaller utility bills, healthier neighborhoods and a true sense of security in knowing you are a clean power generator.

Respecting the privacy of residents, please view sites from the street unless a specific address is provided. 🔼 = by appointment only, please

= Call this telephone number for details = Get Green Maps here

or garden. Every building in NYC can be greener fied Buildings meet the nationally accepted standard for design,

ings, energy efficiency, green materials selection and indoor environmental quality. wsgbc.org. = Green Roofs use a living carpet of plants to cool the air while insulating the building. There's two kinds: extensive (not meant to be walked on) and intensive (more garden-like). Good for absorbing noise and rainwater, attracting birds and butterflies; fireproof, too. There are also coo

has NYC case studies - our flat roofs are ideal! Renewables and Alternatives generate clean en ergy locally. This "distributed generation" creates

roofs, painted to reflect heat. @ GreenRoofs.org

dence on foreign oil at the same time:

= Geothermal systems pump up warmth in winter or cold in summer from deep underground wells, where the temperature is always stable. = Co-Generation produces heat and either electricity or mechanical energy from one fuel, dramatically increasing output.

***** = **Solar Panels** generate electricity (PV systems) or hot water without emissions. Payback Period is the cost of installation minus the savings on your electric bill. Net Metering means excess PV power can be sold to Con Edison.

cooking oil to run your car!), anaerobic digesters (such as the ones that use **62** Fresh Kills landfill's gas), and biomass, which includes plant-based fuels like ethanol.

Sites indicated with a single Green Map Icon give you an overview of the great progress being made.

= At this website address (may need www.) 100 + websites are included for your convenience

a = Green Buildings include efficiency, renew-

and Environmental Design) Certiconstruction and operation of high performance green buildings. The key features of these buildings are sustainable site development, water sav

and CoolRoofs.org. GreeningGotham.or thousands of new jobs and reduces our depen-

= Fuel Cells create hydrogen to generate electricity on the spot, lowering \$\mathbf{f}\$ grid demand.

= Bio-based includes bio-diesel (recycle

= Wind or Marine Power spins turbines 24/7 to generate clean, quiet and efficient electricity.

Lower Manhattan

At the southwest tip

of Manhattan, there's a

high-end showcase: stroll

around the pesticide-free

lawns and look at blue PV

panels on the 01

Solaire and Tribeca Green

residential towers. See

the moving 02 📋

Irish Hunger Memorial,

native plant gardens and

site-specific artworks along the esplanade. Hudson River views recharge your spirit as you walk south. Manhattan's largest solar array - 36 kiloWatts - is atop 03 💥 Museum of Jewish Heritage's south annex, and

org explains their complex's advanced green development policies. You're just around the bend from: 04 🙋 🍥 🔠 👸 Staten Island Ferry -

SE corner of Battery Park siferry.com able energy, green materials and/or a green roof Both the Manhattan and Staten Island terminals are bright new green buildings, with great views of the harbor! Open 24/7. The ferry is a wonderful escape - enjoy a free harbor cruise any time.

05 🦋 🄠 Statue of Liberty & Ellis Island Now helping us all breathe free, these National Park sites in New York Harbor are biomass-powered.

the **Werdesian** towers above. BatteryParkCity.

If the People will Lead, the Leaders will Follow

06 **26 Federal Plaza** 290 Broadway and 500 Pearl Street are renewably powered government buildings. **@** NYC Department of Design and Construction has built 16 much-admired 🙋 projects. Download free manuals for high-performance buildings, geothermal heat pumps, efficient lighting at @ nyc.gov/html/ ddc/html/ddcgreen/ or buy from 07 💢 CityStore in the Municipal Building, 1 Centre Street.

Official Good News! The City has signed onto SierraClub.org's national Cool Cities CO₂ campaign, NY State has a 25% renewable portfolio standard target for 2013, a 9-state climate pact and an important energy research and development authority @ nyserda. org 1.866·NYSERDA. NY Power Authority @ nypα.org has replaced 181,000 power-hungry fridges, and more. ability, NYC's Green Apple Initiatives include **(a)** fuel cells, microturbines and Oco-generation systems in dozens of buildings, and even a 🙋 competition. Find out more about CO2 and business incentives for reducing 🗗 grid demand at 🌐 nyc.gov/edc. City Council is on it too, ensuring that new buildings built by NYC meet LEED standards by 2007. Follow local legislation at @ ClimateRescue.org and

EANY.org and voice your opinion. 18 💍 💢 🏦 Center For Architecture 536 LaGuardia Place @ aiany.org 2212-683-0023 Rotating exhibits, events and info. Build it Green! NYC now has several great green architecture firms, see aia.org/cote, usgbc.org or o2nyc.org.

Renters and Owners, learn from experts with GreenHomeNYC.org. Click Get Started for great advice and overviews of many buildings on this map, then check the calendar's cool events, including tours of and homes that don't often welcome the public.

09 🙋 🚨 🔼 National Audubon Society 700 Broadway 3 212-979-3000 @ audubon.org first green retrofits. Livability-focused Project for Public Spaces pps.org is also based here.

0 🔝 🕍 Fourth St. Food Coop 58 East 4th St. **212**·674·3623

1 **East Third Street** has 4 new affordable Lower East Side People's Mutual Housing Association developments by Chris Benedict RA, who has 38 more clustered in

12 💥 💚 🔠 🗬 6BC Botanical Garden East Sixth St. btw Avenues B & C @ 6bc.org

13 🔝) 🚲 🔠 Recycle A Bicycle 75 Avenue C 2 212-475-1655

14 💥 🖤 🔠 🖉 Lower East Side Park Just east of 1st Ave. btw East 11th & 12th Streets

15 🕍 🔊 🖾 Angelicα Kitchen

Heading Uptown in Manhattan 6 🥌 💸 🦝 💢 Union Square Greenmarket

17th St. & Broadway @ cenyc.org **2** 212 · 788 · 7476

mecca and starting point for Critical Mass rides. 17 🙆 🛮 🚳 🍘 💽 😻 Natural Resources

CO2 reduction. Terrific website at @ nrdc.org.

888 Broadway 3 917-496-4439

your new 💥 electric bill at 🕮 ABCrealgoodsSolar.com. 19 💥 👫 🔠 🏦 Solar One Stuyvesant Cove Park, East River at 23rd St. ∰ solar1.org 🕽 212·505·6050

21 🙍 🔠 💽 Cloud Institute for Sustainability Education 307 7th Ave. Sustainabilityed.org 212-645-9930 NEED.org, 🌐 HealthySchools.org & 🌐 EarthDayNY.org.

Power Diversity in the East Village

Improvements save 60% of energy costs in one of NYC's

Working together saves 25% on organic food.

Brooklyn and Inwood 🕽 212-477-6016. See 🕮 Greeninga-Block.org, which aims to transform an entire LES block.

PVs catch the sun for the waterfall and shed lights.

Youth empowerment low-cost bike shop. ⊕ OpenRoadNy.org 212.460.8467, ext. 160.

300 East 12th St. **2**12-228-2909

etarian meals. See links in Side 1's "Food Matters"

40 West 20th St. 212·727·2700 Powerful advocates for eco-energy, green buildings and

Solar consulting on 1, organic linens upstairs. Calculate

reople Power created this vibrant eco-park, and StuyvesantCove.org and Community Environmental

20 🐼 🔊 NYC's Children Intake Center Bright daylighting and quality air.

Teacher training, bio-sculpture & resource 🕮 . See 🌐

are by the high performance Durst Organization, NYC's

Youth designed! PVs, pond and water 📤-swale.

A pioneer, this organic café is now one of dozens in NYC serving healthy locally grown, energy-efficient veg-

Biggest in NYC. Union Square Park is a free speech

The Buzz in The Bronx

Natural building materials - paints, insulation & more. 29 📐 💢 🕡 Sustainable South Bronx 890 Garrison Ave. @ SSBX.org **3** 718-617-4668

Green Worker Coop — worker ownership and "green collar" jobs. See @ ArgusCommunity.org's New Leaf, too. 30 🙋 🔎 Sunflower Way & Melrose Commons II 158th - 159th Streets btw Melrose & Elton Avenues

🚹 🗯 🙍 Taino Plaza Very energy efficient, with the Bronx's first PVs!

32 🕜 Bronx Criminal Court Complex

22 🖿 🧺 🖋 💽 Earth Pledge Foundation 122 E 38th St. @ earthpledge.org 212·725·6611

committed green developers. 1 block west, the NY Times building uses an efficient double "skin" of glass. 24 🗽 💥 🙋 🗱 The Helena

Cool New Power Sources

preneurs and venture capitalists, take note! \(\frac{1}{27} \) Pilot projects for Fresh Kills, Governors Island and East 90th, 75th, 62nd and 34th Street ferry terminals are being planned. LonglslandNN.org is developing 40 large turbines to power 44,000 homes! 1 Purchase wind energy for your home or business from @ Community-Energy.biz 3866·WIND·123. Green Map's office uses

26 🗽 🔊 Underwater Turbines East River, east side of Roosevelt Island

eventual goal. 🌐 VerdantPower.com. 27 🙍 🕟 💽 1400 Fifth Avenue

8 🔝 🏿 🙍 Environmental Construction Outfitters 901 E 134th St. @ EnvironProducts.com 3 800-238-5008

Environmental justice projects, community market and

First affordable Energy Star housing in NY State, with beloved community gardens, see moregardens.org

Fashion, food, green roofs & biogas — it's all here! 23 🙋 🄘 💥 脣 4 Times Square & One Bryant Park (LEED Platinum, under construction) 42nd St. btw 6th and 7th Avenues Two great green skyscrapers! Both these and 24

Energy Star apartment building. PV by @ altPOWER.

com, NYC's original solar skyscraper designer-installer. 25 to United Nations HQ (10%) and Secretary General's residence (100%) are wind powered. See unep.org and @ un.org's Millennium Goals. Watch for

new urban and global accords on climate change, too. Wind & Marine Power holds great promise — entre-

their local NewWind Energy — yours can too!

Using natural underwater currents to pioneer generation of low-impact electricity. 5-10 megawatts is the

Harlem's first affordable and smart residences.

Advanced heating and cooling system, daylighting. Consider the well-being of future generations when you shop, eat, commute, work, play, create and vote! **Energy Bright Lights** This map was originally charted in December 2005. In May 2007, we added the newest LEED certified and Energy Star buildings. An other example of recent progress toward Greening the Apple: there Green Buildings are about one hundred more green roofs and new incentives in 2007. Areas of greater investment are emphasized on the Powerful LEED Certified Building Green Map — with an energy and ECOnomic development revolution

underway, how will these proportions change by 2030? EnergyStar Certified Fuel Cells Geothermal Energy River Co-Generation Sites Solar Sites Green Roofs ₩ Bio-Based Energy Wind & Marine Power (proposed sites in Grey) Natural Gas Stations

Green Businesses and Services Energy Education Resources Year-round Greenmarkets City Farms Cultural Site Upper New York

\$\$ Buy ENERGY STAR appliances. Your old refrigerator Start at Home! costs 2-3 times more to run than a new one Invest in long-lasting compact fluorescent light (even replacing the door-sealing gasket saves big \$\$). bulbs — save 75% of the energy, \$\$ & CO2. Each 22 watt \$\$ Own a home, co-op or building? It's a great time to ### Have savings or a retirement account? Invest in bulb saves \$50 over its incandescent equivalent! invest more efficient windows and lighting, a well-tuned renewable energy or socially responsible mutual Use Green Power! PowerScoreCard.org compares boiler, LED exit signs, insulation, "smart" power bars, funds, and use a bank where it helps the community. etc. See GetEnergySmart.org 1.877·NY·SMART. GreenPages.org has options. your electricity provider options.

expect even more savings (see dsireusa.org) and better PVs every year.
BasicSolar.org explains the intricacies and links to New York's local solar electric and hot water system installers. \$\$ As you can see, making your home or workplace more efficient is like creating a new source of income!

Save 50% with current tax incentives for solar

bcc.org **1**718-289-5458. **34 (1) CUNY Grad Center** offers continuing and public sustainability education, 365 Fifth Ave. ∰ web.gc.cuny.edu/cepp **2** 212-817-8215.

Sustainable Energy at Bronx Community College @ cse-

33 💥 🔲 🔠 CUNY recently joined the Million

Solar Roofs partnership and plans to install 500 PV sys-

tems in NYC by 2010 — get trained at CUNY Center for

Take Charge, New Yorkers

Education for a Brighter Future

35 M Pratt Center for Community Development has energy auditing and public education. 379 DeKalb Ave., prattcenter.net 718.636. 🕮 See 🕮 NYSeia.org and @ ases.org. All students can get active with sustainUS.org and EnergyAction.net, too. MeighborhoodEnergyNetwork.org offers great learning events, tours and supports neighborhood organizing around town. Do-it-yourselfers, click

212·827·0200. See ∰ NESEA.org's Sustainable Yellow Pages 3413.774.6051 and @ alt-technica.com. 36 St. Simon Stock School 2195 Valentine Ave. **718-367-0453**

Green roof and environmental education program.

37 💥 Gun Hill Bus Depot

door, and recharge by the river.

40 💥 🛮 🙍 New York Hall of Science

Flushing Meadows-Corona Park - 💥 15kW

green-trust.org and @ realgoods.com. @ nycApollo

org promotes energy-related jobs and development

Ely and Bartow Avenues At 300 kilowatts, it's NYC biggest 💥. See 🌐 nypa.gov. Taking Charge in Queens 38 💥 🔒 noguchi Museum 32-37 Vernon Blvd. @ noguchi.org > 718-204-7088

Inspiring art, too. Visit Socrates Sculpture Park, next

39 🏖 🔊 Build It Green! 3-17 26th Ave. at 45th St. bignyc.org 718-777-0132 Re-usable building materials warehouse, save \$\$! See HabitatNYC.org, cecenter.org and redo.org. WasteMatch.org exchanges all kinds of materials.

myhallsci.org **718**-699-0005 High performance daylighting in new Hall of Fame. 41 🙋 🕰 💢 🔠 Queens Botanical Garden 43-50 Main St. @ queensbotanical.org 718-886-380 Beautiful, nas water recycling, \$\mathbb{X} 15kW, recycled materials, under construction. Great sustainable land-

11036 Guy Brewer Ave. One of about 50 green roofs citywide. 📤 books, too! 43 NYCHA Ocean Bay Community Cente 57-10 Beach Channel Dr. **718**.634.4493

New geothermal system, under construction

scapes and education programs. Go Green Queens!

42 South Jamaica Library

Green Map System says Get Involved! Contribute to a healthier, more secure community, country and planet Help put new sites on this map! At @ GreenMap.org, we welcome your suggestions and support for our local-global mapping movement, now in 46 countries! Locally made products and gifts and E-waste recycling! contents are not guaranteed by Green Map System.

Gas Guzzling Departures

Powerful Green Map

Recycling & Rethinking

Food for Body & Mind

Empowerment

Human Power

Hot Spots

Predicted Change

Nature

borough. Go hybrid, flex-fuel or EV! NYC's fleet has 6,000 alternative fuel and 70 electric vehicles. W TriState-Biodiesel.com makes clean fuel for any diesel engine rom used cooking oil. Learn more at 🌑 biodieselNOW. com, New Jersey's Hydrogen Center @policy.rutgers. edu/ceeep, and \bigoplus ElectrifyingTimes.com. **Brooklyn Designs for the Future**

Natural Gas Stations for the public are in each

44 🛣 🔊 Brooklyn Brewery 79 N 11th St. BrooklynBrewery.com 100% wind-powered, community-minded beer! See GreenDrinks.org for monthly mixers around town. 5 💥 🔼 💁 GreenPoint Manufacturing &

⊕ GMDConline.com ☐ 718.383.3935

1155 Manhattan Ave. (65 kW) & 810 Humboldt (55kW)

events at @ green-links.org and @ GreenHomeNYC.org

TreeHugger.com has breakthrough projects and

tinyurl.com/7e54b has industrial resources. Parsons Nev

School of Design and Tishman Center for Environment &

Vital manufacturing site with 💥 by 🌐 altPOWER.com. 46 S Recycle A Bicycle 55 Washington @ recycleabicycle.org 718-858-2972 📤 bikes, new Swift folders, repairs and workshops. Design is getting greener. Look into @o2nyc.org's events & green design industry directory which includes cyberg.com, lceStone.biz and more. Find NYC

Design are on the cutting edge, see @ newschool.edu. See NYS Environmental Business Ass'n eba-nys.org 3 518⋅432⋅6400 and ∰ SustainableBusiness.com, too Soing shopping? Buy local! Ivingeconomies.org explains the benefits, @eco-logic.com has NYC shops. For natural products, see the Green Guide.com, and

find a coupon book at thegreenapple.org.

47 💥 🙍 🔊 🔼 Kiss & Cathcart, Architects

44 Court St. kisscathcart.com 718-237-2786 Specializing in "building-integrated PV", where solar panels ECOnomically replace roof and wall materials. Tour during @ GreenHomeNYC.org's annual October @ Tour. Check out DC's SolarDecathlon.org, too. 48 🚫 Community Capital Bank

Investing in Brooklyn! GreenMoneyJournal.com explores socially responsible and community investing. 49 💥 🕍 🔊 🕰 Habana Outpost 755 Fulton St. (habanaoutpost.com) 718-858-9500 Solar powered café and 📤 eco-fashion collective. See @gaelyn.com and @sustainablestyle.org. Model Summer Rayne Oakes of summerrayne.net says,

"Fashion now comes primarily from outso

111 Livingston St. & 140 58th St. 3718-802-1212

50 🕍 🔊 Park Slope Food Coop 782 Union St. foodcoop.com 718-622-0560 Huge selection of organic and local produce. S 3 R Living

276 5th Ave. (3rliving.com 718.832.0951

and energy efficiencies as we dress for success."

52 💥) 🖤 🔠 🖉 6-15 Garden 565 6th Ave. @ organicity.org

145 Brooklyn Ave. brooklynkids.org 718-735-4400 Becoming the US's first green children's museum by '07. 54 🌳 🔊 🖤 💢 East New York Farms! New Lots Ave. btw Barbey & Warwick 718.649.7979 A verdant cluster of farms and gardens growing food for

Lovely community garden, with solar by Tracy Fitz.

3 🔵 💥 🔠 Brooklyn Children's Museum

the community and developing economic opportunities through a neighborhood farmers' market (open Sat). 55 🙀) 🔊 Flatbush Food Coop 1318 Cortelyou **3** 718-284-9717

Share the benefits. More at CoopAmerica.org

56 🔵 👌 Brooklyn Public Library - Kensingtor

Ditmas Ave. btw East 4th & 5th St. 3718-435-9431

All libraries save resources while they cultivate brains, this one also saves energy. Cool roof, too! 57 🔘 🔠 New York Aquarium Surf Ave. at West 8 St. @ wcs.org 3 718-265-FISH

To be honest, fuel cells are not very interesting to

watch, but the sea life inside and Coney Island beach outside sure are! Recharge your spirit by the sea. 58 💥 🤇 Stillwell Avenue Station Stillwell and Surf Avenues mta.info Take the subway's D \cdot F \cdot N \cdot Q train to see thin film PVs

arching gracefully over the train sheds.

owering Up Staten Island

Though Staten Island has the fewest Powerful Green Map sites, it has an abundance of great CO2 reducing ♣ parks, beaches, greenbelts and bluebelts. 59 🙋 🄘 ៤ 🐞 Staten Island Ferry -St. George Terminal 1 Bay St. siferry.com

60 🍣 Ganas Community 135 Corson Ave. @ ganas.org 3718-720-5378 Perhaps NYC's only intentional community (commune), with 4 Everything Goes secondhand stores. 61 🐲 🄘 Oakwood Beach Wastewater

This anaerobic gas digester uses a fuel cell to create

power from waste. W NYC has 3 others using methane

Exceptionally cool floating public space, with green

roof, harbor view and more! Free ferry, 24/7.

gas to generate a total of 1600 kiloWatts. 62 Fresh Kills Landfill Gas Extraction & Processing Plant

This 2,200 acre site stopped taking trash in 2001, now it provides heating and cooking energy for Staten Island homes. It's huge — about 2.5 Central Parks! Open space, wildlife habitat and much more renewable energy generation are planned for its future.

Powerful Green Map is for informational purposes

only. While every effort has been made to be accurate,

kets bring the freshest seasonal tastes to your ta-

You are holding a map of New York City with a view unlike any you have seen before. Use this Powerful Green Map to spark a new relationship with

healthier, wealthier future together. Brought to you by the eco-cultural mapping organization, Green Map System. It's our fifth citywide Green Apple Map since 1992, and the first to focus on today's most critical issue, energy. GreenAppleMap.org has in-depth energy and

> ⊕ GreenMap.org. Has this map impacted you? Want more copies? Email us at apple@greenmap.org, or write: PO Box 249, New York, NY 10002 USA

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is your Guide to Renewables and Everyday Savings









net — South Bronx, north Brooklyn, Harlem and the

like The Bronx's FriendsofBrookPark.org on map.

ble. Buy local to keep our region green. Open days regional organic farmers through a

org. Fish facts: @ seafood.audubon.org helps you avoid eating endangered fish and @ GotMercury. org helps you avoid endangering yourself. With new healthy local and/or organic dining,

small oasis: water a windowbox or a street tree, see The Villager and books galore. See @ grist.org, too.

Powerful Green Map of NYC

the energy that powers your everyday life. Save Money! Save the Planet! Let's move toward a

green living resources, along with NYC's school and community Green Map projects. Connect with the ever-expanding worldwide Green Map movement at

212-674-1631

Charting the Energy in **New York's Environment** This Powerful Green Map