ERIC COREY FREED

Principal, organicarchitect

Eric Corey Freed, LEED AP, Hon. FIGP, is Principal of organicARCHITECT, an architecture and consulting firm in California, with nearly 20 years of experience in green building.

Eric co-developed the Sustainable Design programs at the Academy of Art University and University of California Berkeley Extension. He is on the boards of Architects, Designers & Planners for Social Responsibility (ADPSR), Green Home Guide and West Coast Green, as well as the advisory boards of nearly a dozen other organizations.

He was the founding Chair of Architecture for The San Francisco Design Museum and one of the founders of ecoTECTURE: The Online Journal of Ecological Design. He is a regular contributor for Sustainable Industries Journal, Luxe, Natural Home, Metropolitan Home and dozens of other publications. Eric lectures around the country at 40+ conferences a year, and his work has been featured in Dwell, Metropolis, Town & Country, Natural Home and Newsweek. He has been seen on television on Fox News, HGTV, The Sundance Channel and PBS.

Eric is the author of four books, including "Green Building & Remodeling for Dummies", a best seller with over 100,000 copies in print. His latest books, "Sustainable School Architecture" and "Green\$ense for your Home" were just released in 2010.

Eric is considered a leader in the field; named by San Francisco Magazine "Best Green Architect" in 2005 and "Best Visionary" in 2007; and "Green Visionary" by 7x7 Magazine in 2008.

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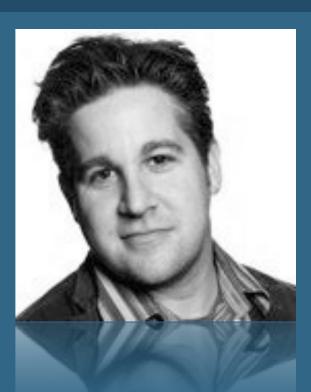
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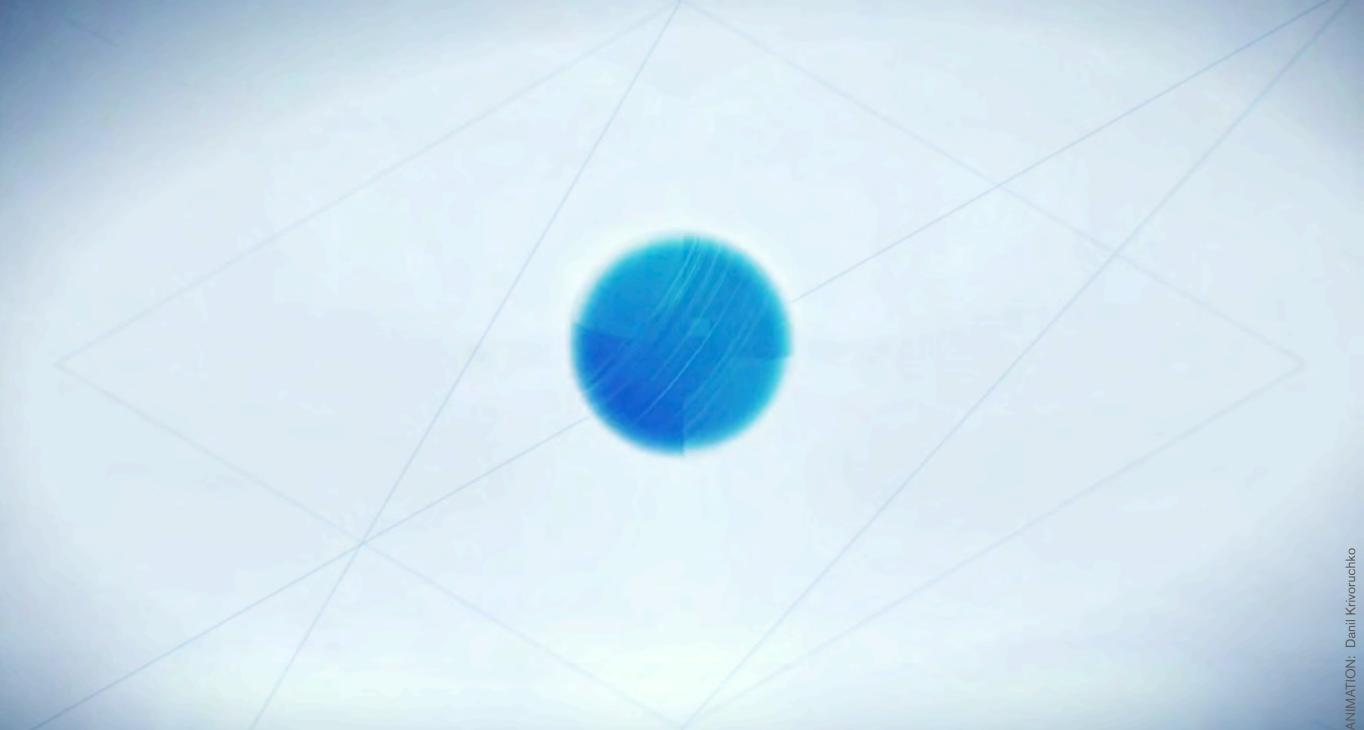
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organicarchitect



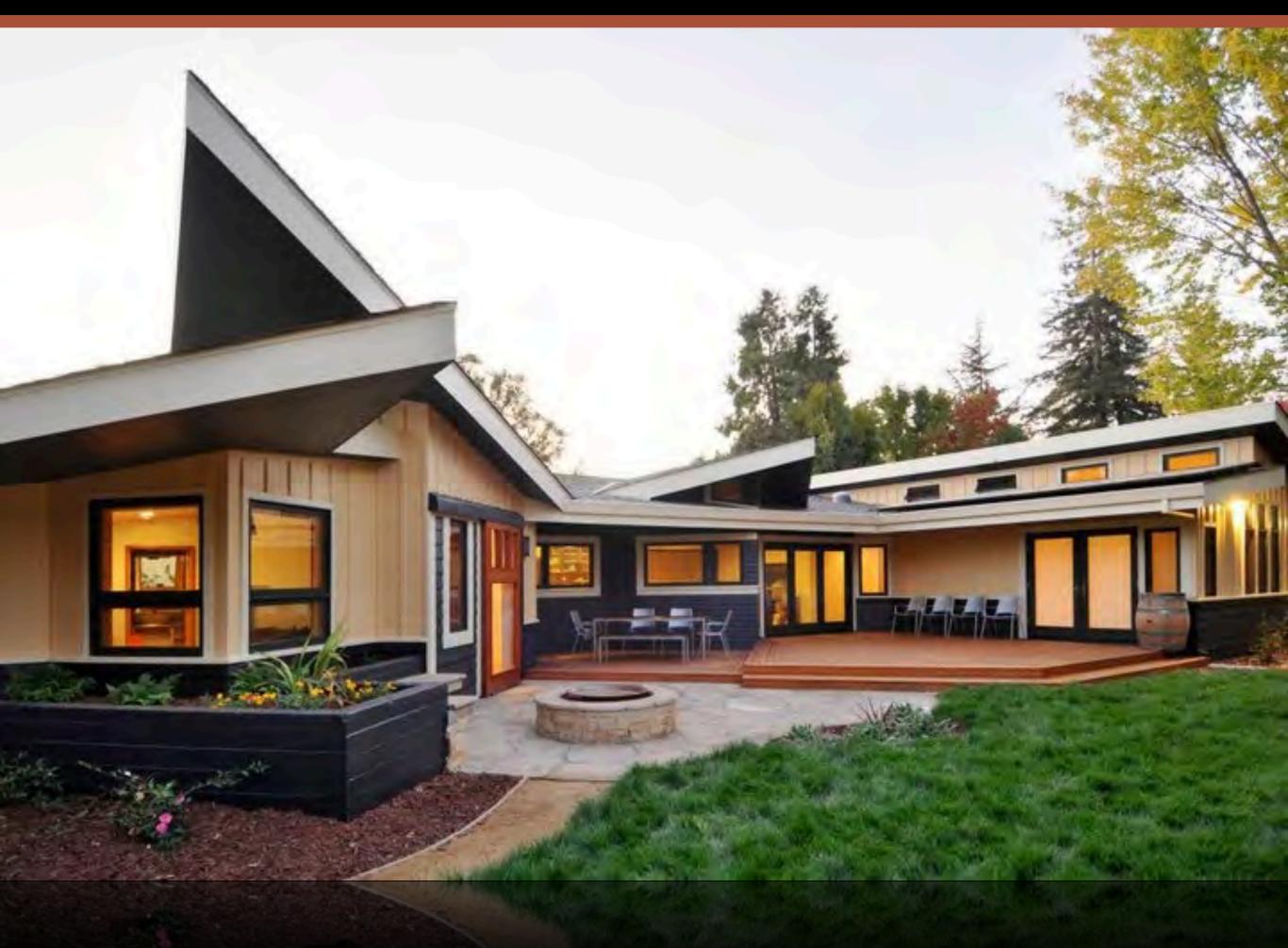


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FOUNDING PRINCIPAL Organicarchitect

Honorary Fellow, Institute of Green Professionals LEED Accredited Professional









francisco

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+ MORE!

GOES LIGHTLY: GOES LIGHTLY: MAKES HER FLM DEBUT IN ANDY GAROA'S THE LOST CITY



Best Green Architect



BOSTON ARCHITECTURAL COLLEGE



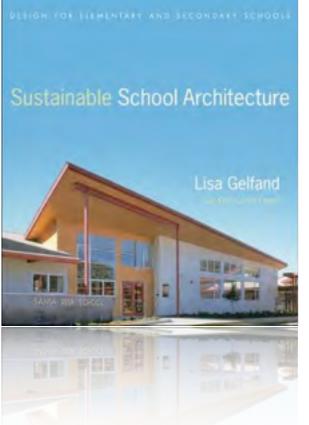


UCERSITY OF CALIFORNIA UCERSITY OF CALIFORNIA















WILLIAMS-SONOMA











arterra P X A R Autodesk





SIMPATICO



SEEING GREEN

LIGHT YEARS The Earth receives more energy from the sun in just one hour than the word uses in an entire year.

SEEING GREEN

THE ROOF HOLDS SECRETS AND UNTAPPED POTENTIAL WHEN IT COMES TO GREEN HOME DESIGN. TRADITIONALLY A PLACE FOR CHRISTMAS LIGHTS AND LOST FRISBEES, THE ROOF OF MOST HOMES COULD POSSIBLY PRODUCE ALL OF A HOME'S ENERGY NEEDS. THIS FEAT OF MADIC COMES FROM SOLAR PANELS, AN OLD TECHNOLOGY.

SOLAR PANELS JAKA. PHOTOVOLTAIC PANELS, OR PY PAN-ELSI ARE THE LATEST STATUS SYMBOL. ALONOSIDE HYBRID CARS, FOR THOSE WHO LIKE TO SHOW OFF THEIR GREEN APTITUDE. AND WITH OREEN CONSCIOUSNESS ON THE RISE, BARE ROOFS MIGHT GO THE WAY OF THE DINOSAUR. RECENTLY OVERHEARD AT A CONFERENCE. "EVERYONE WHO IS ANYONE PUTS SOLAR ON THEIR ROOFS."

SOLAR INSPIRATION

ANTINA IN ERIC COREY FREED



CURRENT THINKING

The principle behind a solar panel is simpler than you might super: French scientist Edminid Becquerel in 1839 first discovered the photovoltaic effect—which makes solar power possible. When surdight stelkes the panel's thin wales of silicon, the electrons get 'encired' and start moving, and this pirobaces electricial current

Companies are areking scape to produce more efficient solar parela, yet all parela essentially use the same type of solar cells used since Bell Laba produced the first athiev solar panels in 1954. Consider this: It is a 53-year-old product based on a 168-year-old scientific discovery. With that kind of binory, solar power is hardly a trend or a toky new abservative.

LUIE a

the same type of when refit used more field labs produced the first allows solar purch as Consulter that it is a 3-3-year old product based on a 100-year old scientific discovery. We find of history, polar prover a barefly a trend or a redsy area alternative.











MARKET ALERT 9572.16 140.12 FORM DUSENEES AKAMAI (AKAM) 18.78 0.90 11:464 ET S&P 1038.30 18.80 NASDAQ 2073.20 49.22	Eric Corey Freed Author/Architect	Eric Corey Freed URBAN RE:VISION EXECUTIVE DIRECTOR FOX FIFTY UPS (UPS) DUELNESS UPS (UPS) 57.19 0.03 DOW 10293.90 38.54 S&P 1088.75 6.15 NASDAD 2139.61 17.21













roadtrip_nation **Building Green**









San Francisco Chronicle

NORTHERN CALIFORNIA'S LARGEST NEWSPAPER

The New York Times









FINANCIAL TIMES

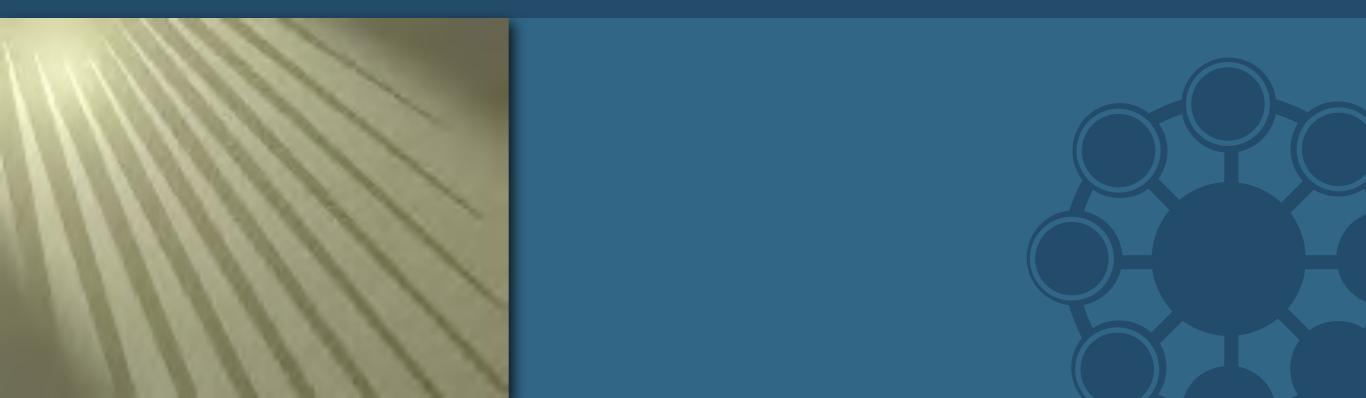


Forbes Entrepreneur FASTOMPANY he FOR YOU, YOUR FAMILY, YOUR FUTU



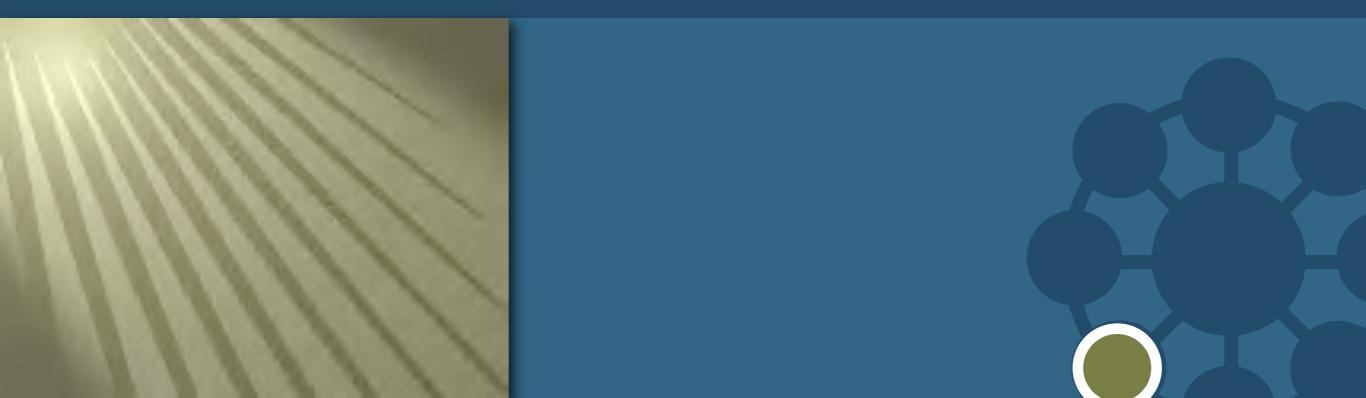


stages of grief



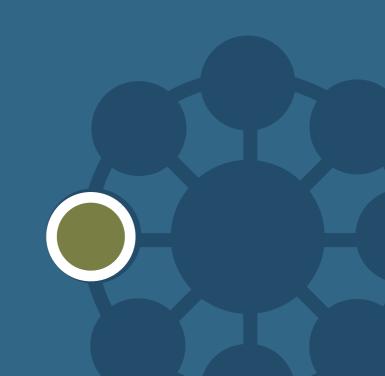
the

Denial. "This can't be happening..."



Anger. "It's not fair!"





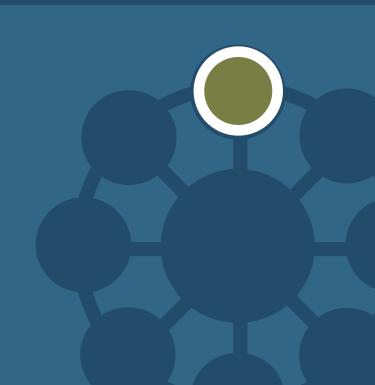
Bargaining. "Can't this wait a little more?"





Depression. "What's the point?!"





Acceptance. "Everything will be OK!"





greenwash |'grēn,wä sh; –,wô sh

disinformation disseminated by an organization so as to present an

environmentally responsible public image.





Every drop is green.

Every drop is green.

NI II

111



Our new Eco-Shape bottle is getting quite a reaction.



Nature appreciates the little things you do for it. Like recycling, carpooling and choosing the new Ozarka Eco-Shape bottle with less plastic - 30% less, in fact, than the average half-liter.* Less plastic means less impact on the earth. Because when we all do a little, it can add up to a lot.

When we go green, we go all the way.

YC.

all i

DON'T THROW ANYTHING AWAY THERE IS NO AWAY.

If ONLY WE HAD A MADE BIS THAT WE COULD THROW STUFF IN AND MARS IT INSAFFERE FOREVER, WHAT WE CAR BO IS FIRE CREATIVE WAYS TO ADDVICE, WE USE OUR WAITS CO., TO GROW FLOWERS, AND OUR WASTE SUCTION TO MAKE SUPER ETRONO CONCEPTS.

REAL ENDEDY SOLUTIONS FOR THE ESAL WORLD, WWW.SHELL,COM/REALENDEDY





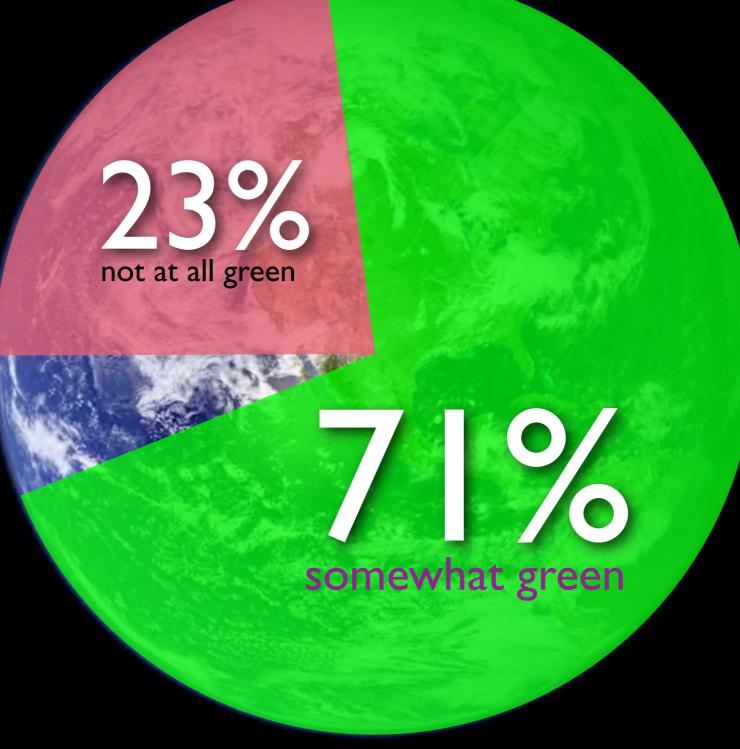


6 I.

LEED Certified Hippies Welcome.



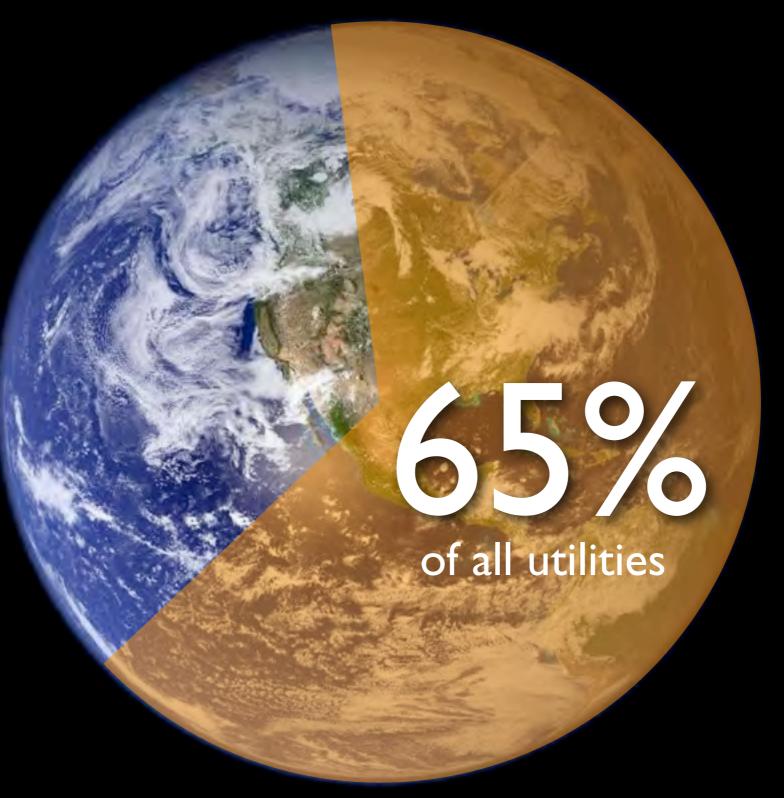




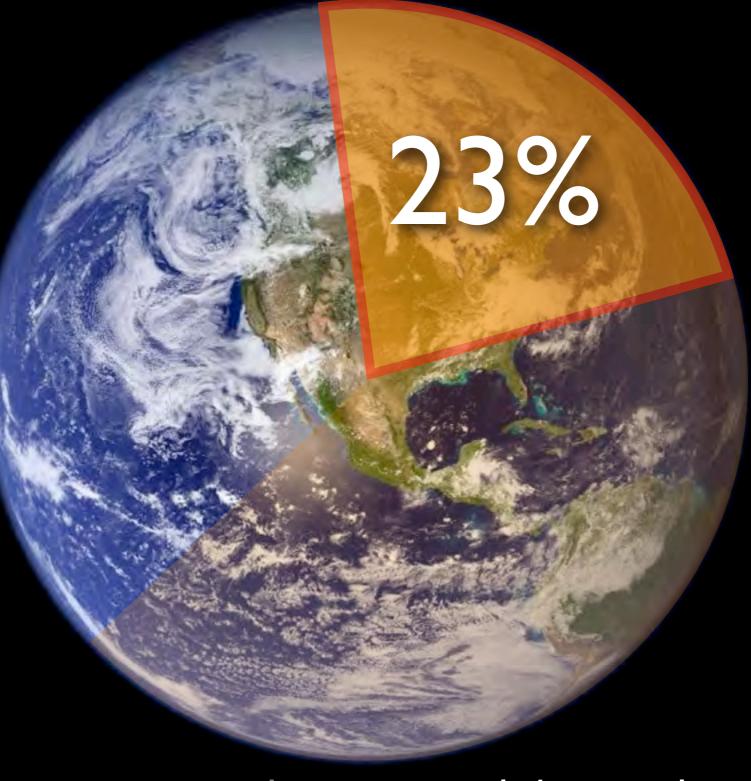
perception of the lodging industry

among business travelers

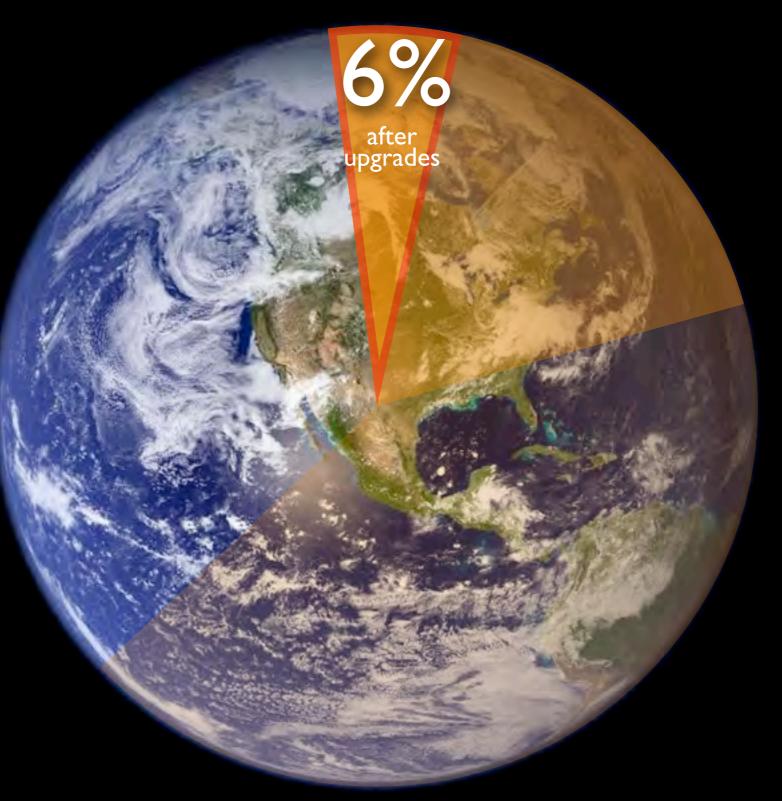
\$3,700,000,000,000 spent on energy



electricity use % of all utilities



electricity use lighting only % of all utilities

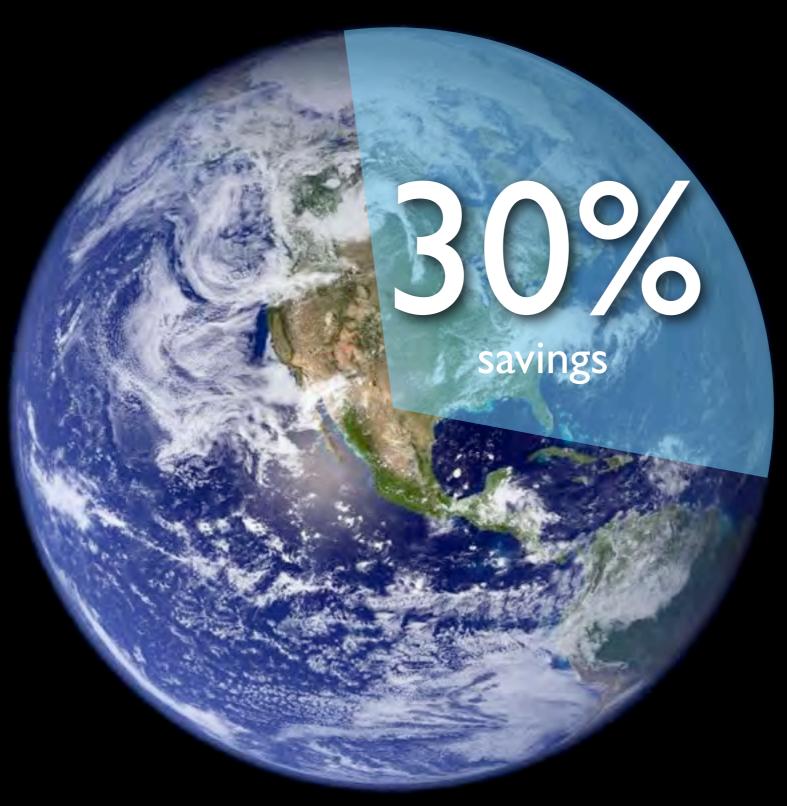


electricity use potential after upgrades % of all utilities

10% energy reduction is equivalent to increasing ADR by \$2.45

green hotels

increase



potential water savings using ultra low flow fixtures

Hoshi Ryokan Hotel



VOC PAINT Unhealthy paints used. Could be VOC free.

TRAPPED AIR Windows don't open to allow fresh air.

OVER LIT Lights are hard to control and easy to leave on.

FORMALDEHYDE Cabinets contain high levels of formaldehyde.

PESTICIDES Linens contain chemicals and harsh detergents.

VAMPIRES Power is consumed whether needed or not.

ALLERGENS Carpets trap dust and need constant vacuuming.

TOXINS Cleaners contain harsh chemicals.

MISSED OPPORTUNITIES



FAKE Anachronistic styles don't relate to local community.

WASTED

Fake attics & elements could be leased instead.

SETBACK Loss of street wall destroys community.

CAR CENTRIC

Puts car before people, misses chance to create real places.

SINGLE USE

No diversity of function misses chance to create community.

STRUCTURE

Over engineered and overbuilt, wastes materials.

STOREFRONT

Front facing stores creates unsightly rear elevations.

CLIMATE Standardized designs are inappropriate for most climates.

MISSED OPPORTUNITIES: OUTSIDE

LIGHTING Over lit, poorly planned & inflexible wastes energy.

NO AIR

Windows don't open to allow fresh air.

LAYOUTS Shelves placed for products, not for people.

UNHEALTHY

Toxic paints, floors and sealants used.

TOO WHITE Lack of color won't stimulate shoppers.

SIGHT LINES

Over emphasis on products loses chance to create a place.

PRODUCTS

Unhealthy products miss chance to connect to customer.

FORMALDEHYDE

Cabinetry use toxic glue in most common materials.

MISSED OPPORTUNITIES: INSIDE

soft drinks

NEC 2017 DOWN

25.1 1275-2270,227

Fresh Ford People

FINISHES Recycled, non-toxic, locally sourced, sustainable.

TASK LIGHTS Only light the work areas to

save energy.

CASH WRAP Recycled paper, soy based inks & optional to use.

CABINETRY Use formaldehyde free cabinets & FSC or bamboo doors.

DAYLIGHT Increase sales with

natural light.

FLOORING Hard flooring doesn't trap allergens.

FIXTURES Reusable, renewable,

Reusable, renewable, durable & recyclable.

PRODUCTS Healthy, local & renewable.

GREEN RETAIL STORE

ERG.

AND AND



the state of "green" hotels



seek out green hotels among business travelers

Dear Guest:

Every day tons of detergent and millions of gallons of water are used to wash towels that have been used only once.

PLEASE DECIDE FOR YOURSELF.



P O. Box 420212. Houston: TX: 77242-0212 www.greenhotala.com.e-mail.green@greenhotals.com 713/789-8889. Fax 713/789-9766

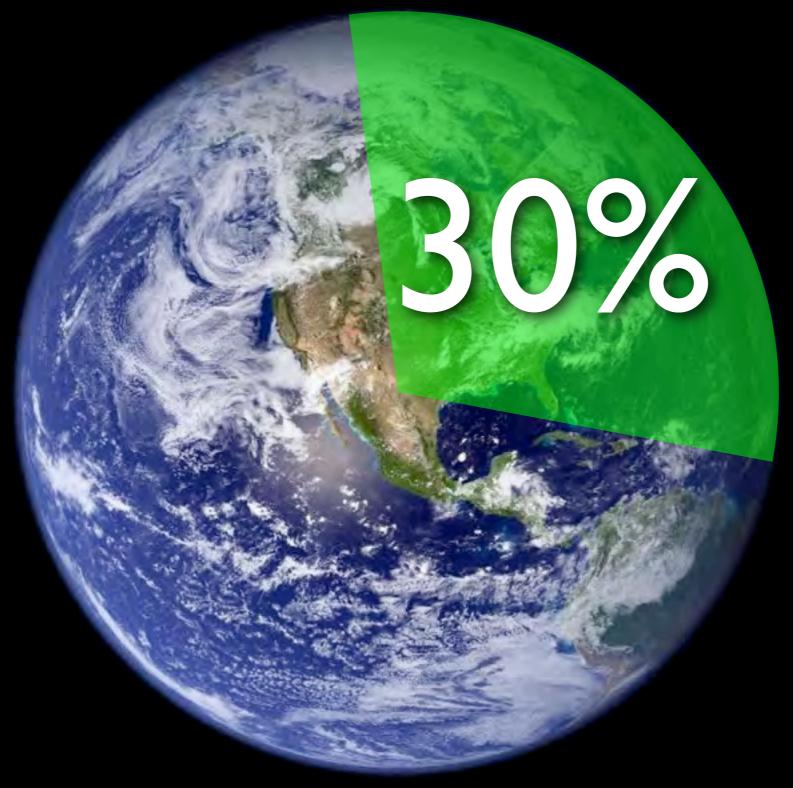
SAVE MOTHER EARTH!

Bed sheets washed daily in thousands of hotels in this world use millions of gallons of water and tons of detergent.

Sheets are customarily changed daily. If you feel that this is unnecessary, please leave this card on your pillow in the morning. Your bed will be made, but your sheets will not be changed that day.

PLEASE DECIDE FOR YOURSELF.





requested linen reuse, but hotel changed anyway

among business travelers



not allowed to be as green as desired among business travelers





it's getting crowded in here...









KIMPTNN

HOTELS · RESORTS · SUITES



INSPIRED BY WESTIN



HOTELS & RESORTS WORLDWIDE, INC.

InterContinental Hotels Group

eaders

low hanging fruit



LINEN REUSE Proper signage and education.

LOW FLOW SHOWERS Uses 2.5 gallons per minute (instead of 5).

LOW FLUSH TOILETS Uses 1.6 gallons per flush (instead of 5).

CFL BULBS Lasts 10 times as long; uses tenth of energy.

DIGITAL THERMOSTATS Programmable and accurate.

RECYCLING Lowers your waste bill.

ENERGY STAR EQUIPMT Pays for itself in less than a year.

NON-TOXIC CLEANERS Fewer claims from staff.



Avalon Hotel Portland, Oregon Silver - 2008

Gaia Napa Valley Napa, California Gold - 2007

Hotel Terra Teton Village, Wyoming Silver - 2008

vancouver Hotel Vancouver, Washington Certified - 2006

University of Maryland Inn Adelphi, Maryland Certified - 2005

Hyatt Olive 8 Seattle, Washington Certified - 2009

Len Foote Hike Inn Dawsonville, Georgia Gold - 2004

CityFlats Holland, Michigan Gold - 2009

Orchard Garden San Francisco, California Certified - 2007

Palazzo Las Vegas, Nevada Silver - 2008

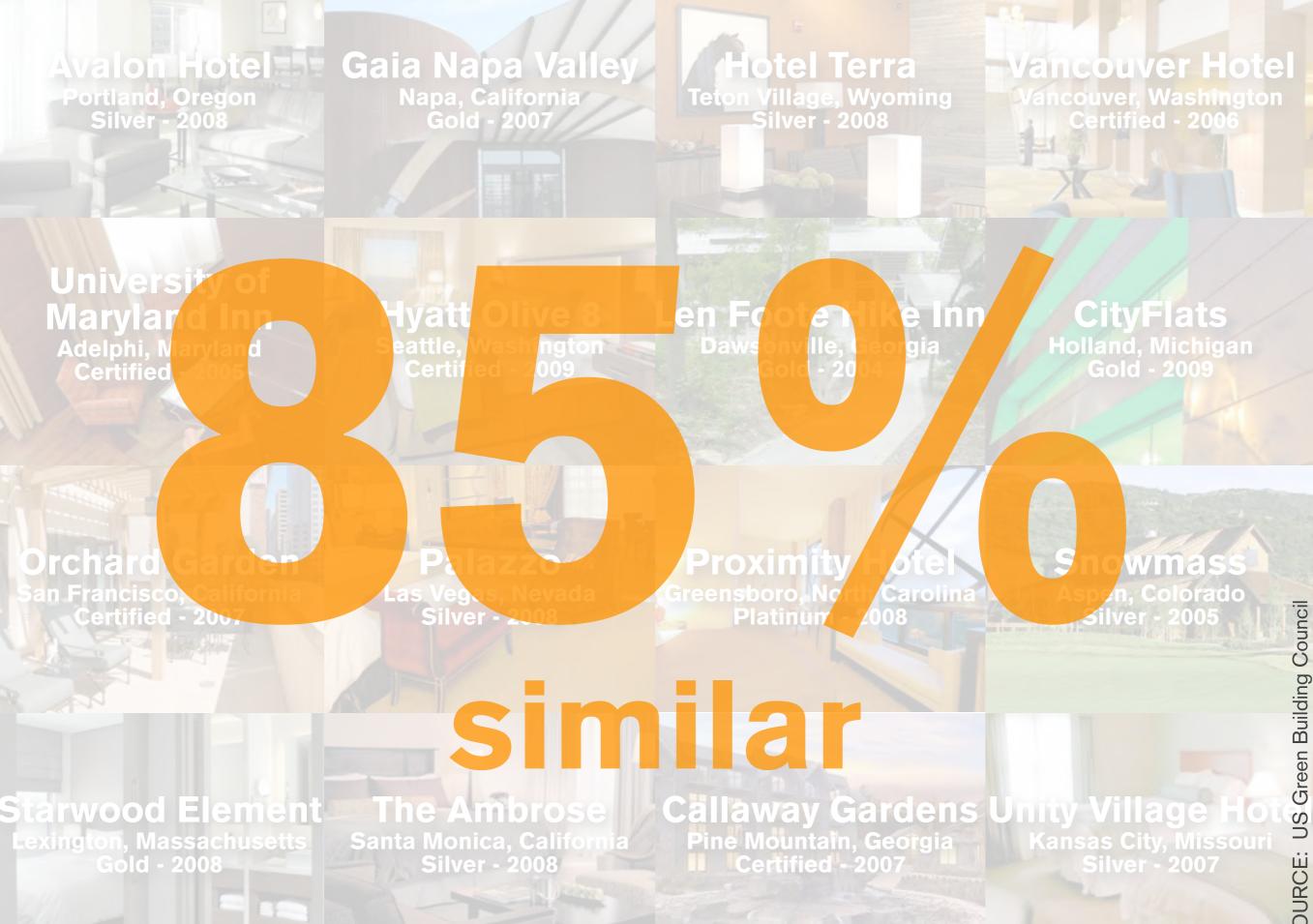
Proximity Hoten Greensboro, North Carolina Aspen, Colorado Platinum - 2008

Snowmass Silver - 2005

Starwood Element Lexington, Massachusetts Gold - 2008

The Ambrose Santa Monica, California Silver - 2008

Callaway Gardens Unity Village Hotel Pine Mountain, Georgia Kansas City, Missouri Certified - 2007 Silver - 2007



SOURCE:

Sustainable Sites

- Credit 5.2 Maximize Open Space
- Credit 4.3 Alternative Transportation, Low-Emitting and Fuel-Efficient Vehicles
- Credit 6.2 Stormwater, Quality

- Water Efficiency
 Credit 1.2 Water Efficient Landscaping No Potable Use or No Irrigation
- Credit 2 Innovative Wastewater Technologies

Energy & AtmosphereCredit 2 On-Site Renewable Energy (3 points)

- Credit 5 Measurement & Verification
- Credit 6 Green Power

Materials & Resources

- Credit 2.2 Construction Waste Mgmt, Divert 75%
- Credit 5.2 Regional Materials, 20%
- Credit 7 Certified Wood

Indoor Environmental Quality

Credit 7.1 Thermal Design

missec

portunities

Credit 7.2 Thermal Verification

"We'll leave the light on for you."



70.9m 23.1% TOBACCO

19.0m 6.2[%]

73.7m 24[%]

ALCOHOL

5.8m 1.9% FOOD

3.1 m

1.0%

GAMBLING

7.6m 2.5%

1.9m 0.7[%]

COCAINE

PRESCRIPTIONS

HALLUCINOGENS MARIJUANA

0.4%

BULIMIA

18.7m

6.1%

fossil fuels oil coal natural gas

affecting 307,000,000 1000%



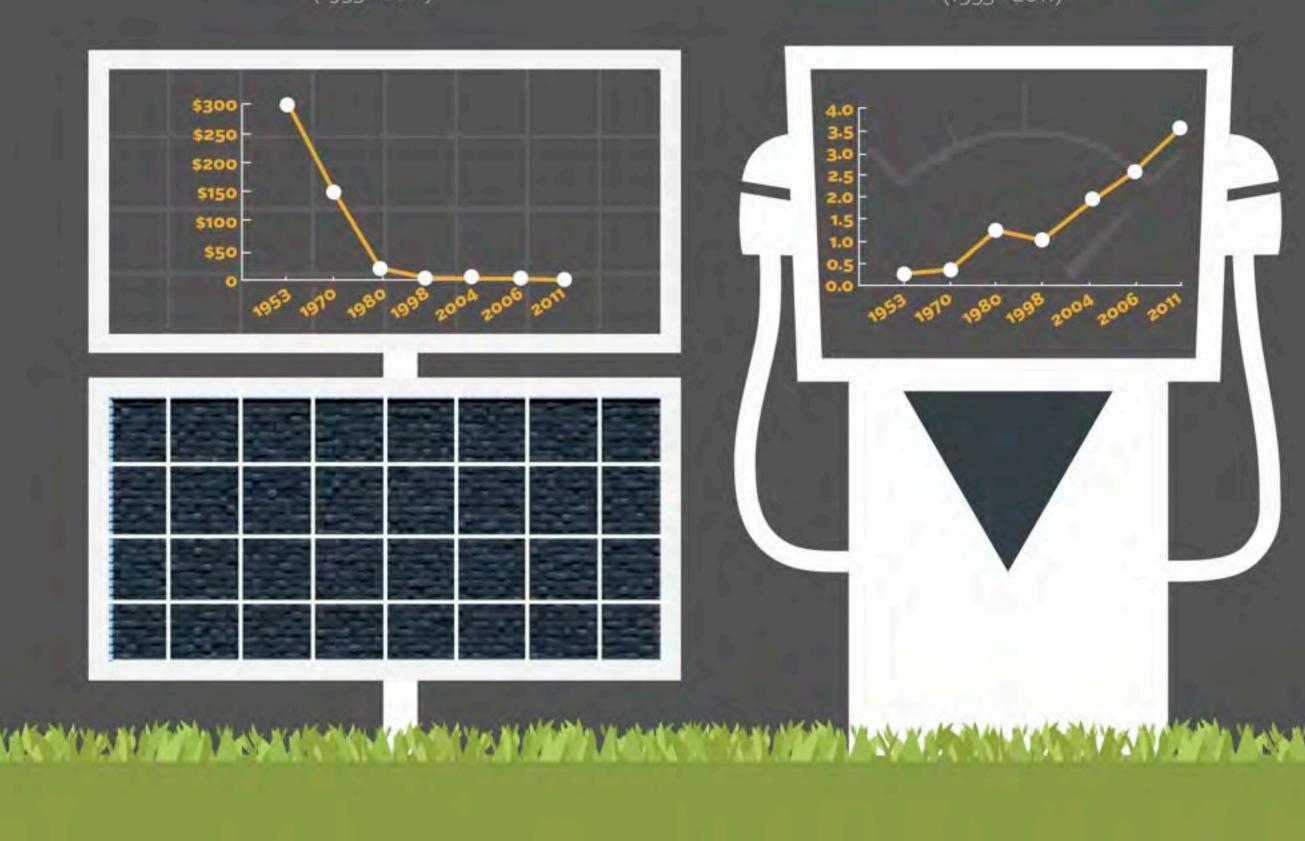


Purchase \$

What Would You Do With \$36 Million? Buy Your Powerball Tickets Here Today!

SOLAR PANELS Cost Per Watt (1953 - 2011)

GASOLINE Cost Per Gallon of Gas (1953 - 2011)









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THE LAST DROPS OF OIL

PLUS How to Buy a Space Shuttle 201

Superfast Flying Submarine

Ferrari Goes Off-Road ... Hottest. Pepper. Ever. ...

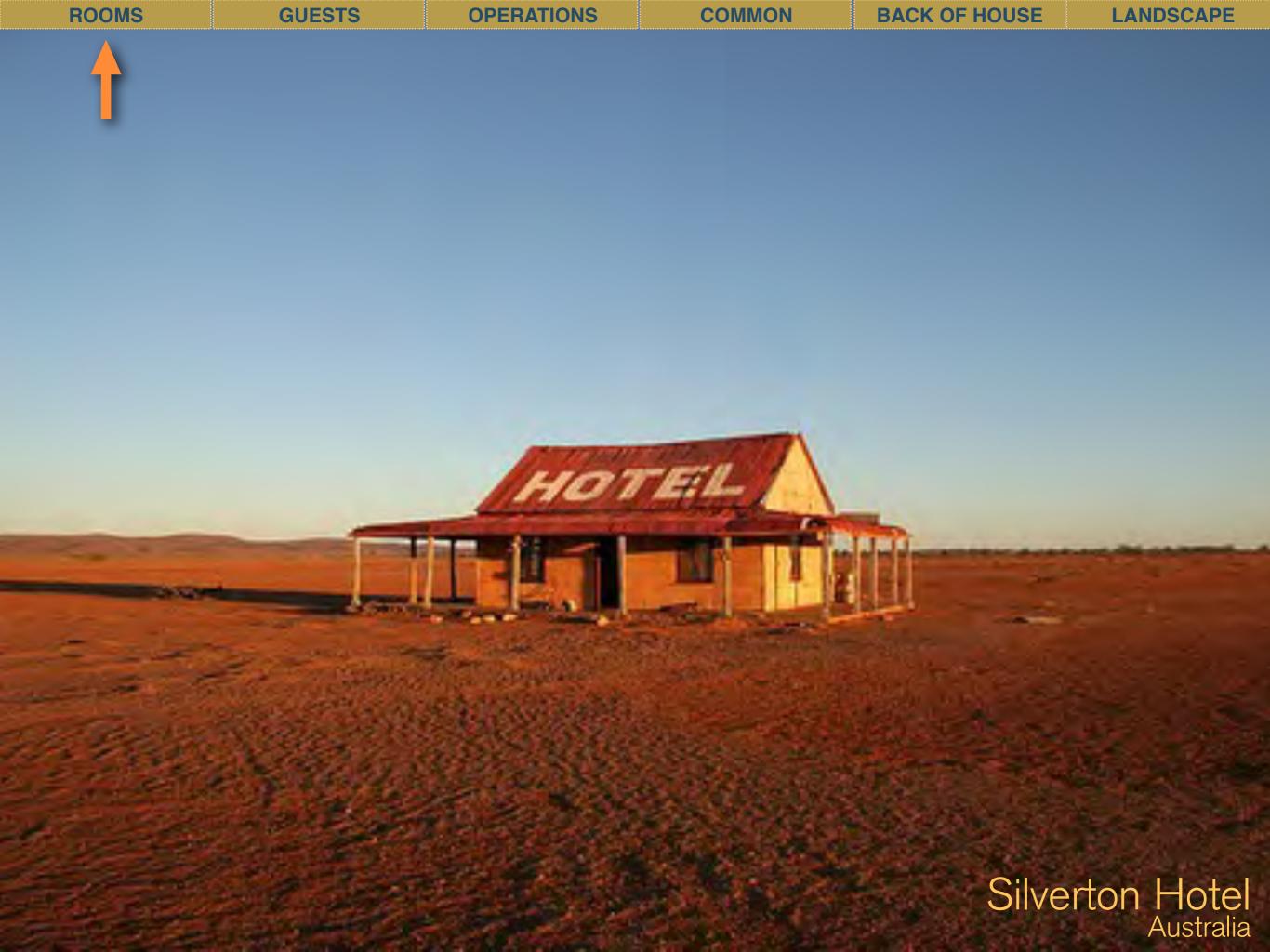
errari Goes Off-Road 🗤 Hottest. Pepper. Ever. 🛲 🎙

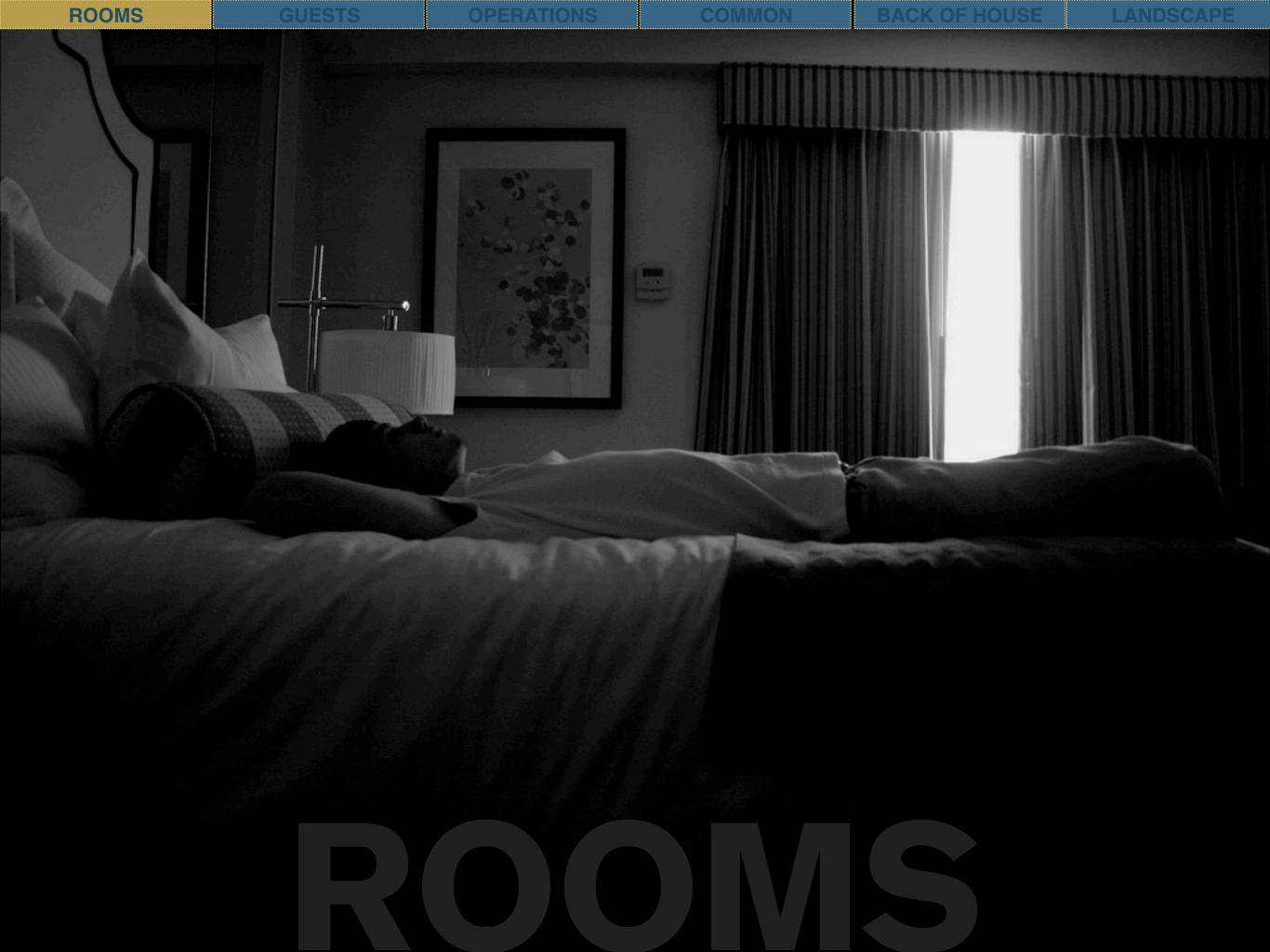


Anosognosia

/ano·sog·no·sia/ (an-o"so-no'zhah)

a condition in which a person who suffers disability seems unaware of the existence of his or her disability.







FINISHES Recycled, non-toxic, locally sourced, sustainable.

TASK LIGHTS Only light the work areas

to save energy.

KILL SWITCH Turn off all electronics when not in use.

CABINETRY Use formaldehyde free cabinets & FSC or

bamboo doors.

MINI BAR Organic, natural, healthy foods.

FLOORING Hard flooring doesn't trap allergens.

LINENS Organic, chemical free & non-synthetic.

CLEANERS Von toxic cleaners

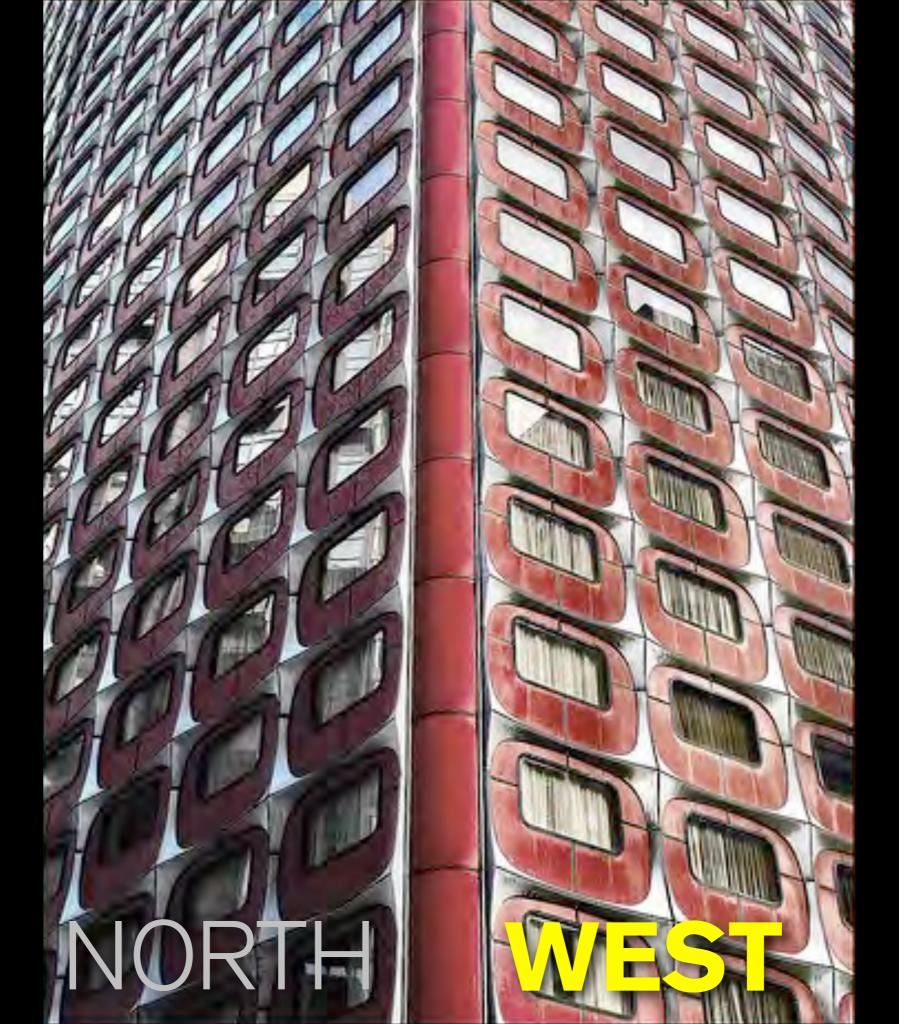
GREEN HOTEL ROOM

citystayhotels.com



columbiaforestproducts.com/PureBond

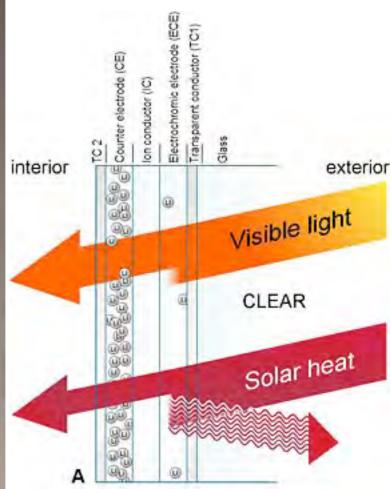




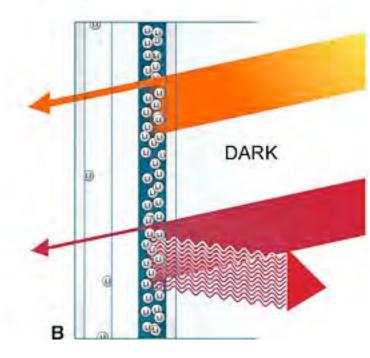








(layer thicknesses not shown to scale)



sage-ec.com







echoflexsolutions.com

each room uses

a year

cards

sicand

INSERT CARD

SOURCE: Kaba; HD Magazine

key card materials add up to:



kaba-ilco.com







www.sustainablecards.com







SHOWER SAVINGS

0

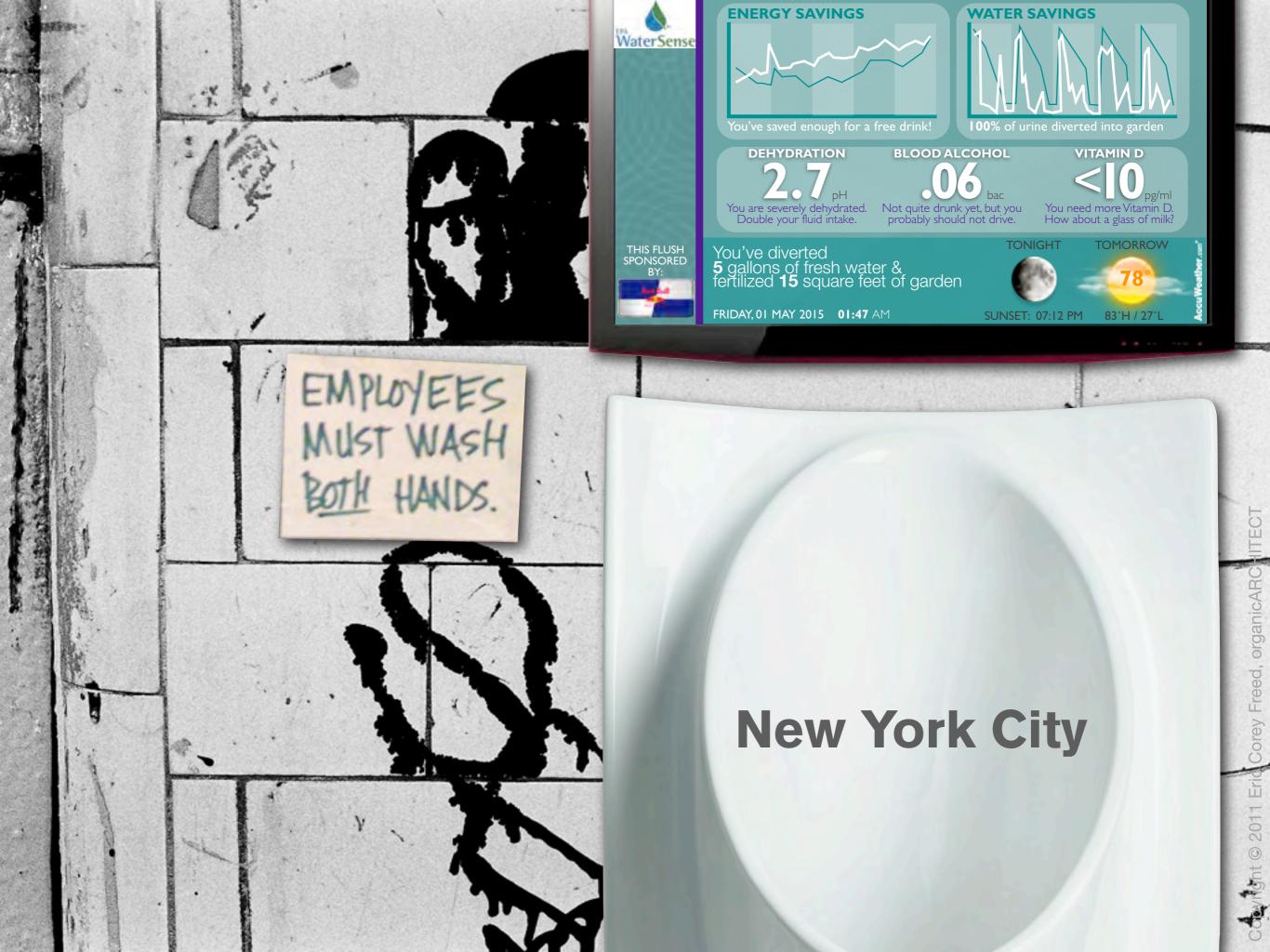
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evolve.

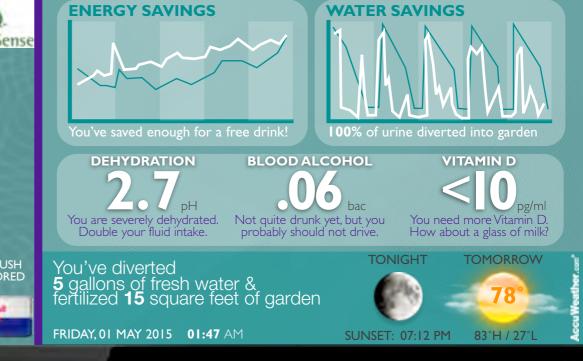
To PULL and the water

evolveshowerheads.com







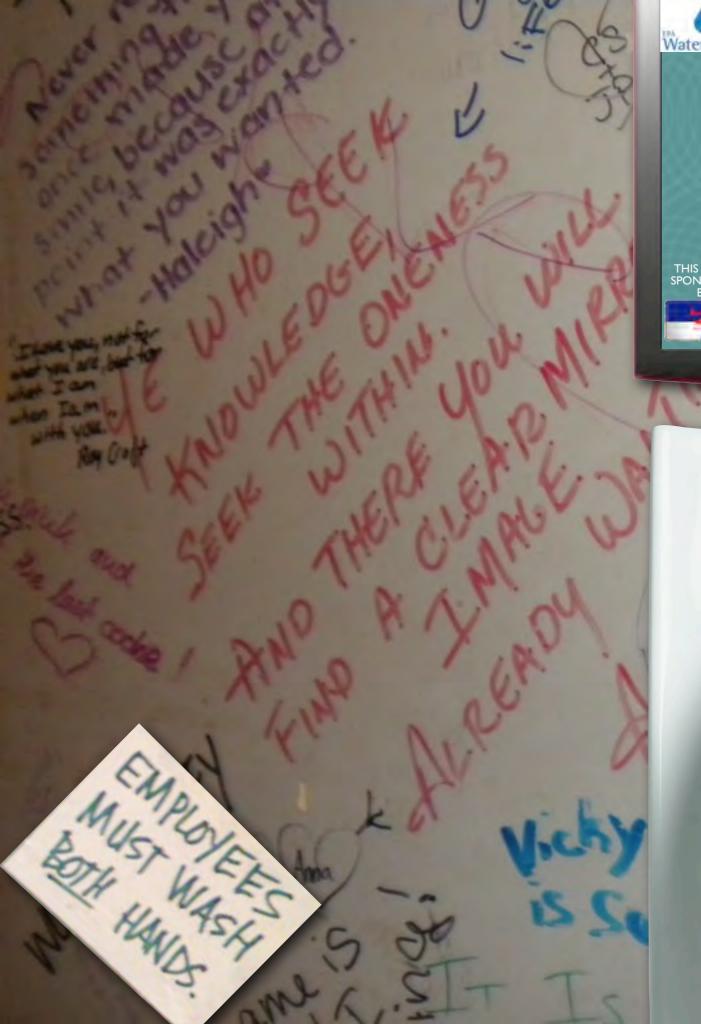


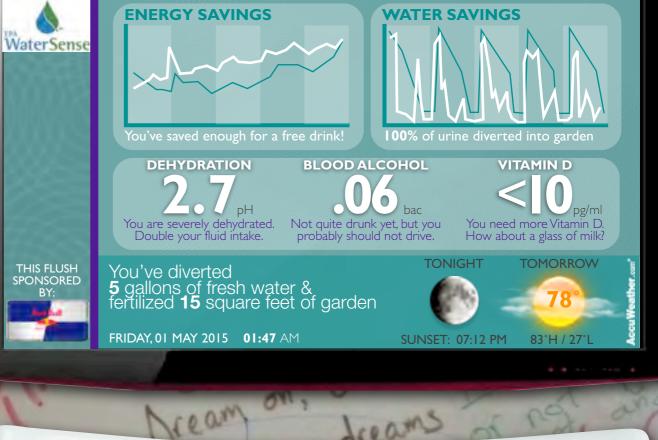
Los Angeles





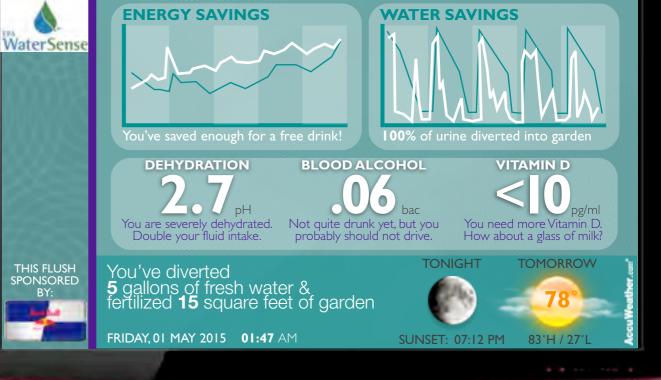






Portland





Middle East



ambientdevices.com





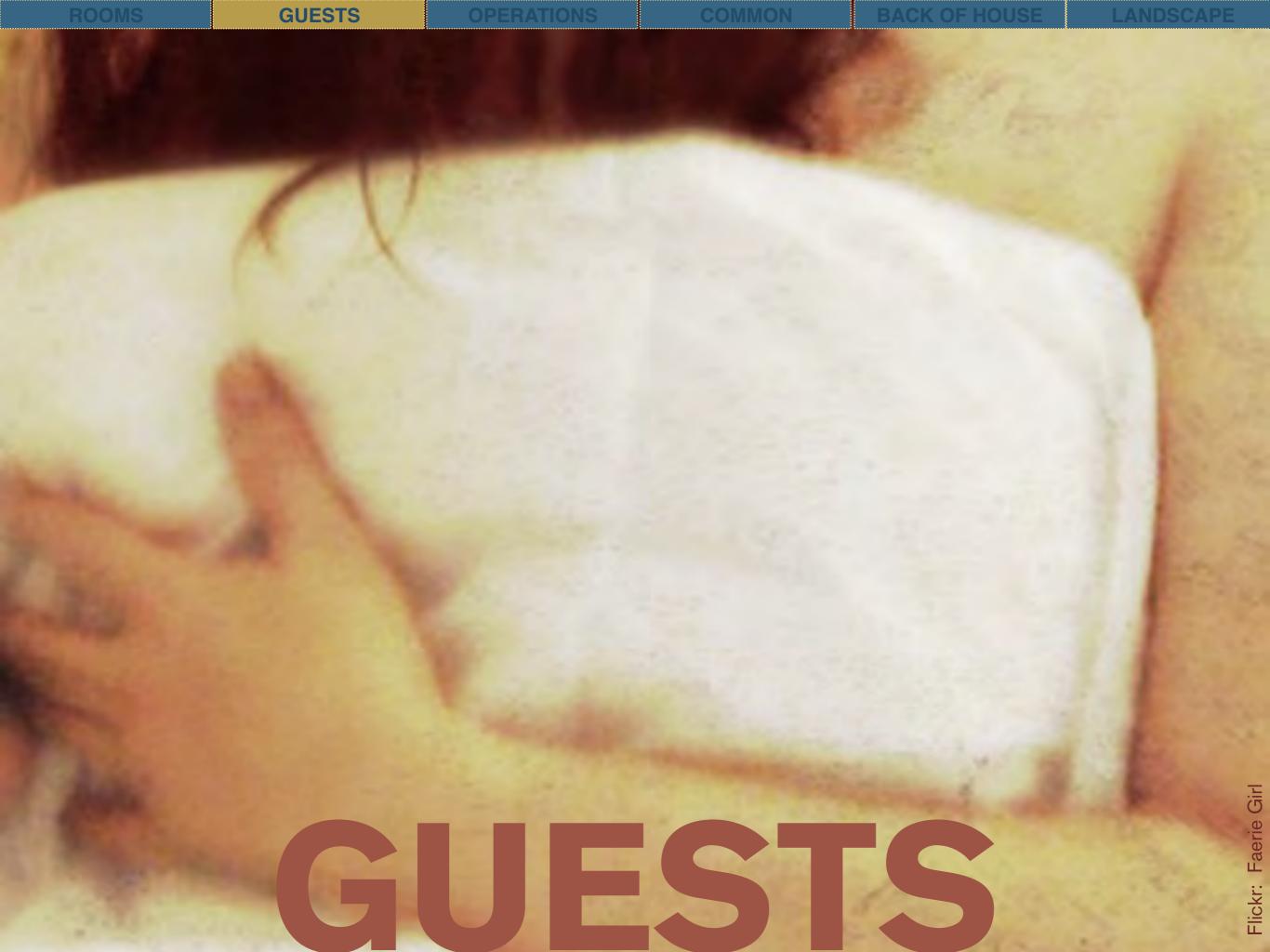






in-room recycling

lifestylebazaar.com





NOT ALL GUESTS ARE EQUAL

٠

80



energy & water use

MORE IN HOTELS

NOT

ENTER

DO









pineapplehospitality.net



powerbrandscorp.com

ATHER[®] LATHER LATHER" LATHER* bamboo bamboo bamboo pamboo

lemongrass hair wash

The fresh, natural essenced lemongrass blended with the strengthening power of barrier Make this mild hair washpen for daily use. modern opothecon

lemongrass

VID 20 mode

bamboo lemongrass body wash

modern apothecell

lemongrass moisturizer A hydrating body lotion hill rejuvenates skin with banks

extract and leaves a hird of fresh, natural lemongrass modern apothecoll

modern apothecaty

exfoliating body soa

gentle face soap

A mild, matural, fragrance from face scap that is gendle enough for even the most sensitive skin.

moders apolhecary

lather.com





MOVIES	ENERGY USAGE	1690 WATTS	WATER USAGE SINKS	15 GALLONS
CD JUKEBOX	MEDIA	0700 WATTS	SHOWER	20 GALLONS
	HEAT / COOL	0210 WATTS	- GREYWATER TOILET	07 GALLONS
VIDEO PHONE	TOTAL	2600 WATTS	TOTAL	28 GALLONS
	AVERAGE GUEST	3000 WATTS	AVERAGE GUEST	200 GALLONS
ROOM SERVICE				
ECO PERFORMANCE	Congratulations! Your air conditioner we ECO TIP: The showed	vill rise 5° at 07:00 F		у.
HOTEL DASHBOARD	HOTEL DASHBOARD ENERGY PRODUCTION GUE		GUEST PREFERENCES	
	FITNESS CENTER	2360 WATTS	NEWSPAPER DELIVERY	IS OFF CHANGE
ROOM CONTROLS	STAIR SKIPPING	1230 WATTS	HEATER ENERGY SAVE	R ON CHANGE
GUEST SERVICES	TOTAL	3590 WATTS	SHOWER TIMER IS ON	CHANGE
	AVERAGE GUEST	1800 WATTS	LINENS CHANGED 2X	AWEEK CHANGE
MESSAGES 2				
			Acc	uWeather.com*
You've earned	Mr. Brad Pitt 1,200 Reward Center Poir w messages. A wake up cal	nts for your eco perf I for 06:00 AM is se	TONIGHT formance.	TODAY
FRIDAY, 01 MAY 20	15 08:56 AM		SUNSET: 07:12 P	M 83°H / 27°L

11

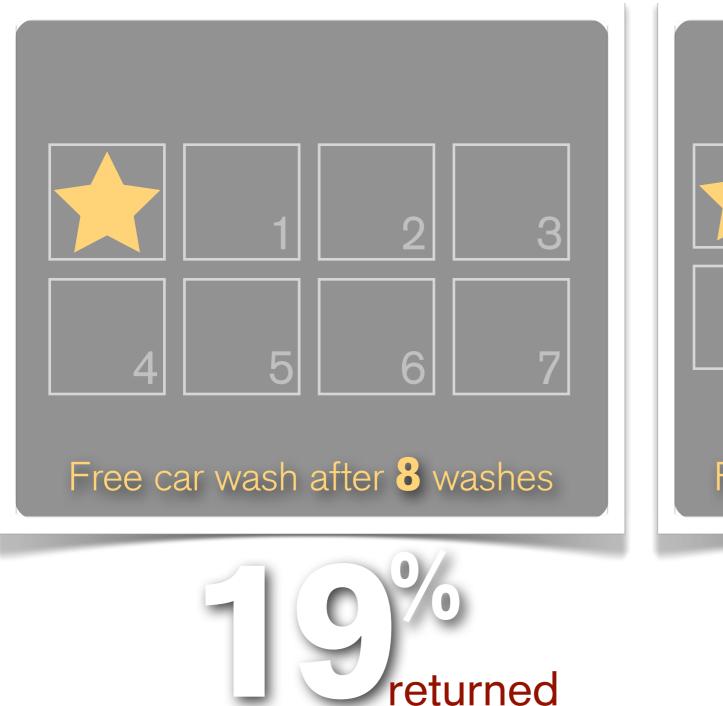


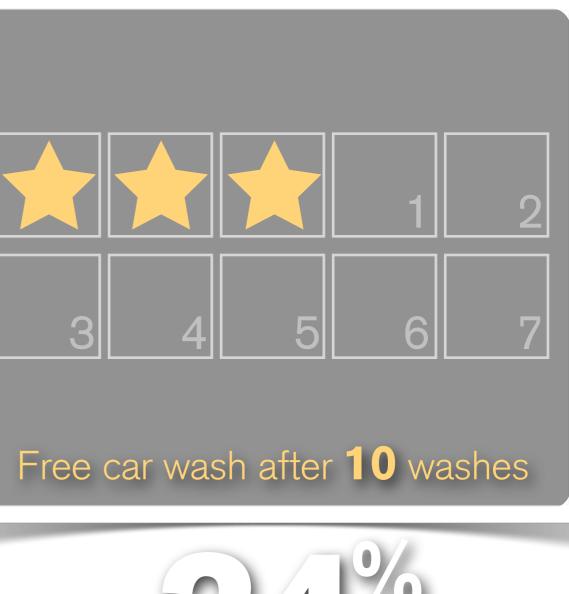


REWARD GOOD GUESTS



GIVE INCENTIVES A HEAD START





returned





weeks

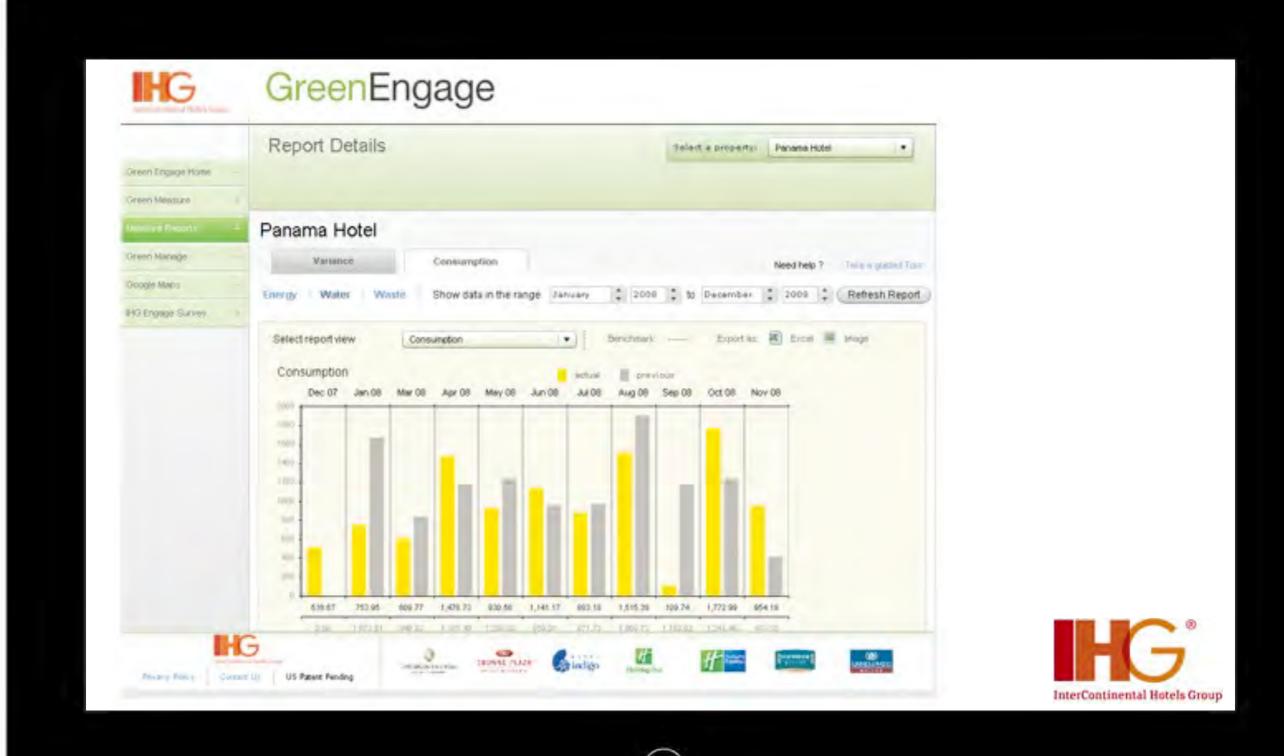
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week

alexmaclean.com



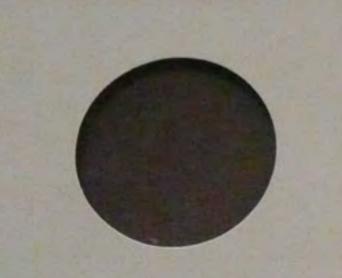








NEWSPAPER

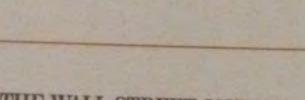


The New York Times

AVAILABLE 7 DAYS A WEEK

PLEASE PLACE THIS SIDE OUT ON YOUR DOORKNOB BY 1.00 AM TO RECEIVE YOUR COMPLIMENTARY COPY OF THE NEW YORK TIMES NO LATER THAN 7:00 AM.





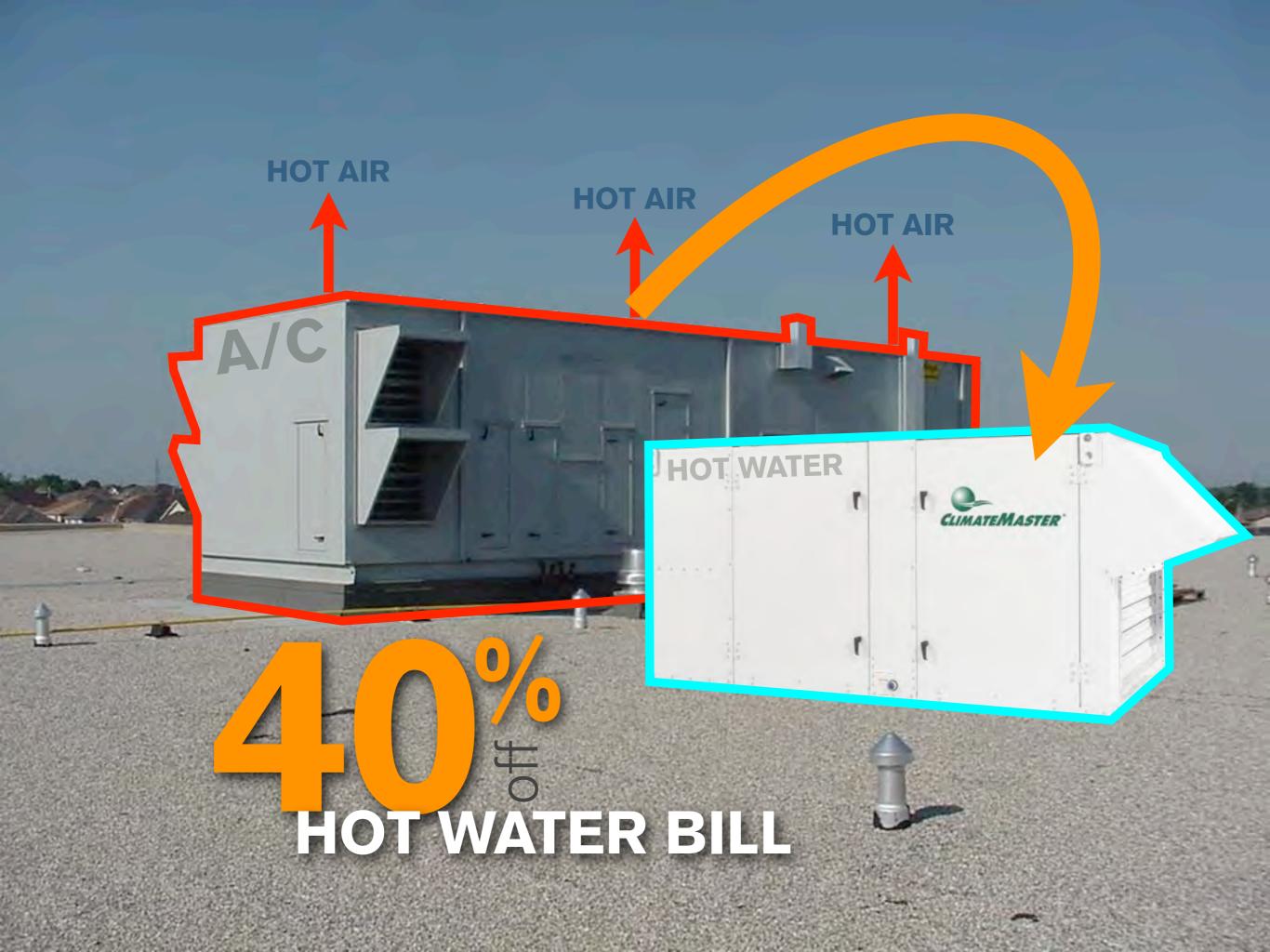
THE WALL STREET JOURNAL

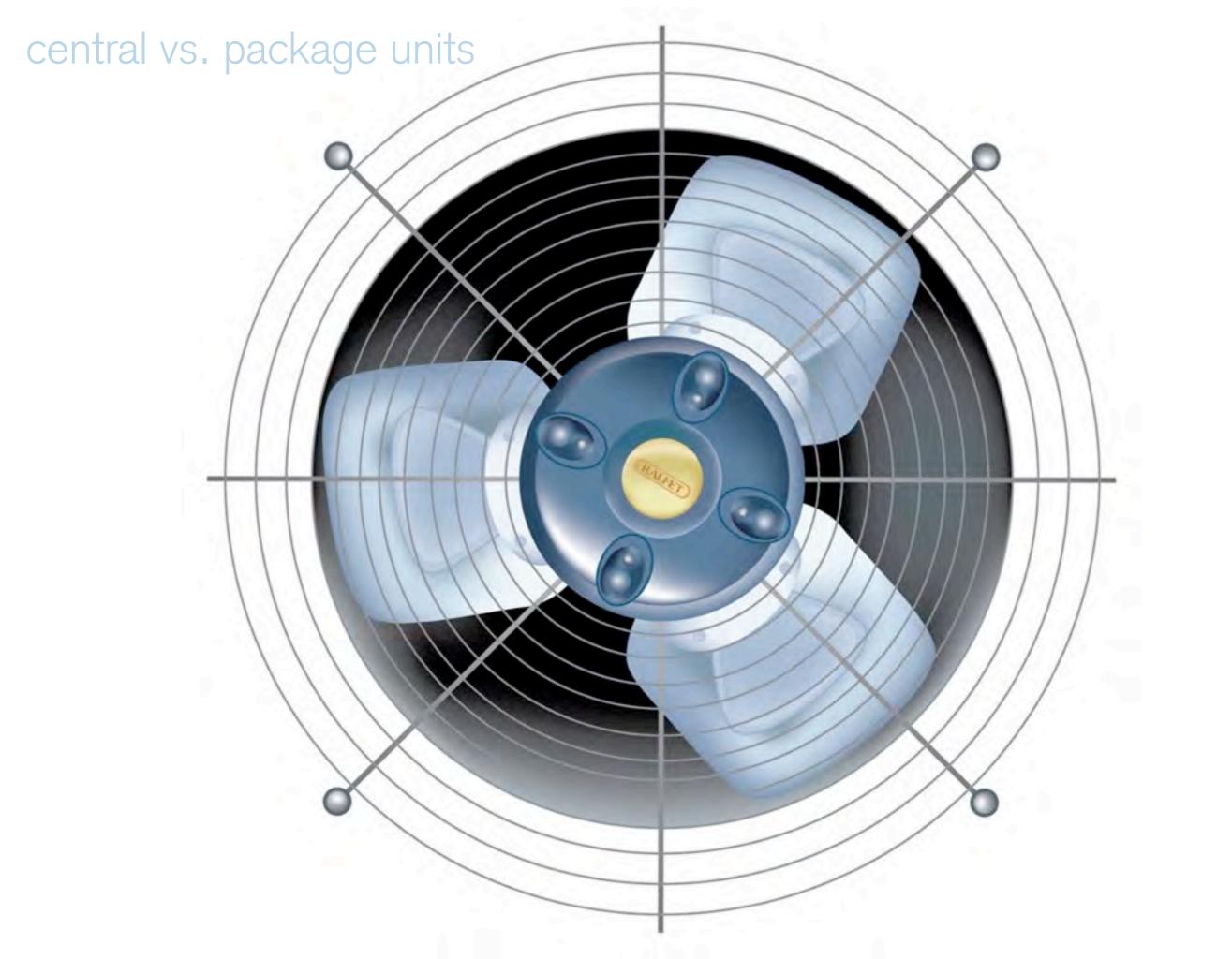
AVAILABLE MONDAY - FRIDAY

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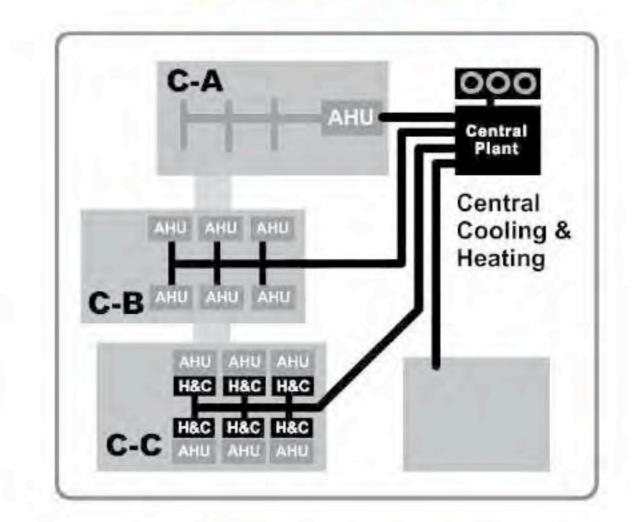






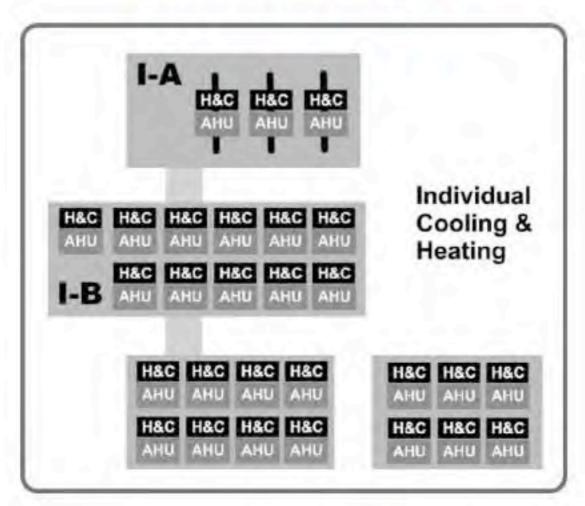


no heat = no guest Central Plant



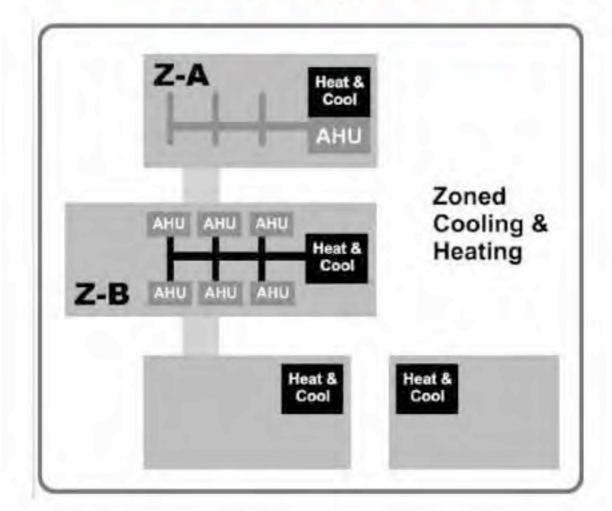
- Chiller system
- Hot water/steam
- Water-source HP

redundant, but reliable Individual Units



- Wall units
- Roof top units
- Split systems

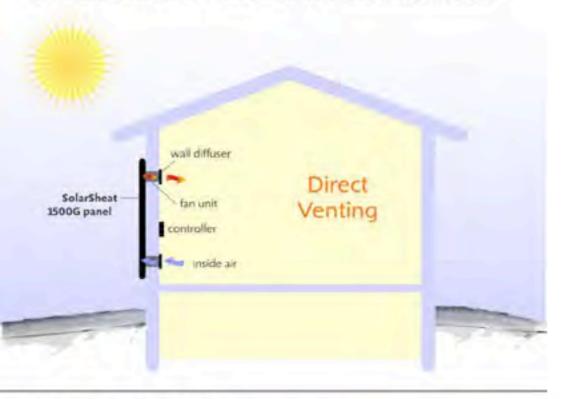
Zoned Systems



- Small chiller systems
- DX systems
- Split systems

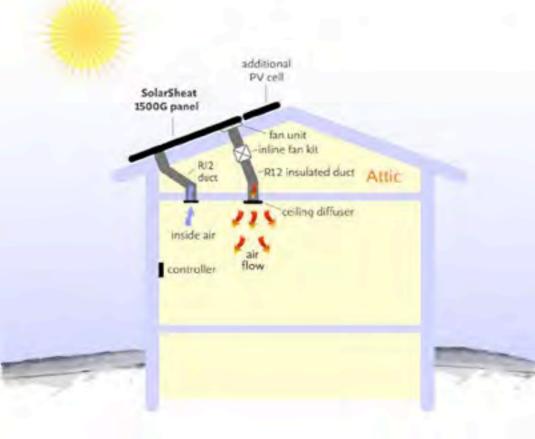
Direct Venting into a Room - SolarSheat 1500G

How it works: The SolarSheat 1500G panel heats inside air. The amount of heat produced is based on the volume of air passing through the solar panels and the degree of sunshine. The SolarSheat is a supplemental heating system. It does not work at night. No AC electricity is required.



Roof Mounting - SolarSheat 1500G

How it works: The SolarSheat 1500G panel heats inside air. The amount of heat produced is based on the volume of air passing through the solar panels and the degree of sunshine. The inline fan kit can be powered by an AC/DC wall adaptor or with an additional PV cell, to keep it off the grid.





solarsheat.com

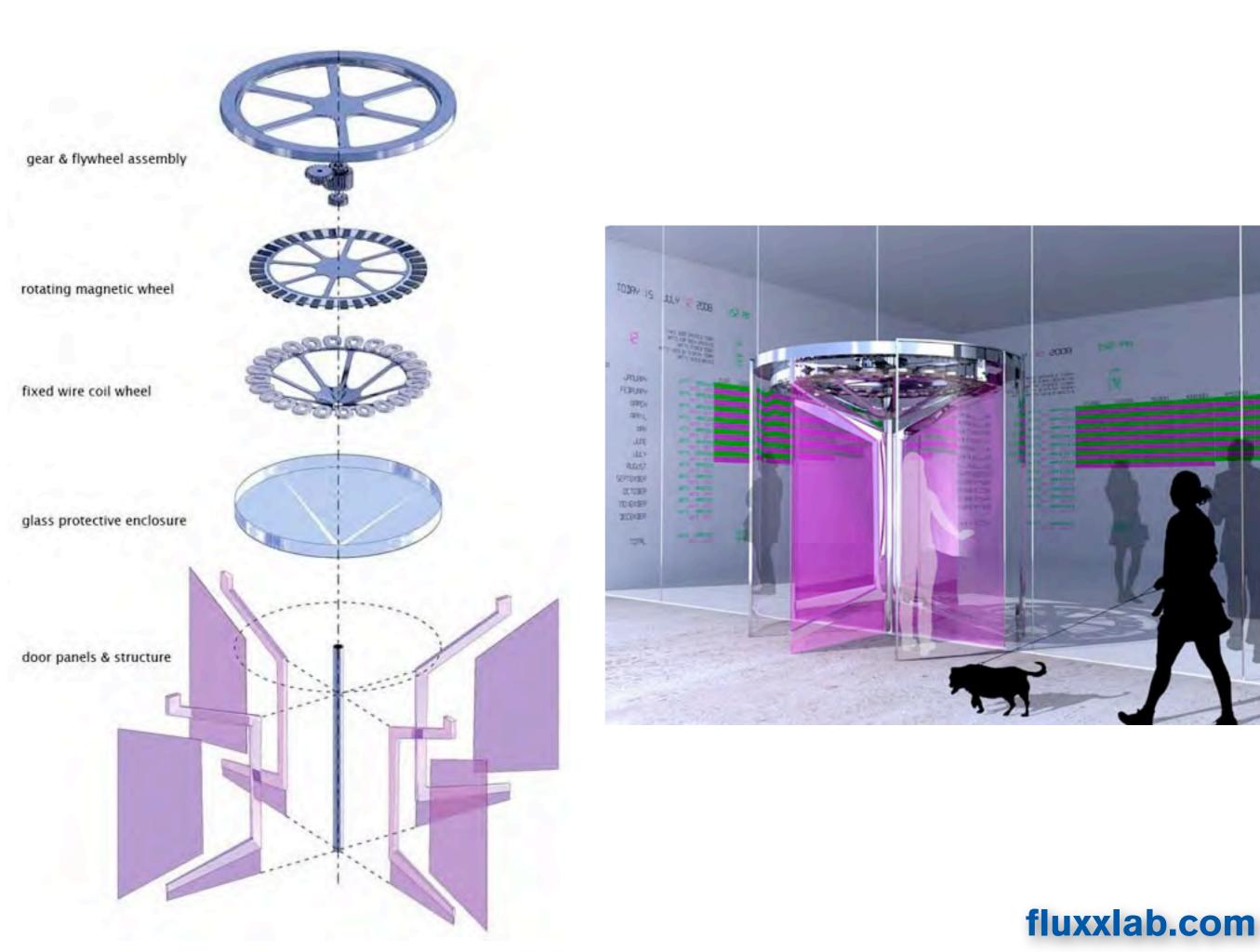
using non-toxic cleaners reduces

AIRBORNE TOXINS

get rid of carpeting in the rooms



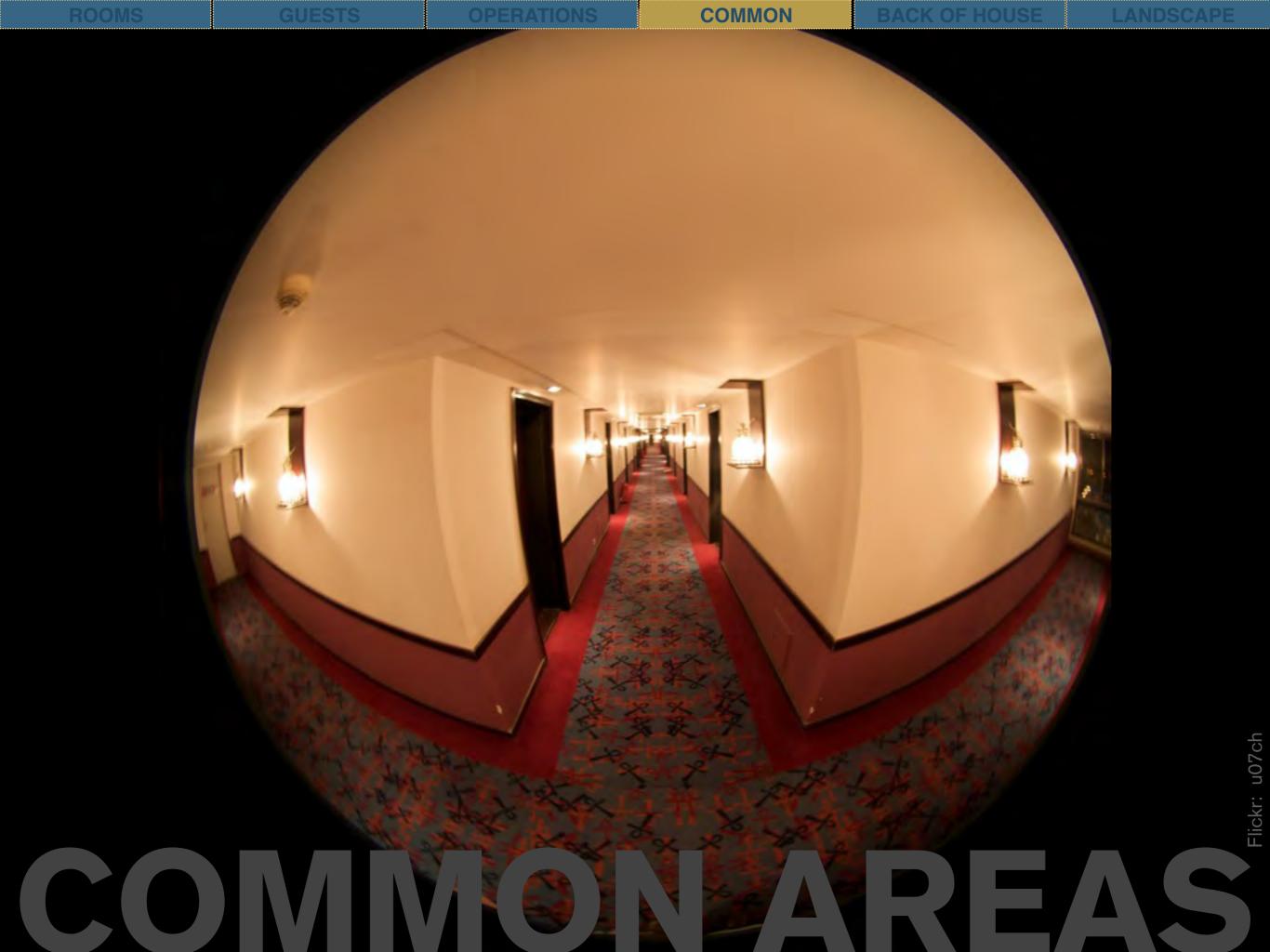
\$





WE THROW AWAY!

lovefoodhatewaste.com





toto.com





pedalvalve.com

UPGRADE TO LOW FLOW PEDAL VALVES



$= \frac{45,187}{x $ 0.015 \ /gallon} = \frac{100}{678}$

collect condensate from A/C

1650

ACCOMPANY OF THE OWNER

CPT



activesafety.com



Boogenerators in u.s.



savings on ENERGY

each saving





SOURCE: US Department of Energy

COMMUNITY INVOLVEMENT

red lights indicate poor performance



green lights indicate better performance GALLE FACE HOTEL ADMIRES YOUR DECISION NOT TO SMOKE C.G.

Its good for you PLEASE WALK DOWN 2 flights only

> Galle Face Hotel Sri Lanka

TO PREVENT MOSQUITOES ENTERING THE ROOM LEASE DO NOT OPEN THE WINDOWS.

ATTACH NO STRINGS

If you reuse the towels, a donation will be made to a nonprofit environmental organization.

A donation has already been made to a nonprofit environmental organization, since we trusted you'd reuse your towels.



SOURCE: Yes! 50 Scientifically Proven Ways to Be Persuasive

HERD EFFECT PERSONALIZED

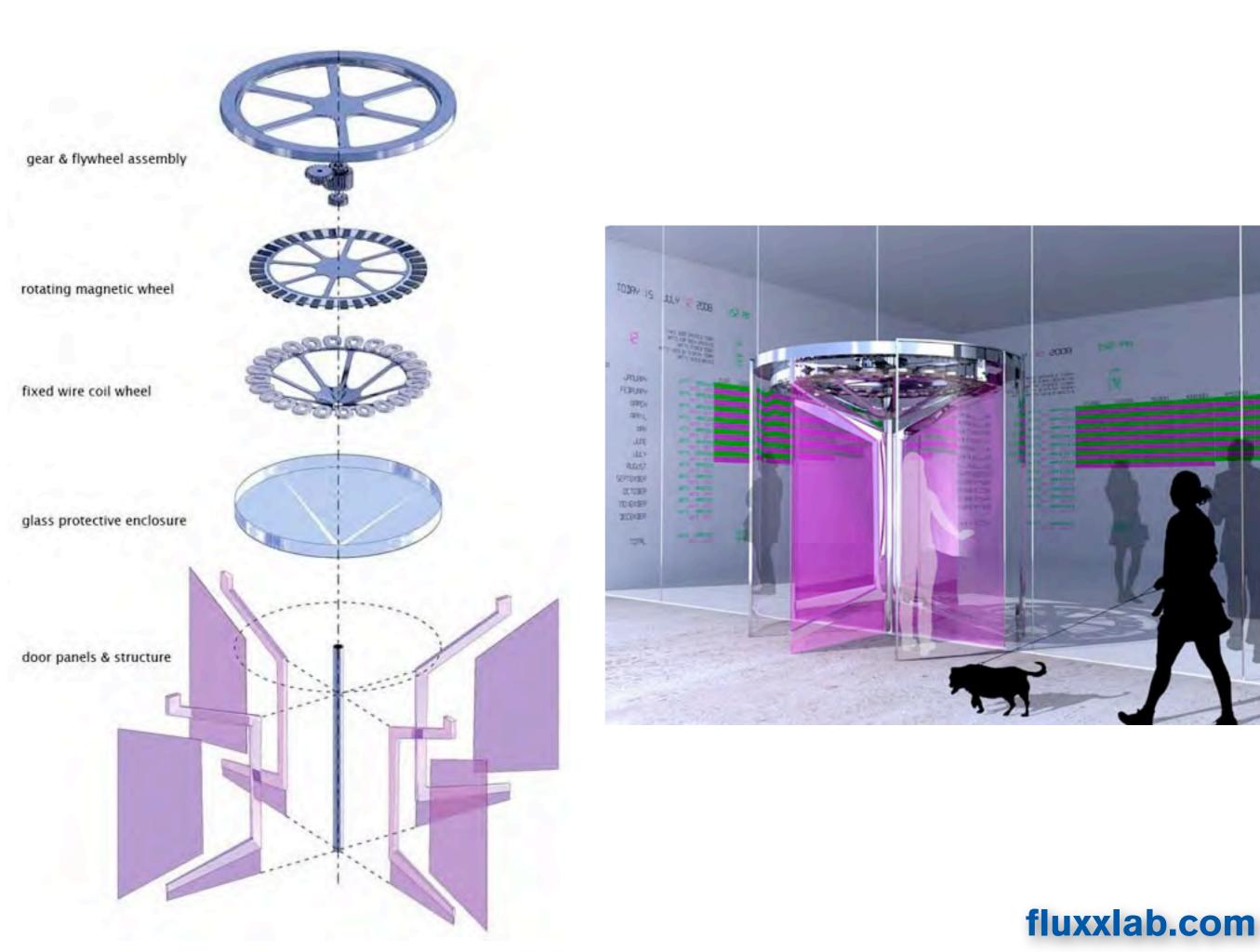
Many prior hotel guests have been eco-friendly by reusing their towels.

Most of the guests in this room reuse their towels.



This complex is designed for the education of future hospitality managers. Many of the staff you come in contact with and who serve you, in all areas of the hotel and conference center, are students learning the many components of the hospitality industry. We look forward to your visit, and welcome you as our guests.





BACKOFHOUSE



TOTAL ENERGY SAVINGS

185 150 lower temperature



CHANGE YOUR FILTERS



California Energy Commission SOURCE:





SOLAR POOL HEATING

ENERGY SAVINGS





zipcar.com



Lin





COOL ROOF SAVINGS

10М сніе

DFW \$20M NYC \$16M

\$20M

¥

\$

\$35

LAX

\$40

PHX

\$37M

SOURCE: Lawrence Berkeley National Laboratory

by 2015

GREEN ROOF SAVINGS

energy-savings

hydrotechusa.com





WATER CATCHMENT

$\frac{1000_{sf}}{9285_{sf}} = \frac{632_{gal/in}}{5,000_{sf}}$ $\frac{5,000_{sf}}{9285.7_{sf}} = \frac{53668_{gal/in}}{53668_{gal/in}}$

= 21 inches per year x 5,868 gallons = 123,240 gallons/year

DRIP IRRIGATION

WATER SAVINGS



LOWER TEMPERATURE

15725-2046





IN THE BEGINNING

IT ALL STARTED WITH A CUP OF COFFEE







And the second s

of Street, Str

The second second



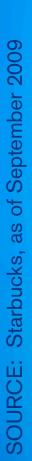
muffin top

interesting person

I NER WAR

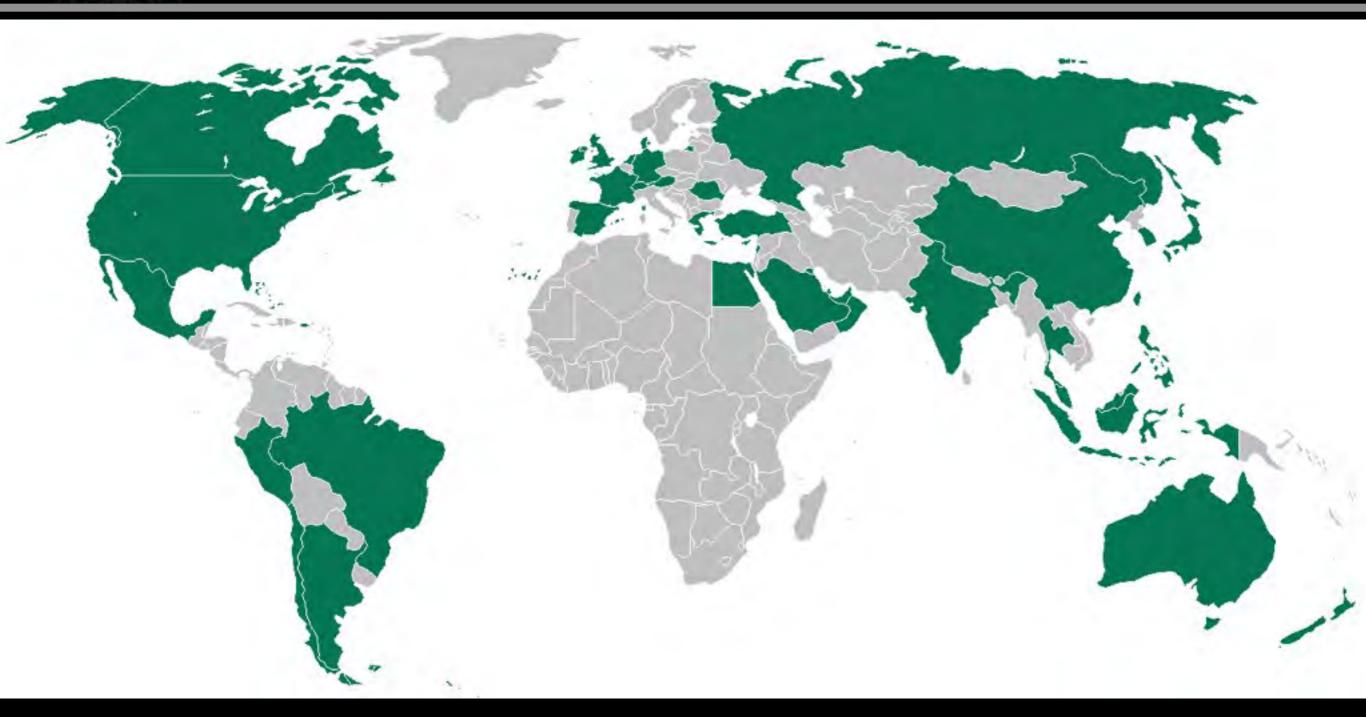
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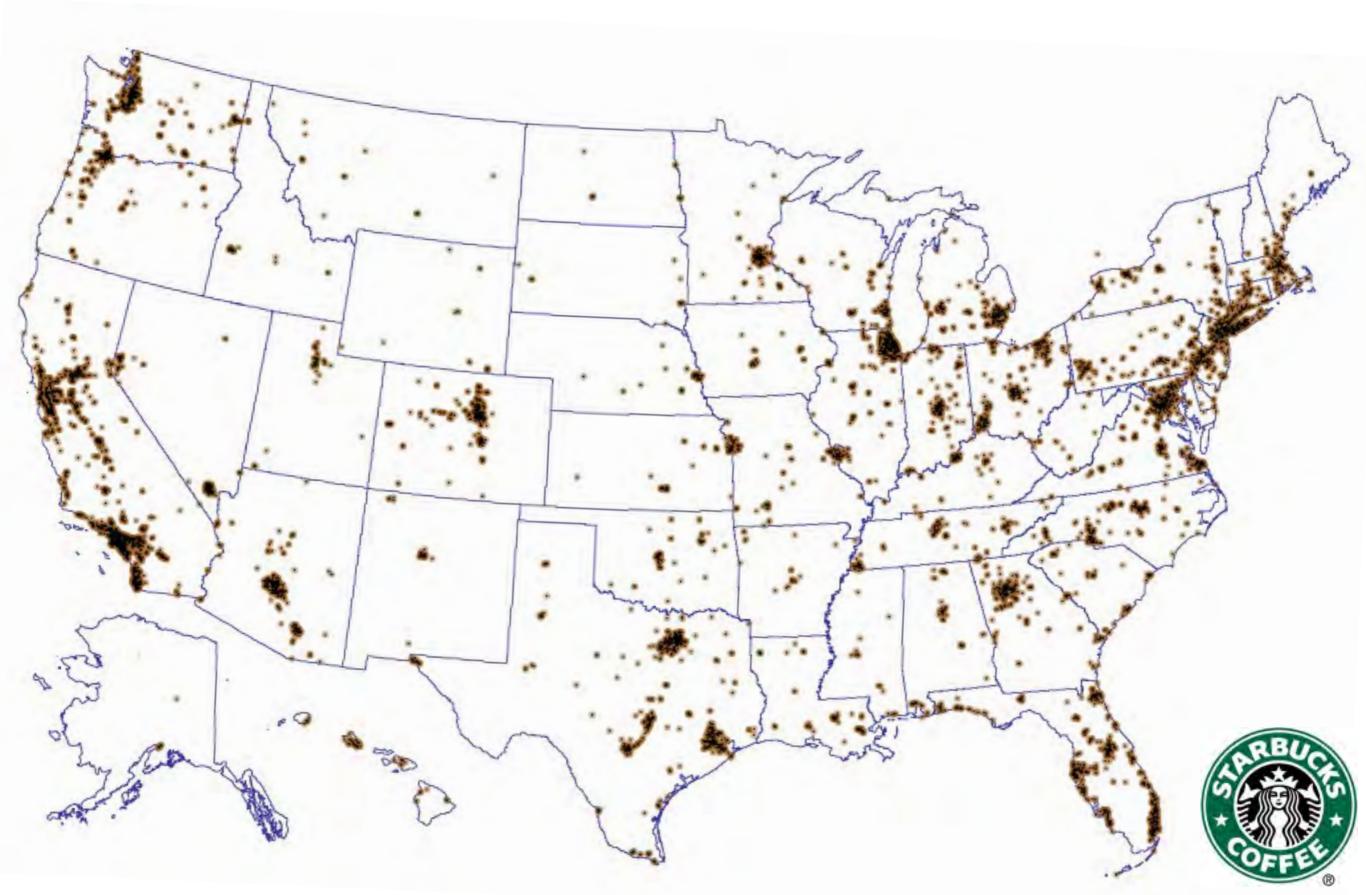




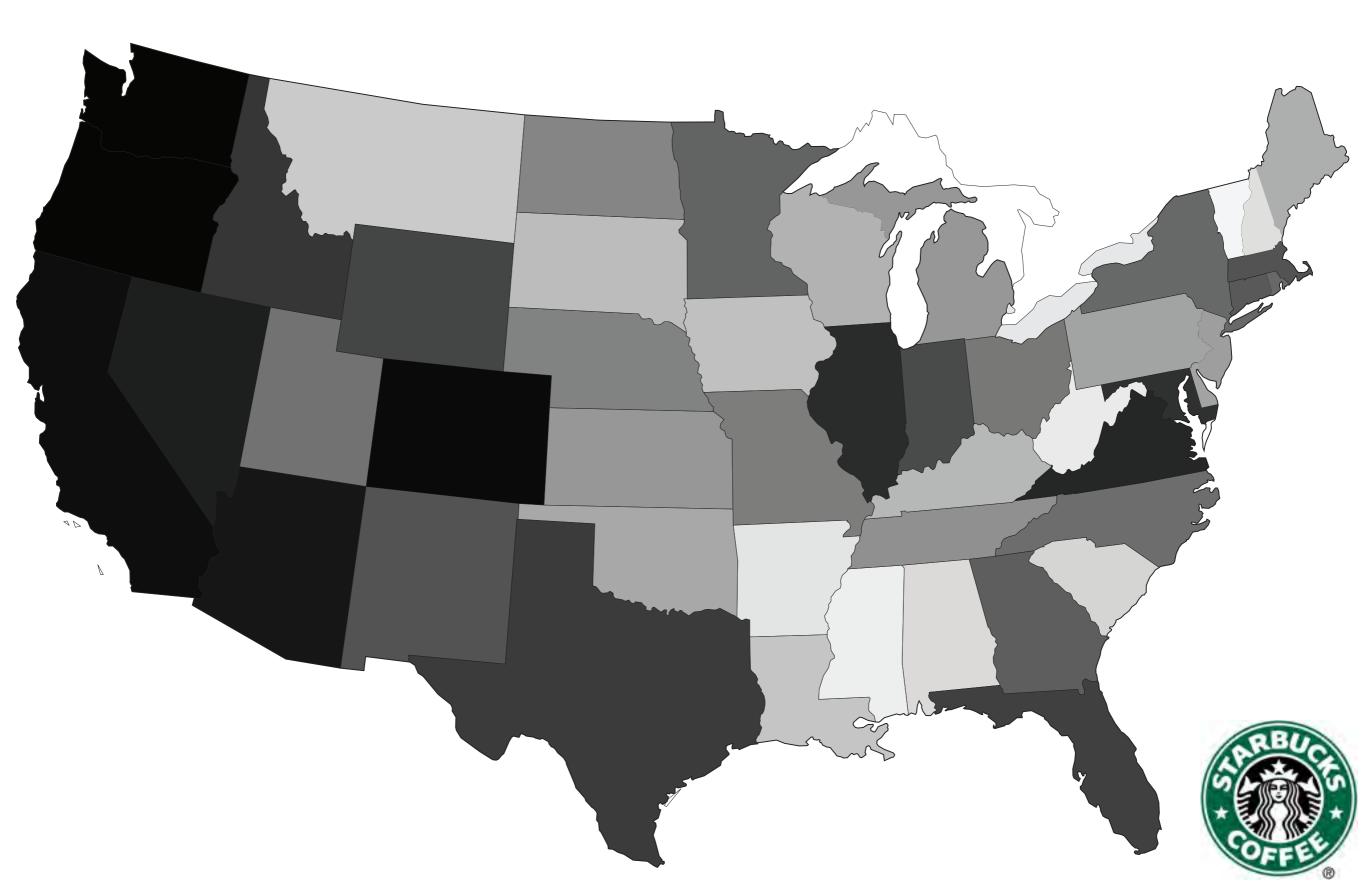




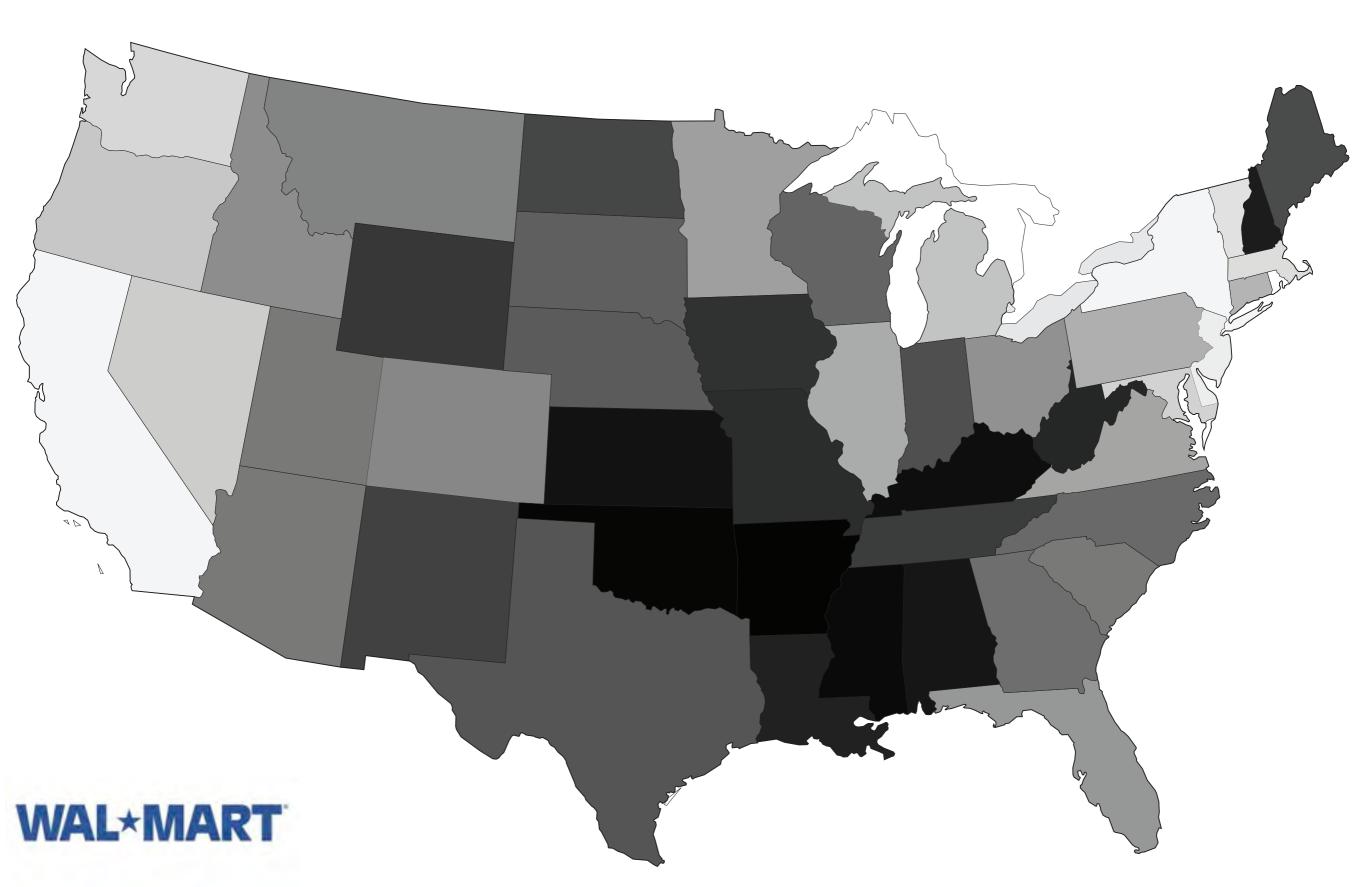
US STARBUCKS LOCATIONS



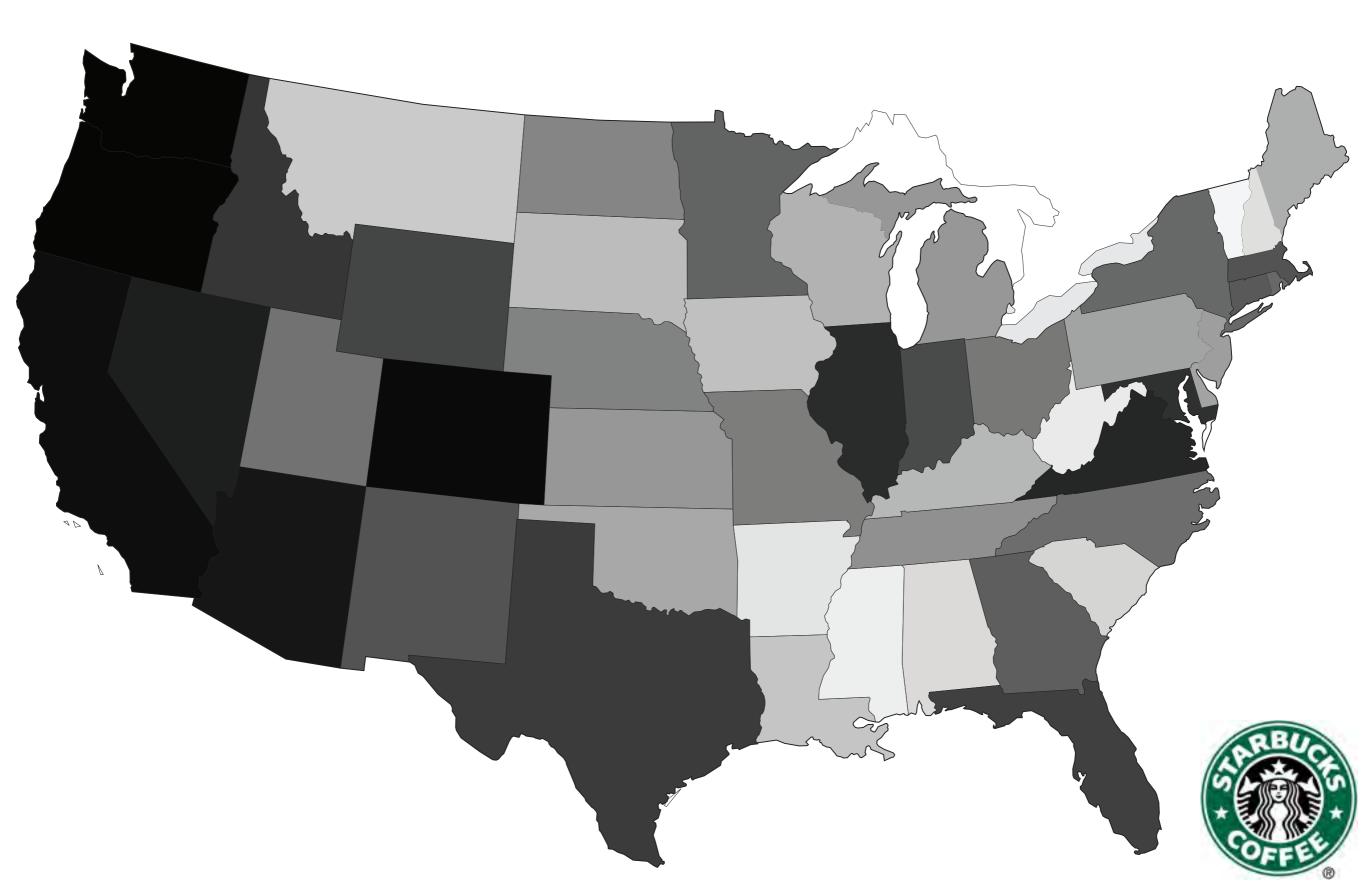
STARBUCKS PER CAPITA



WALMARTS PER CAPITA

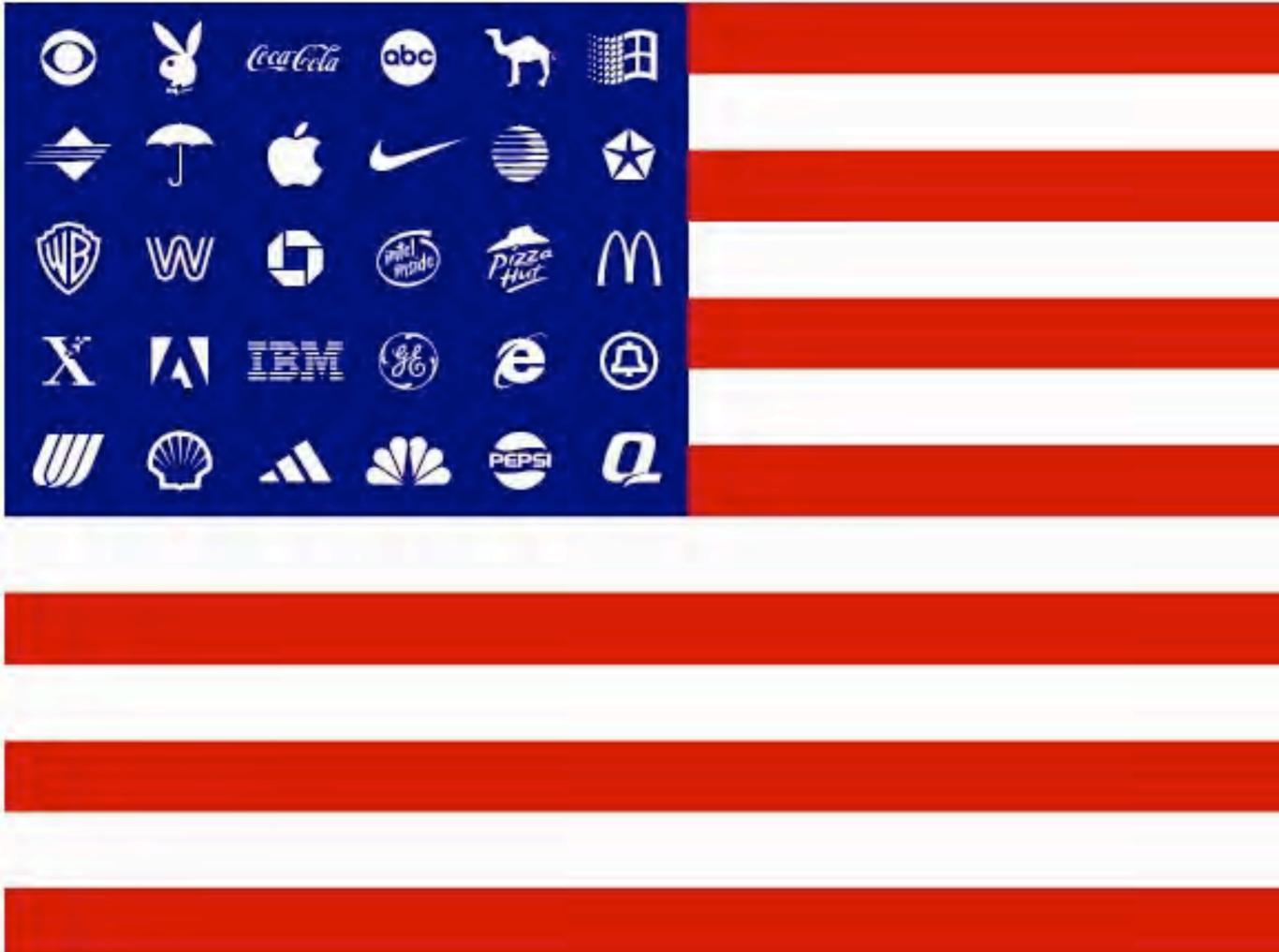


STARBUCKS PER CAPITA



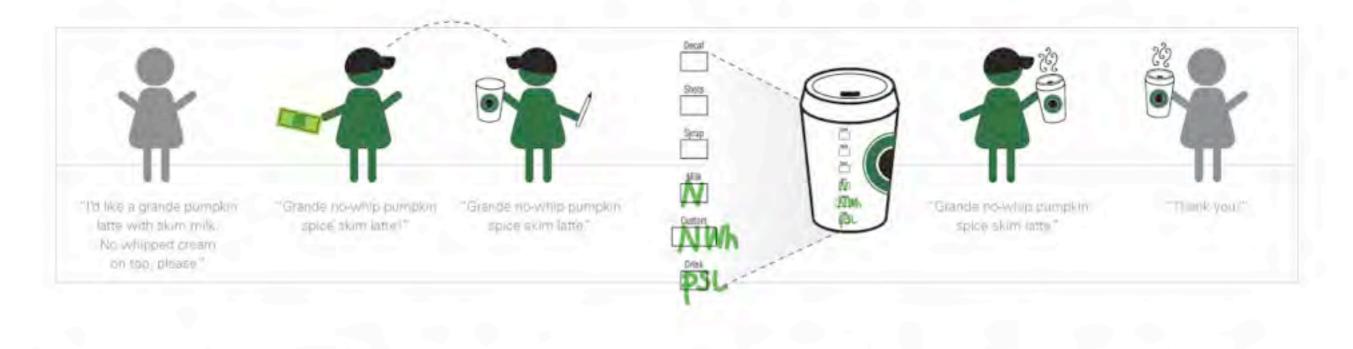
LEED CERTIFIED BUILDINGS



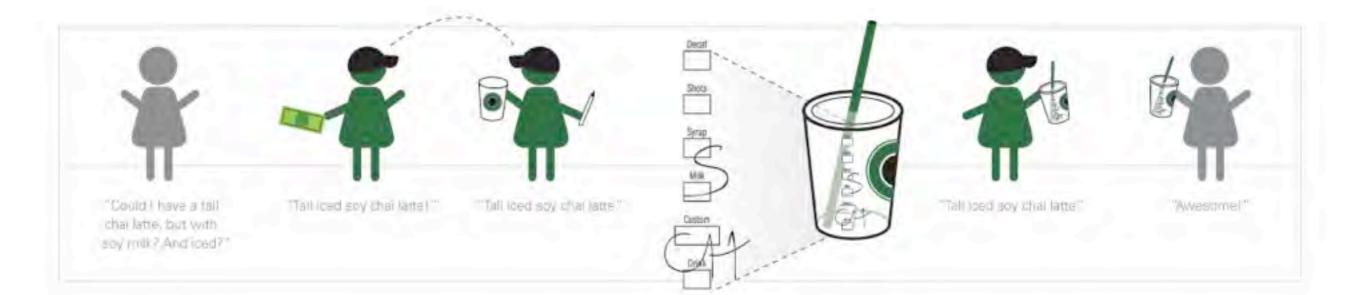


COMMAND LINE

Language distillation and translation



Long Form Language (Understood by customer & cashier) Short Form Language (Understood by all) Short Form Notation Understood by baristal Short Form Language (Understood by all)









happiness

RE Can I have 10 minutes i



FORTUNE MAGAZINE 100 Best Companies TO WORK FOI

B WINNER

10 Most Admired Companies Best Ethical Score Top 50 CSR



spends more on HEALTH CARE

than COFFEEBEANS



WHATALL CARED ENOUGH TO VOTE

a model company

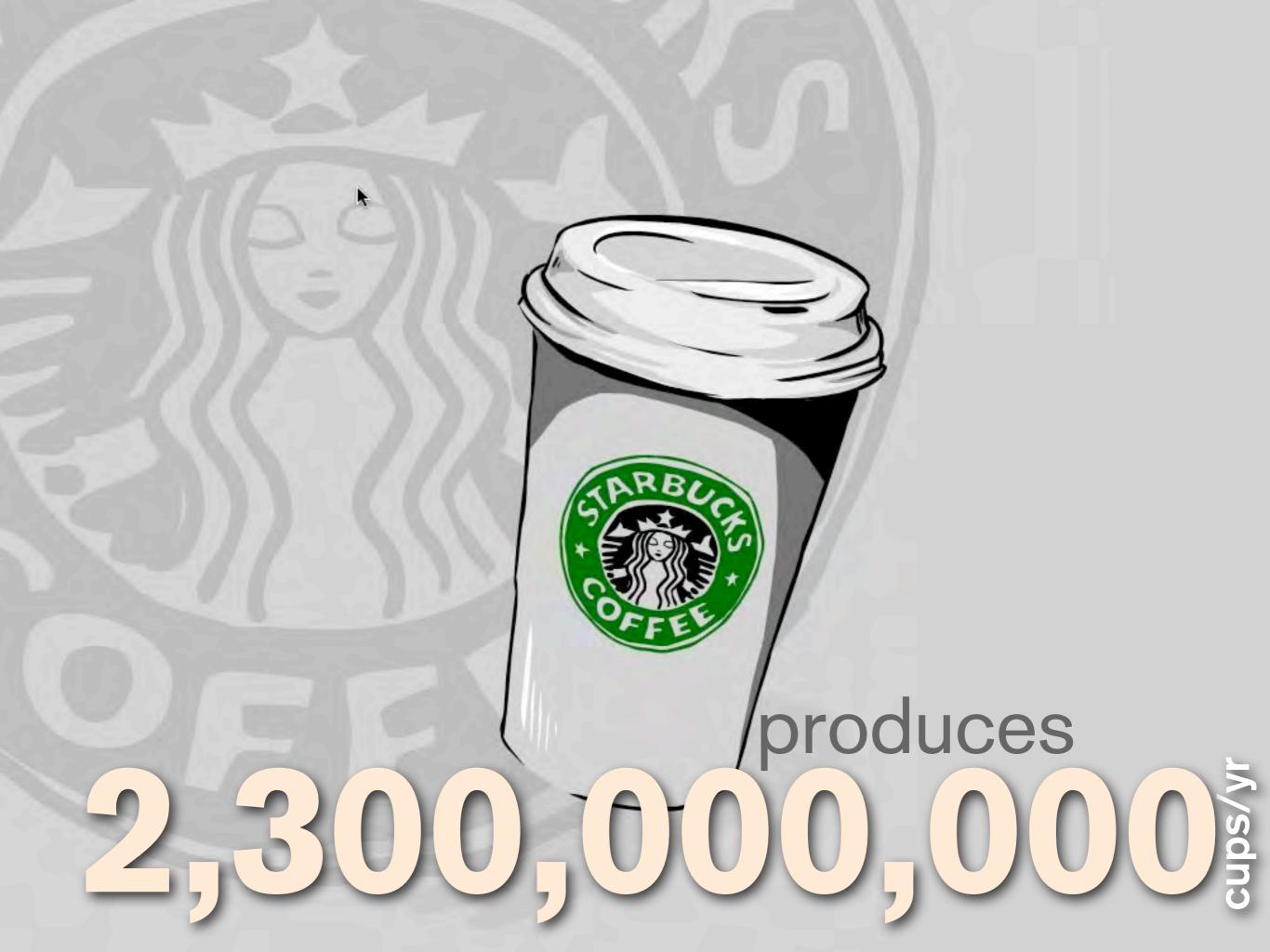
8

hen Reove



life happens over coffee

eco**dilemma**



ANATOMY OF A CUP

Paper cups provide a convenient way to serve Starbucks hot beverages, but they also result in some environmental impacts.

INNER LINING: Low-density polyethylene

Careful, the beverage you're thout to enjoy is extremely hat

OUTER SHELL: Paper fiber (10% post-consumer recycled content)









10 of The Worst and Most Fat-Filled STARBUCKS BEVERAGES

1

1

CALL ME THIRSTY

500

-

0

600

0

400

CALORIES

Peppermint White Hot Chocolate 730 calories

Iced Peppermint White Mocha 700 calories

Mint Chocolaty Chip Frappuccino 680 calories

Peppermint Mocha Frappuccino 660 calories

Tazo Green Tea Frappuccino 650 calories

Eggnog Latte 630 calories

Iced White Chocolate Mocha 630 calories

Java Chip Frappuccino 600 calories

Caramel Brulee Crème 600 calories

Espresso Truffle 560 calories

200

0

sourced from



20 10 2 28 J. 0 = COFFEE BEAN SOURCE = PAPER SOURCE FOR CUPS = SUGAR SOURCE









a better cup

100% recycled paper Corn-based plastic coating Biodegradable Lids Soy inks

create the market to **RECYCLE**















disinfectant smell
brightly lit
no bathroom mirrors
bolted furniture



environmental movement





SURVIVING ME CONVERGING CATASTROP 61 INCOVENTY-FREST GENTERY

THE NE

YEARS

ARK HERTSG

JAMES HOWARD KUNSTLER

1970 - 2000 (30 years)
2000 - 2010 (10 years)
2010 - 2050 (40 years)

Guilt Financial Payback Dodo survival





this is a volunteer



IF YOU DON'T PRESERVE NATURE BY USING LOW-WATTAGE BULBS, WHO WILL? Today, with simple everyday actions, everyone can help preserve the environment and save power at the same time. For more information go to www.particuliers.edf.fr.







EMPLOYEES "MUST" WASH HANDS EFORE RETURNING TO WORK

ATTENTION

٠

....

EMPLOYEES "MUST" WASH HANDS BEFORE RETURNING TO WORK

don't wash their hands

%

















Do 0 0 0 0 0 0 0 0 change Your Light Eulos! .. STILL: Emma Stone in Easy A . Antonia







(not amish)

RIS

(not amish)

(not amish)



(not amish)



(not amish)



(not amish)

IT'S HERE!

DOUBLE DOWN SANDWICH







Telegraph.co.uk

Americans are 'profoundly bored' by climate change

Institute for Public Policy Research

July 17, 2010













JT UP. KICK-ASS.

THEATERS APRIL 16



OR GUFTED



1



THE GREATEST BATTLE LIES WITHIN

THE DARK KNIGHT

COMING SOON



-

FROM THE STUDIO THAT I

THE INSPECTOR

DER-MAN 3







Robert F. Kennedy Jr. Walden University, July 2007

ocean oil

Charles -

half full = pessimist empty = optimist what ocean? = ceo of bp

IN PERBON FOOTPRINT BIGBER THEN YOURS



50% ENERGY SAVINGS SUMMARY

metric tons of co2 saved 10,765,804

barrels of oil saved 25,036,752

coal fired power plants

metric tons of co2 saved 10,765,804

co2 cuts required by 2020 **58,000,000** co2 cuts required by 2050 **1,450,000,000 8%**

10,765,304 saved

barrels of oil saved 25,036,752

coal fired power plants



barrels of oil saved 32,0000,0000

Flickr: sorabji







barrels of oil saved 32,468,0000



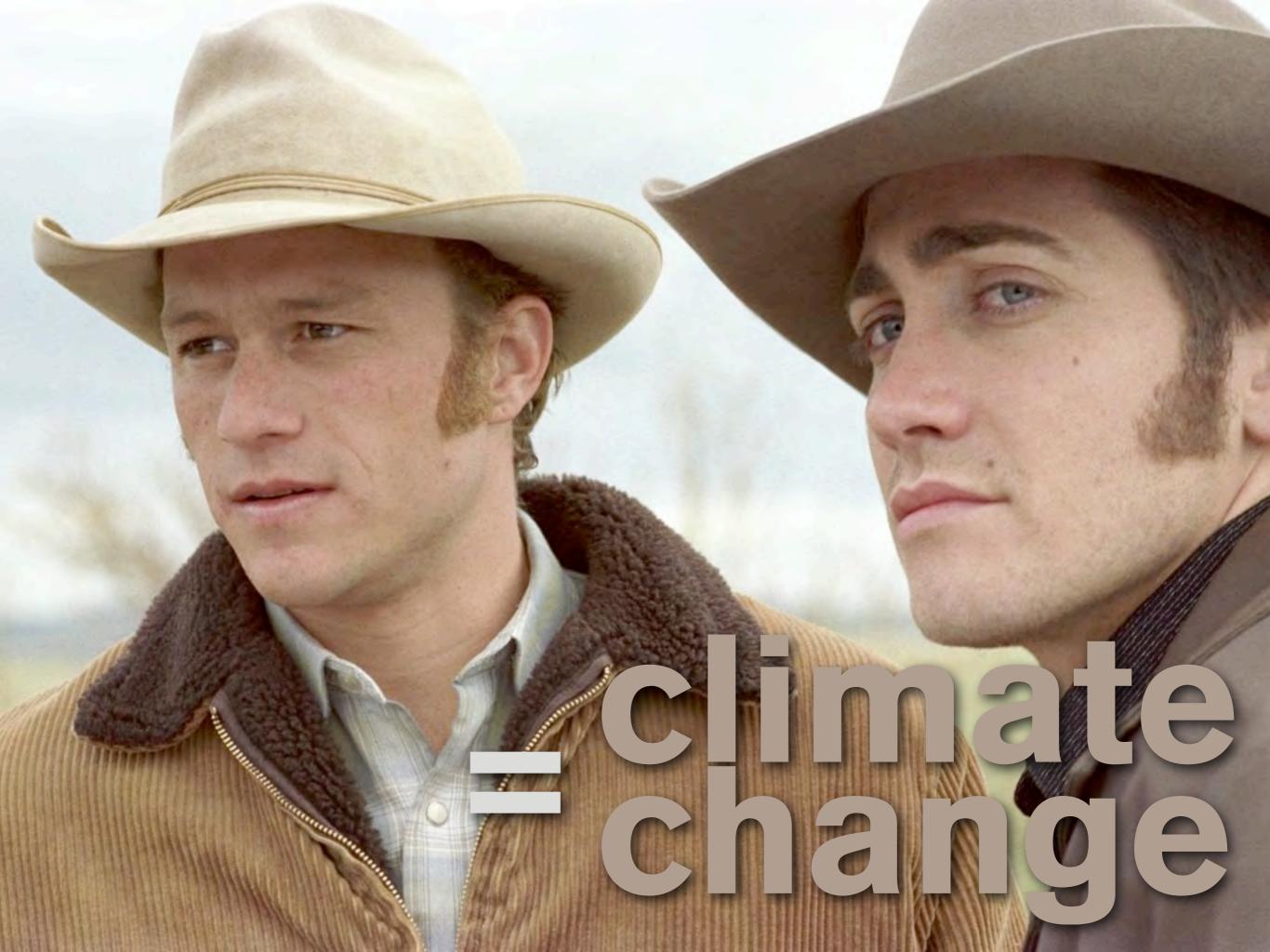
tourismpartnership.org





CLIMATE CHANGE IS A HOAX

SEA LEVELS ARE RISING BECAUSE JESUS IS CRYING



Global Carbon Emissions

Fossil fuels from Colonial days through the Industrial Revolution

0,000																	
6,000														Т(13	otal Missioi	NS	
5,000																	
4,000																	
3,000																	
2,000																	
1,000												www	v.				
0	75 I	767	1783	1799	1815	831	847	863	1879	1895	9	1927	1943	1959	1975	991	200

FROM THE DIRECTOR OF INDEPENDENCE DAY

THE AGE OF STUPID

Ro for this must service the pro-

THE DAY AFTER

A GLOBAL WARNING

THE REAL PROPERTY AND A DESCRIPTION OF A

MAY 28 WHERE WILL YOU BE?

IZ.12.08 IS THE DAY THE EARTH STOOD STOUD WHY DIDN'T WE SAVE OURSELVES WHEN WE HAD THE CHANCE?

1.1.46

facing our world

best lege secret....

HE ARRIVAL

Т



BINGNO THE HORIZON LIES THE NORT TO A NEW BRIDEN

1

KEVIN COSTNER WATERWORLD

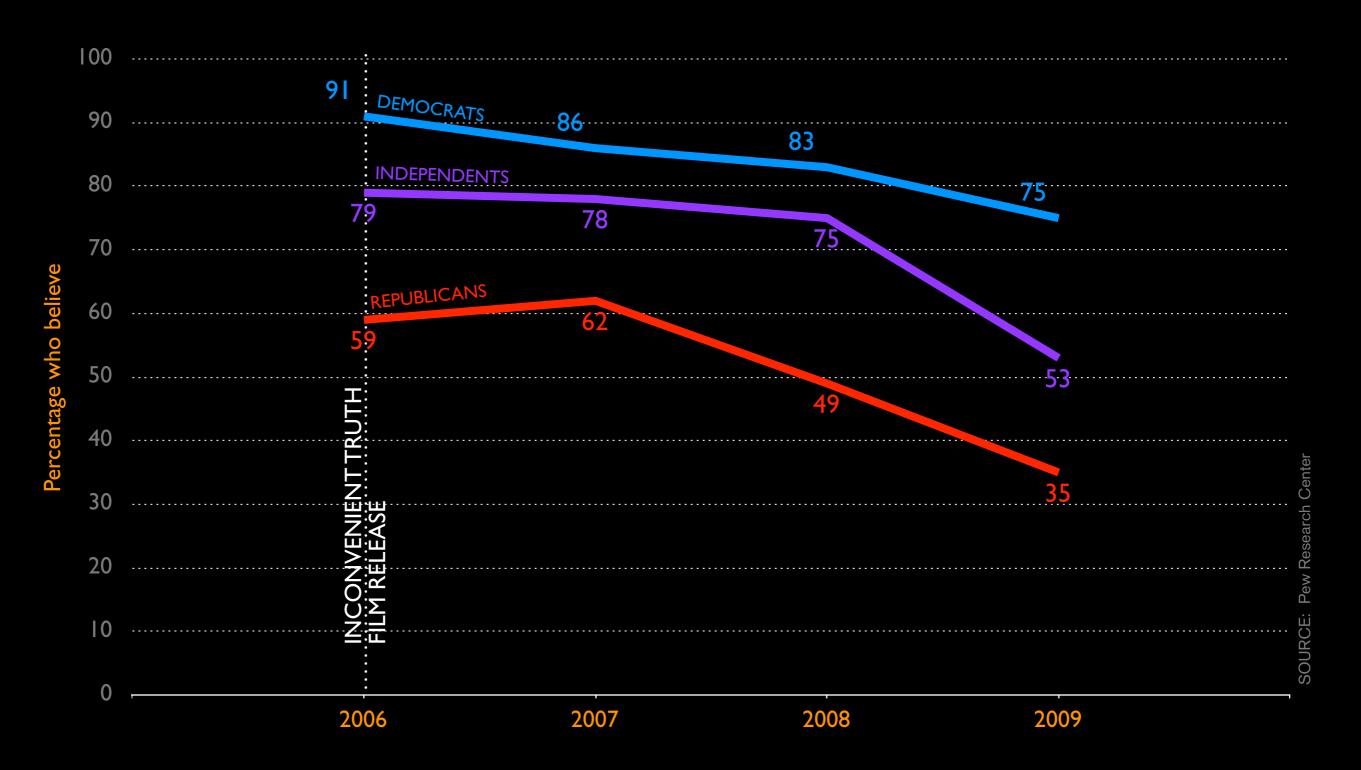
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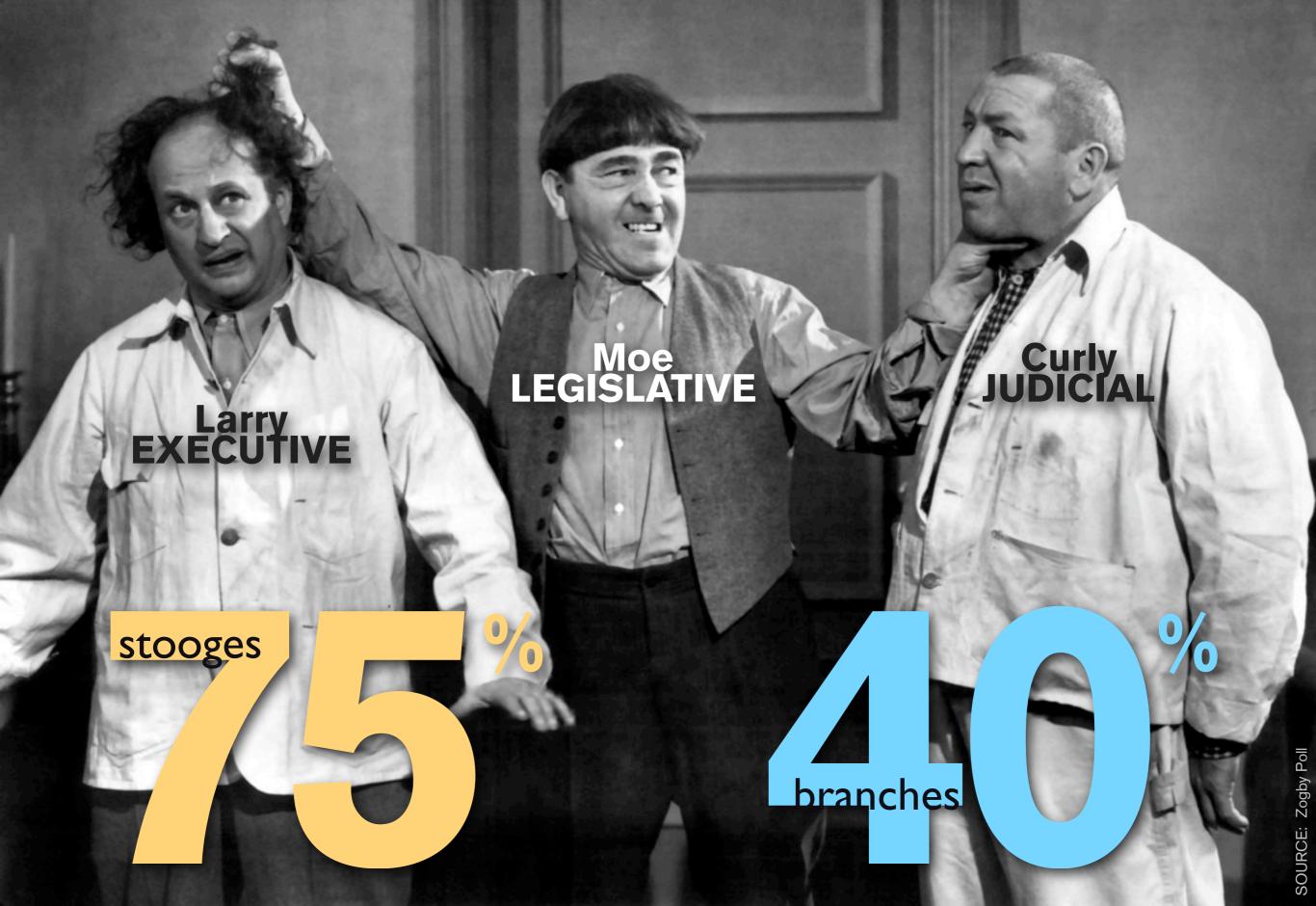
WE WERE WARNED



Belief in Global Warming

Despite the facts, belief in Man Made Climate Change is waning



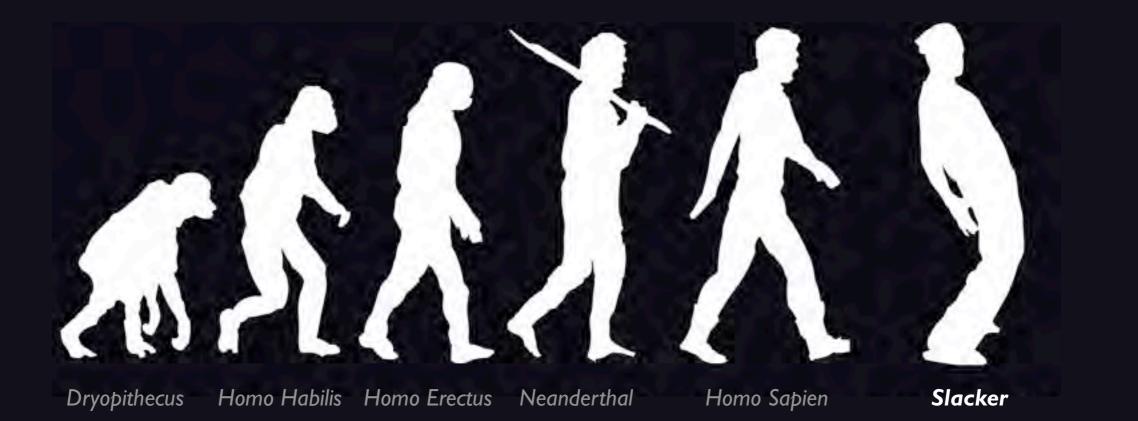




what **AMERICANS**

believe...

EVOLUTION





ENVIRONMENTALISTS DID IT

believe

PHOTO: Dave Martin/AP SOURCE: The Week Poll, January 7, 2005



NEVER THERE

ē

believe

SOURCE: Gallup Poll, 1999





EXTRA-SENSORY PERCEPTION

believe

SOURCE: Gallup P

REINCARNATION

believe

SOURCE: Gallup Poll

%

DEATH PANELS







SOURCE: Harris Poll

believe

%



ELVIS LIVES!

SOURCE: Harris Poll

believe

%



WHO CARES

as American as...

Blissful gnorance

the new national pastime

MORONS

I DON'T BELIEVE IN

Sea Ice 2008



Global warming

and we must

to prevent CATASTROPHE

(& the scientists are r

Loading... Please don't wait.

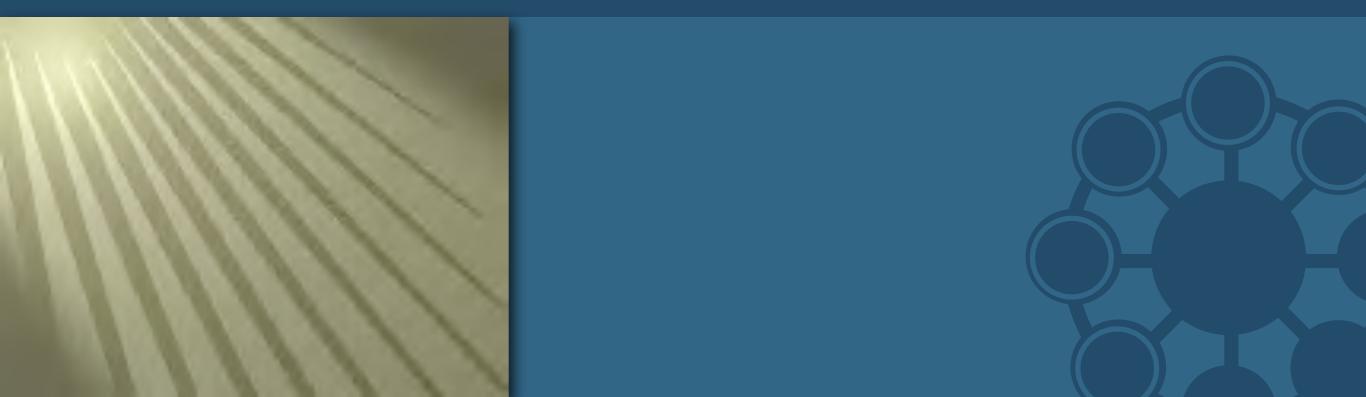
take control of our ENERGY SUPPLY out of the hands of OIL& COAL COMPANIES

"climidia"

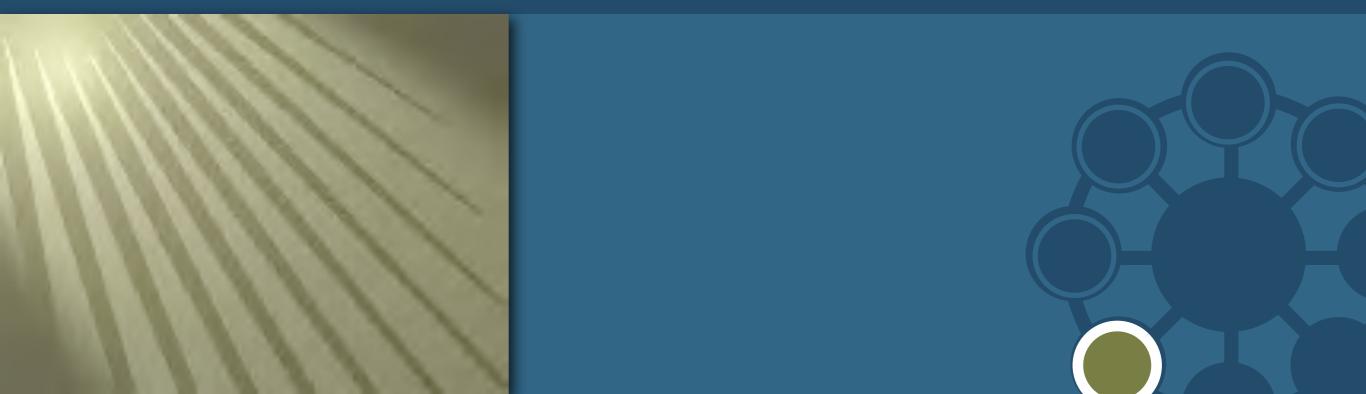
COL

what's next:

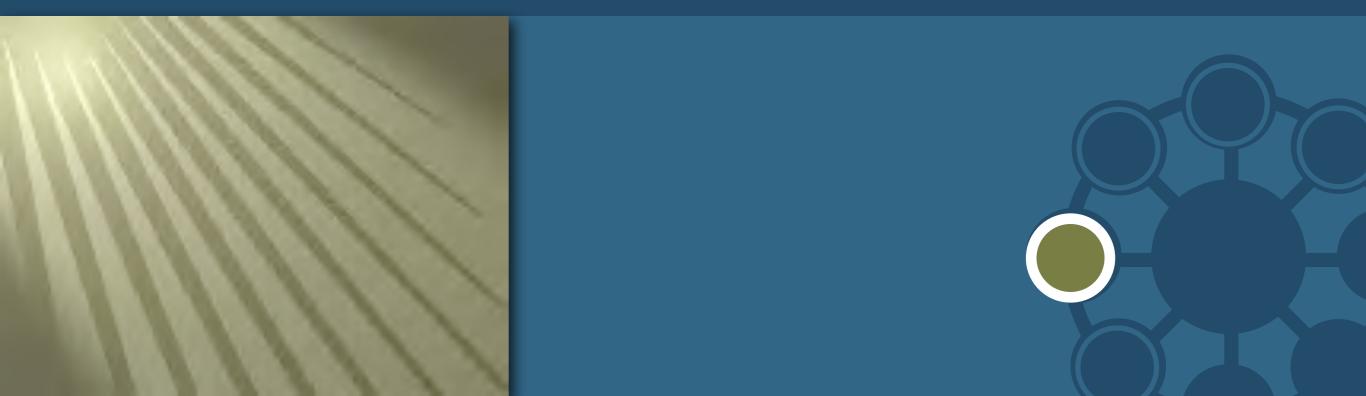
action steps



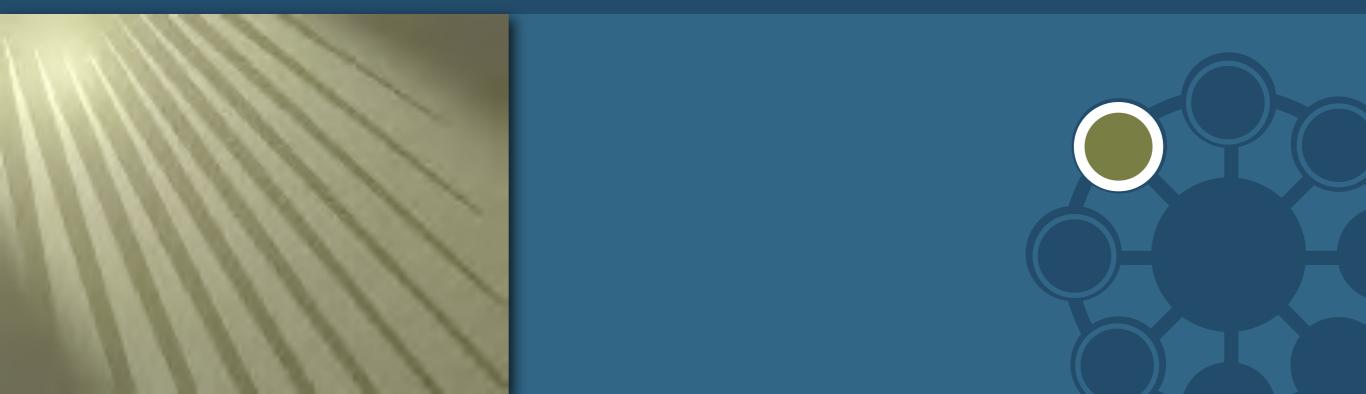
get a free waste assessment from atlanticenergy.net



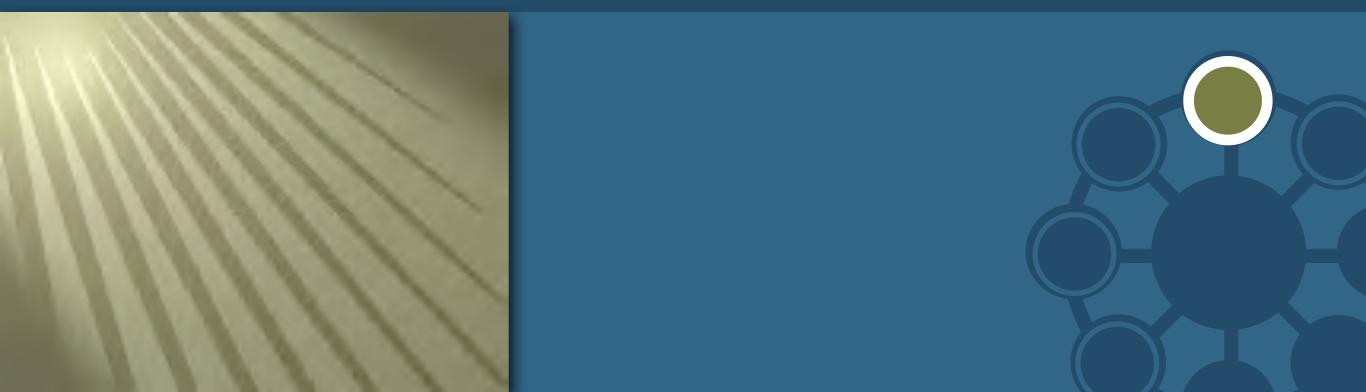
put capital people in same room as operations



follow the money to uncover the easiest savings



measure everything measurable



learn from guests by asking for their input





"You can always count on the Americans to do the right thing....

but only after they have EXHAUSTED every other possible option."

-Winston Churchill

The New York Eines

Sharp Cut in Burning of Fossil Fuels Is Urged to Battle Shift in Climate

"The Earth has been warmer in the first five months of this year than in any other comparable period since measurements began 130 years ago..."



"you must be the **CHANGE** you wish to see in the WORLD."

-Mahatma Gandhi

QUESTIONS

Keynote - Tomorrow at 8am Innovative Models - Tomorrow at 11am

ericcoreyfreed

eric@organicarchitect.com

CONNECT:





download this presentation of 388 slides:

organicarchitect

QUESTIONS

Green Schools - Tomorrow at 9:30am Booksigning - Tomorrow at 11am

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DROP OFF YOUR BUSINESS CARD

organicarchitect.com/downloads/hospitality.pdf

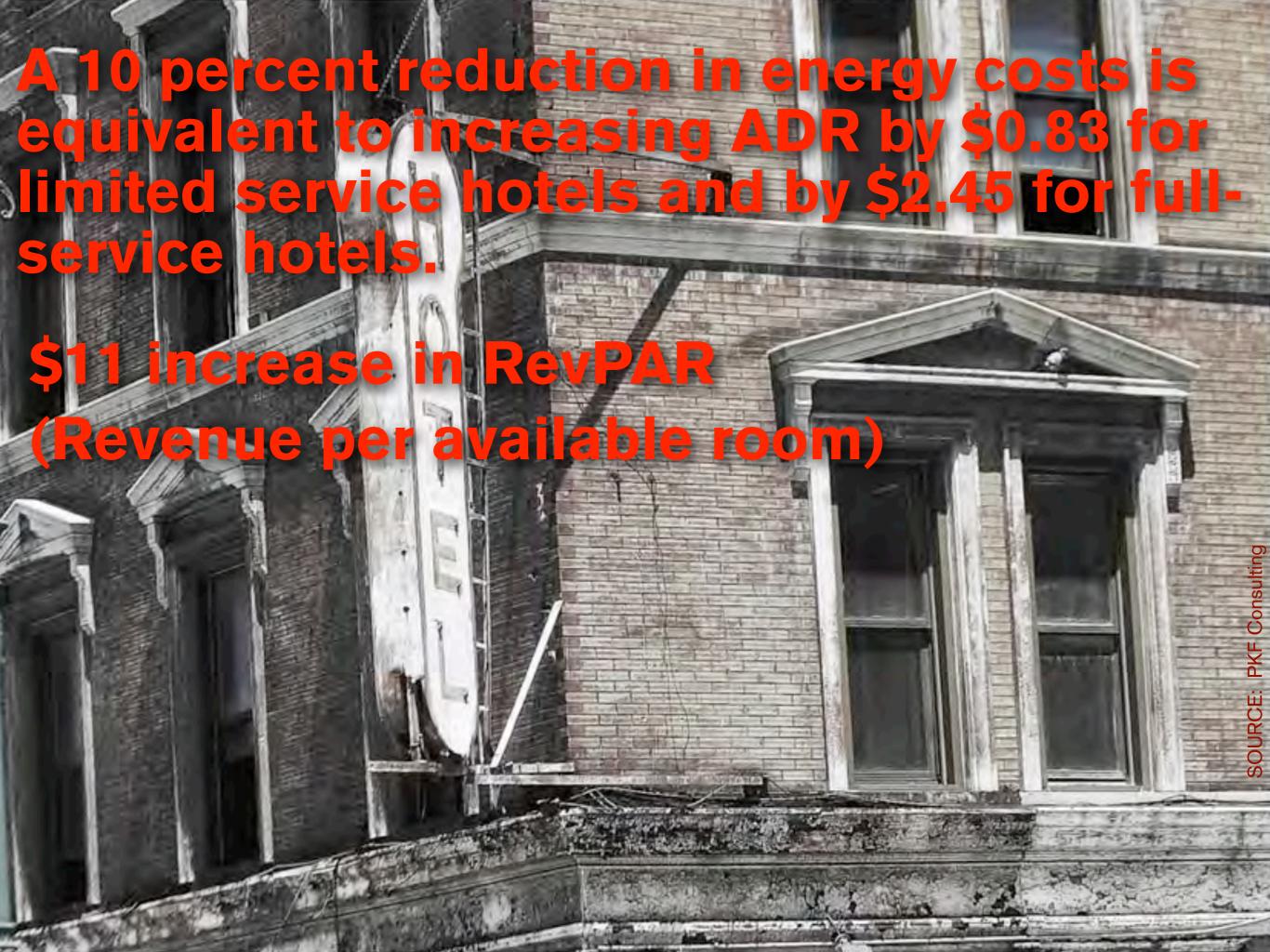
IESE SI contain additional notes & ideas not shown in presentation. They are included in this PDF for your enjoyment.





WHAT CAN WE CHANGE?







Direct Injection Ozone Laundry System typically reduces chemicals, water and sewer usage 40% & energy to heat water 60%; Utilities rebates cover up to 80% of upfront investment & GSI's leasing packages ensure monthly cost savings far exceed regular payments. • Reduce chemicals usage an average of 40 percent with Ozonated

water;

man mir

greensuites.com

- Extend the life of linen at least 25 percent by eliminating many • chemicals harmful to textiles;
- Cut water and sewer bills 40 percent through the elimination of rinse cycles;
- Expand hotel laundry operations' capacity by eliminating rinse cycles Shaving 7 minutes off the typical laundering process for every load, enhancing machine production and life significantly while bolstering employee productivity; and Reduce the energy required to heat water 60 percent to 80 percent; •

energy use

Hospitality spends \$3.7 billion a year on energy.

Electricity use accounts for 60-70 percent of the utility costs of a typical hotel.

America's 47,000 hotels spend \$2,196 per available room each year on energy

\$2,405,000,000 spent on electricity = 12,657,894,737 (12.66 billion kW) enough to power 1,146,548.44 homes

4,389,443 hotel rooms

- = 12,657,894,737 kW / 4,389,443
- = 2883.71 kW per room

energy savings

Hospitality spends \$3.7 billion a year on energy. 39% is gas, so, \$1.443 B spent on gas / \$1.16 per therm 1,243,965,517.2 therms gas used

Using calculator: http://www.epa.gov/cleanrgy/energy-resources/calculator.html

ELECTRICITY SAVINGS:

6.33 B kW saved 4,545,976 metric tons of CO2 saved 10,572,037 barrels of oil saved eliminates I coal power plant

GAS SAVINGS:

1,243,965,517.2 therms saved 6,219,828 metric tons of CO2 saved 14,464,715 barrels of oil saved eliminates 1.3 coal power plants

TOTAL SAVINGS:

10,765,804 metric tons of CO2 saved 25,036,752 barrels of oil saved eliminates 2.3 coal power plants

NEEDED:

5.8 B metric tons of CO2 emissions globally need to cut 10%, or 58 M metric tons by 2020 to meet 2000 levels need to cut 25%, or 1.45 B metric tons by 2050 to meet 1990 levels

hotels could save 10,765,804 metric tons of CO2 so hotels cut 7.43% of our 1990 CO2 goals for 2050 (25% reduction) or 19% of our 2000 CO2 goals for 2020 (10% reduction)

OIL IMPORTS:

hotels could save 25,036,752 barrels of oil every year <u>Annual Oil Imports:</u>

Libya	37,000,000
UÁE	1,474,000
Argentina	17,595,000
Egypt	5,605,000
France	32,468,000
Germany	19,192,000
S. Korea	17,657,000
Vietnam	10,628,000

DATA: http://tonto.eia.doe.gov/dnav/pet/pet_move_impcus_a2_nus_ep00_im0_mbbl_m.htm





OIL IMPORTS: hotels could save 25,036,752 barrels of oil every year Annual Oil Imports:

<u>Annual Oli</u>	<u>Imports:</u>
Libya	37,000,000
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France	32,468,000
Germany	19,192,000
S. Korea	17,657,000
Vietnam	10,628,000
DATA LAGAN	6 · · · · · · · · · · / - · · · / - · · · / - · · · / - · · · / - · · · ·

DATA: http://tonto.eia.doe.gov/dnav/pet/pet_move_impcus_a2_nus_ep00_im0_mbbl_m.htm

RevPAR

Green hotels show higher:

AVERAGE RATE FOR AN OVERNIGHT ACCOMMODATION

RevPAR (Revenue earned per available room)

Customer Satisfaction

PKF Capital Managing Partner Henry Bose told a conference here on green hotels. "For every dollar you can add to the bottom line of a San Francisco hotel, more than \$11 is added in value,"

He noted that the USGBC has recorded dramatic savings in large green commercial buildings the size of hotels—30% energy savings, 35% less carbon output, 50% less water and as much as 90% less waste. USGBC also reported a decrease in operating costs of as much as 9% for sustainable commercial buildings and an increase of 7.5% in value and a 6.6% higher return on investment.

"It is important to note that hotels are extremely resource intensive, open 24 hours, 7 days a week, whereas commercial buildings are used primarily only during business hours. That means the financial benefits of operating a green hotel are likely to be much higher than what USGBC says about the commercial office sector," says Bose. "Hotels that are less costly to operate are simply more valuable to owners."

A 10 percent reduction in energy costs is equivalent to increasing ADR by \$0.83 for limited service hotels and by \$2.45 for full-service hotels.

operational housekeeping efficiencies

local food in restaurant

multi function rooms (movable)

design doors on hold opens

fruit

68 percent of U.S. hotels said they had energy-efficient lights, and two thirds had implemented towel- and linen-reuse programs, up from just over half five years ago.

11 Minimum Guidelines for Going Green

Below is a list of actions properties of any size should take to stake their claim as an eco-friendly establishment. Each step contains further tactics, including case studies, statistics, and additional resources. AH&LA members who have further questions may get one-on-one advice from our <u>Green Guru</u>.

- 1. Each hotel should form an **Environmental Committee** that is responsible for developing an Environmental Green Plan for energy, water, and solid waste use.
- 2. Manage your hotel's environmental performance by monitoring the electric, gas, water, and waste usage information on a monthly and annual basis.
- 3. Replace incandescent lamps with compact fluorescent lamps wherever possible.
- 4. Install digital thermostats in guestrooms and throughout the hotel.
- 5. Implement a towel and/or linen reuse program.
- 6. Install 2.5-gallons per minute showerheads or less in all guestroom baths and any employee shower areas.
- 7. Install 1.6-gallon toilets in all guestrooms.
- 8. Implement a recycling program --including public spaces -- to the full extent available in your municipality; document your efforts.
- 9. Implement a recycling program for hazardous materials found in fluorescent bulbs, batteries, and lighting ballasts through licensed service providers.
- 10. Purchase Energy Star labeled appliances and equipment.
- 11. All office paper products should have 20% or more post consumer recycled content.

lighting

Guest lighting accounts for 30-40 percent of hotel electricity consumption.

Energy-efficient lighting can save 20-75 percent in energy use.

water use

Typical hotels use 218 gallons of water per day per occupied room.

Water-efficient fixtures can reduce water and sewer bills by 25-30 percent.

perception I

Deloitte Survey Independent on line survey of 1555 business travelers 4/08

71% believe the lodging industry is only 'somewhat' green

perception 2

Deloitte Survey Independent on line survey of 1555 business travelers 4/08

23% say the lodging industry is not at all green.