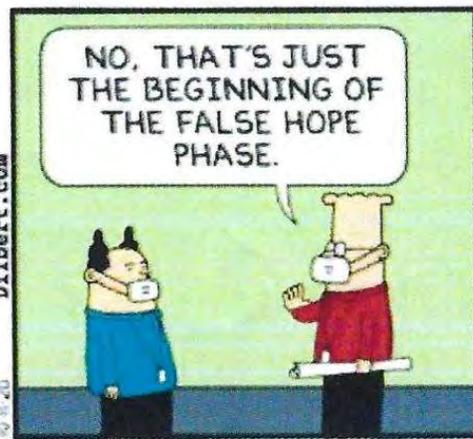
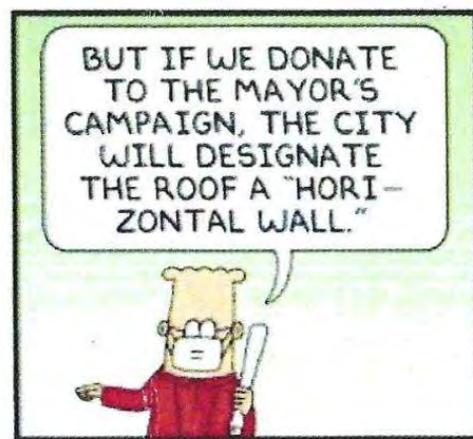
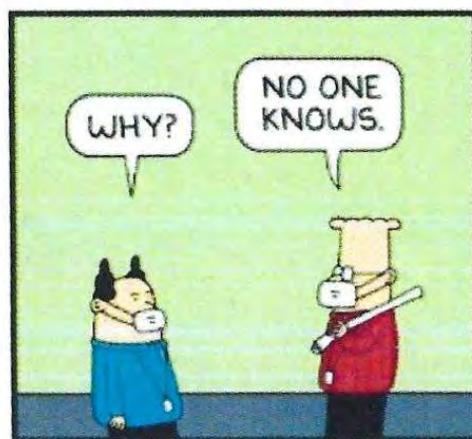
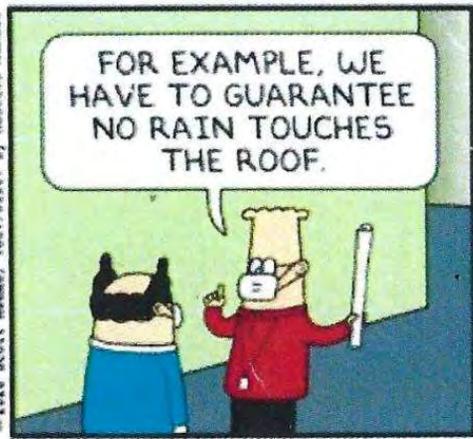


DILBERT

BY SCOTT ADAMS



Twitter: @scottadamsays

© 2020 Scott Adams, Inc./Dist. by Andrews McMeel

Dilbert.com © 2020

TECHNICAL FIXES: ANOTHER GOVERNMENT PROGRAM?

A BRIEF LOOK AT OUR FIELD, OUR FIXES, AND OUR FUTURE

Andy Padian
PadianNYC
NYC, NY

apadian@gmail.com

212 586-2940



A FEW THINGS I'M GOING TO COVER TODAY,
AND I'M GOING TO BOUNCE AROUND A BIT

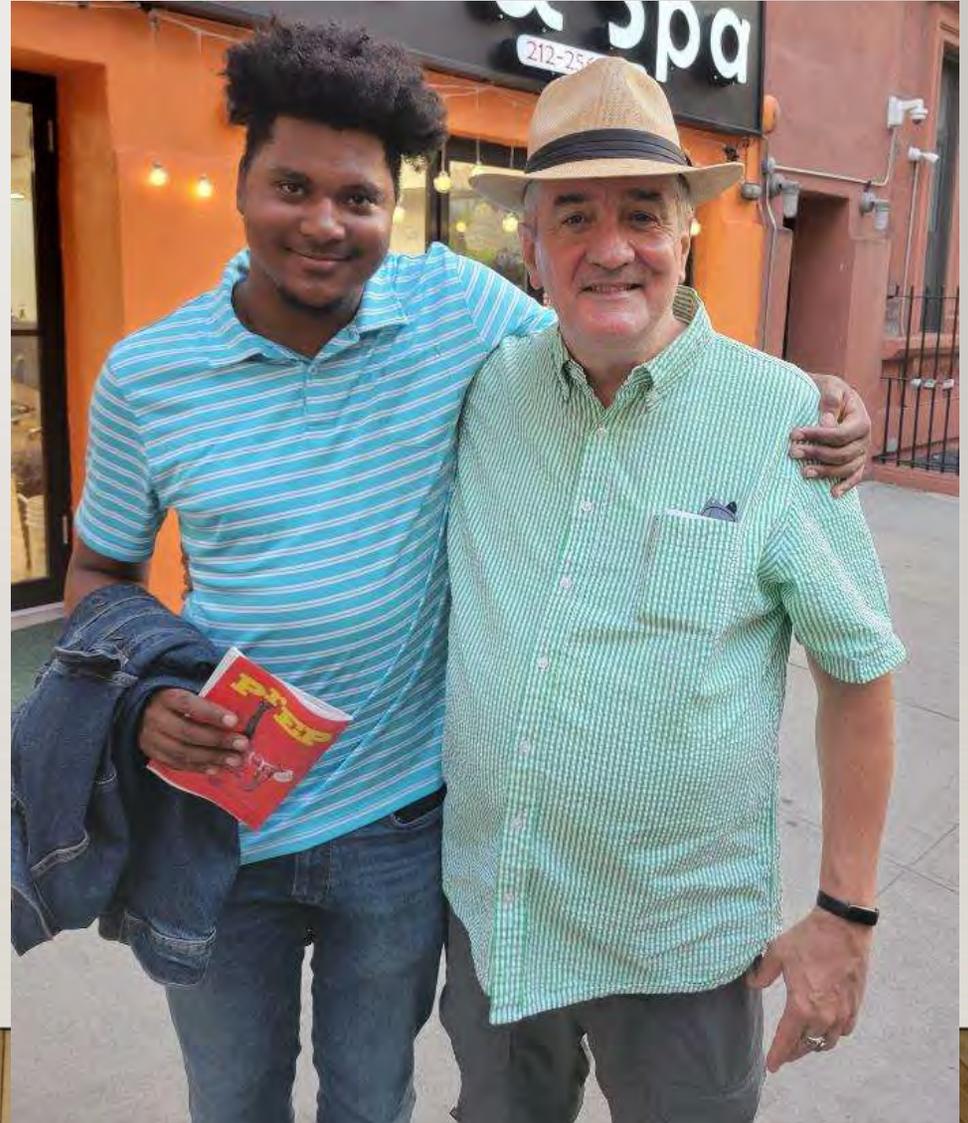
- **YOUSE & ME, SOME CALISTHENICS**
- **SOME HISTORY+ DATA**
- **ENVIRONMENTALISM, LANGUAGE,& LEVITY (I HOPE)**
- **SCIENCE, POOR DECISIONS, & FINANCE**
- **LESSONS LEARNED, LESSONS TO LEARN**

SURVEY/CALISTHENICS

- Engineers?
- Architects?
- Building Scientists?
- Gubment?
- Utility?
- Product Rep/Supplier?
- Insultant? Consultant?
- Student? University?
- Army/Navy/Air Force/Marines?
- Other?

ME!

- Over 2000 ASHRAE II
- Sandy + Resilience
- Banking & Finance
- Private + NP Engineering
- Gubment
- Insultant, Primarily LI MF
- Padian in Gaelic





- Kitzmiller v. Dover Area School District
- Evolution vs. Intelligent Design
- "I don't know where people get the idea that evolution is a theory in crisis."
- "Intelligent design is not, anywhere, a scientific concept. It's not a field of science. It's not being actively researched by anyone"
- "It makes people stupid."
- NOVA: JUDGMENT DAY: INTELLIGENT DESIGN ON TRIAL
- PBS Airdate: November 13, 2007





**Elias Boudinot, 1777 later Pres.
Of Continental Congress**



New Grange, Donore, County Meath, Ireland, 3200 BC

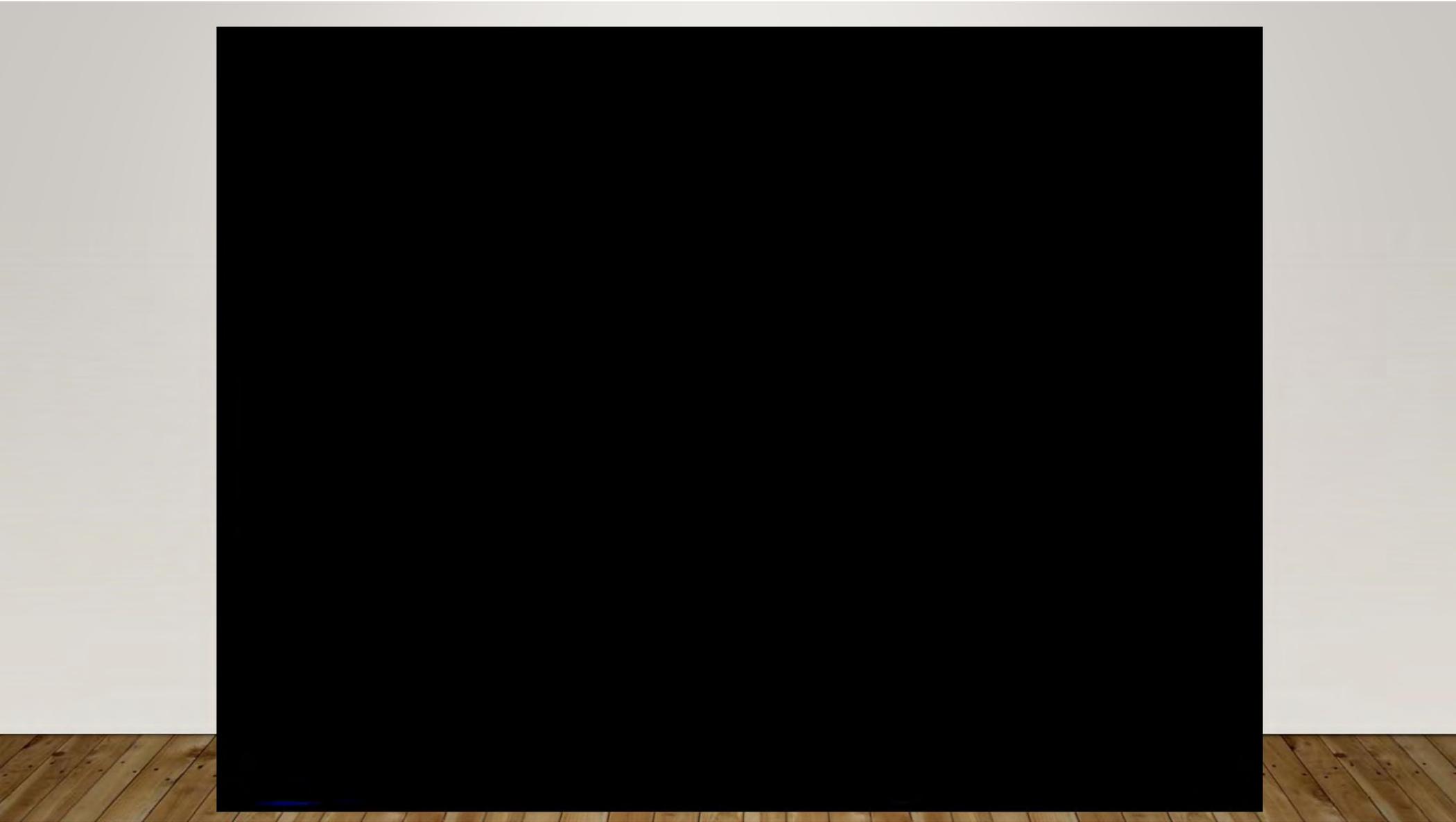




Acceptable Stereotyping Day







*Multi-Family
Low-Income
Weatherization
Conference*



*Sponsored by:
Illinois Department of Commerce and Community Affairs
and
Illinois Community Action Association*



AUG 4, 1997: 26 YEARS AGO THIS WEEK.....

- **Ramzi Yousef**
- **Giuliani NYC Mayor - Abner Louima**
- **Gas \$1.29/gallon**
- **\$56,902 Avg. Salary; Min. Wage \$5.15/hr**
- **Clinton/Gore**
- **NY Yankees 23rd MLB Championship**
- **Titanic #1 Movie**
- **Nicholson/Hunt “As Good as it Gets”**
- **Yassar Arafat, Helen Thomas, Wesley Snipes**
- **Queen Mother 97, Diana, Candle in Wind**
- **Roseanne + Tickle Me Elmo**
- **And our pal Jeanne Calment.....**

RIP JEANNE CALMENT, 122 YEARS, 164 DAYS



MONDAY, AUGUST 4, 1997 – 26 YEARS AGO THIS WEEK

Wagdy Anis

Mike Barcik

Chris Benedict

Terry Brennan

Marilou Cheple

G. Pete Consigli

Jim Cummings

Phillip Fairey

Don Gatley

Lixing Gu

Steve Baczek

Frank Beasley

Marc Bomberg

Subrato Chandra

Michael Clarkin

Dennis Creech

Rob DeKeiffer

Paul Fiset

Henry Gifford

Gus Handegord

William Hill

John Holton

Pat Huellman

Joe Kuonen

Joseph Laquatra

Ned Lyon

Cathy Muller

Brad Oberg

Andrew Padian

Dave

Pennebaker

Jim Holland

Bion Howard

Richard Kelleher

Mark LaLiberte

Joseph Lstiburek

Neil Moyer

Gary Nelson

Colin Olson

McGregor

Pearce

Betsy Pettit

Duncan Prah

Marc

Rosenbaum

Marty Serena

Richard

Shaughnessy

Paul Shipp

Anton TenWolde

Jeff Tiller

George Tsongas

Jim Vann

Valerie Walsh

John Proctor

Armin Rudd

Andy Shapiro

Lester Shen

Bill Sturm

Margo

Thompson

Dick Tracey

Bill Turner

Frank Vigil

Alex Wilson

Cliff Zlotnik

INTRODUCTION: SOME HISTORY & WHY MANY OF US ARE IN THIS BUSINESS

Please be more optimistic→

I am losing hope in society!

"THOSE WHO CANNOT REMEMBER
THE PAST ARE CONDEMNED TO
REPEAT IT."

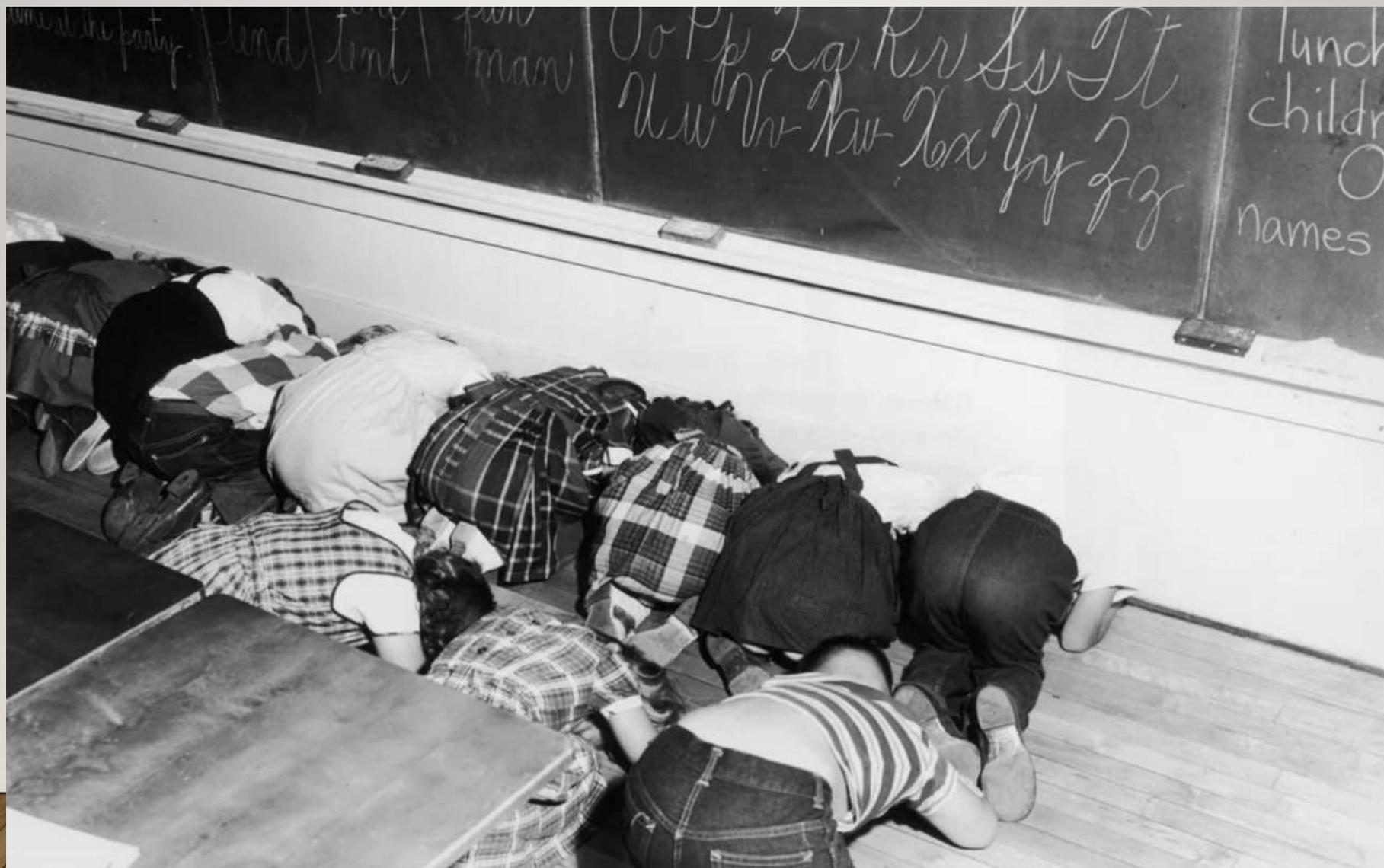
-GEORGE SANTAYANA, *LIFE OF
REASON, REASON IN COMMON SENSE,*
SCRIBNER'S, 1906



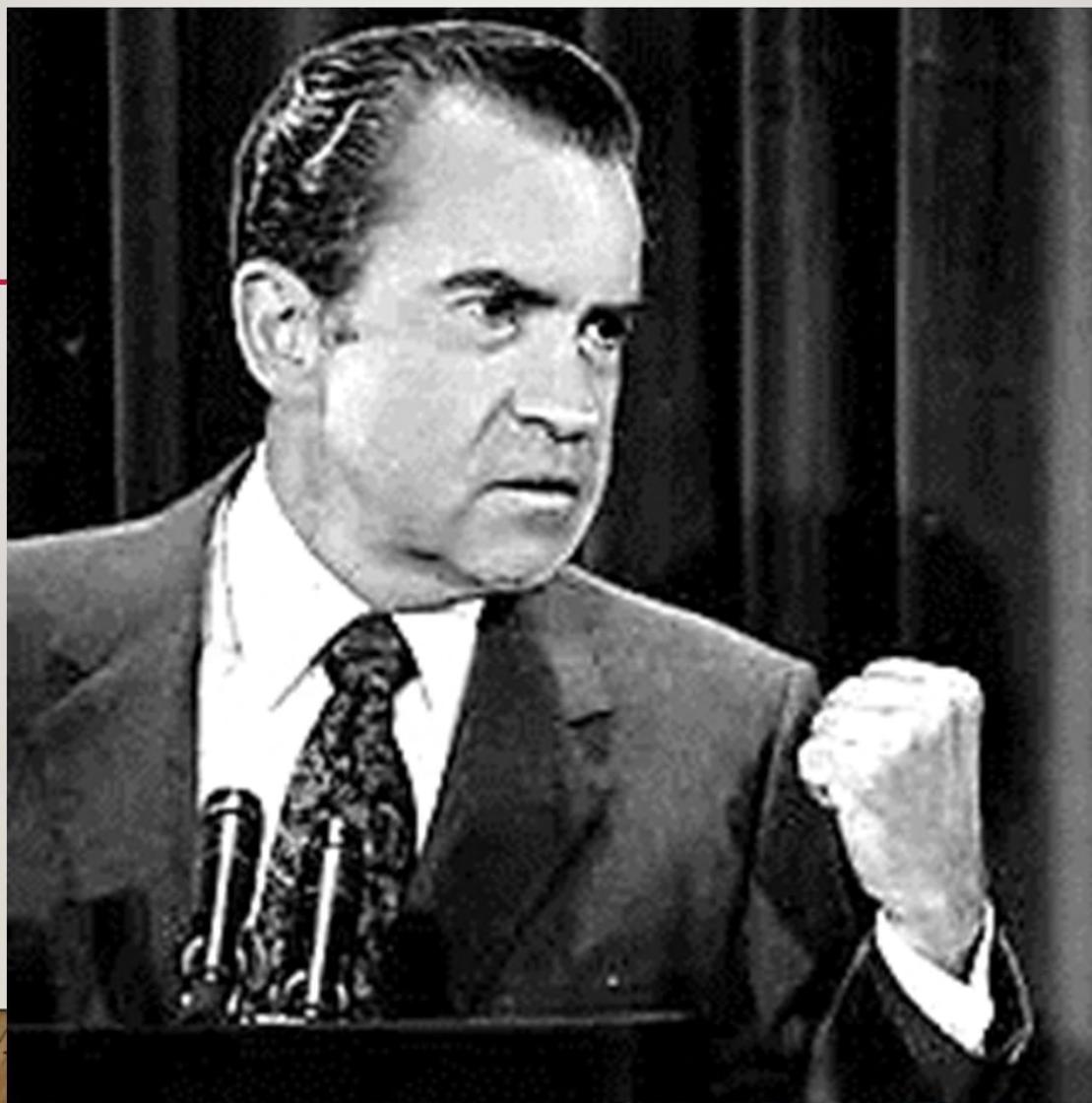
“Our children will enjoy in their homes electrical energy too cheap to meter...Transmutation of the elements, unlimited power, ability to investigate the working of living cells by tracer atoms, the secret of photosynthesis about to be uncovered, these and a host of other results, all in about fifteen short years.”

9.16.54 by Then-Chairman of the Atomic Energy Commission, Lewis L. Strauss

*20th Anniversary
National Association of Science Writers
September 16, 1954
Hotel Stetson, New York City*







WE'LL BE FIGHTING IN THE STREETS
WITH OUR CHILDREN AT OUR FEET
AND THE MORALS THAT THEY WORSHIP WILL BE GONE
AND THE MEN WHO SPURRED US ON
SIT IN JUDGEMENT OF ALL WRONG
THEY DECIDE AND THE SHOTGUN SINGS THE SONG







Mankind at the Turning Point

Mankind at the Turning Point

By Mihajlo Mesarovic and Eduard Pestel

The
Second Report
to The
Club of Rome





City Hall, August 8, 1978. President Carter signs bill to give Federal aid to New York City.

Produced by the Carter/Reagan Re-Elects in Committee, Inc.
© 1980 S. Strauss, Designer

“I have included in my morning and evening prayers every day, the prayer that the Federal government not bail out New York.”

Gov. Ronald Reagan

Re-Elect President Carter. A friend of America's cities.



THE NEW YORK TIMES BESTSELLER

"102 Minutes does for the September 11 catastrophe what Walter Lord did for the *Titanic* in his masterpiece, *A Night to Remember*. . . . Searing, poignant, and utterly compelling."

—Rick Atkinson, Pulitzer Prize-winning author of *An Army at Dawn*



102 MINUTES

THE UNFORGETTABLE
STORY OF THE FIGHT TO SURVIVE
INSIDE THE TWIN TOWERS

WITH A NEW POSTSCRIPT ON
THE 10TH ANNIVERSARY OF 9/11

JIM DWYER AND KEVIN FLYNN

10.20.17 \$1.00
DAILY NEWS
A COMMUNITY PAPER



TRUMP TO WORLD: DROP DEAD

- Pulls America out of historic climate pact
- Decides to hell with science, Earth's future

PAGES 6-7

**FIRST PART:
INVITATIONS
TO ENVIRONMENTALISM**

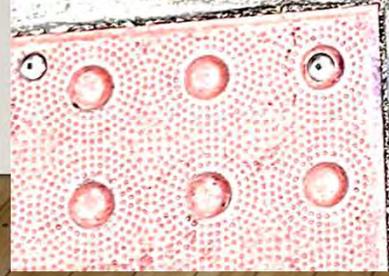
TOO MANY PEOPLE CALL THE ENVIRONMENT THEIR RELIGION LIKE MANY OTHERS CALL THEIR RELIGION THEIR RELIGION AND DON'T FOLLOW IT...

When the air or water are clean, thank an environmentalist. If not, become one. 'Nuff Said!



SEA LEVEL

BY



HOW MANY ENVIRONMENTALISTS IN THE ROOM?

HOW MANY OF YOU COMPOST FOOD WASTE?



"If it were a country, food waste would be the third highest emitter of greenhouse gases on Earth, behind only China and the United States."

-Oliver Franklin-Wallis

Wasteland: The Dirty Truth About What we Throw Away

7.25.19-
7.24.20
Totals (Lbs.)
365 Days

Paper	Metal-glass-	Compost	Garbage	TOTALS
-------	--------------	---------	---------	--------

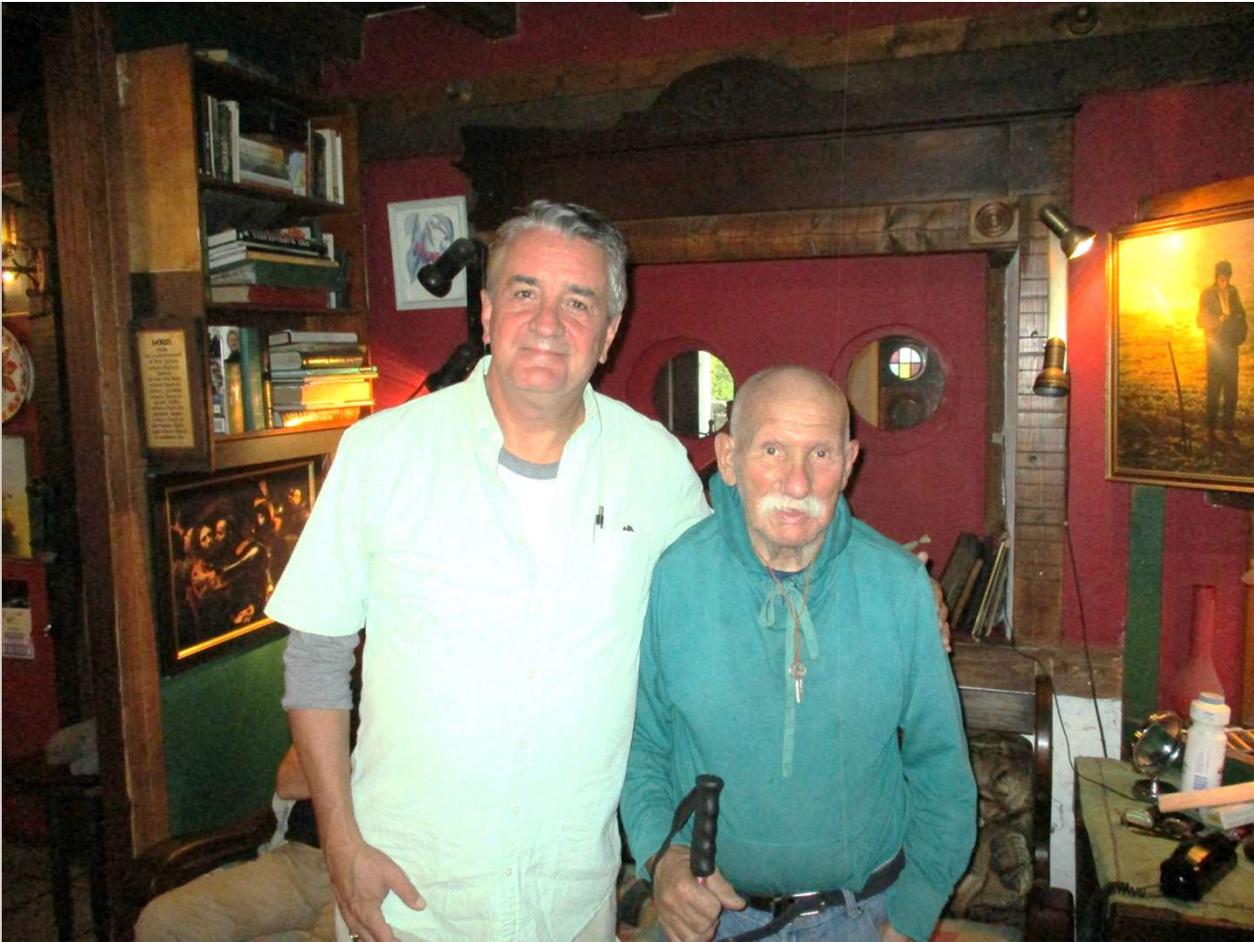


53.4	790.7
40%	2.16 lb/day
% of aste oto age	

LANGUAGE ISSUES?









NO-NOX
GULF
MOTOR FUEL

Resource Efficient Electrification/Decarbonization:

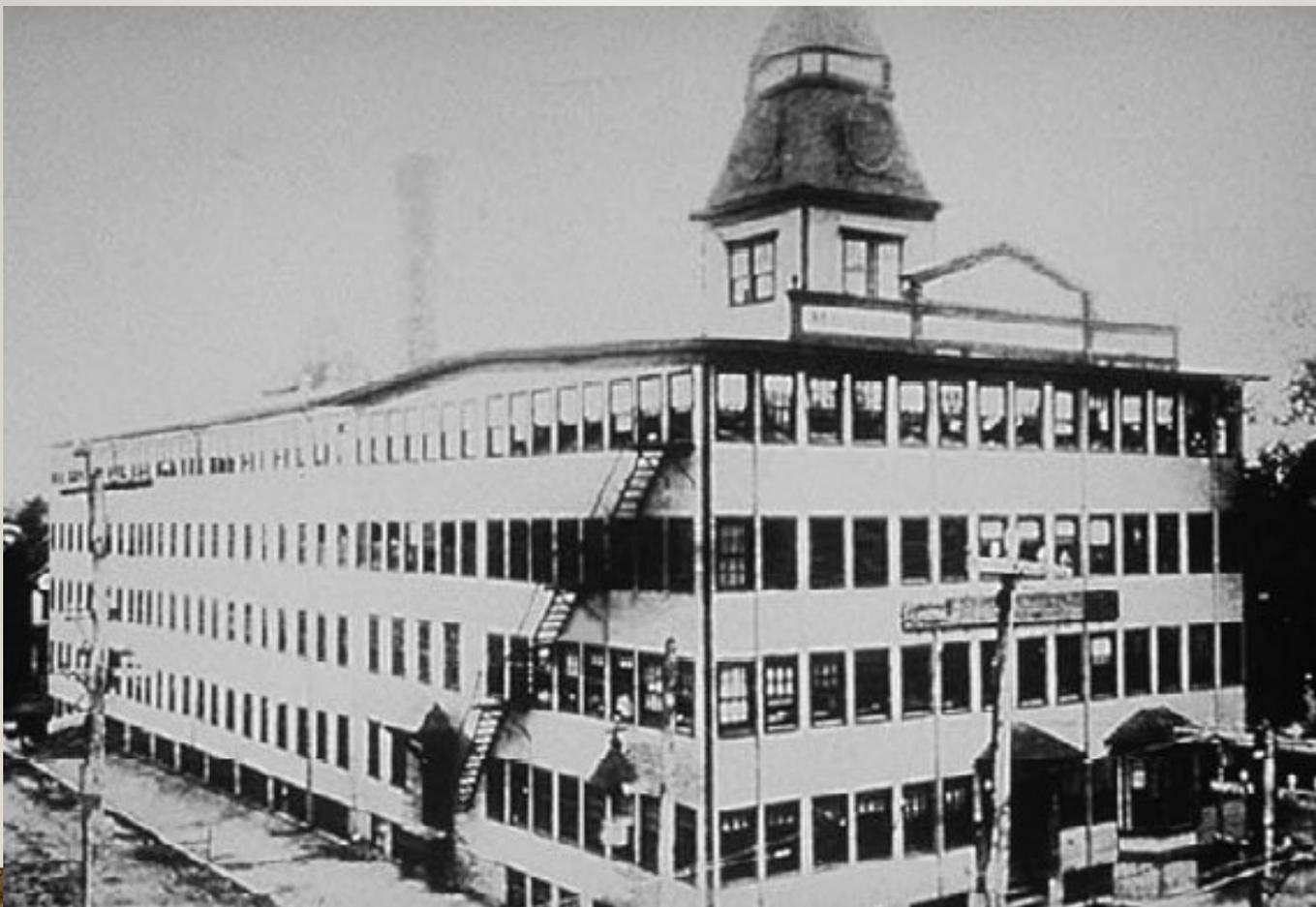
Creating an approach to building decarbonization at
scale while minimizing grid impacts

Mark Kleinginna | mark@emergentgroup.com
Jared Rodriguez | jared@emergentgroup.com

@Westford Symposium #24

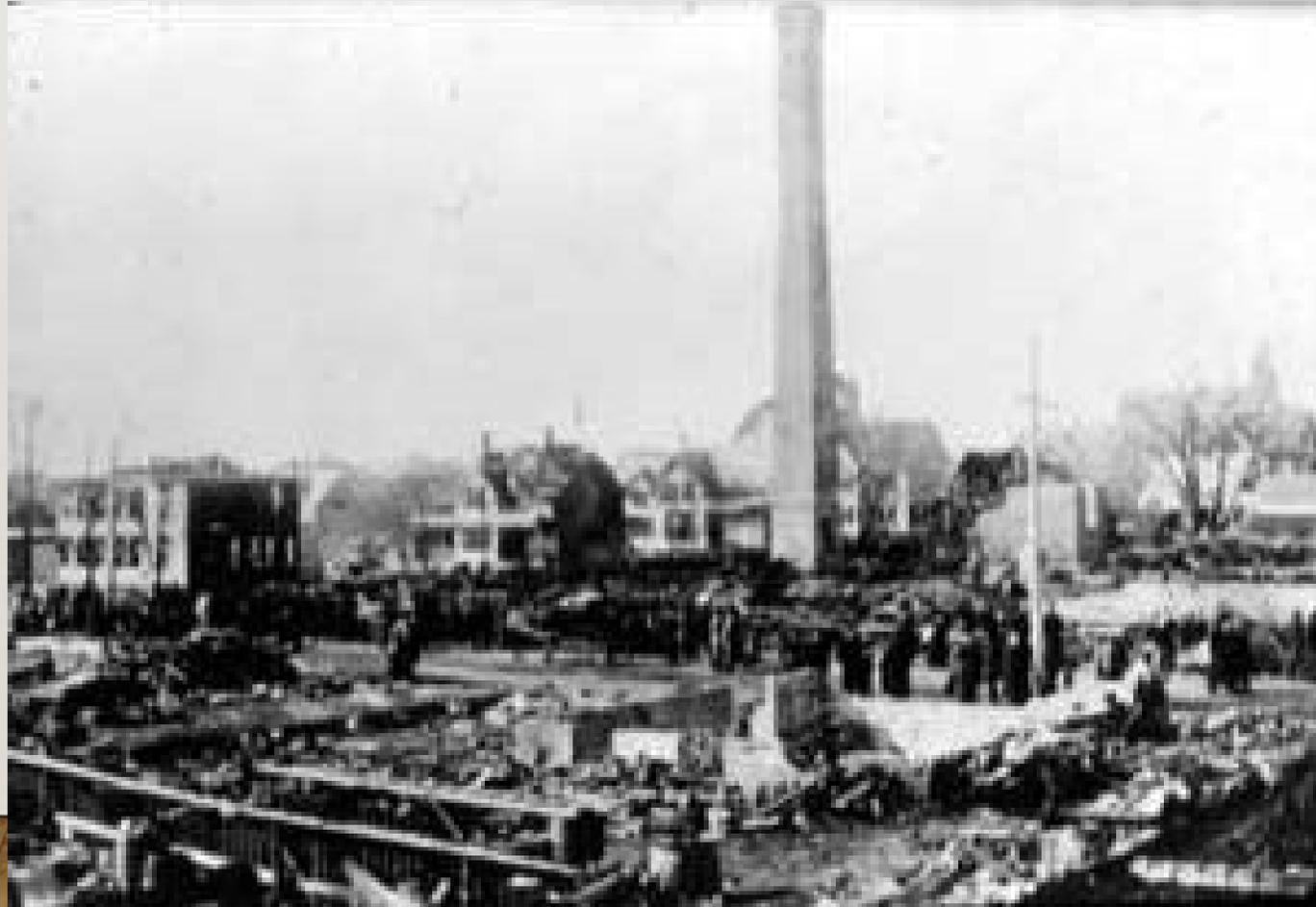
**THE NEXT PART:
WHAT I HAVE LEARNED ABOUT
STEAM HISTORY, REGULATION,
& GOVERNMENT PROGRAMS**

The R. B. Grover & Co. Shoe Factory, Brockton, MA March 19 1905



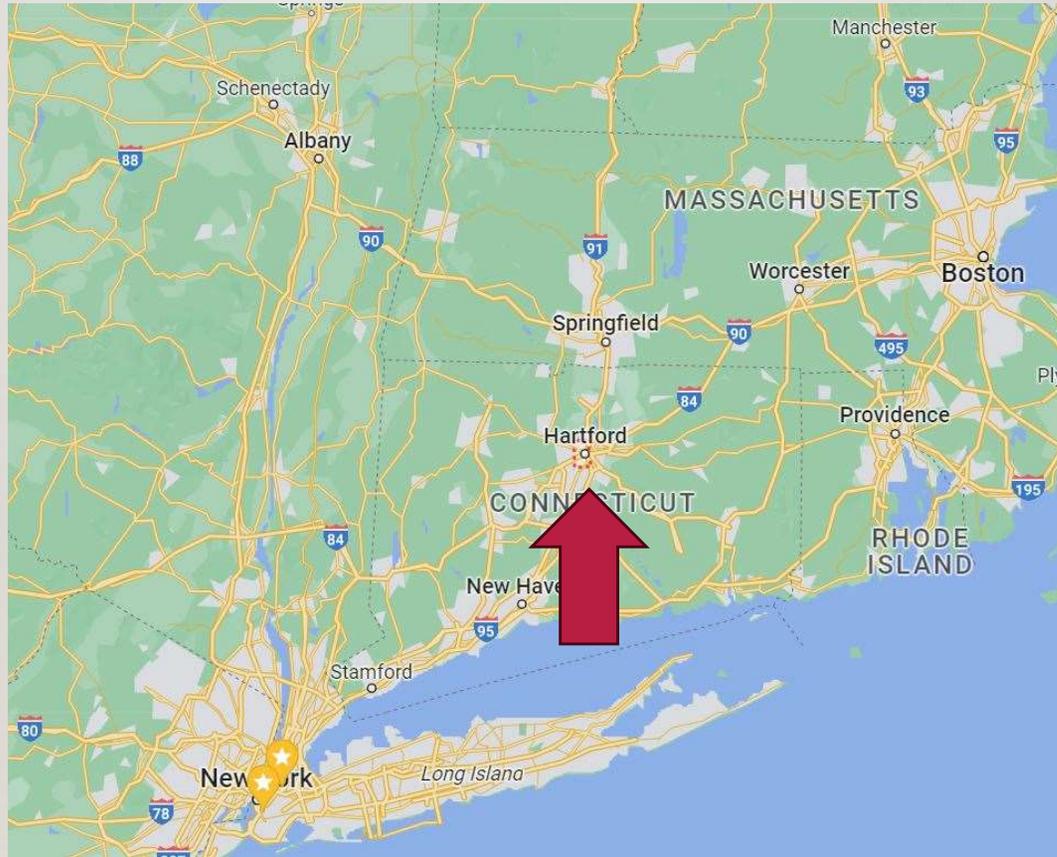
BROCKTON MA, MARCH 20 1905

On March 20, 1905, the steam boiler at R.B. Grover & Co. ripped through the four-story, wooden building, igniting a gas-fueled fire that raced through the building and beyond. The blast and fire killed 56 people that day, and more died later from their injuries. About 150 people were injured.





**The Hartford Steam
Boiler Inspection
and Insurance
Company
founded
June 30, 1866**

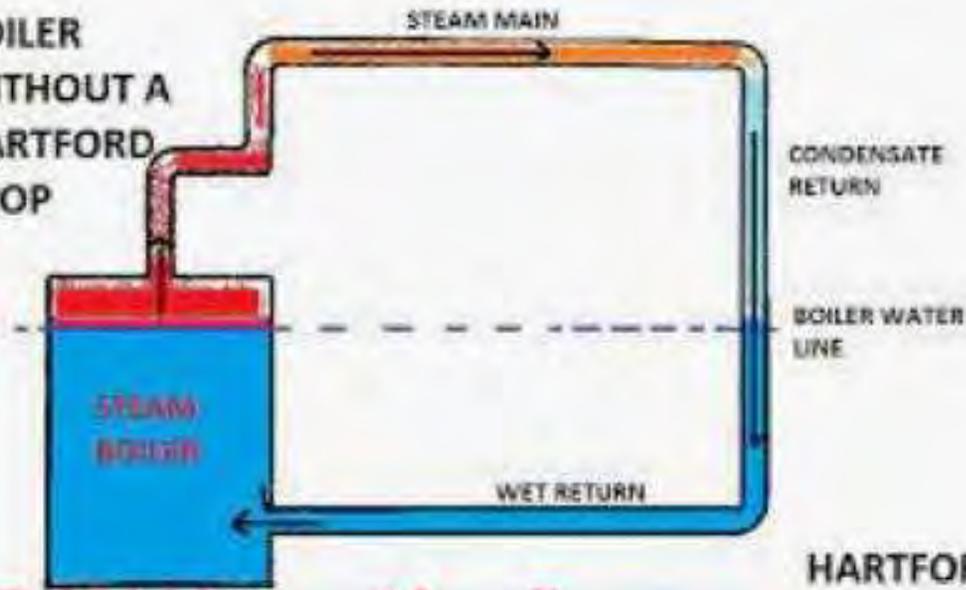


**1810
Hartford
Fire
Insurance
Company**

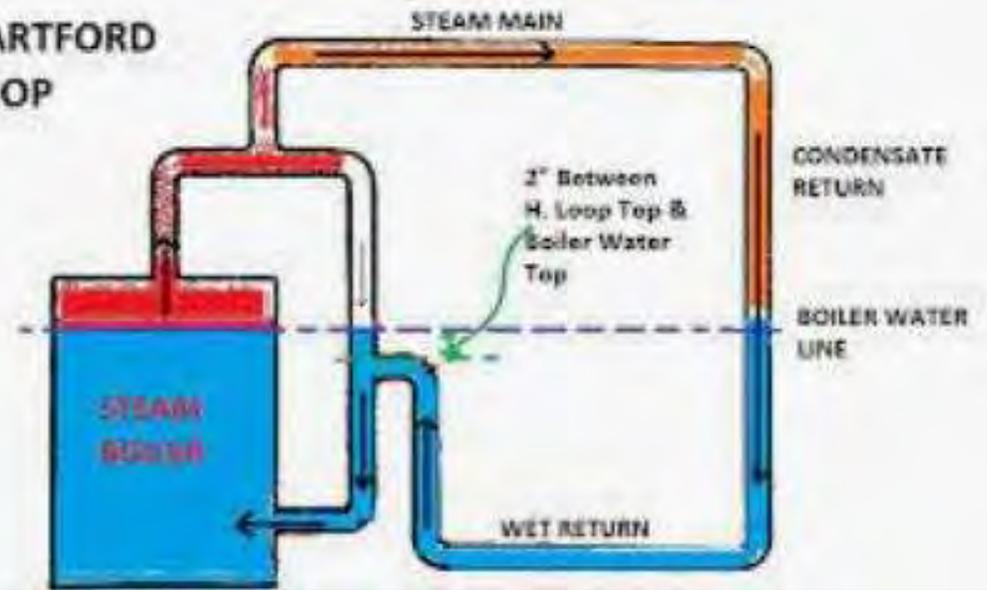
**As of today,
One Hundred
Insurance Co.'s
Headquartered
In Hartford CT**



BOILER WITHOUT A HARTFORD LOOP



HARTFORD LOOP



WE'VE LEARNED OUR LESSONS.....



ON AUGUST 19, 1989, AN UNDERGROUND STEAM PIPE EXPLOSION IN THE GRAMERCY PARK AREA OF MANHATTAN KILLED 3 PEOPLE, INJURED 24, AND RELEASED APPROXIMATELY 200 POUNDS OF ASBESTOS INTO THE GENERAL ENVIRONMENT. THE ASBESTOS CONTENT WAS ROUGHLY IDENTICAL TO THAT OF TRADE CENTER DUST IN LOWER MANHATTAN AFTER 9/11.

**NOVEMBER 1, 1994
CON EDISON ADMITS
THAT IT COVERED UP
EVIDENCE IN THE
STEAM PIPE EXPLOSION
IN GRAMERCY PARK
FIVE YEARS EARLIER.**





Switching to CFLs is a great idea. They can use 75% less energy than regular bulbs and last 10 times longer.



conEdison
ON IT | THE POWER OF GREEN

Visit conEd.com for 100+ ways to go green and save green. Find us on Facebook at Power of Green.

ON IT WITH BIO-DIESEL POW

72480

USDOT#106673

DO AS I SAY, NOT AS I DO.....

MOST IMPORTANT RESIDENTIAL BUILDING LOCAL LAWS?

LOCAL LAW 152: GAS INSPECTION COVERS THE REQUIREMENTS FOR GAS PIPELINE INSPECTION AND REPORTING, AND WHERE THE BUILDING'S RESPONSIBILITIES LIE.

LOCAL LAW 11: FISP COVERS THE FAÇADE INSPECTION AND SAFETY PROGRAM, AS WELL AS THE REPORTING DUTIES OF BUILDING OWNERS.

LOCAL LAW 147: SMOKING POLICY COVERS THE LAWS ON BUILDING-WIDE SMOKING POLICIES AND THE DISCLOSURE OF REGULATIONS AROUND SMOKING.

LOCAL LAW 195: FIRE PROTECTION/EVACUATION PLAN COVERS FIRE ALARMS AND FIRE PROTECTION PLANS, AS WELL AS THE REPORTING OF THOSE MATTERS.

LOCAL LAW 55: INDOOR HEALTH HAZARDS COVERS THE PROCEDURE FOR TREATING VERMIN, ROACHES, AND OTHER INDOOR ALLERGEN HAZARDS IN RESIDENTIAL BUILDINGS.

LOCAL LAW 97: BUILDINGS EMISSIONS LAW COVERS REQUIREMENTS FOR ENERGY EFFICIENCY AND GREENHOUSE GAS EMISSIONS.

LOCAL LAW 154: CONSTRUCTION ON A RESIDENTIAL BUILDING COVERS REQUIREMENTS WHEN CONSTRUCTION OR REPAIRS ARE BEING CARRIED OUT IN A BUILDING WHERE PEOPLE ARE LIVING.

LOCAL LAW 87: ENERGY AUDITS AND RETROFITTING COVERS REQUIREMENTS FOR REPORTING ON, AND ADDRESSING, ENERGY EFFICIENCY IN RESIDENTIAL BUILDINGS.

LOCAL LAWS 92 AND 94: SUSTAINABLE ROOF ZONES COVERS THE REQUIREMENTS FOR CREATING A SUSTAINABLE ROOF ZONE AND THE CONDITIONS THAT WOULD MANDATE SUCH A ZONE.

BLC 727: PREVENTING CONFLICT OF INTEREST COVERS THE REPORTING REQUIREMENTS FOR CO-OP BOARD MEMBERS TO PROVE THAT THEY HAVE NO CONFLICT OF INTEREST.



Please
hold
flush button
down for
10 seconds.



Please
hold
flush button
down for
10 seconds.



Personal Finance ▼ Economy ▼ Markets ▼ Watchlist Real Estate ▼ Tech ▼ Video More ⋮

Login

Watch TV



ENERGY · Published July 3, 2023 4:52am EDT

States to sue EPA over 'damaging' environmental impact of residential wood-burning stoves

Attorneys general from 10 states accuse EPA of failing to review and ensure emissions standards

<https://www.foxbusiness.com/energy/states-sue-epa-damaging-environmental-impact-residential-wood-burning-stoves>

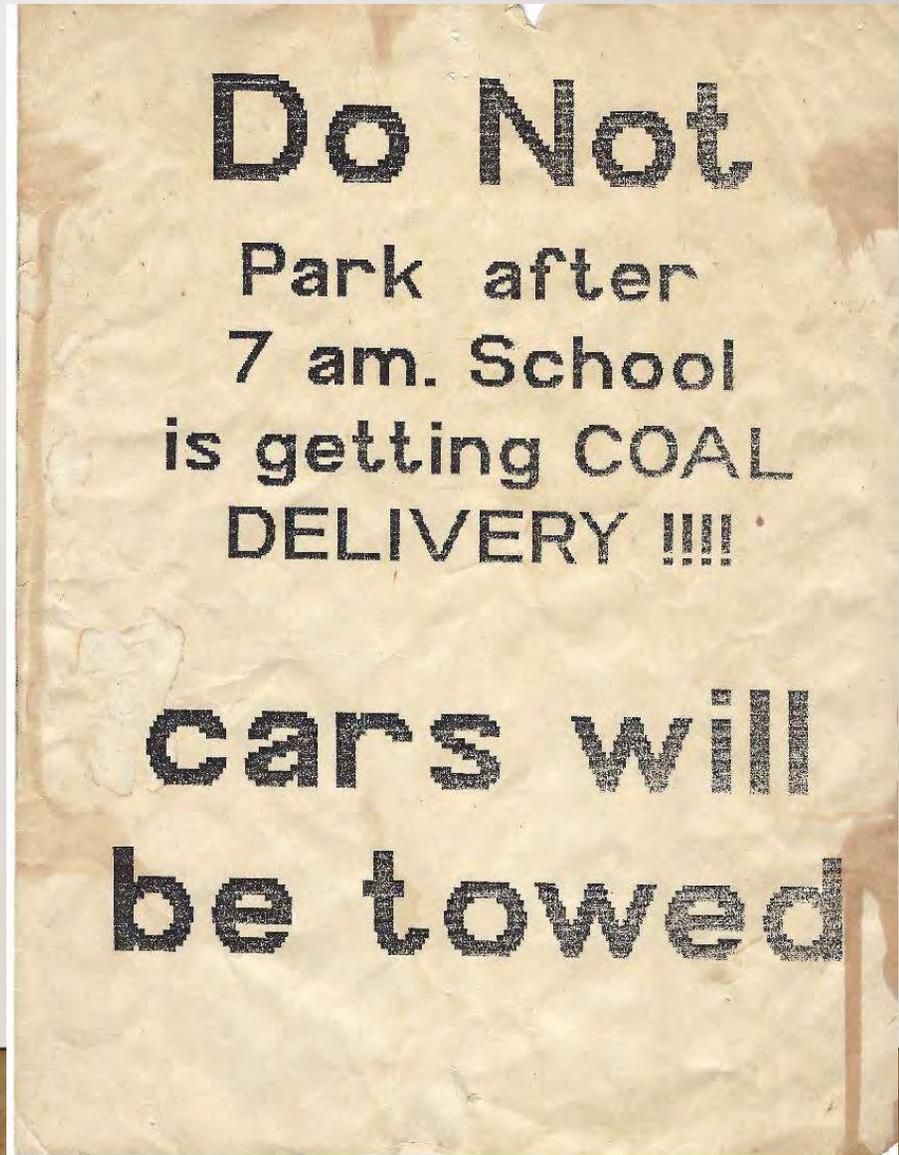
NYC rules crack down on coal-, wood-fired pizzerias — must cut carbon emissions up to 75%

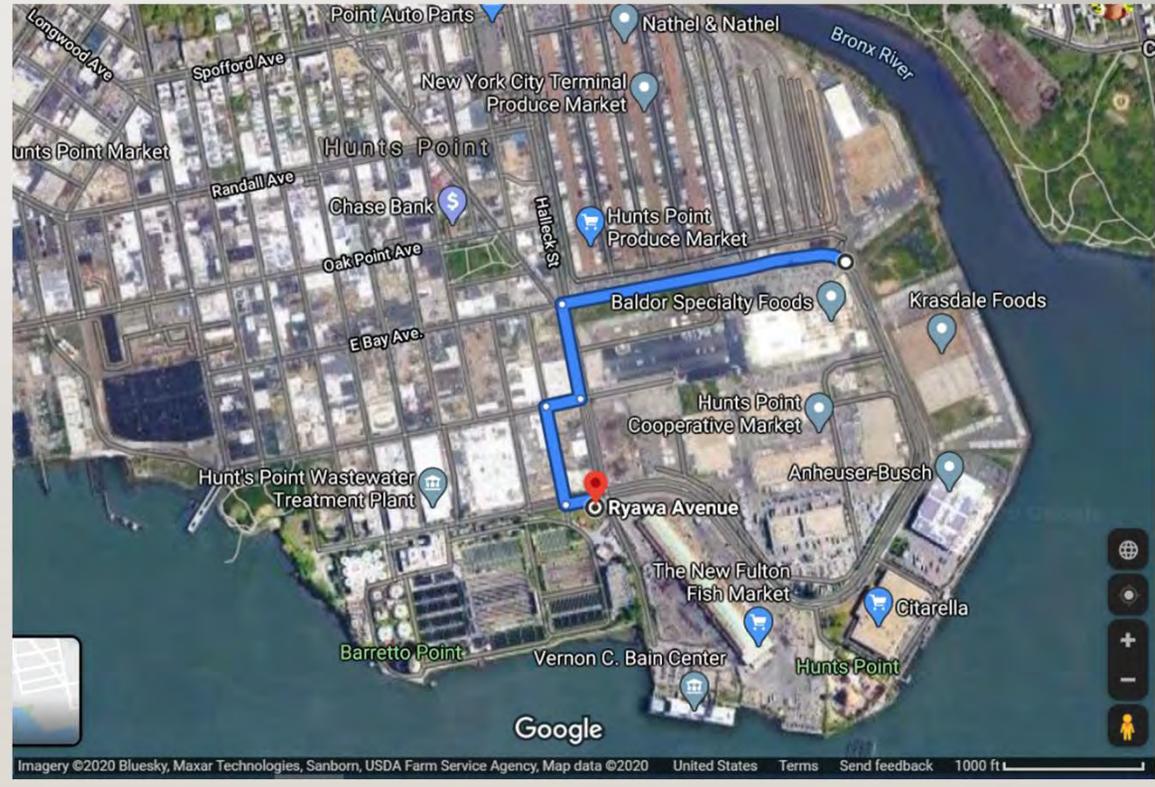


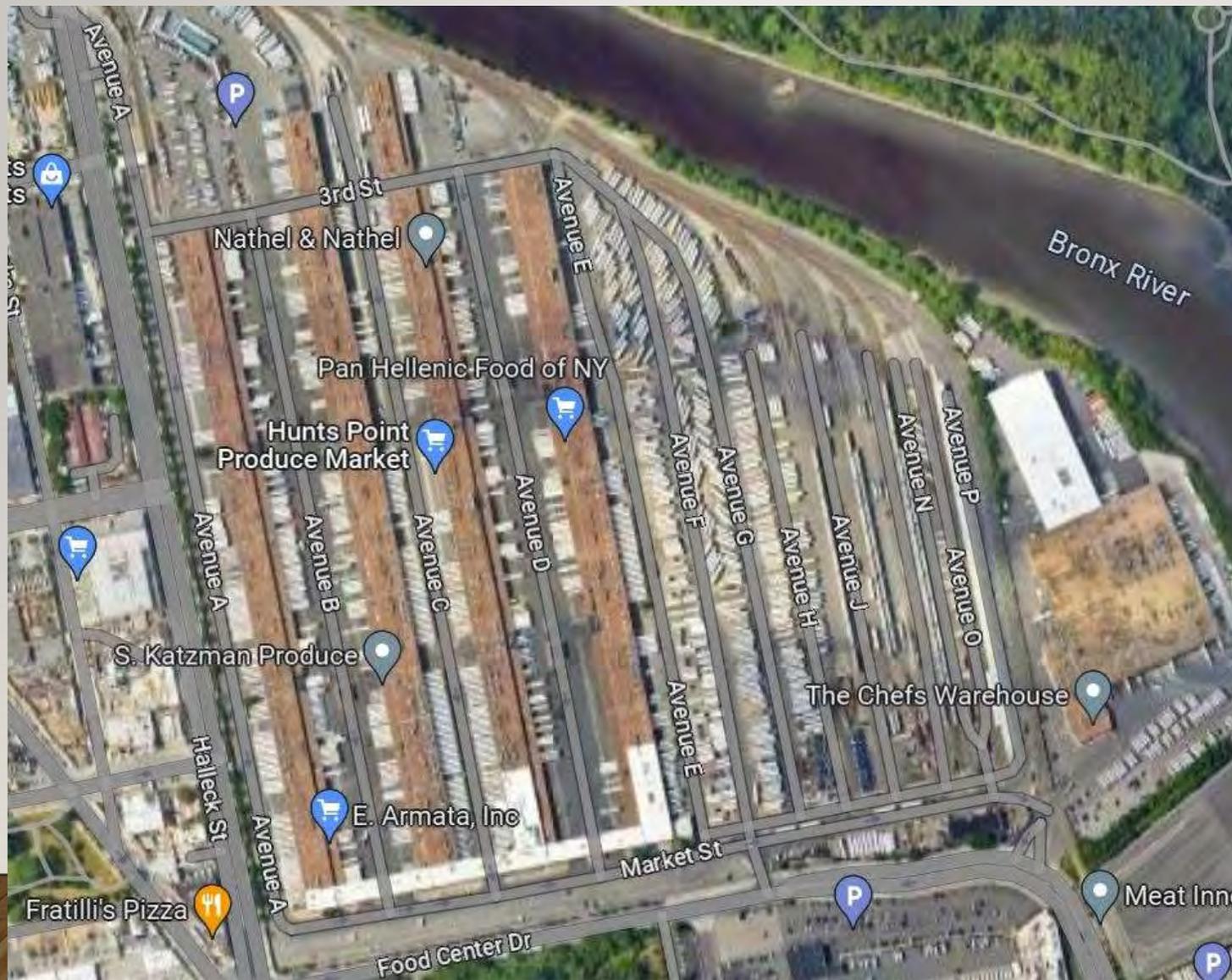




“When you see all the ashcans outside, you know it’s our school,” says a project manager for the New York City School Construction Authority (2.9.2000 Education Week)





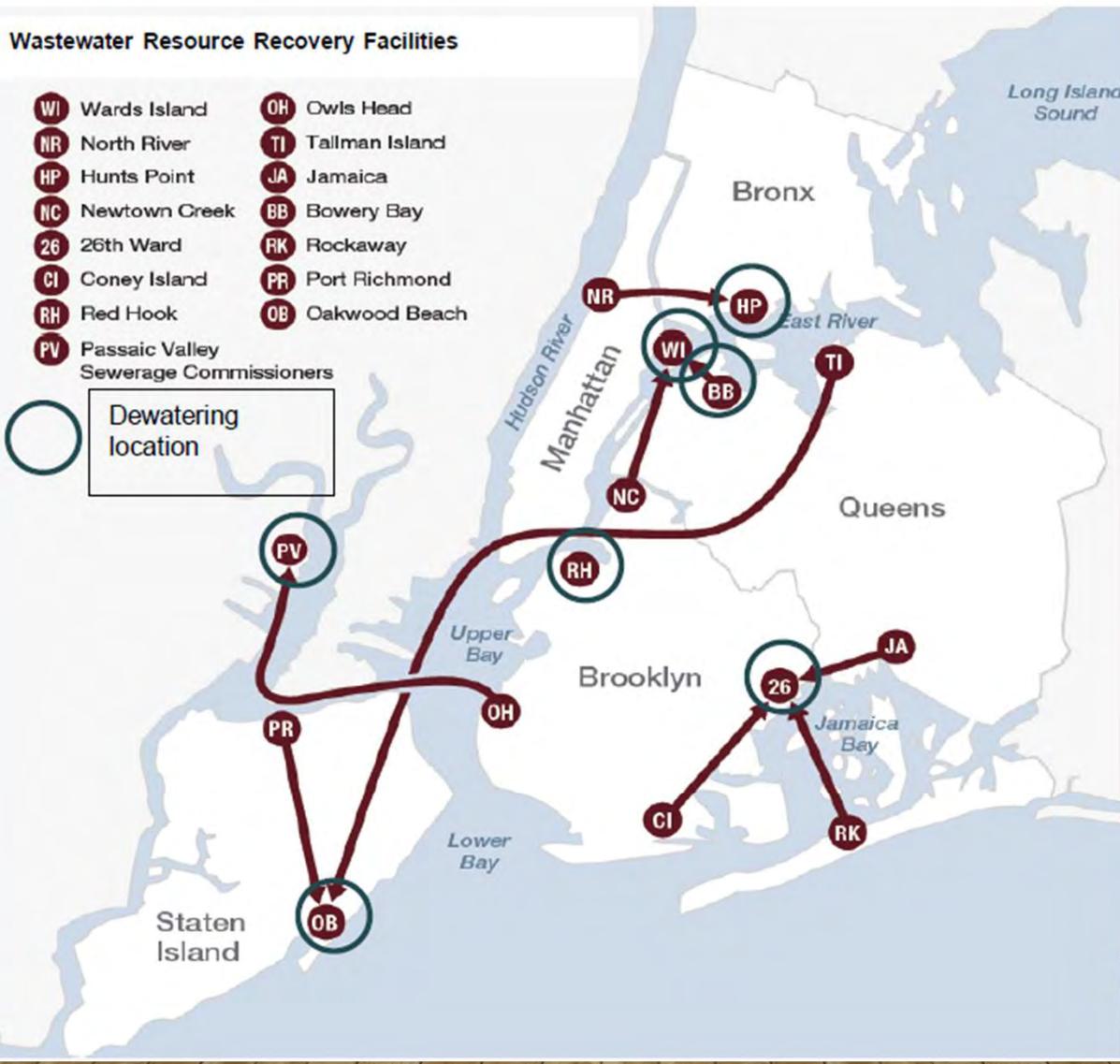


1000
Idling
Trucks?

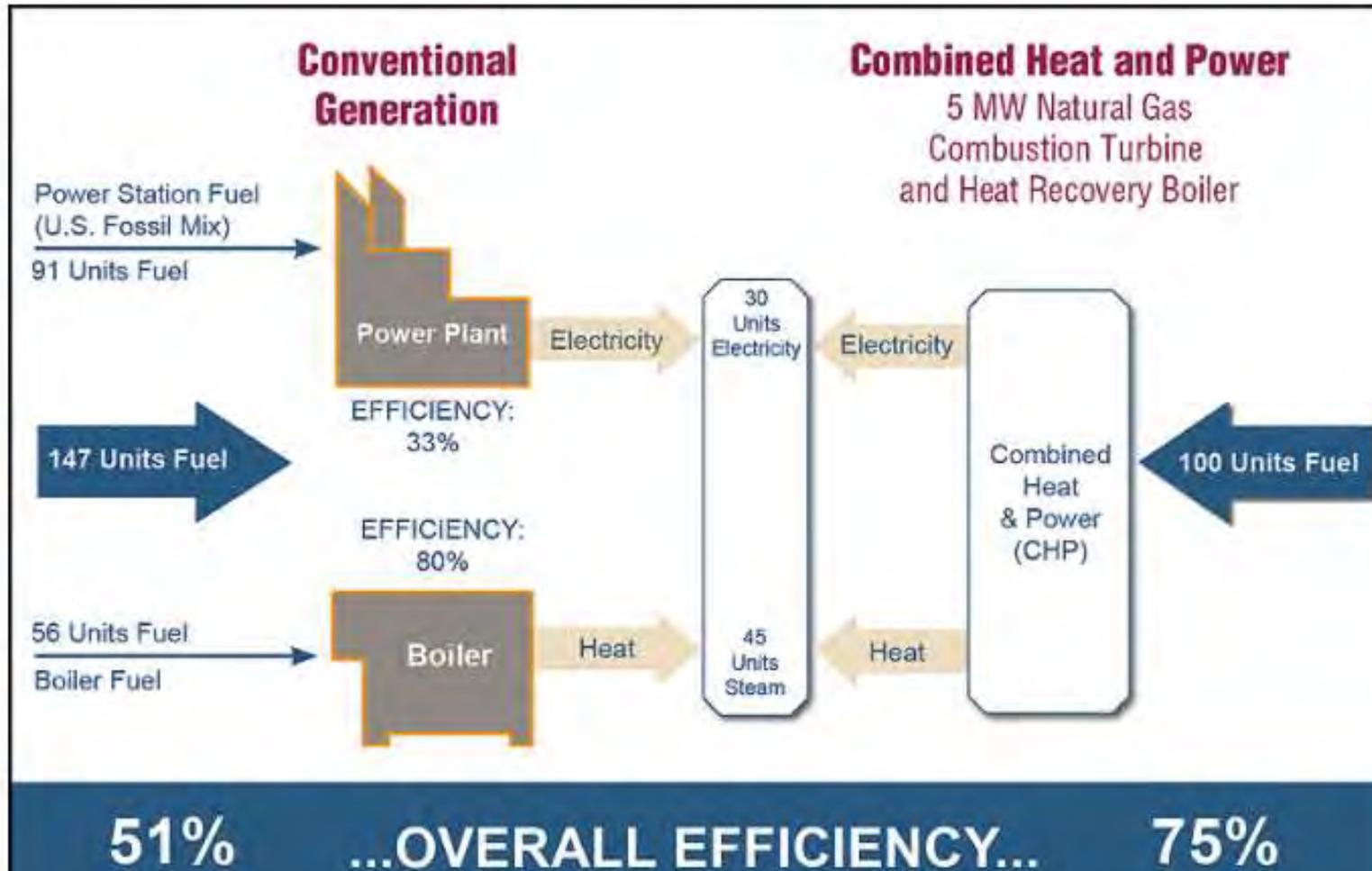
Wastewater Resource Recovery Facilities

- | | |
|-------------------|-------------------|
| WI Wards Island | OH Owls Head |
| NR North River | TI Tailman Island |
| HP Hunts Point | JA Jamaica |
| NC Newtown Creek | BB Bowery Bay |
| 26 26th Ward | RK Rockaway |
| CI Coney Island | PR Port Richmond |
| RH Red Hook | OB Oakwood Beach |
| PV Passaic Valley | |
- Sewerage Commissioners

 Dewatering location



Conventional Generation vs. CHP: Overall Efficiency



Source: US EPA: <https://www.epa.gov/chp/chp-benefits>

**THE NEXT PART:
BEING PAID TO
LEARN STUFF**





The Cold-Air Cops

by Roger Rawlings



Two Canadians make a business of arresting heat leaks. Their advice could retrieve your lost cash.

Sebastian Moffatt and Brendan Reid are experts at cutting fuel bills. Co-owners of Retrospectors, a Canadian company devoted to helping people improve the energy efficiency of their homes, they helped design inspection methods for Canada's national home energy auditing program. They've written several publications for the Canadian government, including a manual that tells homeowners about practical home weatherization techniques.

Sebastian and Brendan have their offices at 176 Bronson Avenue in Ottawa, a city where midwinter temperatures often fall as low as -40°F. The experience they've gained fighting that kind of climate makes their opinions worth listening to, even if you live in a balmy part of the world.

Recently I visited the Retrospectors.

"Every house is full of holes," Sebastian said. "The art of home weatherization can be reduced to two simple steps: 1) Find the holes, and 2) Plug them."

"When people set about improving their homes' energy efficiency," he continued, "they automatically think of insulation. That's fine. But there's something else they should think about that would be much more effective: using caulk and weatherstripping to seal the leaks in their houses."

Up to half the heat loss in a typical home is caused by openings that permit heated indoor air to escape and cold outdoor air to enter the house. Accord-

ing to Sebastian, sealing these openings is the first priority. "You definitely should do it before you insulate," he said. "For one thing, caulk and weatherstripping are considerably cheaper than insulation. For another, insulating your home does very little good if the indoor air can simply bypass the insulation and escape to the outdoors. I've been in insulated attics that were actually toasty because so much warm air was reaching them from the rooms below. The owners of those houses were getting very little benefit from the insulation they had installed."

Brendan named a couple of other reasons to seal your house before insu-

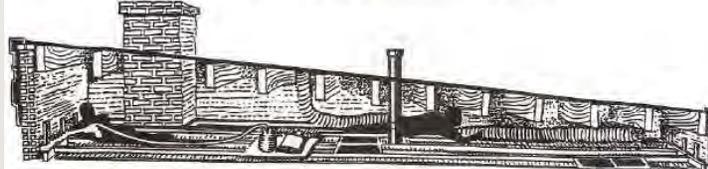
lating. "It's far easier to find the leaks and plug them before you bury them under insulation," he said. "If household air is leaking into your attic and you proceed to spread insulation up there, you may actually have to pull up some of the insulation again—a very unpleasant job—to get at the leaks."

"Then there's also a potential problem with moisture. Imagine the situation if you insulate a wall without taking care of any cracks in the wall first. Moist air from the house would be able to enter the wall, and, because the insulation had lowered the temperature inside the wall, condensation could accumulate there. At the least, condensed water vapor

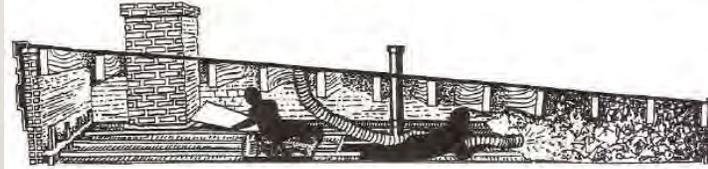
PHOTOGRAPH BY BILL EDWARDS



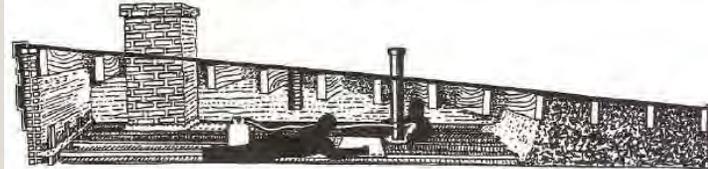
Inspect for roof leaks, and weak ceilings. Note bypass locations from below (duct chases, closets, ceiling height changes, etc.). Cut an access hole big enough for a person but small enough for a roof vent.



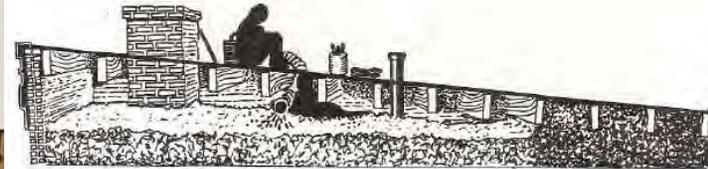
Crawl to rear as far as possible and seal accessible bypasses. Dense-pack rear wall perimeter and unreachable bypasses up to roof deck. Other crawler can directly seal bypasses in front section such as turring space shown.



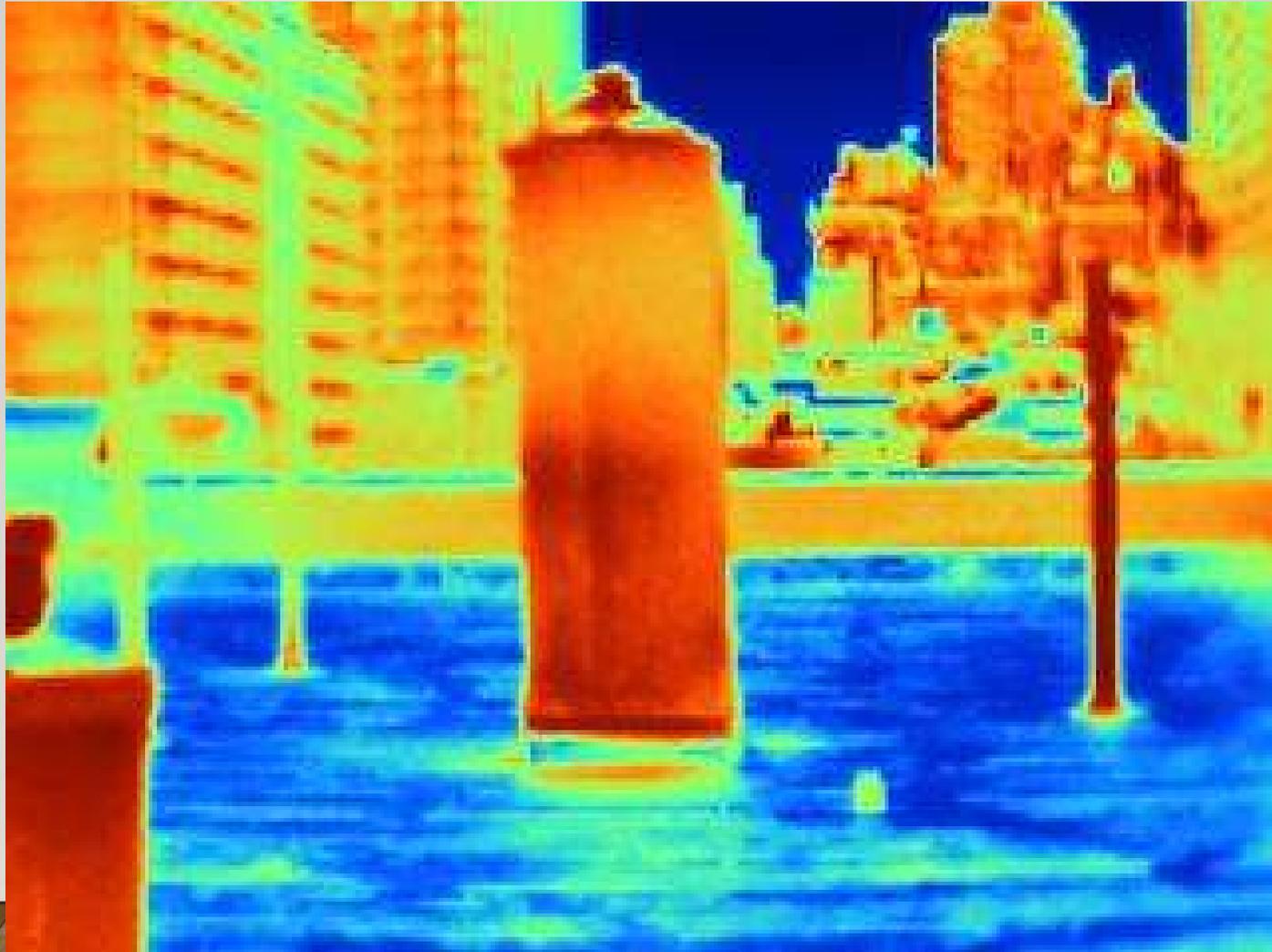
Rear crawler continues to dense-pack while the front crawler directly seals more bypasses. Here, the chimney chase has been sealed and the adjacent duct chase is being capped and sealed.



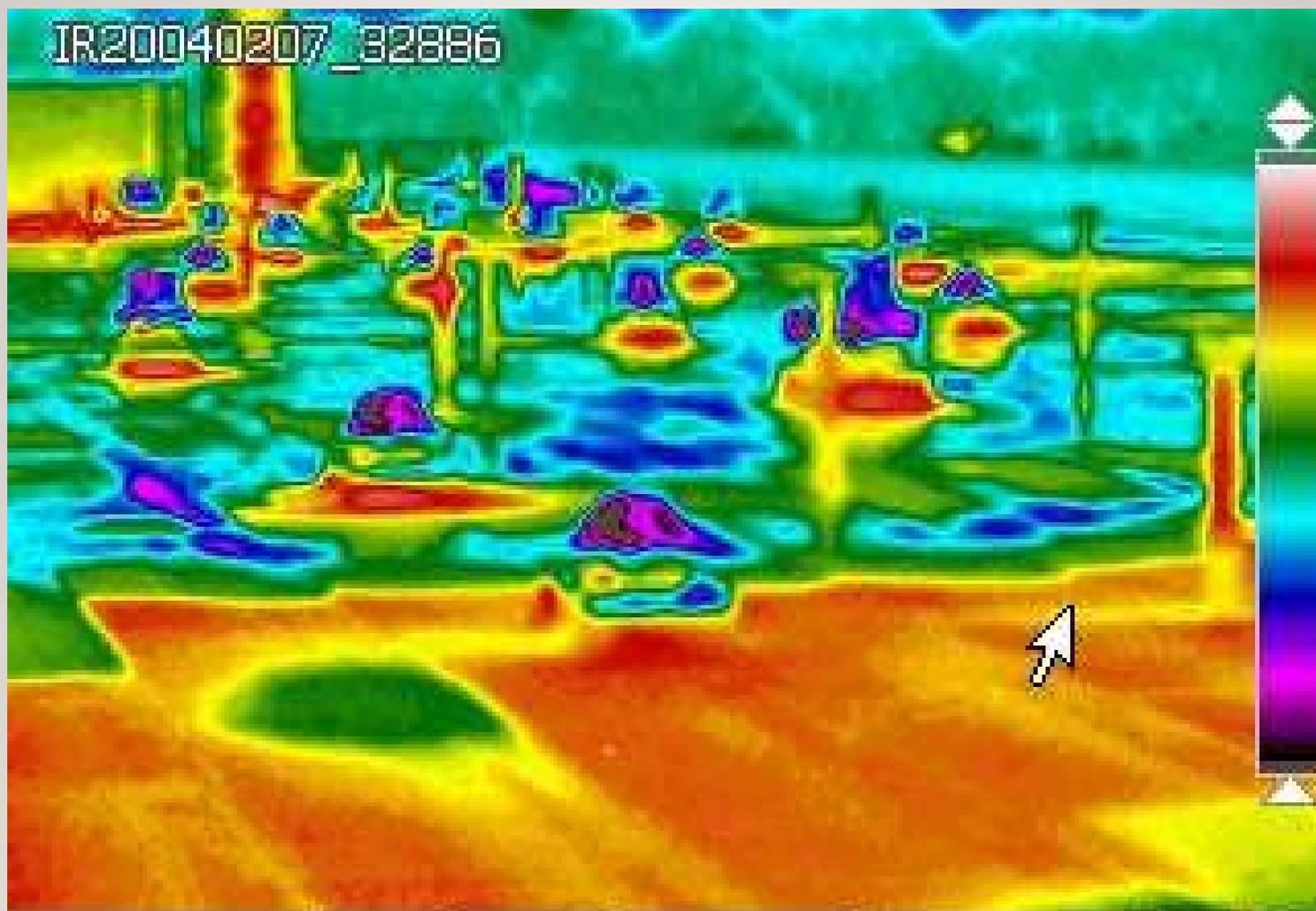
After dense packing is done, both crawlers continue to seal bypasses. Here, front crawler is capping drop ceiling closet while rear crawler is foaming plumbing stack bypass.



After all bypasses have been sealed, insulation blowing can be completed by one crawler. Be sure to allow for settling—read the bags and check your work with a bag count.







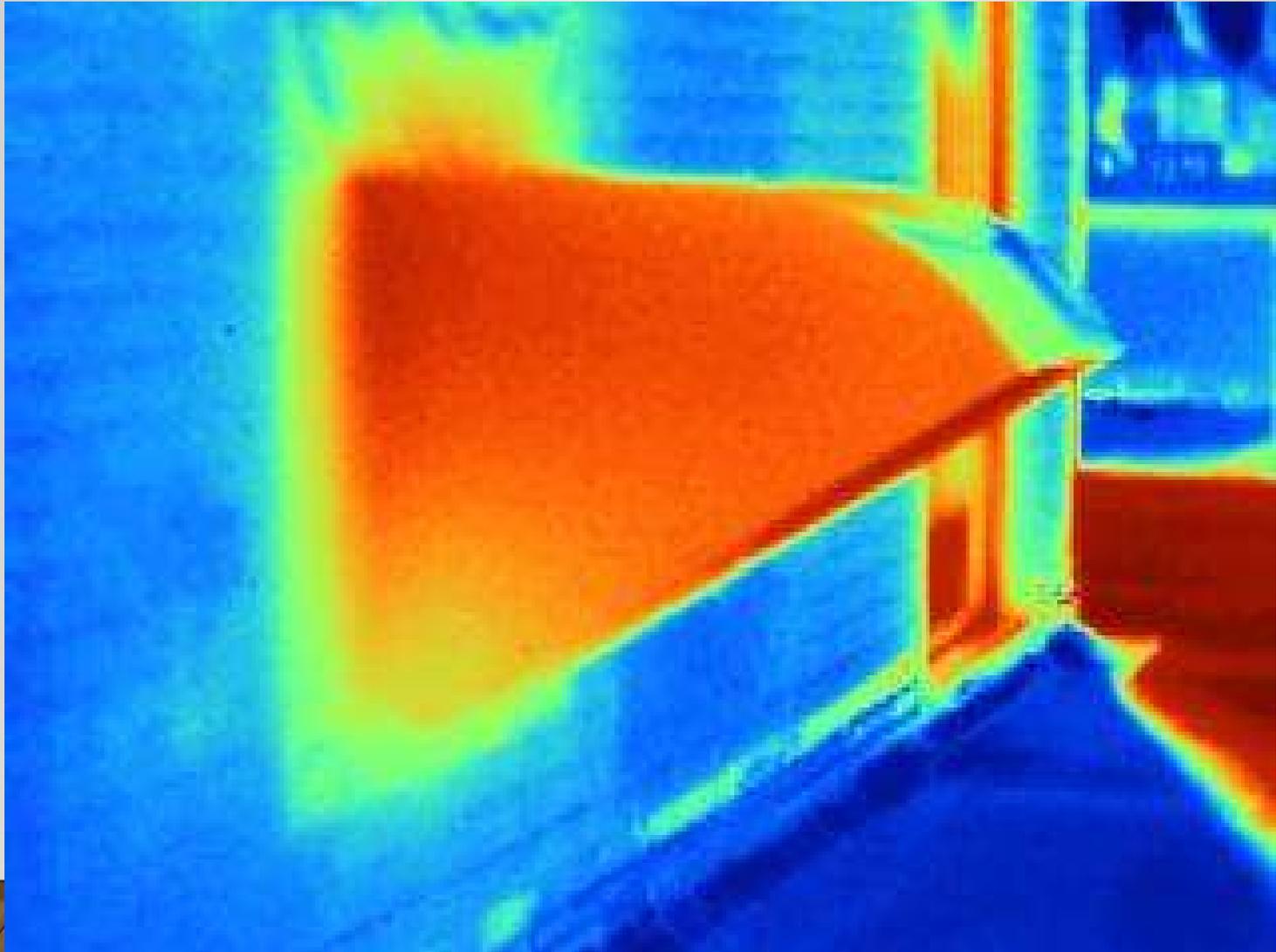
F1

F2

02-07-04

11:27







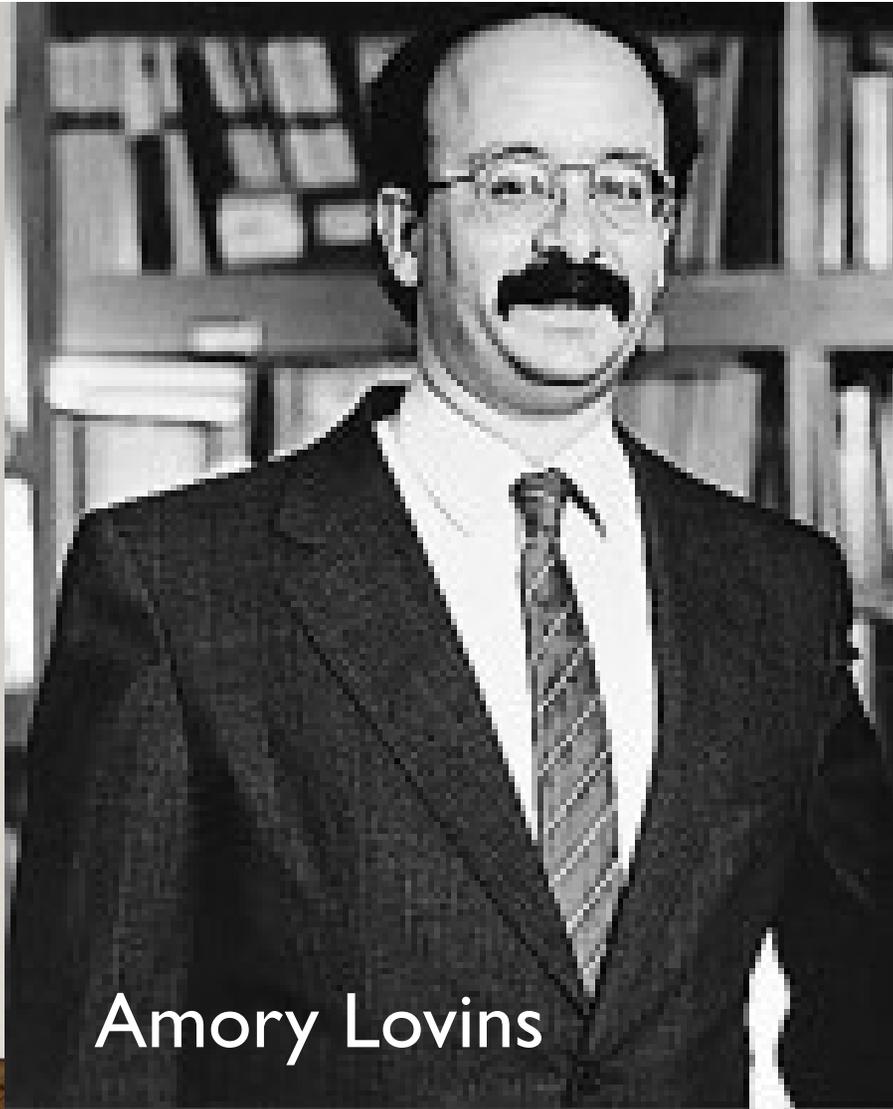




OLDER
AH-101
100V

100
MADE IN
JAPAN

GE

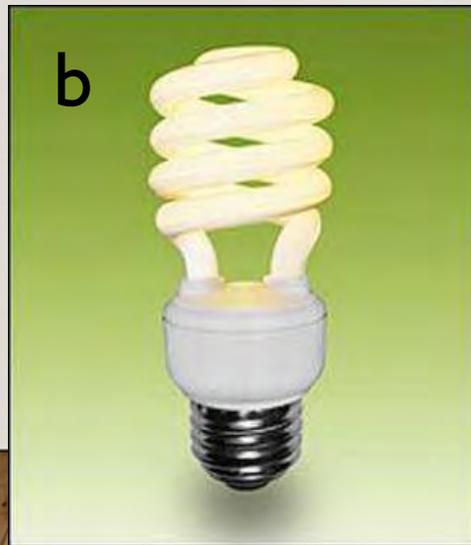
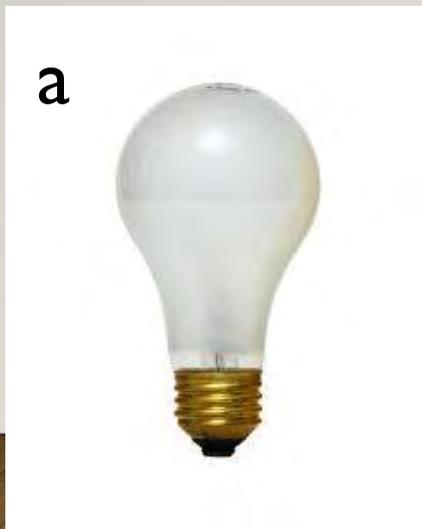


Amory Lovins



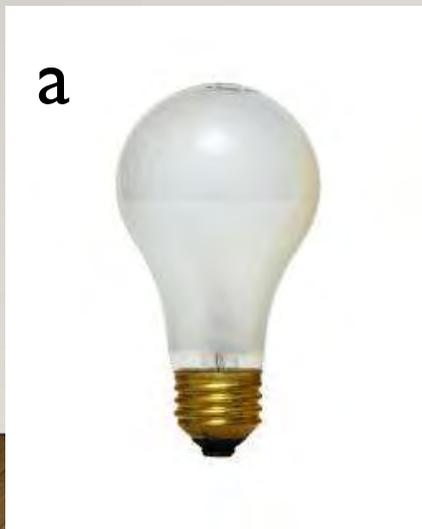
INCANDESCENT VS. FLUORESCENT VS. LED BULBS

**A word problem (very difficult for adults to understand):
You can buy a bulb that a) lasts 9 weeks and costs \$30.50;
or a bulb that b) lasts 14 months and costs \$66;
or a bulb that c) lasts 5.7 years and costs \$104.**

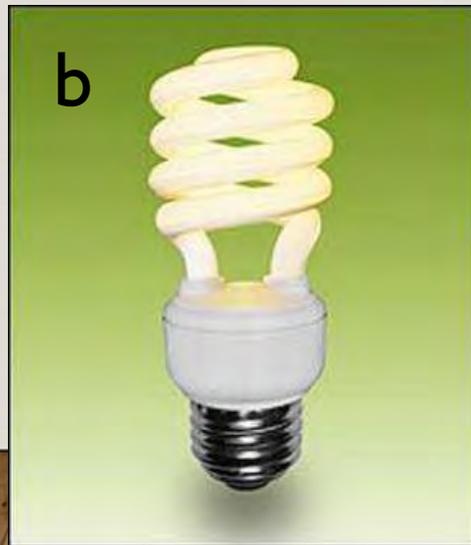


INCANDESCENT VS. FLUORESCENT VS. LED BULBS

**48
Cents/
day**



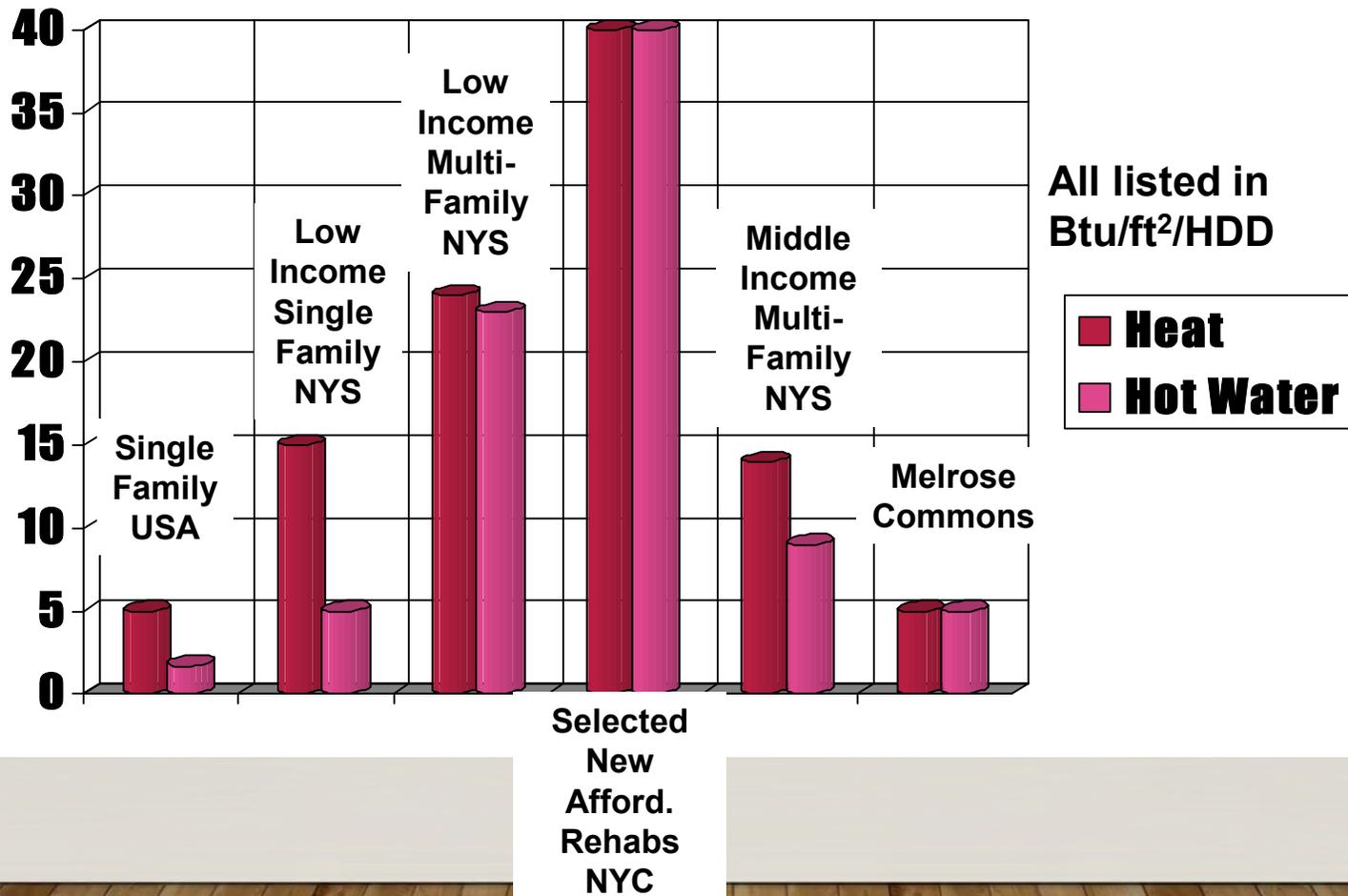
**15.5
Cents/
day**



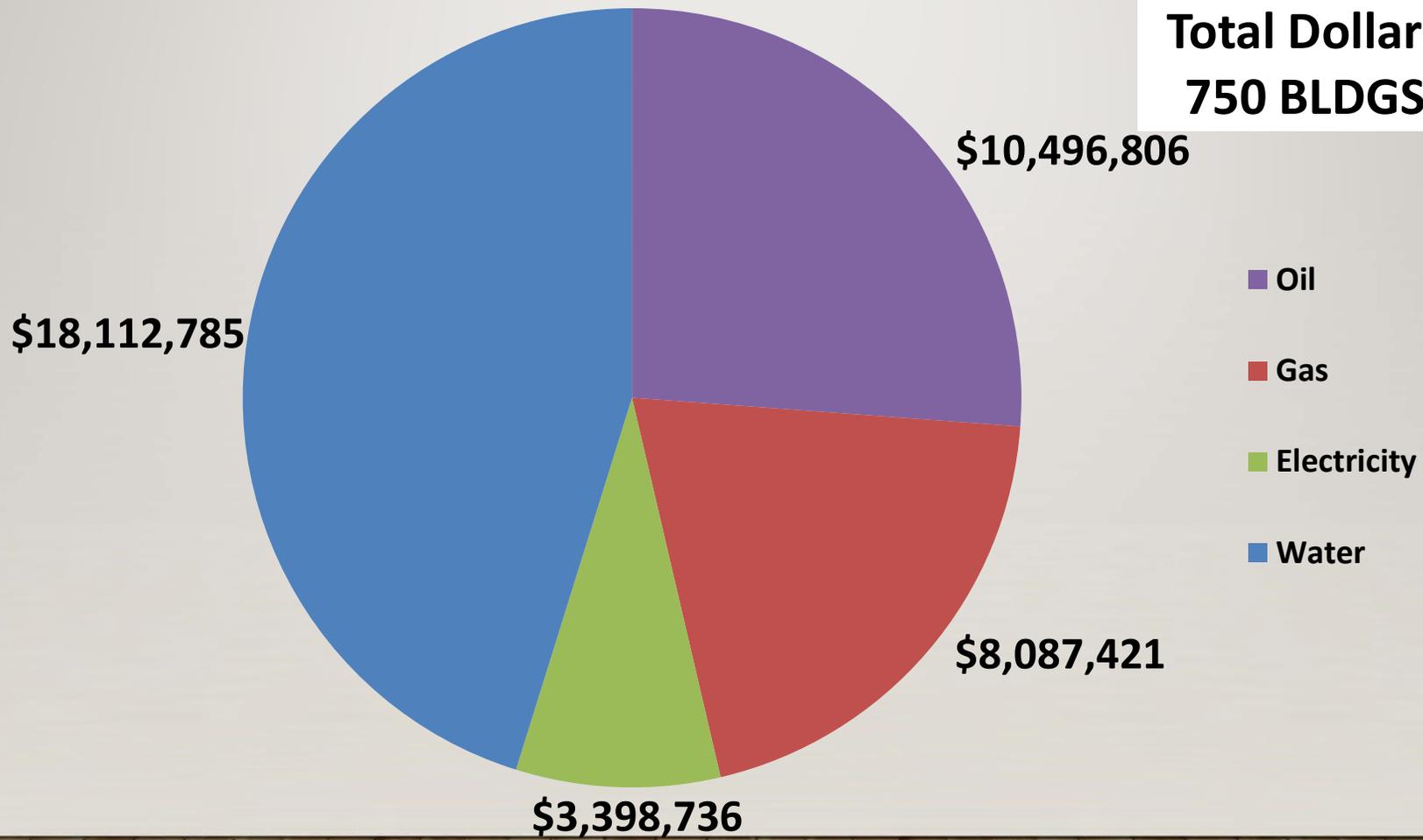
**4.99
Cents/
day**



RANGE OF ENERGY USAGE IN BUILDINGS



**MF M&O Data
Total Dollars
750 BLDGS**





This former 1873 engineering school converted to senior housing got attic air sealing and insulation. With heating and DHW replacement without raising historic preservation flags south of Albany NY.

22% Gas Savings





The Auburn Housing Authority replaced every 1950's furnace and hot water maker in every unit, and replaced 19 roofs using HA funds. Lighting and refrigerators were also done in every apartment. Master metered for gas and electric, the building documented savings of 26.2% reduction in heating gas usage and 54.8% reduction in hot water and stove usage. All this considering since the retrofit, vacancy has gone from 20% to 3%.



This 131 unit electric heated, individually metered building had apartment airsealing performed and saw an average CFM 50pa reduction of 24%. New gas hot water makers were installed to replace older models. Common area and apartment lighting, refrigerators, and low flow showerheads and aerators were also installed. In less than one month, the building saw recorded 46% reduction in gas usage and 21% reduction in water usage. Apartment electric bills reduced by 25%.. North Street Apartments Canandagua, NY



James Geddes Houses, a two block complex of the Syracuse Housing Authority that includes both low rise and towers, was retrofitted with sealed combustion furnaces, hot water makers, wall insulation in the low rise, and lighting, refrigerators, showerheads and aerators in all apartments. Another master metered building for gas heat and tenant electric, and another building where local private crews were kept employed. Buildings showed 26 to 41% reduction in base usage, and up to 23% reduction of heating usage.



Financing Issues



SOME ISSUES AND CONCERNS.....

- Worked for a bank for 10 years
- Loan officers and 4th Grade Mathematics
- Graduate Level Commercial Loan Class at NYU Stern
- I'm not doin' that Green
- Owners:Windows,Windows,Windows,Windows
- Virtually no financing “packagers” or experts
- Tax Credit, Deduction, Depreciation, Grant, Loan
- Dsireusa.org? Residential vs. Commercial vs. ?????

REDUCING YOUR ENERGY COSTS AND USING INCENTIVES

A GUIDE FOR OWNERS TO:

- **ASSESS THEIR ENERGY USE AND COST IN COMPARISON TO OTHER BUILDINGS**
- **USE GOVERNMENT AND UTILITY INCENTIVES TO HELP PAY FOR IMPROVEMENTS**
- **MAKE A PLAN TO COMPLETE A FULL SCOPE OF WORK TO KEEP ENERGY COSTS LOW**

ALMOST THE LAST PART: TRYING TO DECARBONIZE



TRYING TO DECARBONIZE.....

FIRST, EXTERIOR INSULATION...

**HOW NOT TO INSULATE A
FLAT ROOF**



RENEWABLE ENERGY ROOF CAVITY DEPRESSURIZATION



WHY WE NEED INSTRUCTIONS FOR INSTALLING INSULATION.....

- State Program to Encourage Owners to Decarbonize Existing Units
- Super-Insulate, Air seal, add ventilation + heat pumps for multifamily
- No published incentive levels or specifications
- “Owners know how to do this, you don’t speak to low-income owners”
- “They have Engineering and Architecture expertise”
- “Owners will run to this program”
- Then.....



London Evening Standard

Wednesday 14 June 2017

FREE
standard.co.uk

WEST END FINAL

Picture:
Jeremy Salyern



INFERNO

RESIDENTS PERISH IN TOWER DEATH TRAP | BABY THROWN FROM NINTH STOREY SAVED | COUNCIL'S MANAGERS WERE WARNED OF RISK

REPORTS AND MORE DRAMATIC PICTURES » PAGES 2-7

TRYING TO DECARBONIZE.....

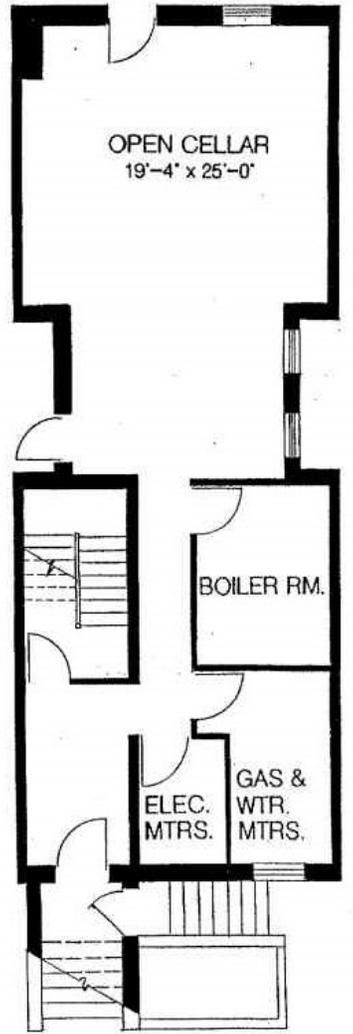
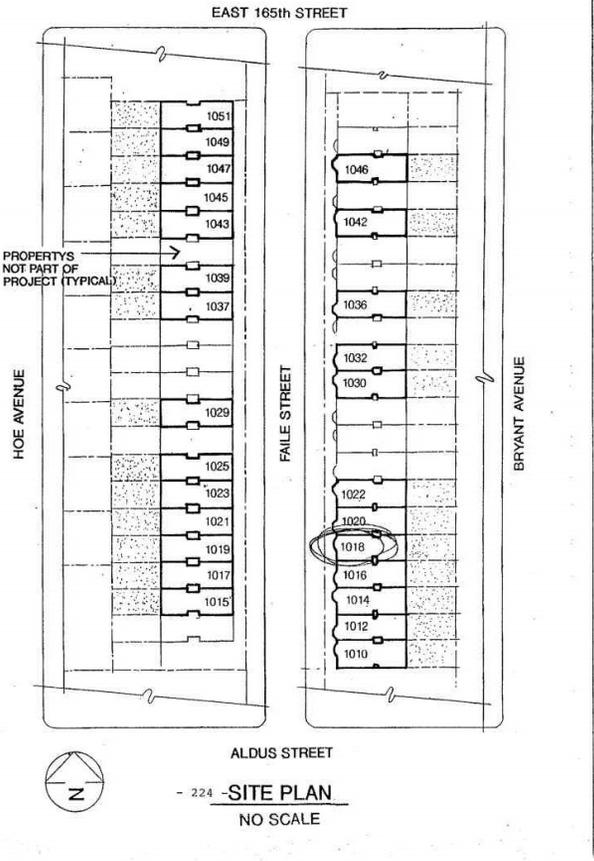
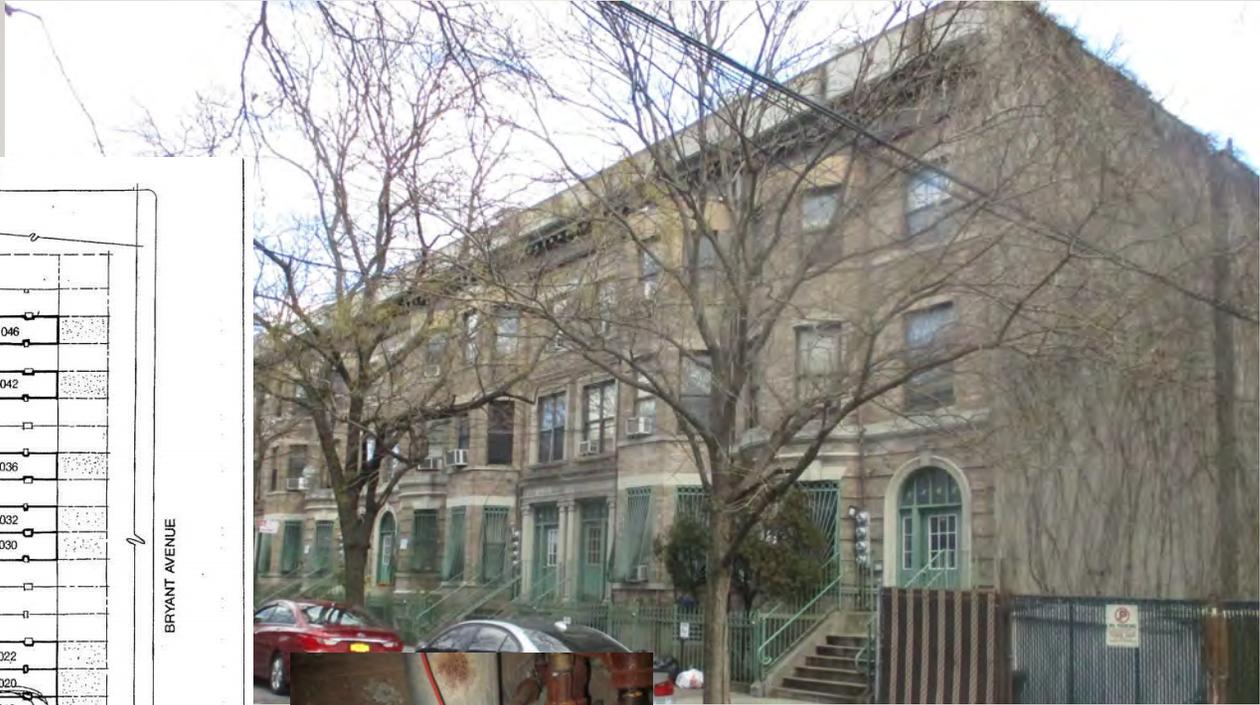
NEXT, AIR SEALING...





RESULTS:

- 50% oil hydronic + DHW; 50% electric resistance
- \$10,000 Electric + \$10,000 oil/year
- Attic Connected to house 100% - Most Cost Effective
- Solar Very Cost Effective Considering Tax Credit
- HP System \$43,674.00; \$6,700 CH rebate + \$2,000 Fed Tax Credit
- Proposal calls for keeping oil + electric heat

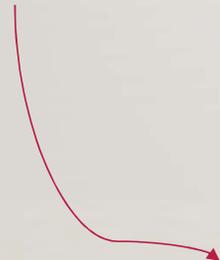




SOME INSTITUTIONAL BARRIERS:

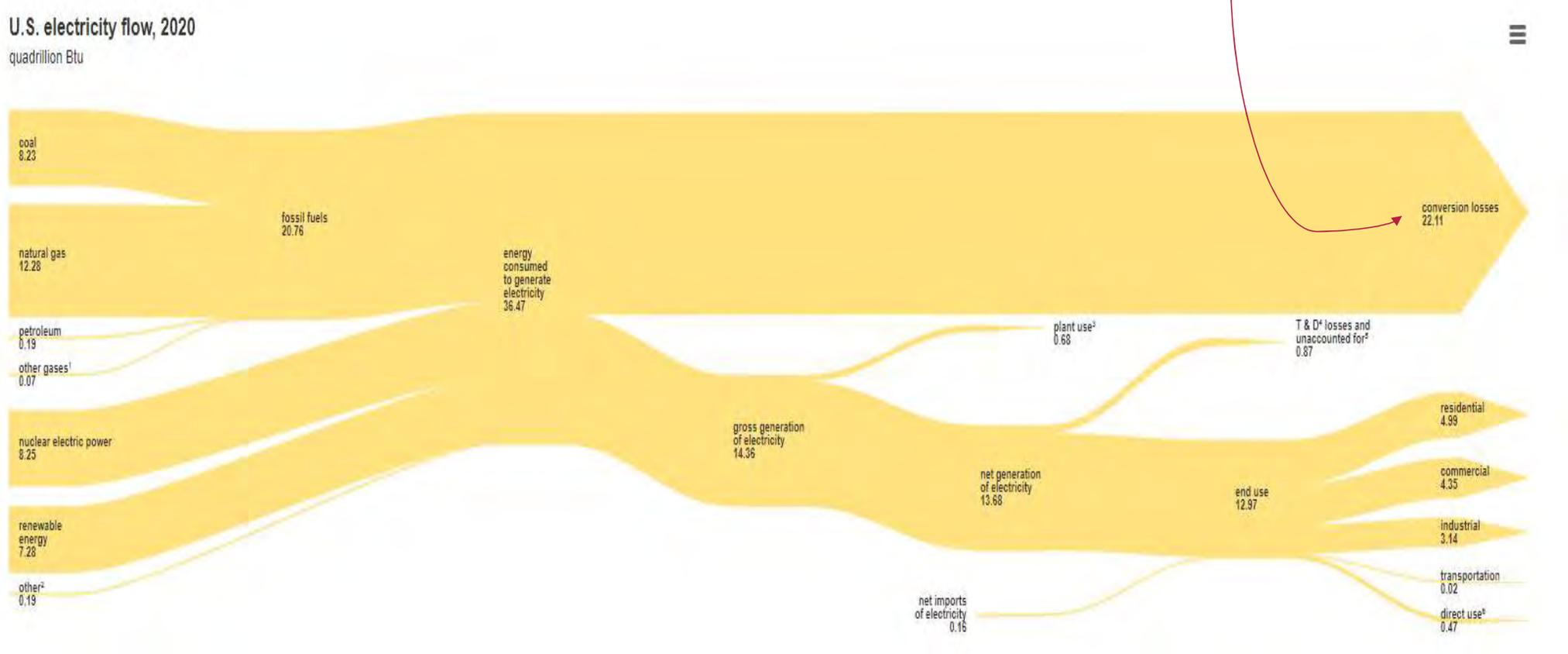
- Rental units that don't pay for heat, DHW, or electricity
- Electrical systems that cannot provide enough electricity
- Electric and gas utilities overwhelmed by requests to upgrade
- Really expensive electricity
- Renewable electricity that isn't
- 75% of my work is psychology
- Training a workforce? Who leads the league in trade education in the US?
- How many torque wrenches are there in the State of Texas?

Locally, we have some of the highest electricity costs in the country.



STATE	April 2021
Alaska	22.54¢ / kWh
California	19.90¢ / kWh
Connecticut	21.62¢ / kWh
Hawaii	32.76¢ / kWh
Massachusetts	21.11¢ / kWh
New Hampshire	19.63¢ / kWh
New Jersey	15.64¢ / kWh
New York	19.30¢ / kWh
Pennsylvania	14.38¢ / kWh
Rhode Island	18.64¢ / kWh
Vermont	18.50¢ / kWh

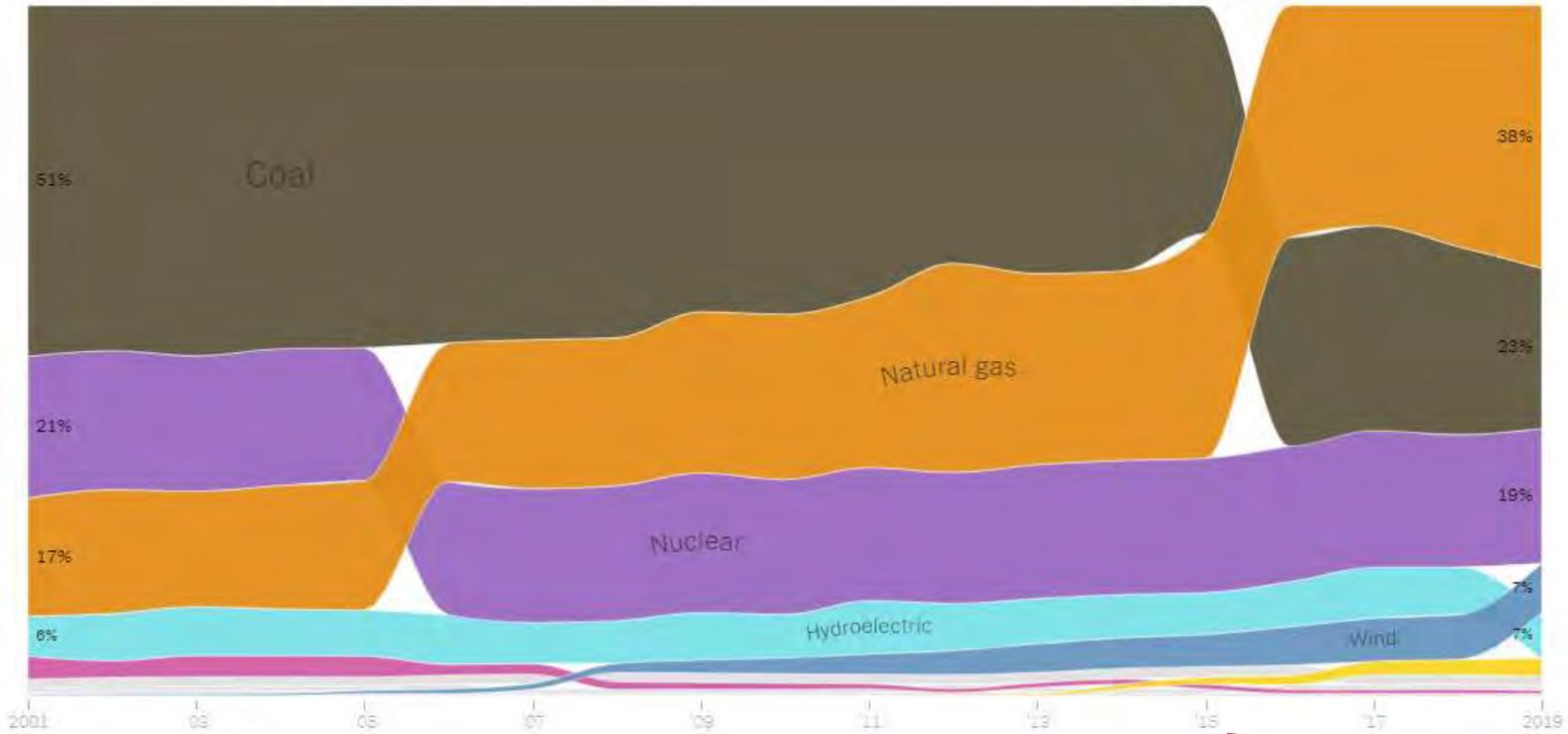
Over 60% of energy used in electricity generation is lost in conversion.



<https://www.nytimes.com/interactive/2020/10/28/climate/how-electricity-generation-changed-in-your-state-election.html>

How **the United States** generated electricity from 2001 to 2019

Percentage of power produced from each energy source

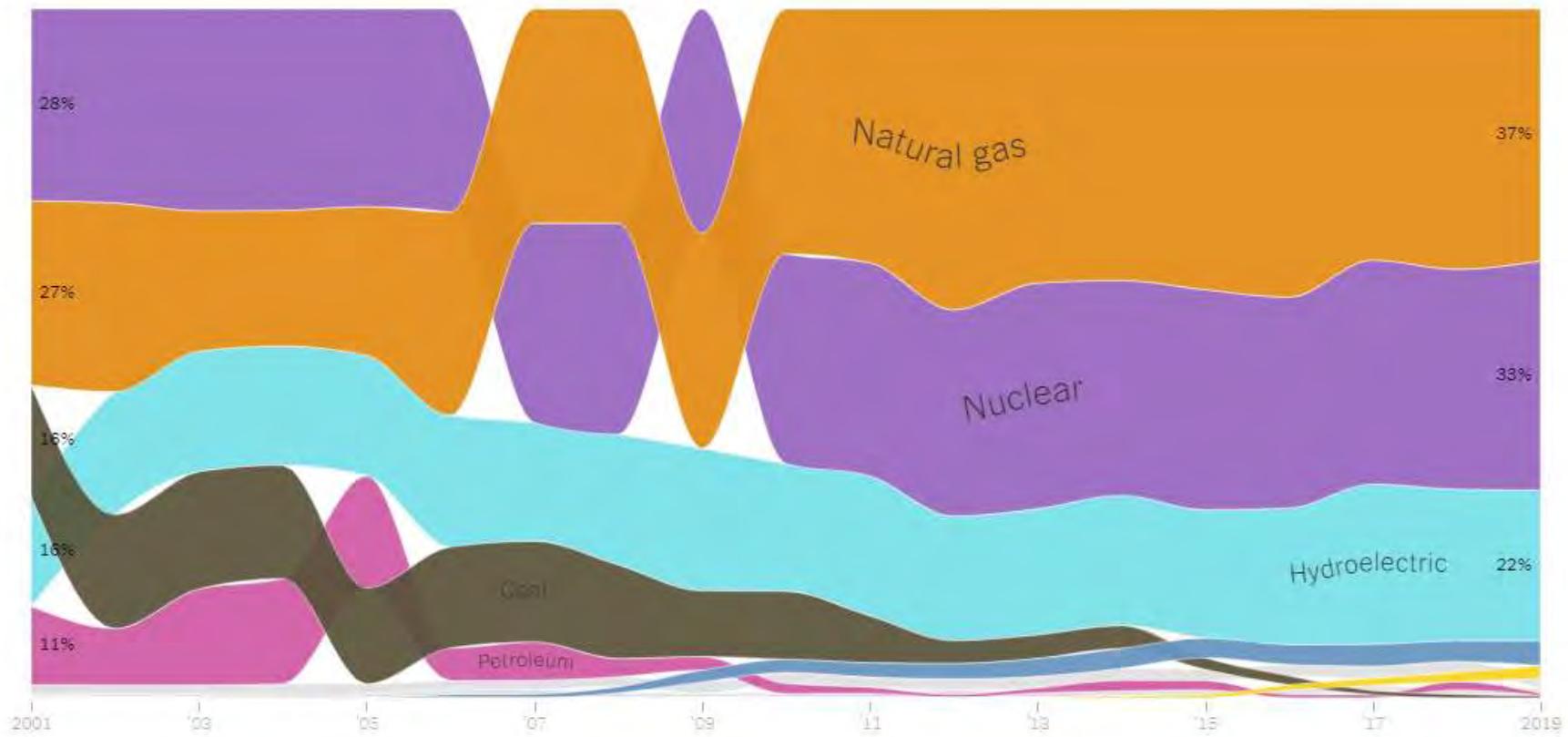


Source: NY Times Magazine

- low natural gas prices
- Clean Power Plan (RIP)

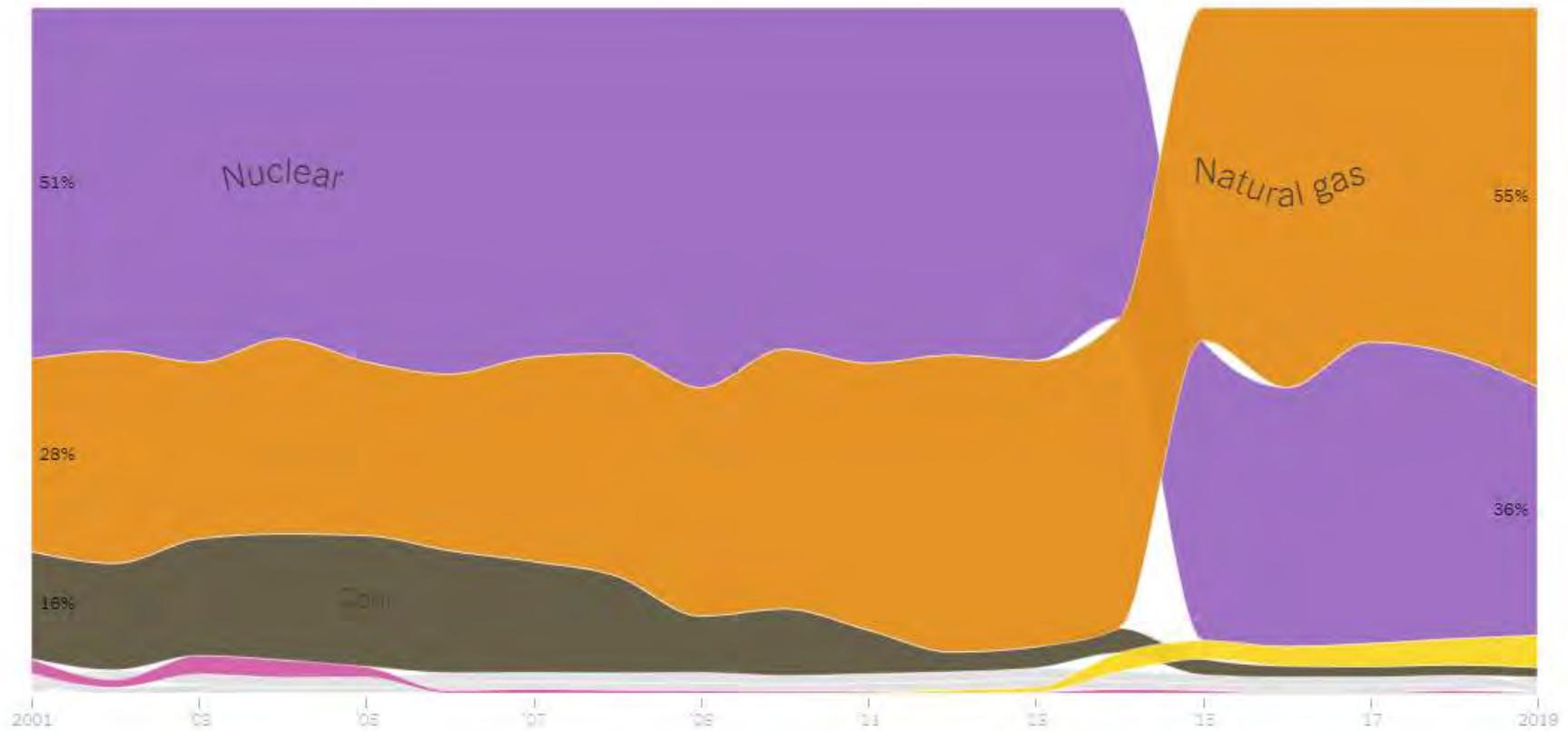
How **New York** generated electricity from 2001 to 2019

Percentage of power produced from each energy source



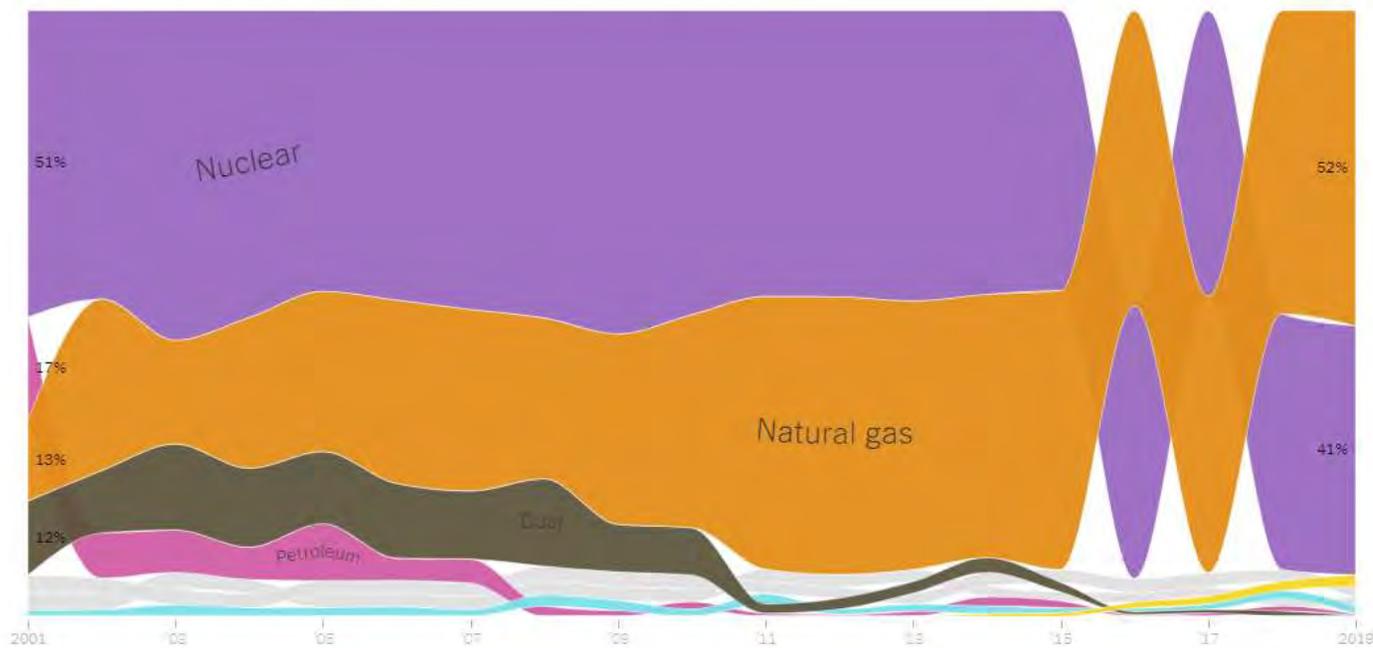
How **New Jersey** generated electricity from 2001 to 2019

Percentage of power produced from each energy source



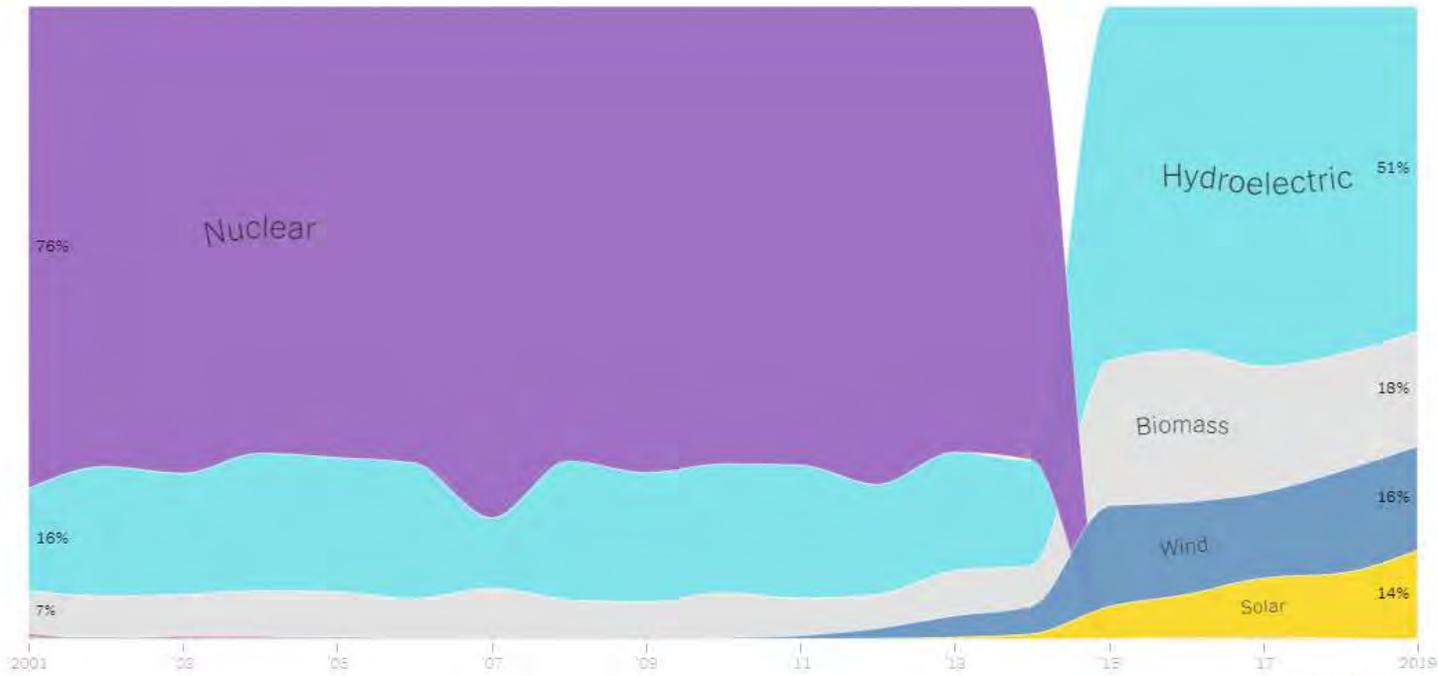
How Connecticut generated electricity from 2001 to 2019

Percentage of power produced from each energy source



How Vermont generated electricity from 2001 to 2019

Percentage of power produced from each energy source



Local News

Innu council says province, Hydro-Québec ignored their concerns about reservoir

Pessamit council chief Jean-Marie Vollant says his people are being treated like second-class citizens and that their ancestral lands are being illegally expropriated.

AND WHAT ABOUT NATURAL GAS BANS IN NEW CONSTRUCTION?

The Energy Institute at Haas (University of California at Berkeley) included this statement in their review of this issue:

“Regulators can mandate and ban natural gas for new buildings. However, without additional policy and rate reform, California’s high electrical prices mean that electrification mandates will raise costs for households.”



PLEASE ADJUST THE MESSAGE!

- Science Friday on Retrofitting Buildings
- Bill McKibben “United States of Anxiety”
- NPR re: Fusion
-and don’t get me started on Fox.....

PLEASE ADJUST THE MESSAGE!

- First, we're all environmentalists here, so we want to reduce energy use
- When we do this, we reduce carbon
- The most environmental way to do this is through efficiency
- The nearly forgotten “negawatt”
- None of this means that we are opposed to decarbonization



Wagdy Anis

Mike Barcik

Chris Benedict

Terry Brennan

Marilou Cheple

G. Pete Consigli

Jim Cummings

Phillip Fairey

Don Gatley

Lixing Gu

Steve Baczek

Frank Beasley

Marc Bomberg

Subrato Chandra

Michael Clarkin

Dennis Creech

Rob DeKeiffer

Paul Fiset

Henry Gifford

Gus Handegord

William Hill

John Holton

Pat Huellman

Joe Kuonen

Joseph Laquatra

Ned Lyon

Cathy Muller

Brad Oberg

Andrew Padian

Dave

Pennebaker

Jim Holland

Bion Howard

Richard Kelleher

Mark LaLiberte

Joseph Lstiburek

Neil Moyer

Gary Nelson

Colin Olson

McGregor

Pearce

Betsy Pettit

Duncan Prah

Marc

Rosenbaum

Marty Serena

Richard

Shaughnessy

Paul Shipp

Anton TenWolde

Jeff Tiller

George Tsongas

Jim Vann

Valerie Walsh

John Proctor

Armin Rudd

Andy Shapiro

Lester Shen

Bill Sturm

Margo

Thompson

Dick Tracey

Bill Turner

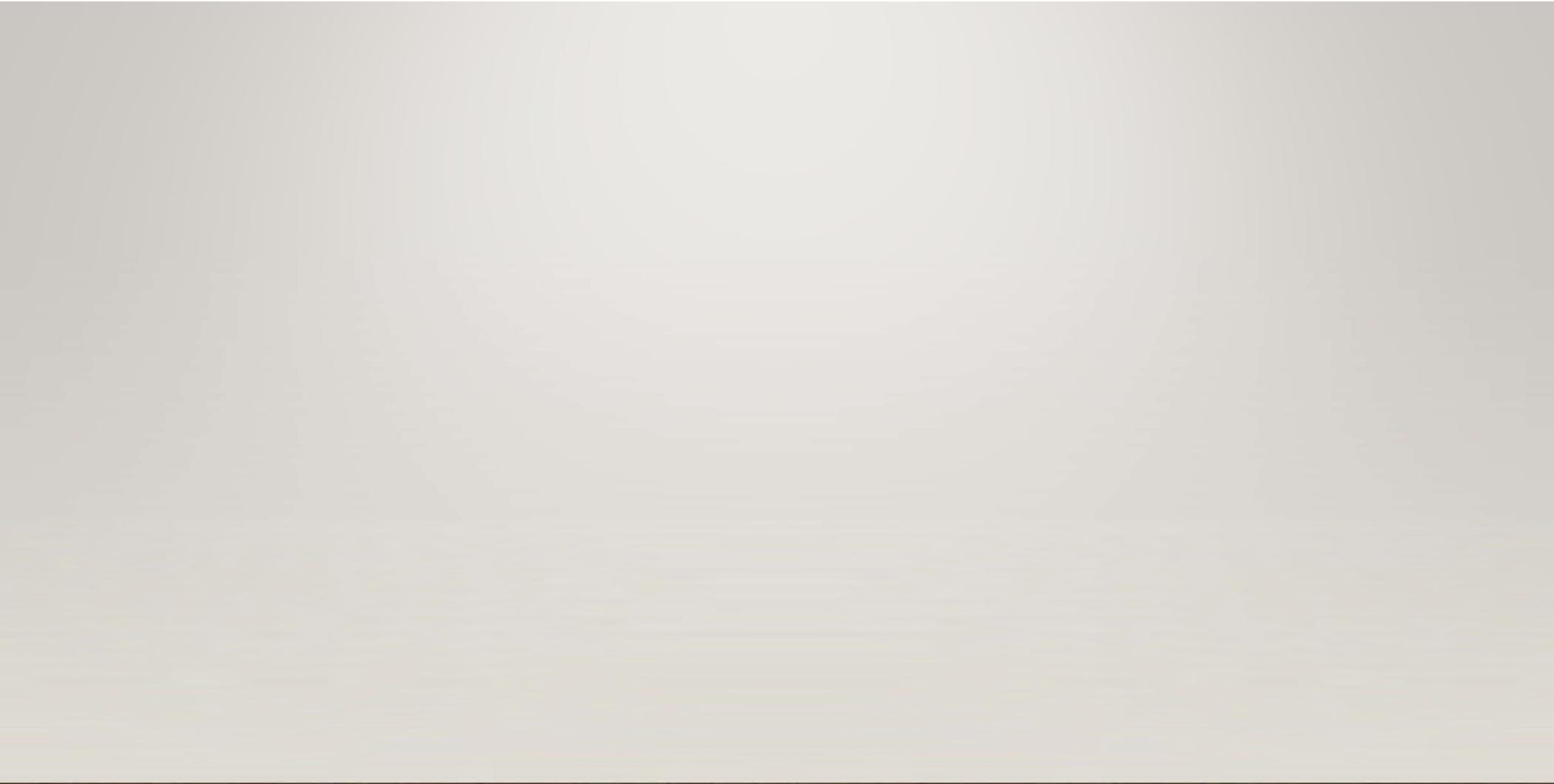
Frank Vigil

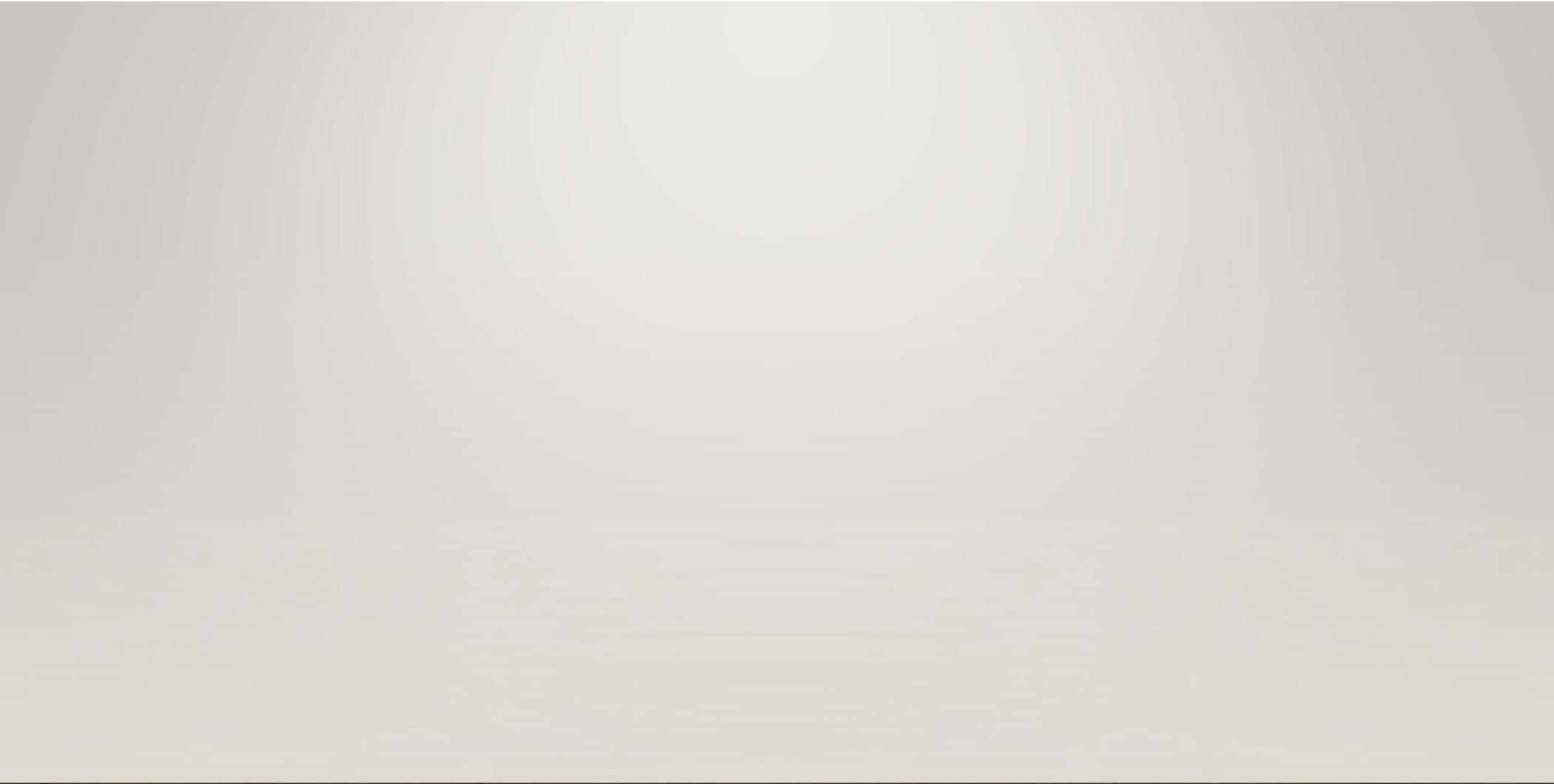
Alex Wilson

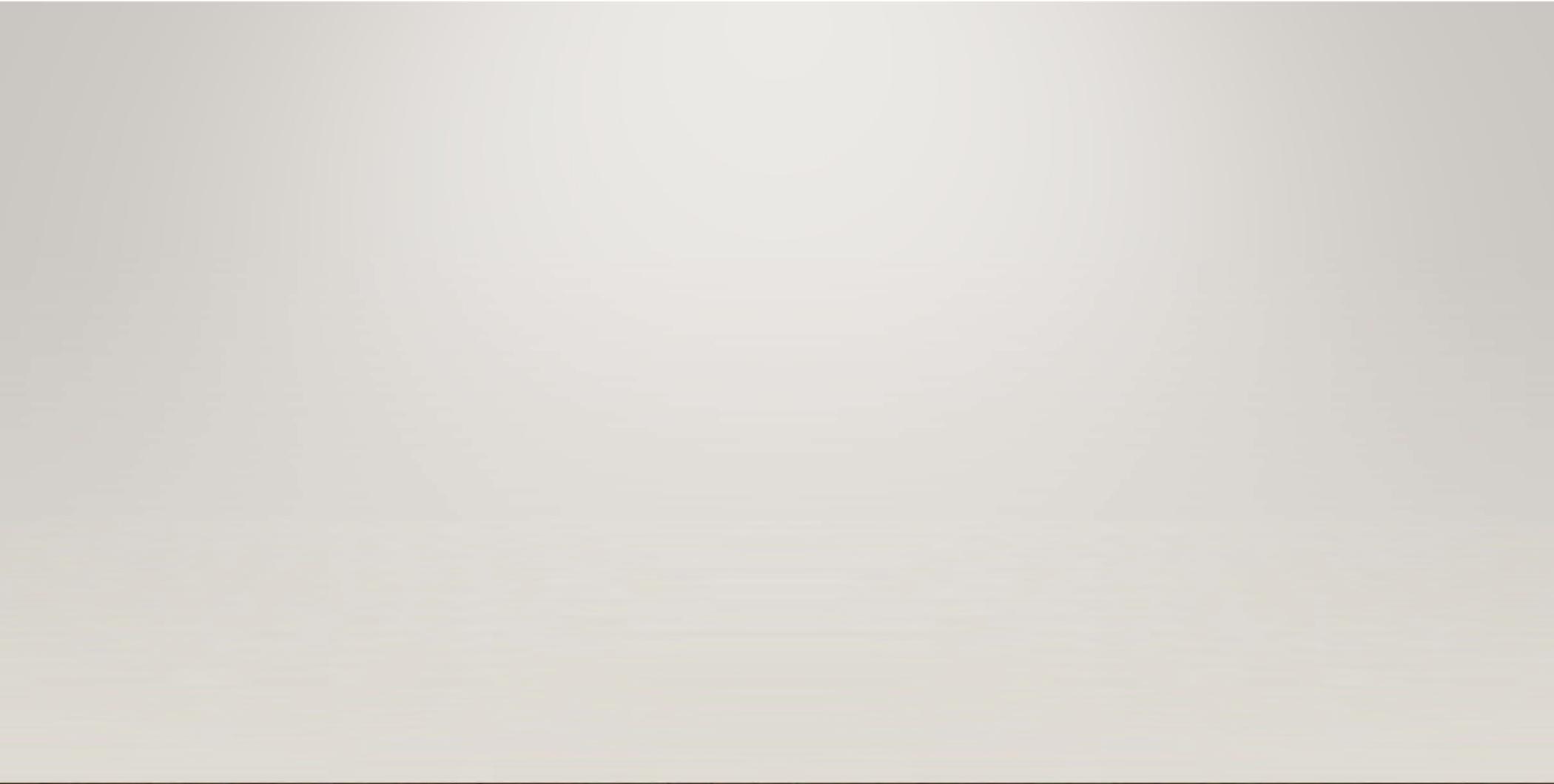
Cliff Zlotnik

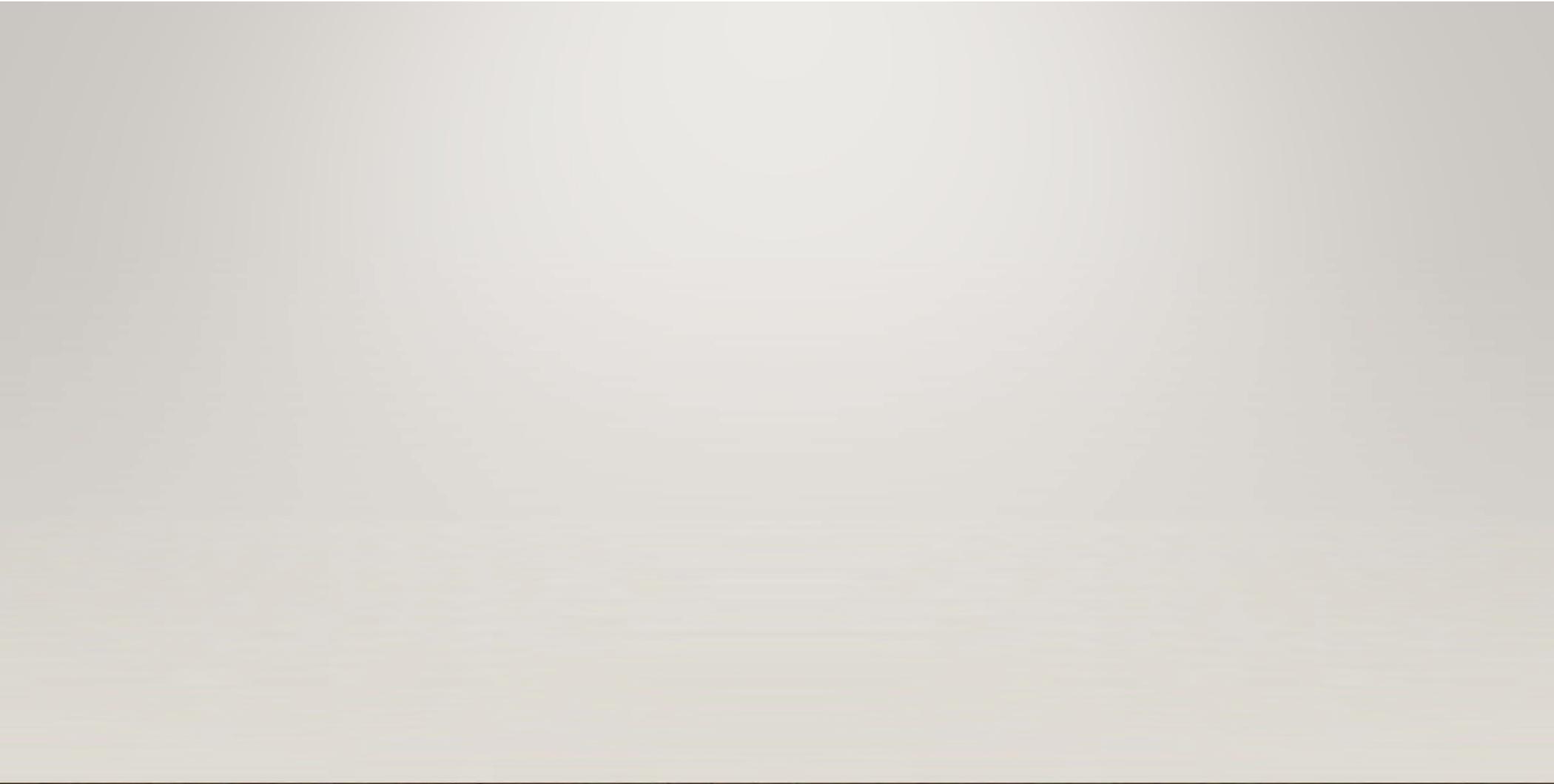
**THANK YOU FOR
ATTENDING AND
PARTICIPATING!**

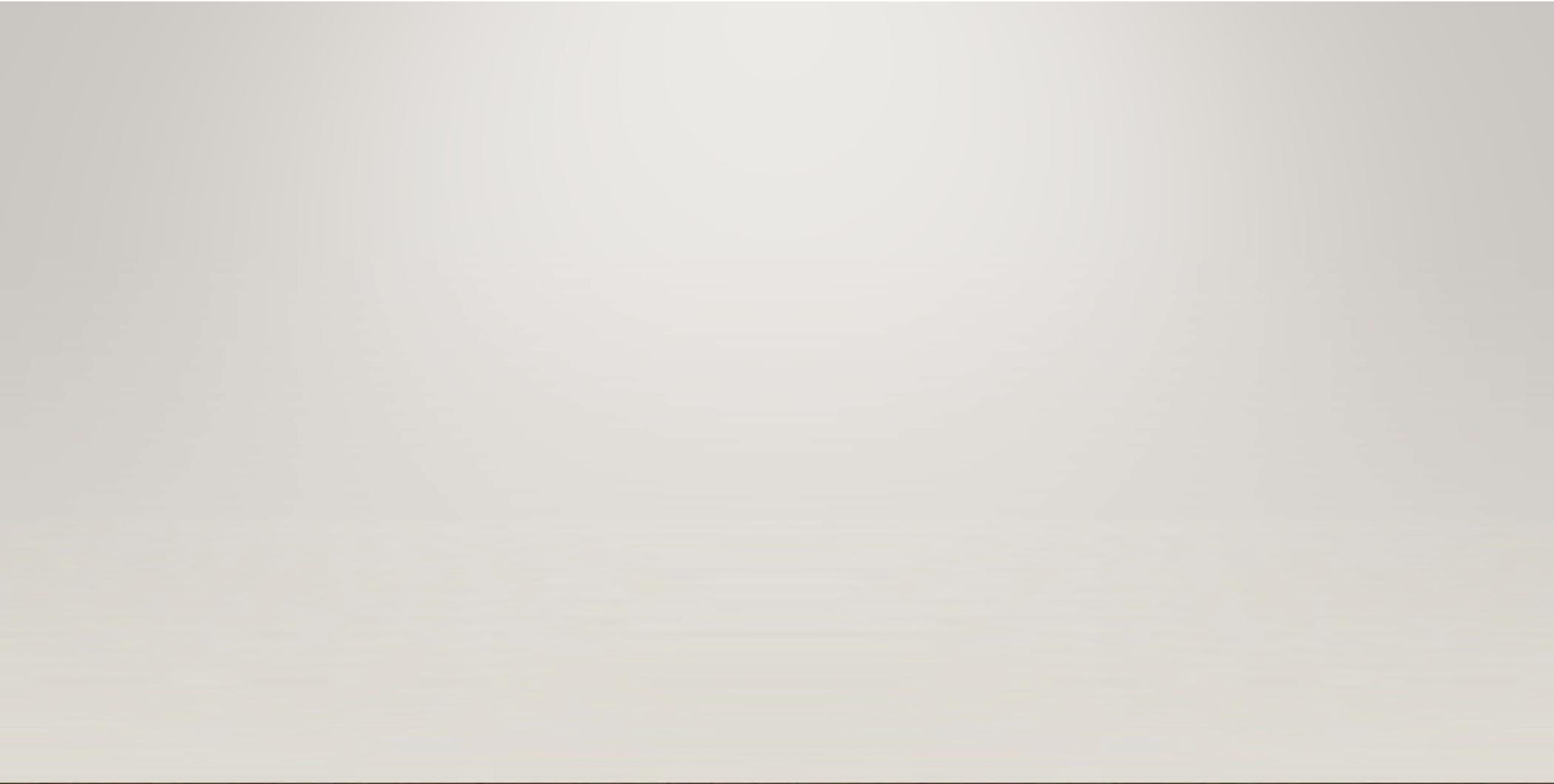
DISCUSSION?











LEFT TO ADDRESS

1. Cable Boxes FSEC fans vs Estar
2. BAT as NYC Waste;
3. PCV-ST vs. Solaire
4. NYC Building Code Firestopping
5. MN Says Fiberglass doesn't perform
6. Pressure Diagnostics Fits & Blasnik
7. Irish Papers re: EE