

IES

SF Education



**2015 SPRING
SEMINARS**

Lighting & Urban Placemaking



Part 1- How Light Drives Urban Vitality



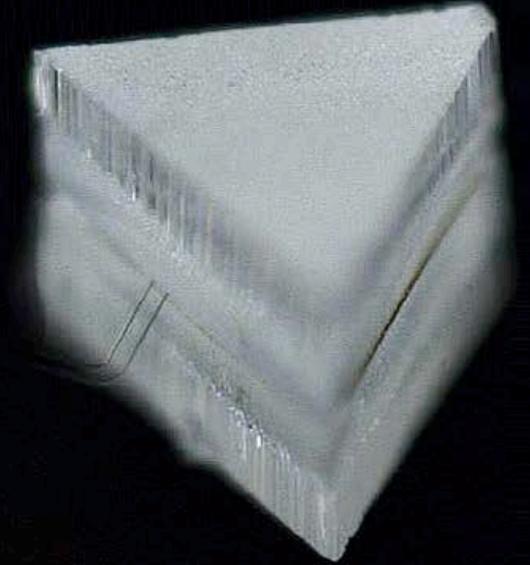
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Lighting & Urban Placemaking



A Brief History of Public Lighting
Clifton Lemon

Light is Fire



All in a Day's Work



2000 BC- 10
minutes



Today- 20,000 hrs.

Equal R Value



Lighting Leads

- Lighting makes the infrastructure of human life possible
- Lighting was dormant in the 20th century. LEDs are the awakening
- IOT is the real revolution: Lighting is the backbone of the Smart City

Providing Security

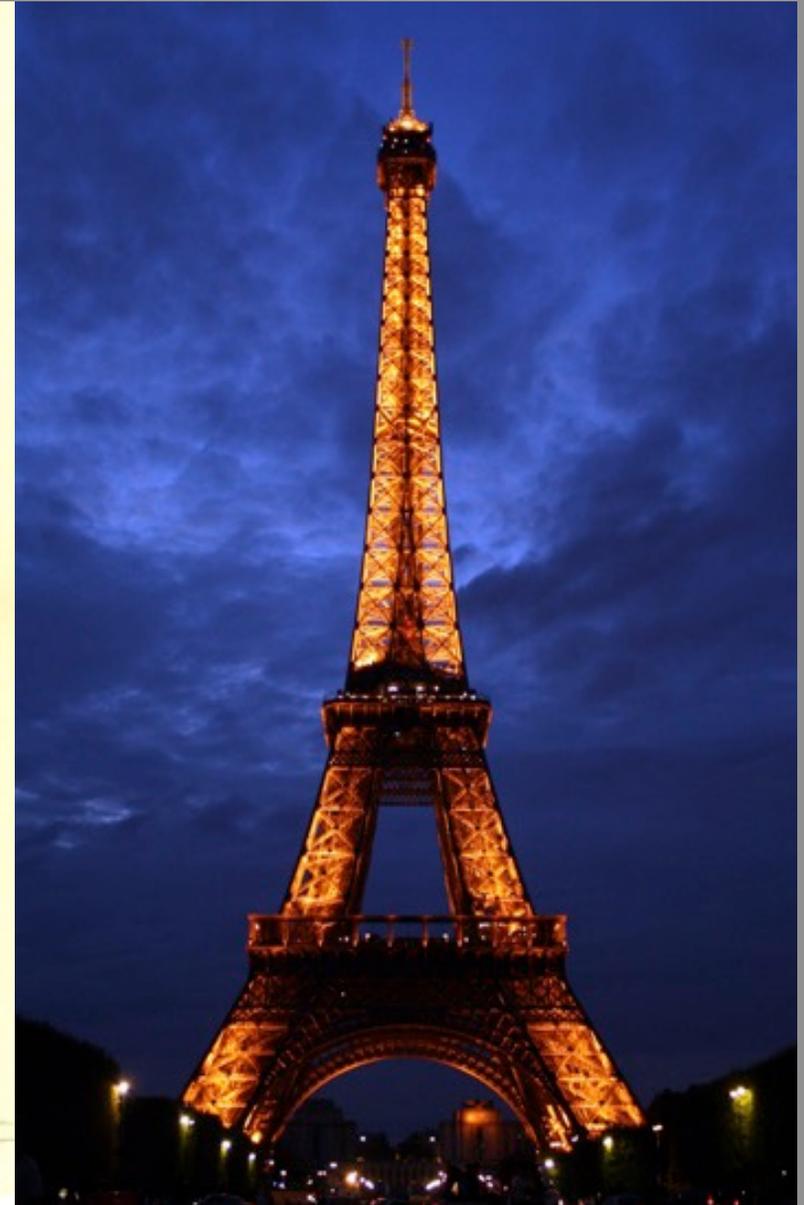
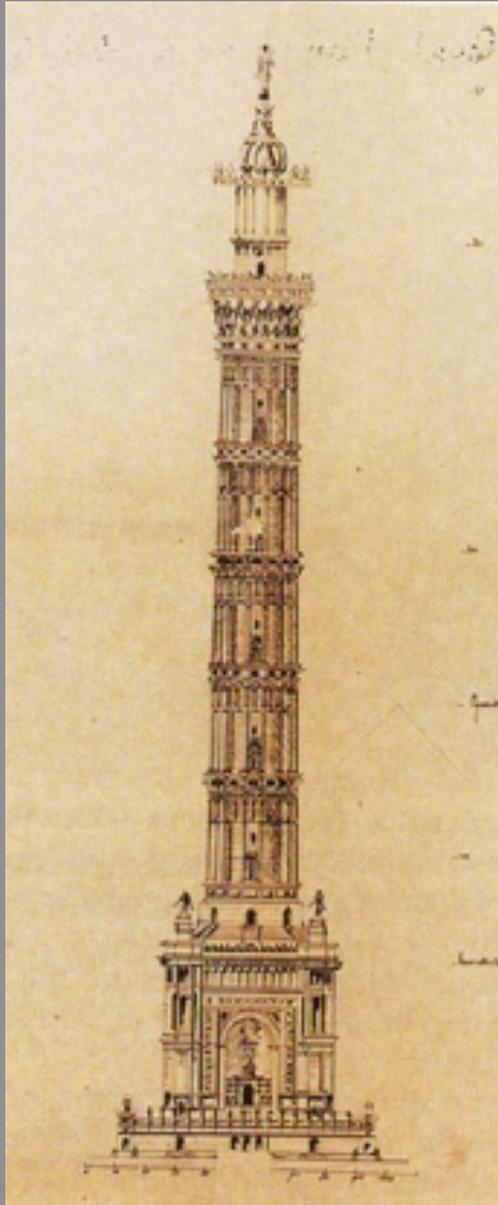


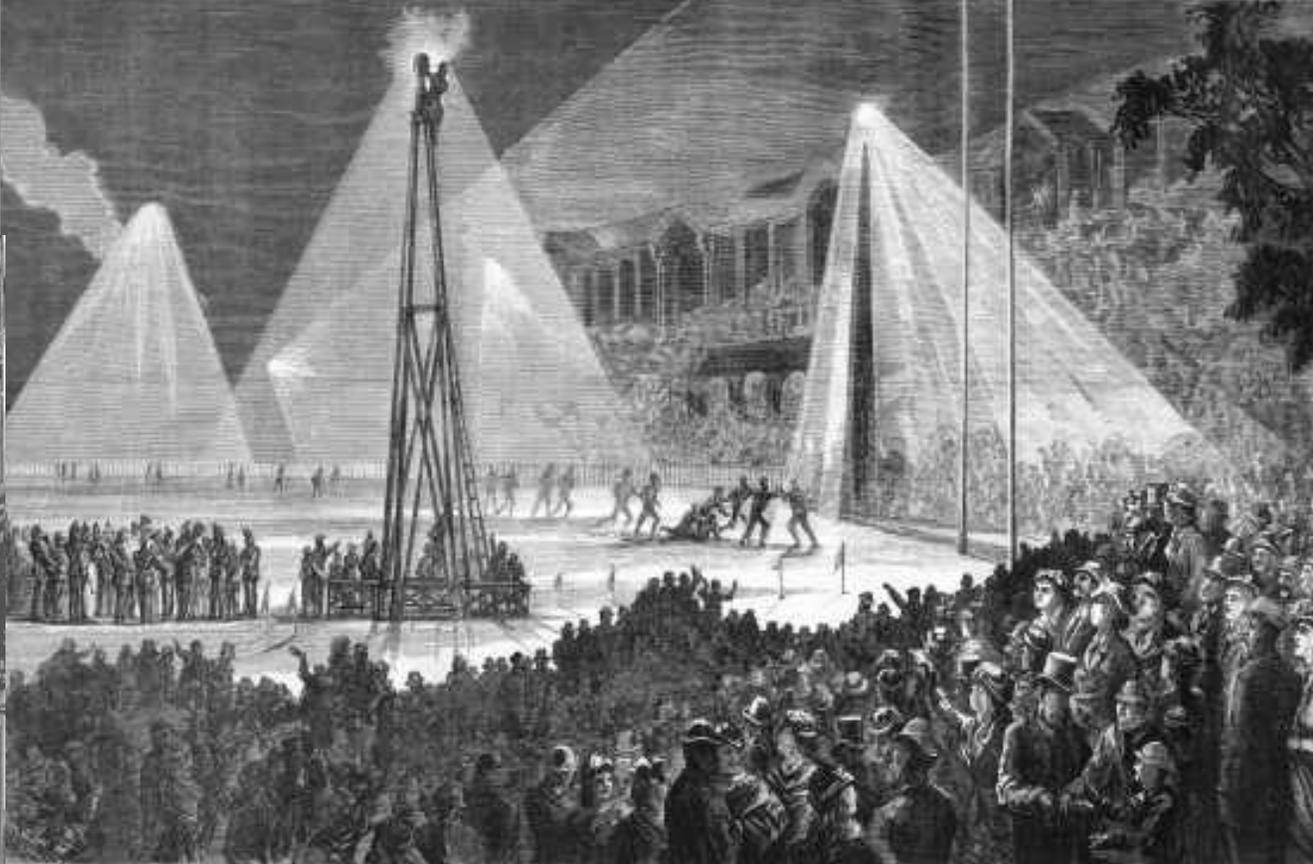
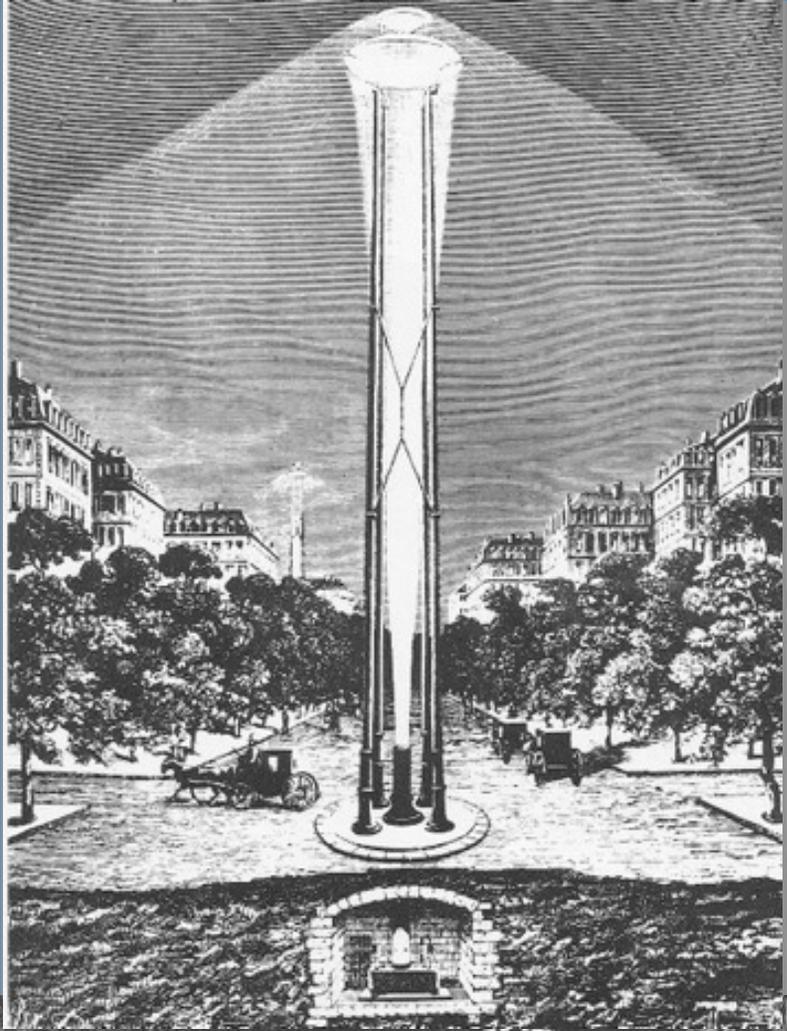


Symbolizing Order



Fueling Competition





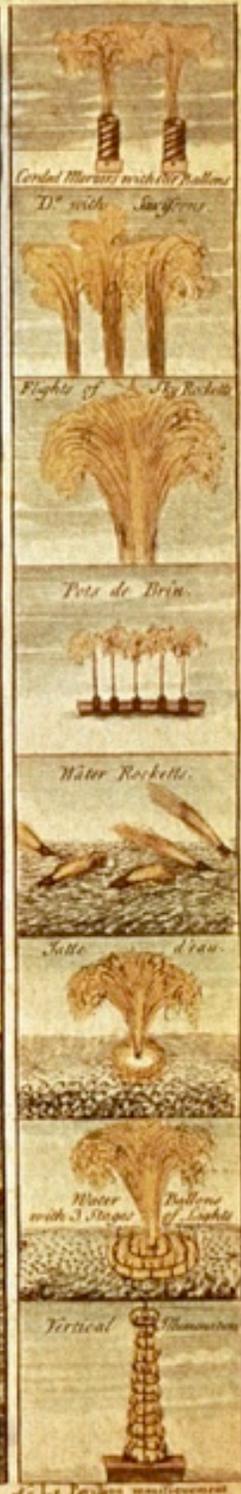


Powering Spectacle



A VIEW of the FIRE-WORKES and ILLUMINATIONS, at his GRACE the Duke of RICHMOND'S at WHITE-HALL, and on the River Thames, on Monday 15 May, 1749.

Perform'd by the direction of Charles Frederick Esq



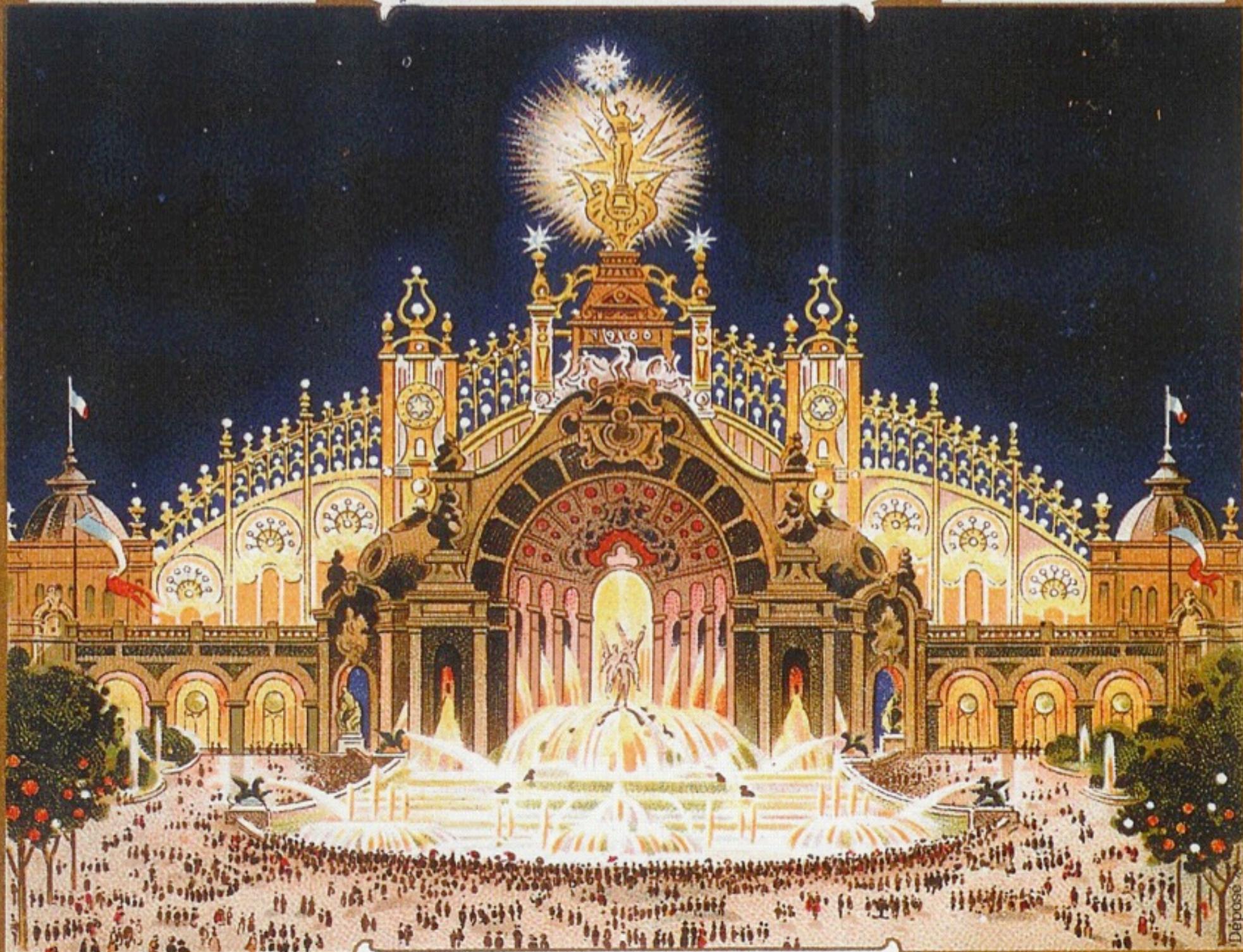
W's Pavilion beautifully illuminated, &c. The Duke of Richmond's House, &c. The Boat and Burgoyne, for the

Vue des FEUX d'ARTIFICE et des ILLUMINATIONS donnees par Monseigneur le Duc de RICHMOND de LENOX et d'AUBIGNY, sur la TAMISE et vis a vis de son Hotel, Lundi le 15^{eme} de Mai 1749. Sous la direction de Mons. Frederick.

AU BON MARCHÉ

EXPOSITION UNIVERSELLE 1900

NOUVEAUTÉS



PALAIS DE L'ÉLECTRICITÉ

Déposé





Driving Nocturnalization





Creating Beauty & Vitality







HERN

THE
PEN
SHOP





LYRIC

APOLLO

THRILLER

MY SONS

AIR

LYRIC THEATRE UPPER CIRCLE

LYRIC THEATRE BALCONY

STANDARD & BEST SEATS

Penny Piece 14

228555



HOTEL

区役所前
カブセルホテル

東陽ビル

パーティーカラオケ広場

新宿サブナード(株)

MISTER DONUT

MISTER DONUT

毎メニュー!
ミスのサンドウィッチ。

ドーナツ400

お得な
ウィッチ
リン





epsos.de



Migration of Light from Private to Public



1000

1200

1500

1600

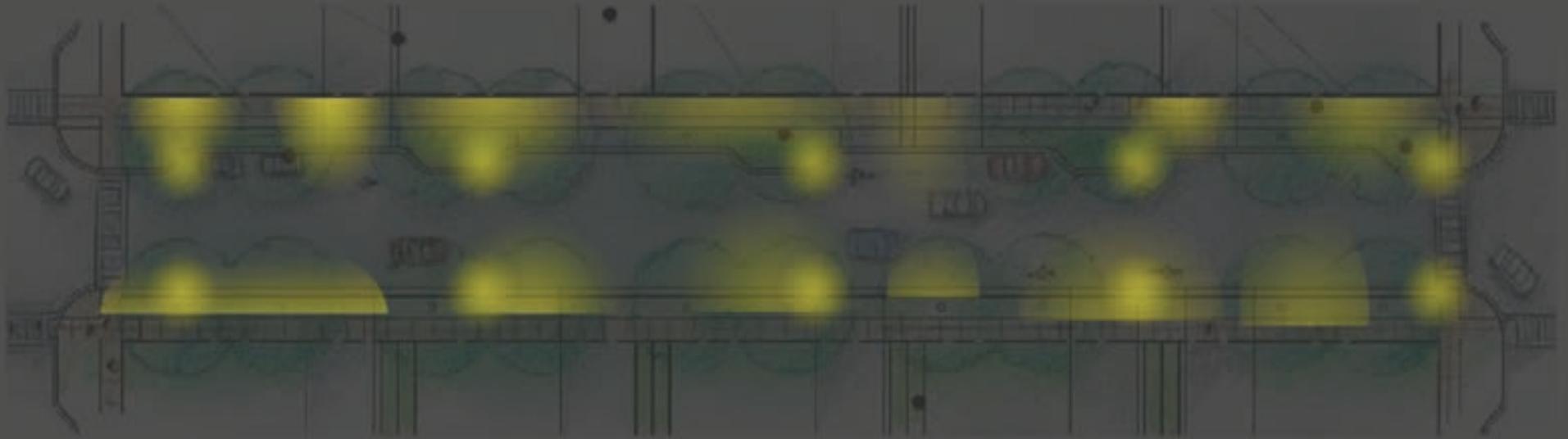


1780

1840- Gas

1880- Electric

Experiential Light Plan



Creating Safety



Extending Markets



Driving Growth



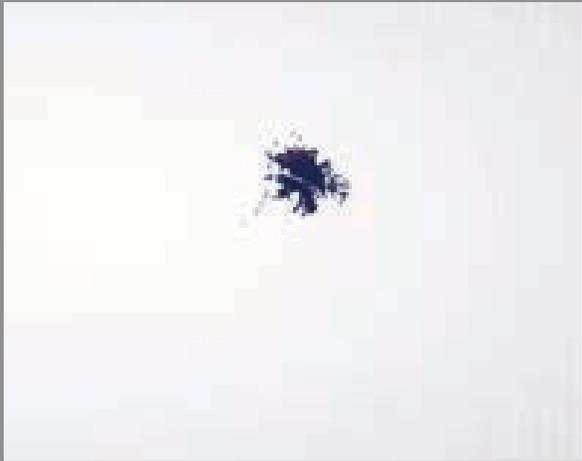




**GALERIES
LAFAYETTE**

GALERIES LAFAYETTE

Impact of Electric Light on Growth in Paris



1803



1840- Gas Lighting



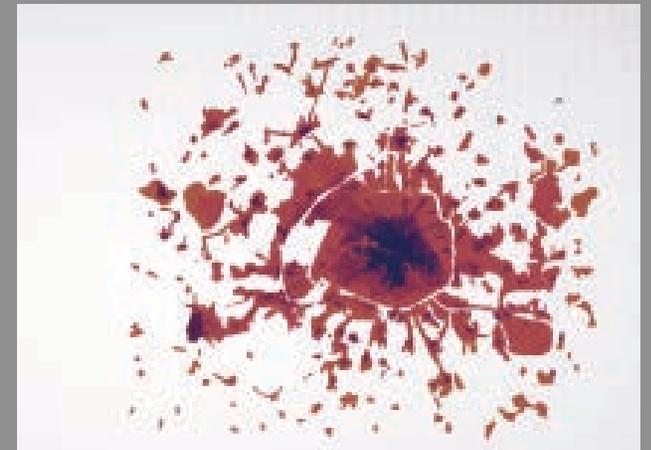
1880- Electric Lighting



1887



1895

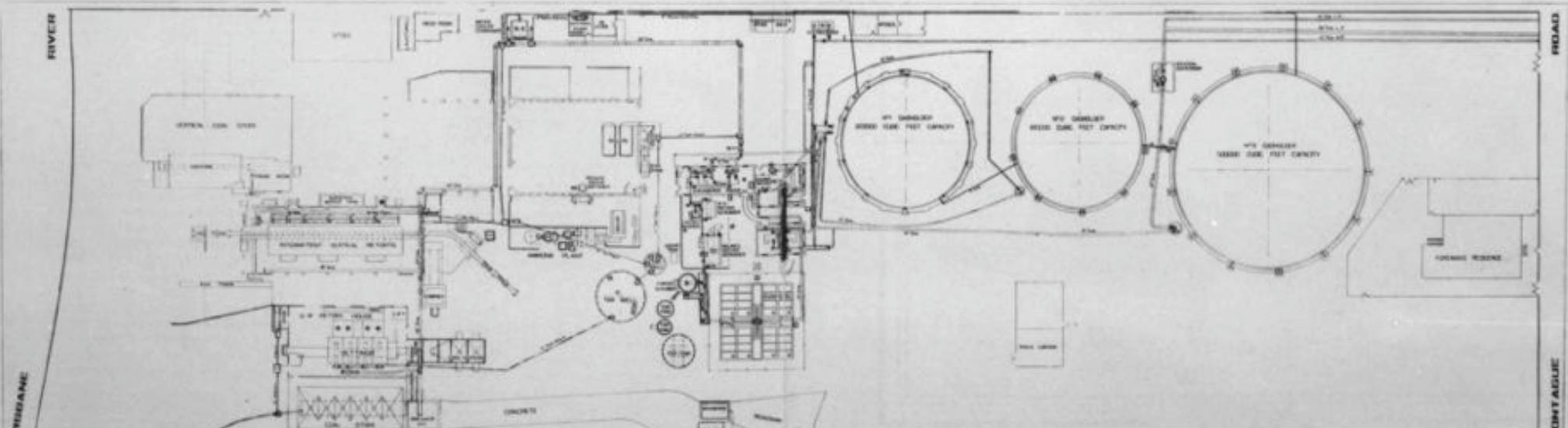
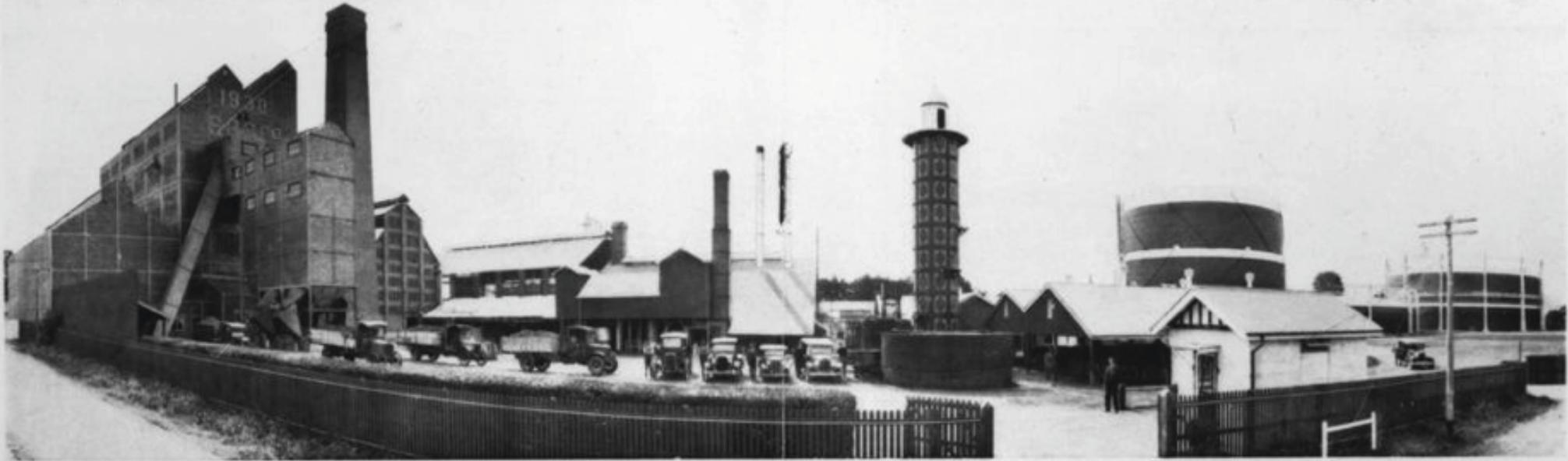


1928

Enabling Trade & Transport



Driving Energy Networks





PALL MALL

The Coal being stamed produces tar or paine for outside of Houses - the Smoke passing thro water is deprived of substance and burnt as you see

Arise hurry if this man brings fire thro water we shall soon have the Thames and the Siffog burnt down - and all the pretty little Herrings & Whales burnt to cinders

Oh Friend but it is all Vanity what is this to the inward light

If this light is not full a stop too - we must give up our business We may as well shut up shop

True my dear not a dark corner to be got for love or money

Wants what a man! pretty light it be we have nothing like it in our Country

Woodward del.

A PEEP AT THE GAS LIGHTS IN PALL-MALL.



INCANDESCENT GAS LIGHT
(NEW & IMPROVED SYSTEM)
 ELECTRIC LIGHT SURPASSED.

All the advantages of Electric Light and none of its drawbacks.



Welsbach
LIGHT
 Inverted Arc Lamp, Fig. 623.

Storm Proof—
 For Exterior Lighting.

Welsbach-Kern
 (Patent) Inverted System

BRITISH MADE.

BRITISH MADE.



Height over all.

1-light	1 ft. 8 ins.
2-light	2 ft. 4 ins.
3-light	2 ft. 4 ins.
4-light	2 ft. 7 ins.

Width over all.

1-light	1 ft. 1 in.
2-light	1 ft. 3 ins.
3-light	1 ft. 5 ins.
4-light	1 ft. 8 ins.

Fig. 623 Three-Light.

ENAMELLED Green Steel Casing, fitted with Welsbach-Kern Inverted Burners. Gas and Air Regulators operated from outside. Sliding Door to give access to Burners for cleaning purposes. Fitted with Magnesia Nozzles, Welsbach Mantles, and Glass Mantle Protectors. Complete as shown. Highly efficient and regenerative.

	Gas per hour.	C.P.	Steel	Copper Case.	Gas per hour.	C.P.	Steel	Copper Case.
1-light	4 feet	125	30-	5- extra.	3-light	15 feet	450	526
2-light	8 feet	260	476	6- extra.	4-light	15 feet	550	726

All on or off, or One light on and the rest off, 7.6 per Lamp extra. Cup and Ball, 3.6 per Lamp extra.

RENEWALS.

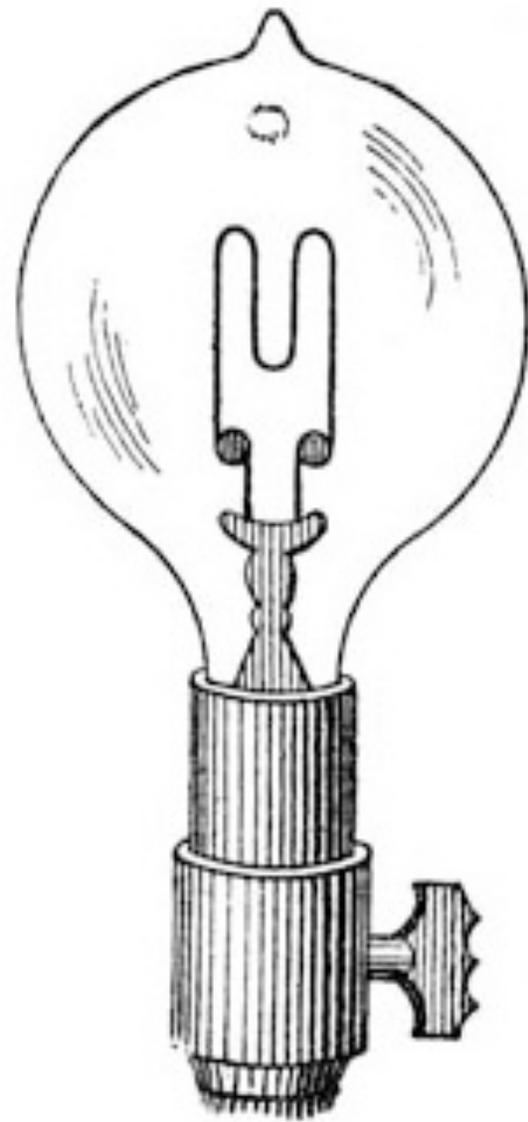
	1-Light	2-Light	3-Light	4-Light	1-Light	2-Light	3-Light	4-Light
Clear Glass Globes, each	23	59	59	93-	Wire Globes, extra	each	2-	2- 29 36
" " " "	196	579	579	93-	Parabolic Reflector, extra	each	36 6-	76
Case contains	80	78	78	72	Welsbach Mantles, each	6d.	subject to usual.	

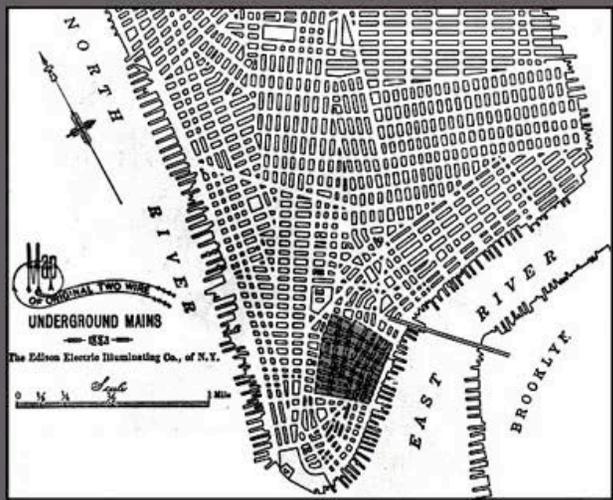
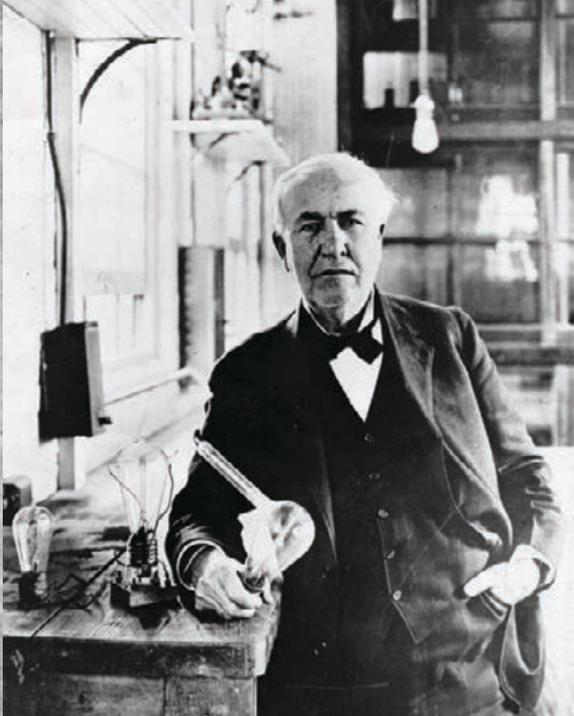
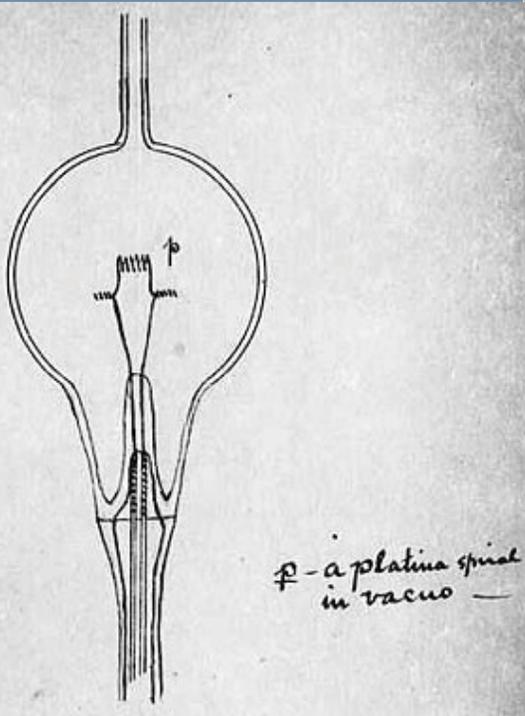
The Welsbach Mantles for Upright lighting are "C," "CX," and "Plainsbury," price 4d. each.

THE WELSBACH INCANDESCENT GAS LIGHT CO., LTD..
 Welsbach House, 344-354, Gray's Inn Road, London, W.C.
 Telephone 4042/4043. "WELSBACH LONDON." Telephone 2114 1047/10.

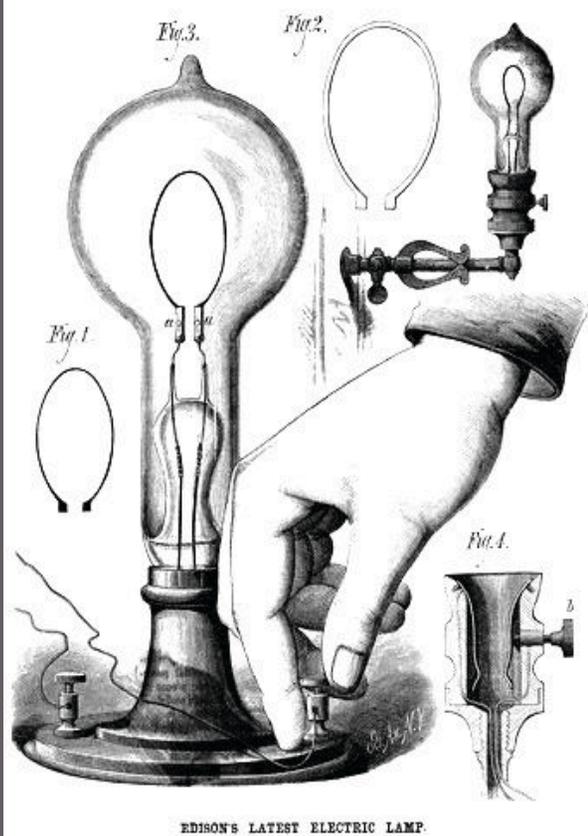


ELECTRIC GAS LIGHTING
H.S. NORRIE





- Pearl Street Station
- Customers





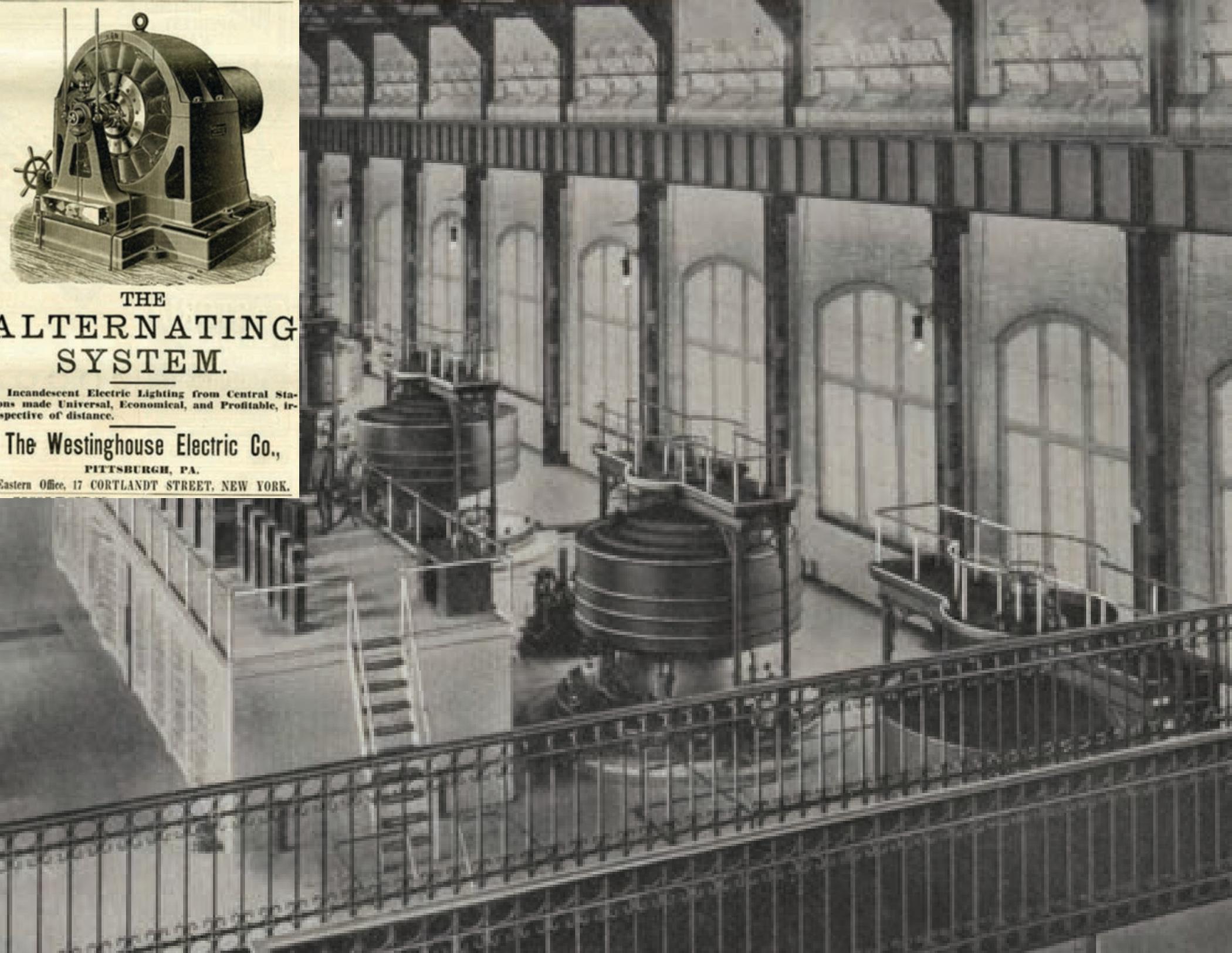
THE ALTERNATING SYSTEM.

Incandescent Electric Lighting from Central Stations made Universal, Economical, and Profitable, irrespective of distance.

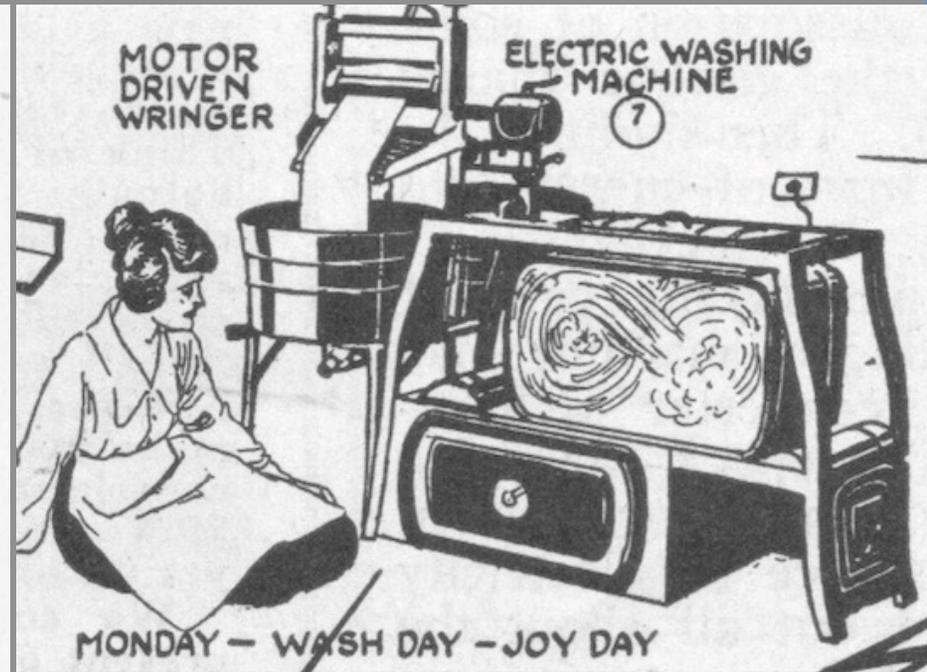
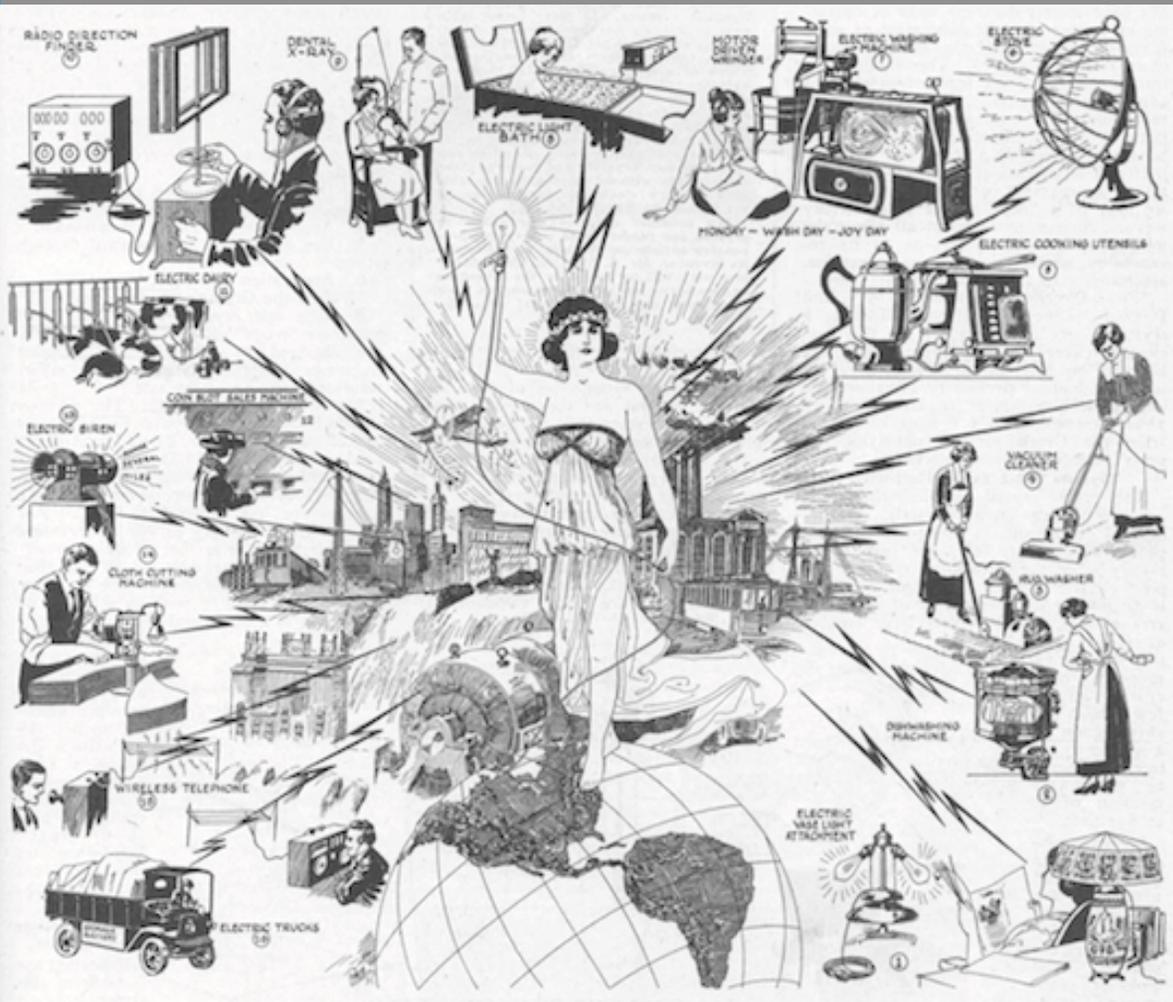
The Westinghouse Electric Co.,

PITTSBURGH, PA.

Eastern Office, 17 CORTLANDT STREET, NEW YORK.



Driving Markets- Advertising





THE
D.C.

THE
GREAT
LOVE
STORY

THE
GREAT
GATSBY

Budweiser
BEERED EVERYWHERE

CHEVROLET

Comotions
Club
IMPORTED WHISKY

**CAPITOL
THEATRE**

Monadic View

Teast

CRITERION
THE
BOB HOPE

Belmont

NO
PARKING



TREK GUEST SUITES

PALACE



KARAOKE

Hit the red carpet and win.

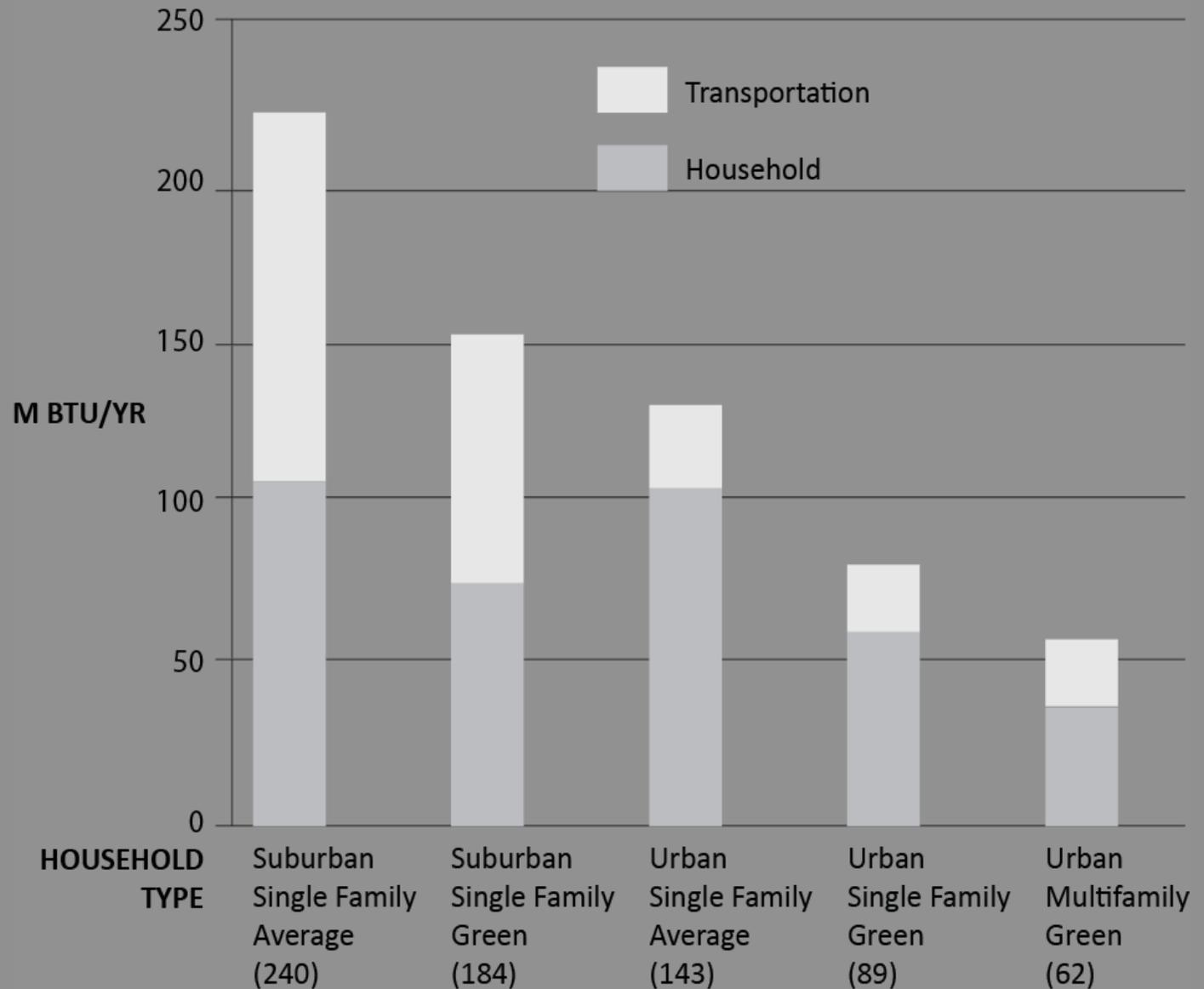
the

Global Warming



Cities are Greener

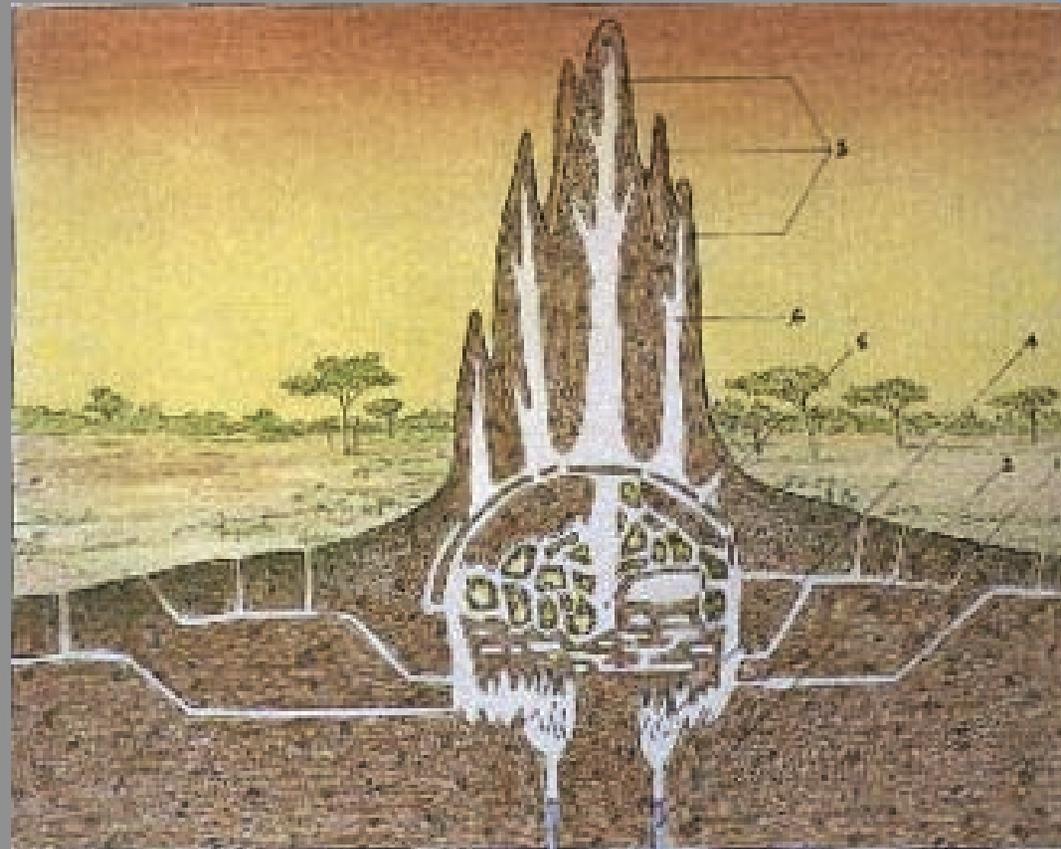
Comparative Annual Energy Use per HousingType



Cities that Learn



Disruption vs Balance



What Will Future Cities Feel Like?



Thank YOU

Clifton Lemon

BrandSequence

cliftonlemon@gmail.com

waterfireshelterfood.com

415 254 7056

@cliftonlemon