



1903



1903 - 1944



1944 - 1961



1961 - 1998

SIEMENS
Westinghouse

1998 - 2005

SIEMENS

2005 - Present

You can be SURE ... if it's Westinghouse

Sandy Manners

Formerly:

Manager, Strategic Communications & Public Relations
Westinghouse Power Generation - Siemens/Westinghouse

Currently:

Director, Corporate Communications
Guelph Hydro Inc.

1903-2003

Westinghouse
Siemens Westinghouse

100 Years in Canada

Sandy Manners



1903



1903-1944



1944-1961

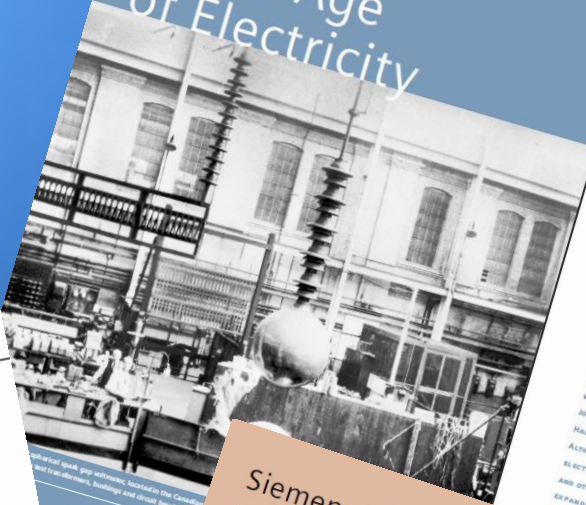


1961-1998

SIEMENS
Westinghouse

1998 - Present

The Dawn of the Age of Electricity



George Westinghouse and Werner von Siemens were two of many great pioneers in the field of electrical engineering. However, it can be said that the existing North American power system owes more to the vision and efforts of George Westinghouse than to anyone else.

THE FIRST GENERATORS AND TRANSFORMERS

In 1867, the year after George Westinghouse was born, Werner von Siemens and Johann Georg Halske formed the Siemens & Halske Telegraph Construction Company. Although their first products included electromechanical pointer telegraphs and other telegraph equipment, they soon expanded into the manufacture of other electrical apparatus.



Lighting apparatus

Siemens Westinghouse and the Boom Market for Gas Turbines

1993-2003



Entering the final decade of the Sanford Avenue plant's first hundred years, no one could have foreseen the magnitude of change that would sweep over the company in the next 10 years.

"Exciting, challenging, chaotic — all describe the future of power generation in the United States where increasing competition, deregulation, power plant closures, utility consolidation and mergers, and power wheeling will be the norm," stated an article published in *Energy Power*, Westinghouse Power Generation Canada's bimonthly newsletter in March/April 1998. At the Hamilton plant, the next few years would be all this and more.

In March 2002, the former Westinghouse Turbine Manufacturing and Service Facility in Hamilton shipped its 100th gas turbine to fuel the boom market for power generation equipment in the U.S.



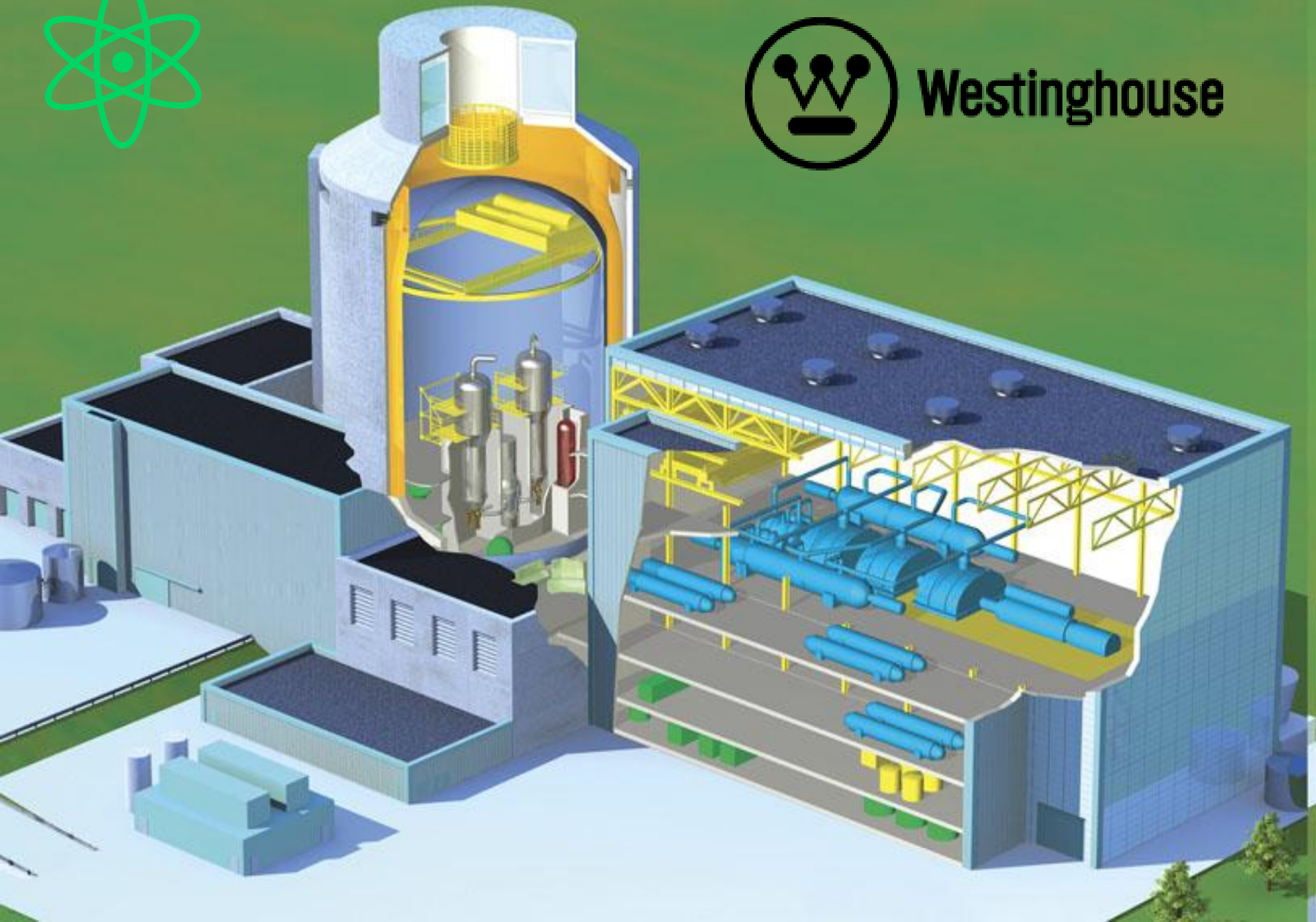
Single-stage steam turbine

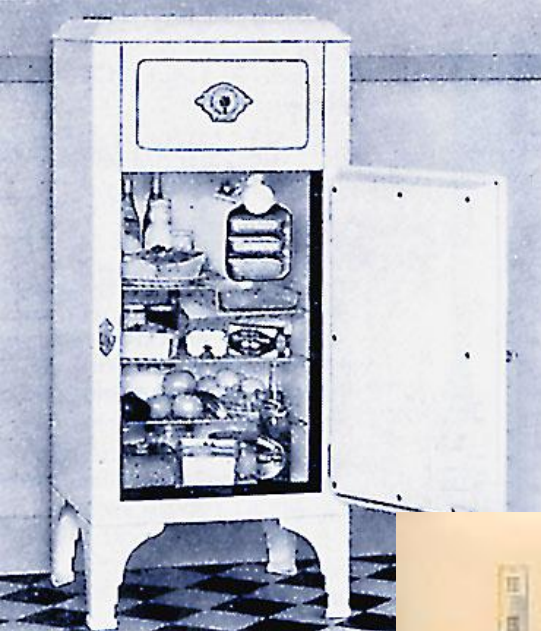


550,000 square feet of manufacturing space



Westinghouse





Circa 1930

the Exclusive New 1954
FOOD FILE Refrigerator



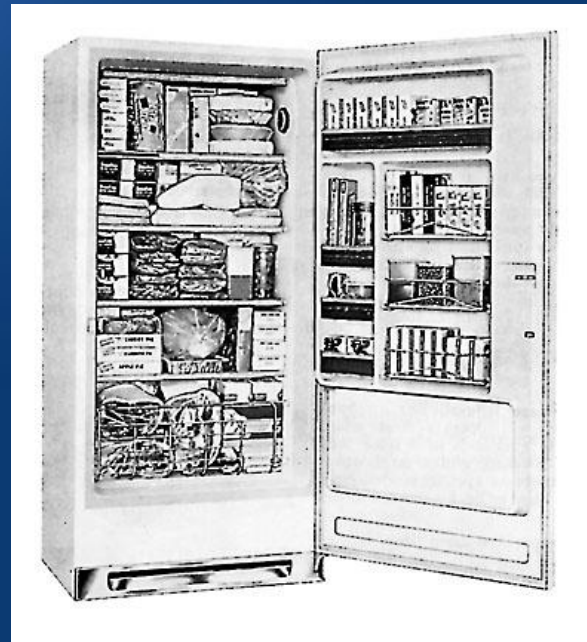
1954

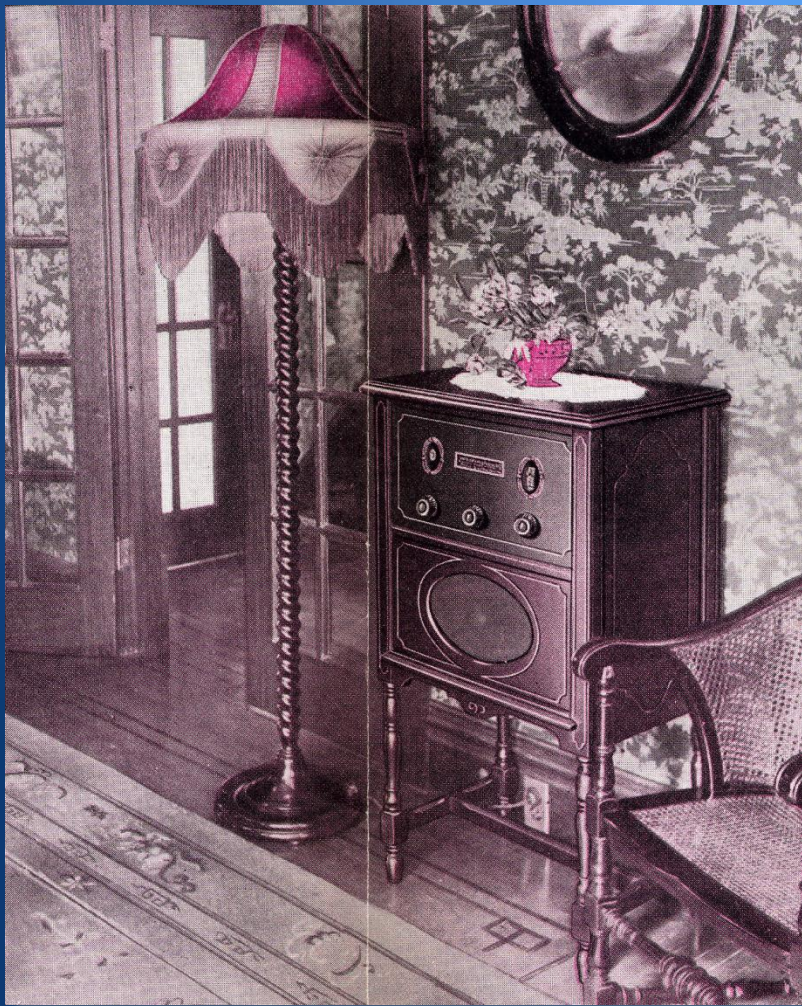
Circa 1970

It's New... It's the Two-Temp... It has room for 76 MEALS!

Every house needs Westinghouse

Circa 1940





The Westinghouse ESCORT

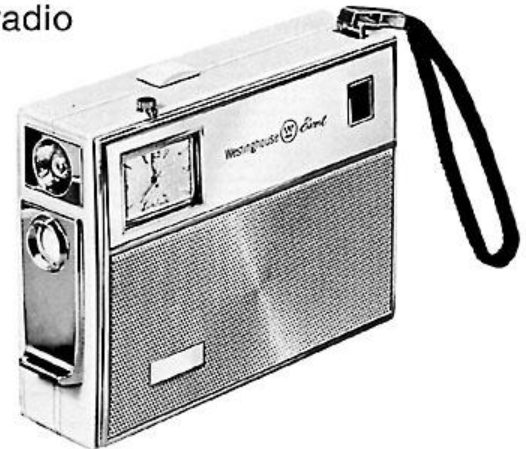
Would you believe . . .

- . . . it's an AM radio
- . . . a flashlight
- . . . a clock
- . . . a cigarette lighter

AND
it's only

\$21⁹⁵

Regular Price \$36.35







...of course,
it's electric!



Under-Counter Model . . . slips under the work surface in your present kitchen. Its low cost and easy installation also make it ideal for new homes.

New Westinghouse Roll-Out WASHWELL*

Holds more...does more than any other Dishwasher

Pile them all in . . . the dishes, the glassware, pots, pans...everything. This new Westinghouse Dishwasher holds them all . . . washes and dries them sparkling clean, ready to put away, at the turn of a dial.

Look them all over, there's no other Dishwasher like this superb new Westinghouse. The secret is in the Roll-Out WASHWELL.

It rolls out for easy, no-stoop loading. Rolls back at the touch of a finger for sparkle-clean washing. Thanks to the *exclusive* WASHWELL, this grand Westinghouse Dishwasher loads from the top, opens from the front. This leaves the work surface always available. And the WASHWELL is leakproof.

You'll glory in the over-sized capacity of this Dishwasher, too. The way it takes care of your largest dishes . . . the 11-inch plates, turkey-sized platters, tall stemmed goblets.

The washing action is superbly thorough, yet safe

for even your finest china and crystal. Reaches *inside* cups and glasses, cleans every corner. It dries dishes, too, in warm circulated air. Everything comes out of the WASHWELL shining and sanitary, ready to put away.

There are three different models . . . the 24-inch Cabinet Dishwasher that provides extra work space, the Under-Counter model that slips under standard work surfaces, and the complete Electric Sink with famous Westinghouse Waste-Away® Food Waste Disposer. And, good news, the installation cost may be up to 50% less than for most other makes.

This great new Dishwasher is making housework easier for thousands of homemakers. It can do the same for you. Your Westinghouse retailer can tell you why it's the best buy. See him and place your order *right now*. Westinghouse Electric Corporation, Electric Appliance Division, Mansfield, Ohio.

*Trade-Mark



Tremendous Capacity . . . Washes complete table service for four . . . plus pots and pans. Or dinner service for eight people. All at one time.



Waste-Away Food Waste Disposer is optional equipment in the Westinghouse 48" Electric Sink. Flushes away all food waste . . . even bones.

See TV's Top Dramatic Show . . . WESTINGHOUSE "STUDIO ONE" . . . Every Week

YOU CAN BE SURE..IF IT'S Westinghouse



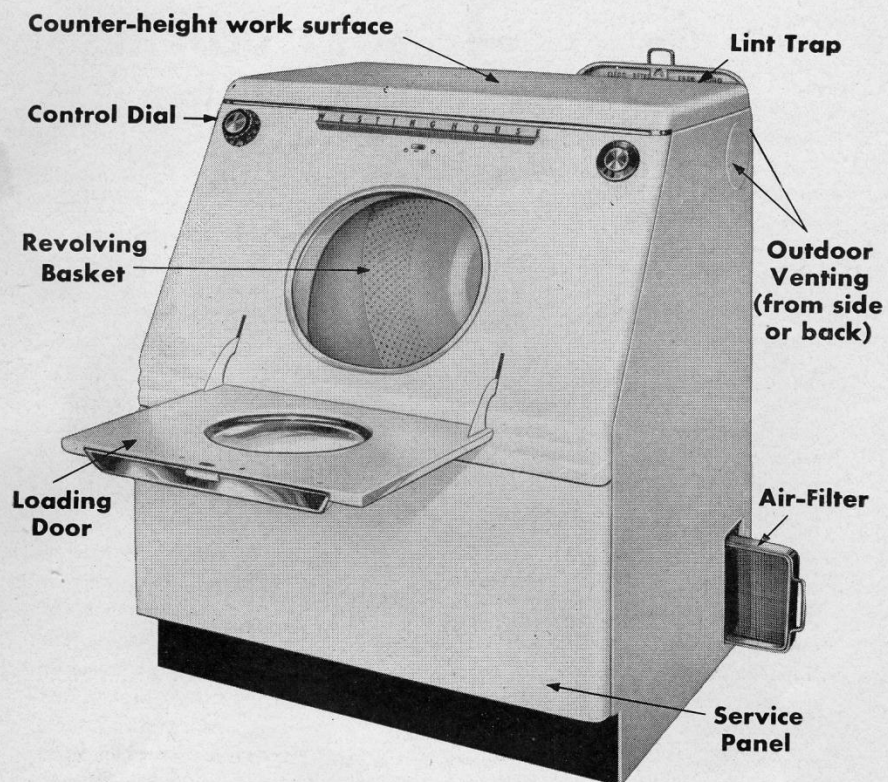
phil-are-go.blogspot.com

Your *Laundromat*

with Water Saver . . .



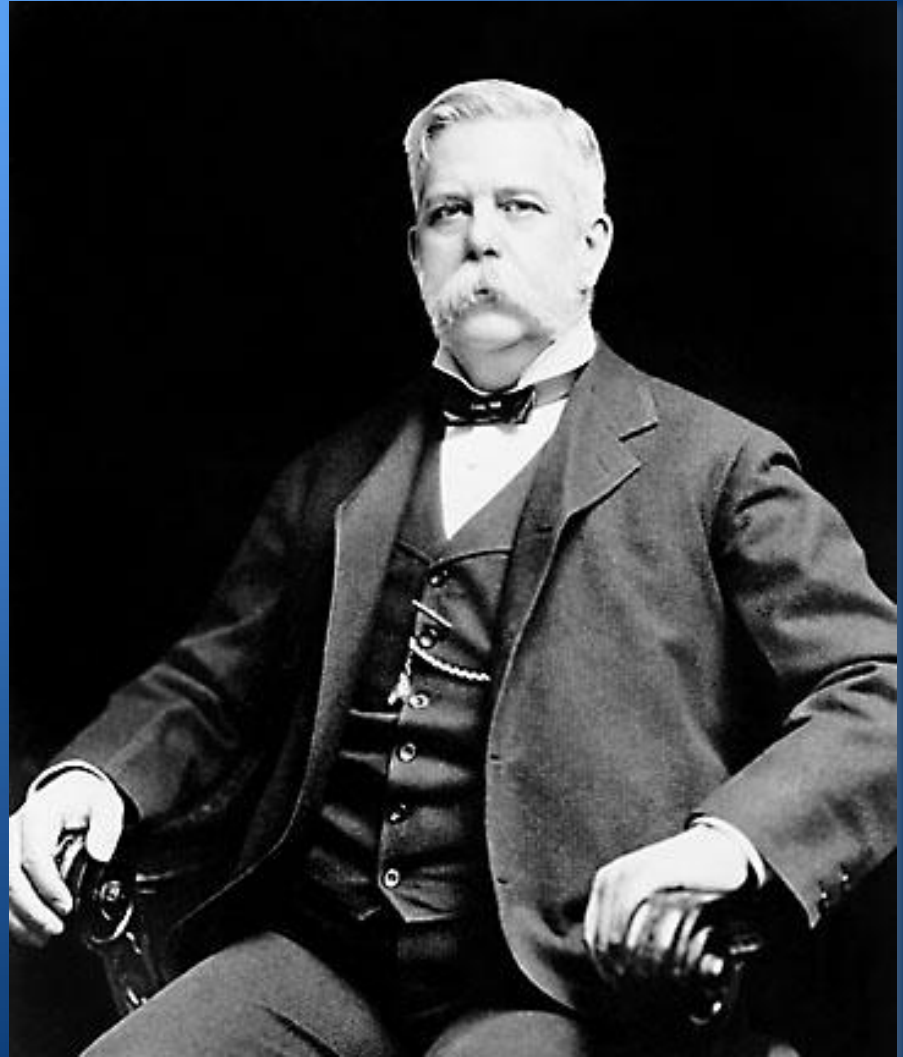
NEW ELECTRIC CLOTHES DRYER





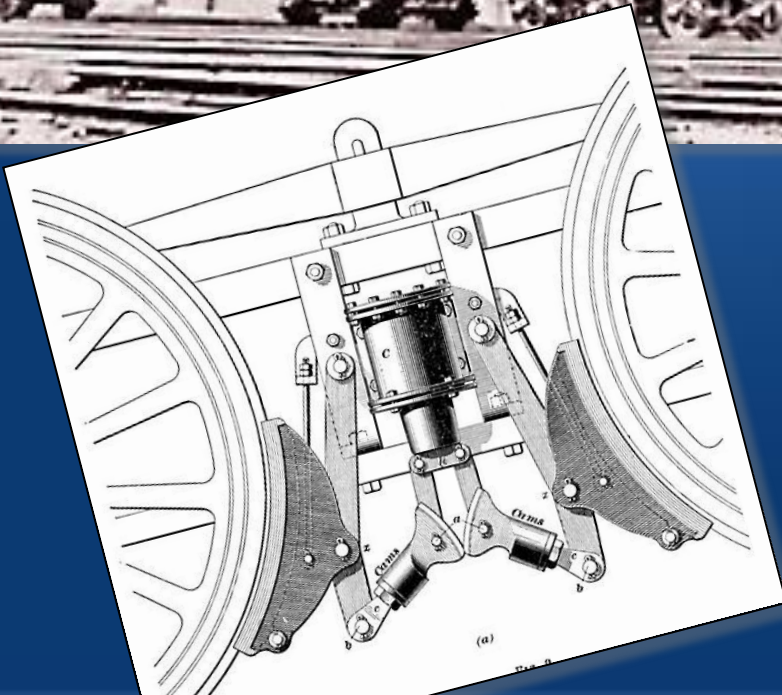
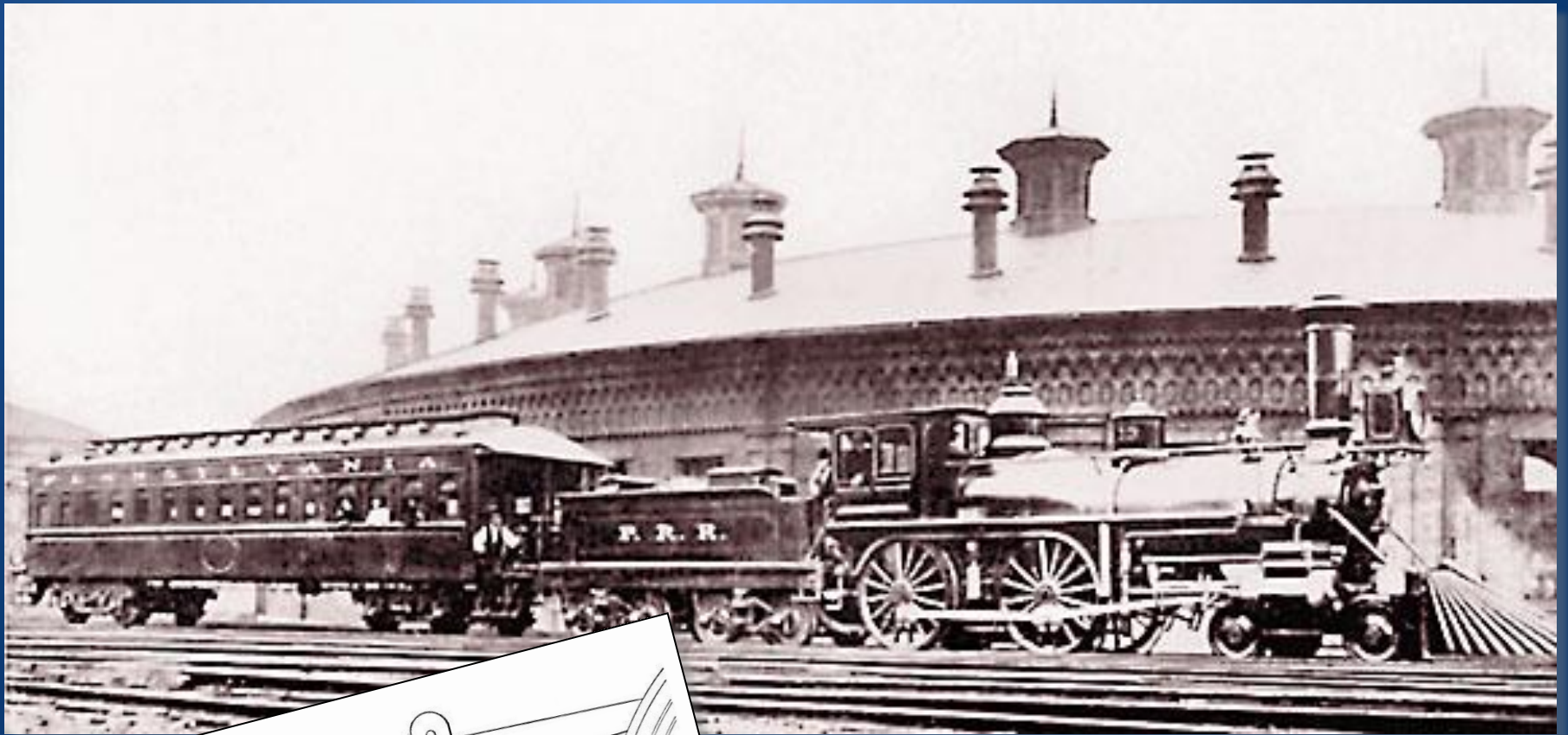


*“If someday they say of me
that in my work I have
contributed something to the
welfare and happiness of my
fellow men, I shall be
satisfied.”*



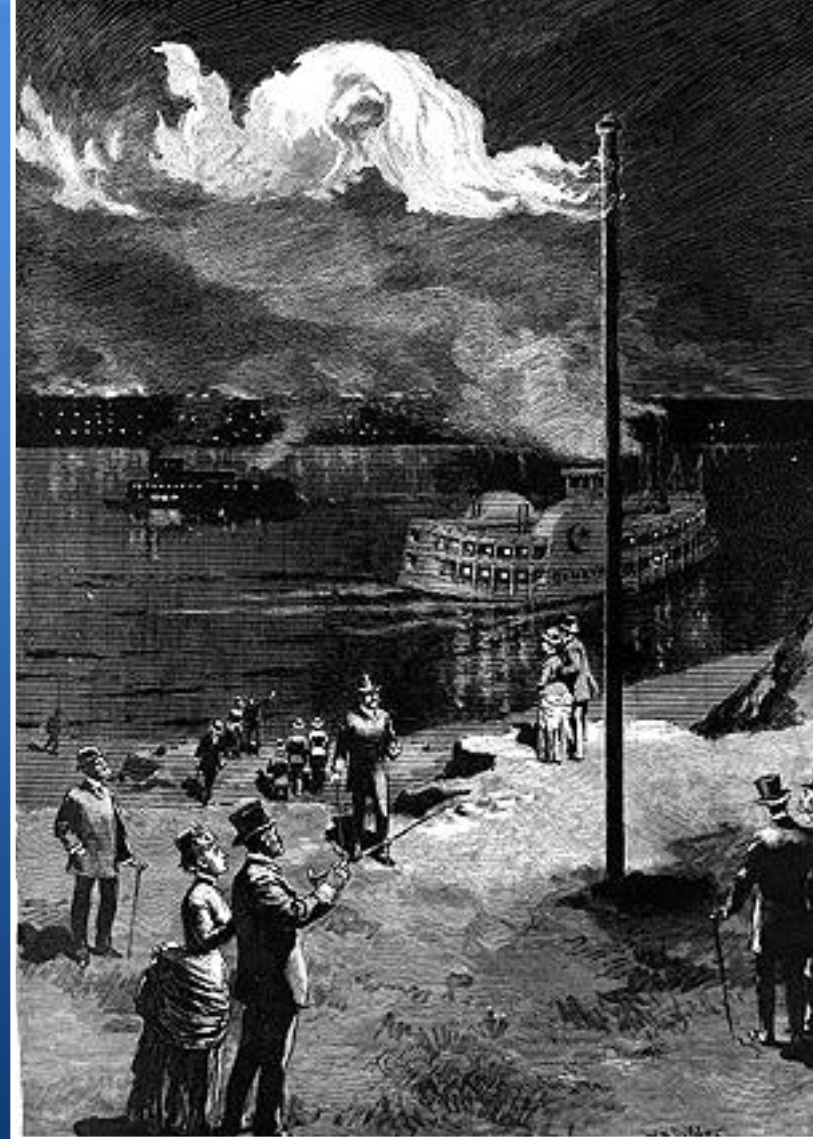
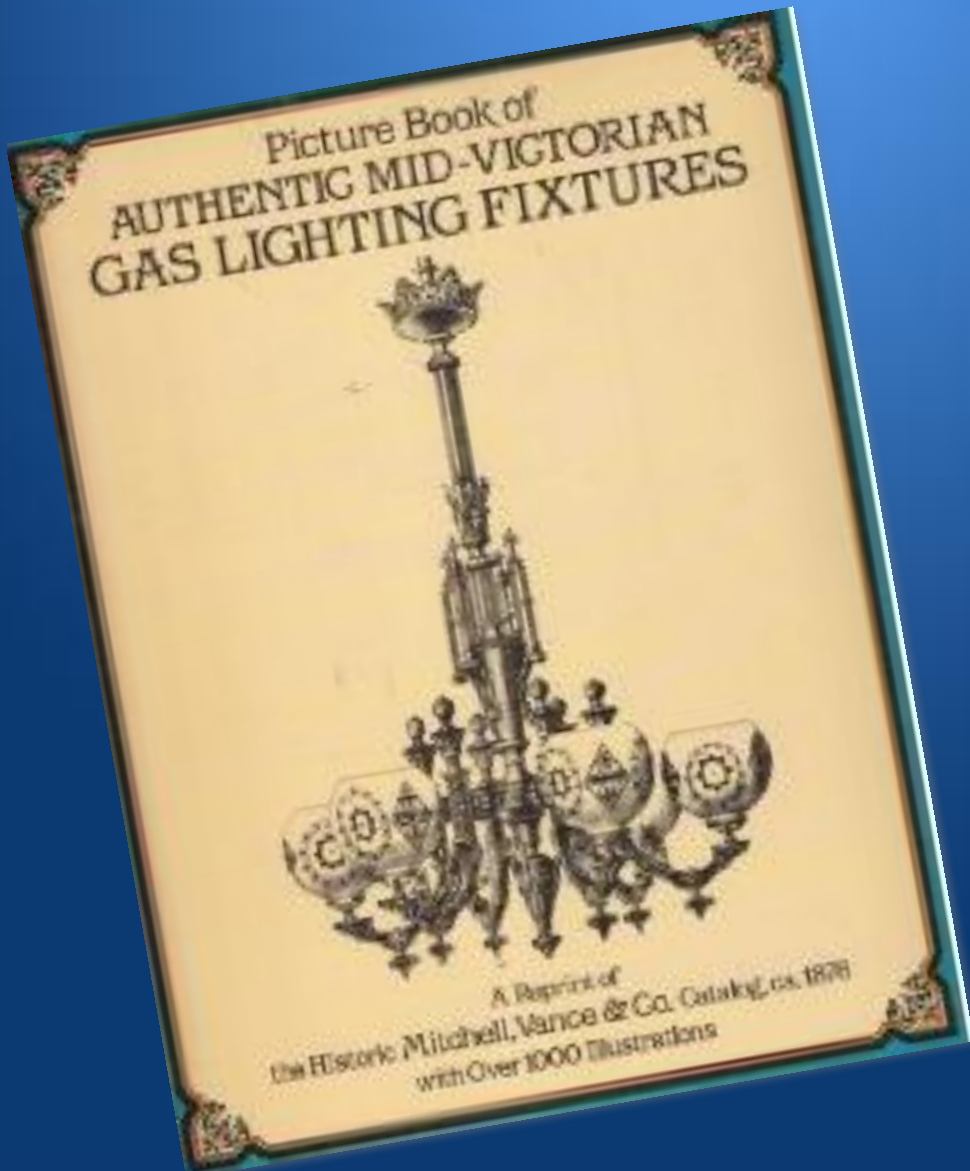
George Westinghouse

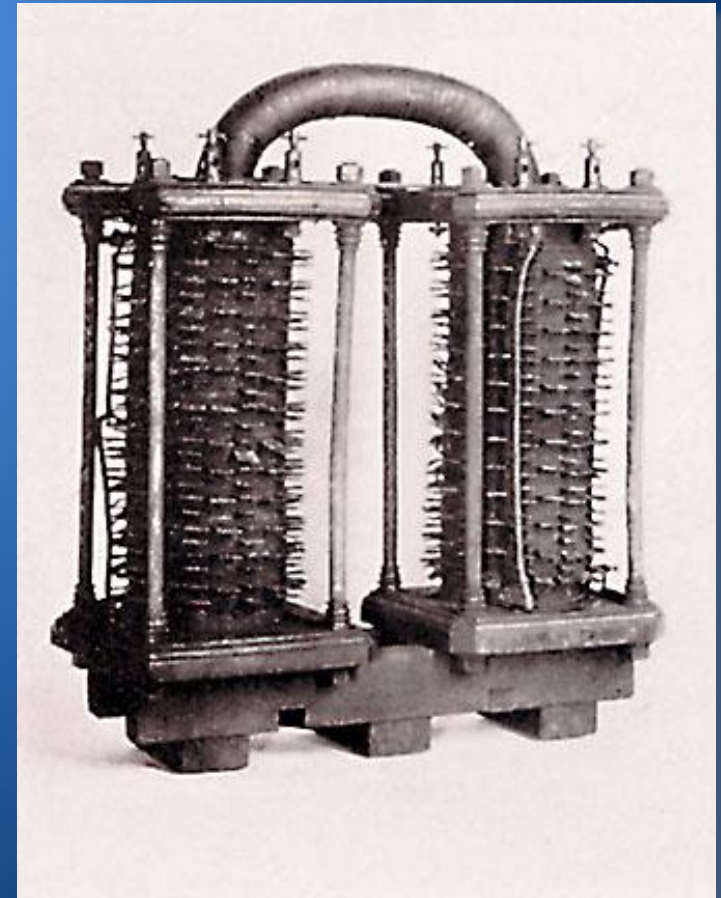
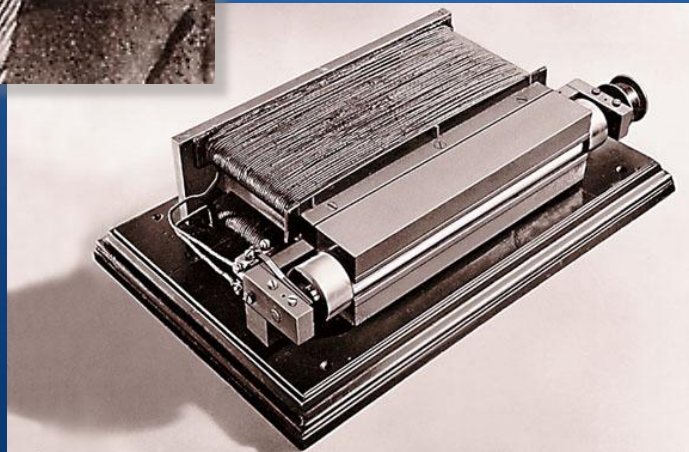
1846 - 1914



Air brakes

Natural gas





Gaulard and Gibbs
AC transformer -1885

The first Siemens dynamo produced 29 watts.

William Stanley's Transformer - 1886



IEEE MILESTONE IN ELECTRICAL ENGINEERING AND COMPUTING

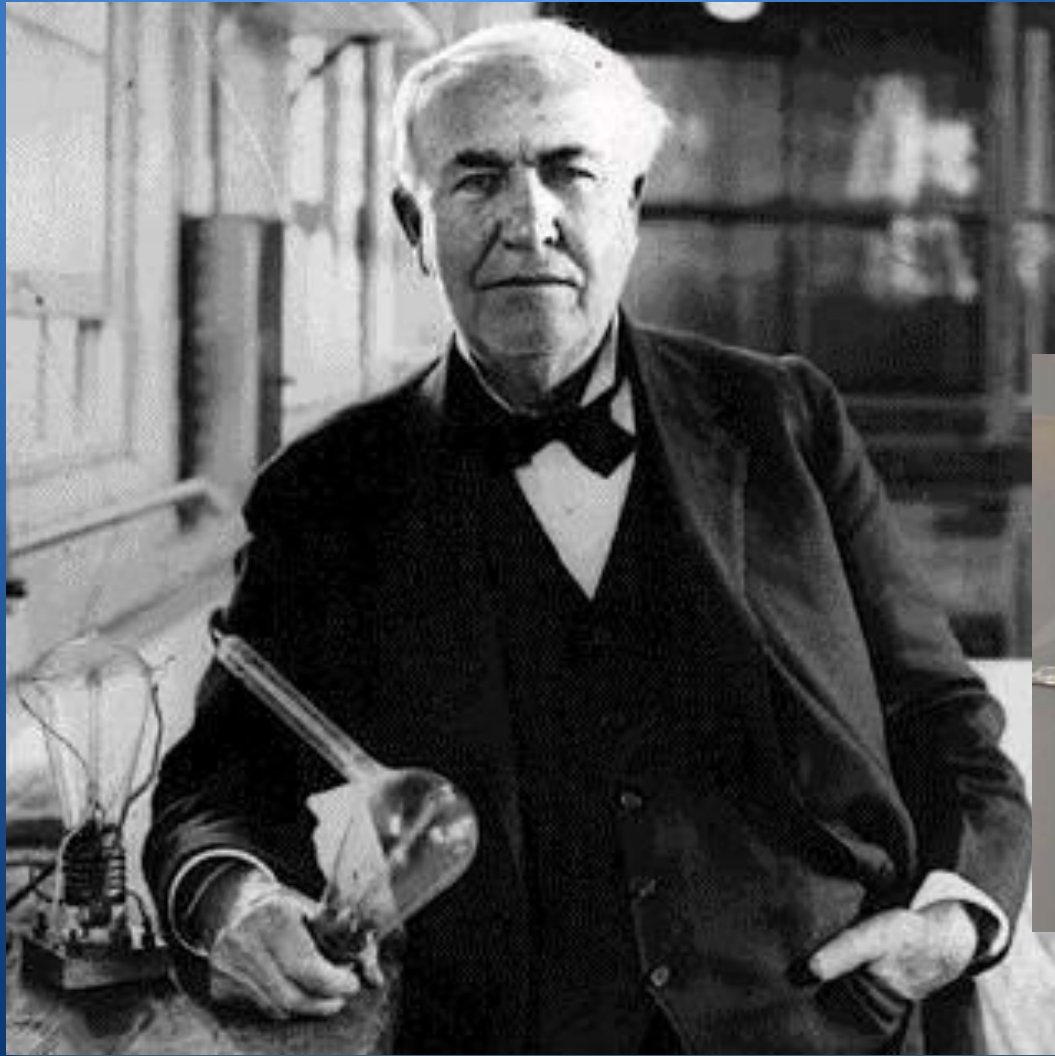
ALTERNATING CURRENT ELECTRIFICATION, 1886

On 20 March 1886 William Stanley provided alternating current electrification to offices and stores on Main Street in Great Barrington, Massachusetts. He thus demonstrated the first practical system for providing electrical illumination using alternating current with transformers to adjust voltage levels of the distribution system.

October 2004



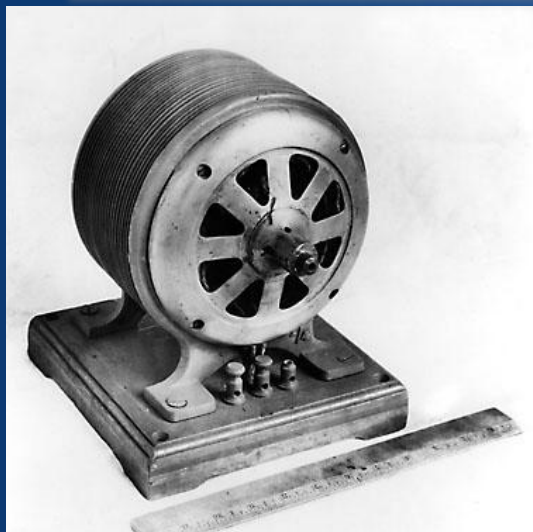
INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS



Early Edison
light bulb

Thomas A. Edison

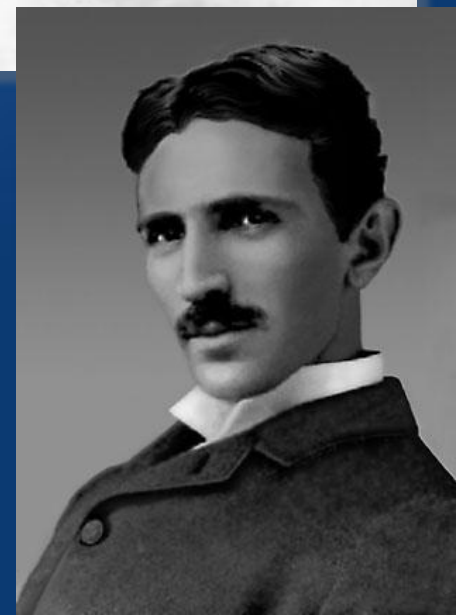
1847 - 1931



Tesla's AC motor – 1888

Nikola Tesla

1856 - 1943



First execution by electrocution 1890

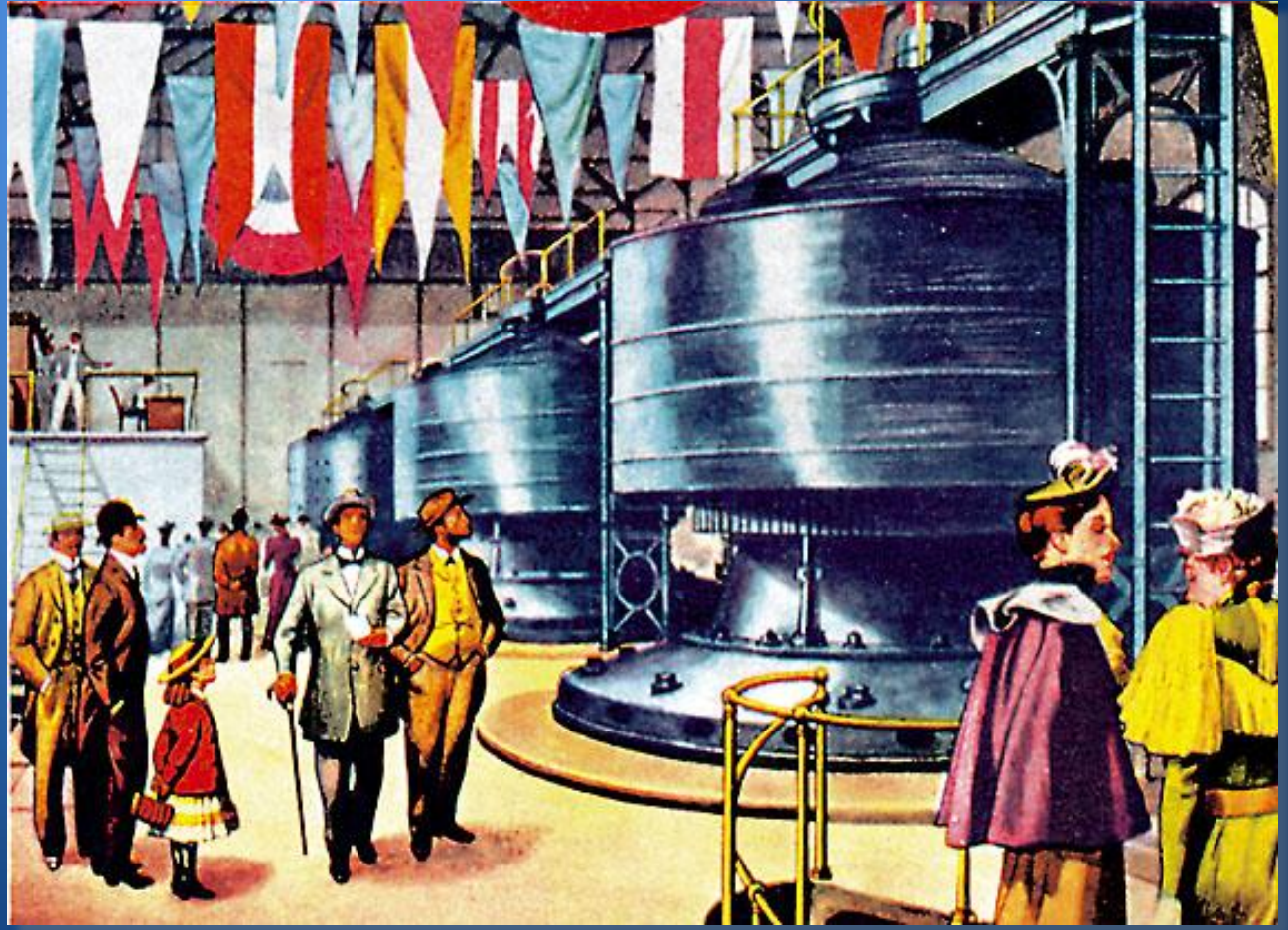
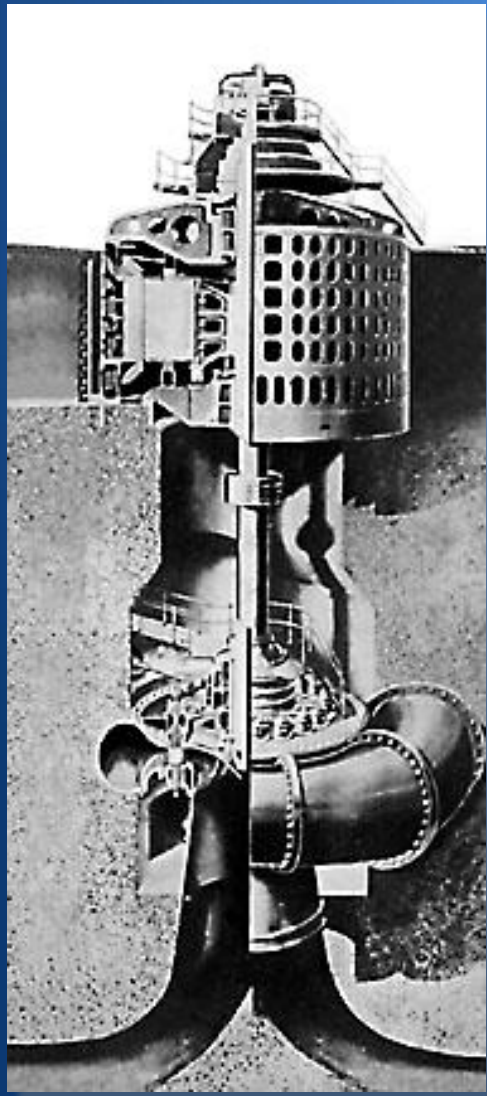


**Westinghouse
Stopper Lamp**

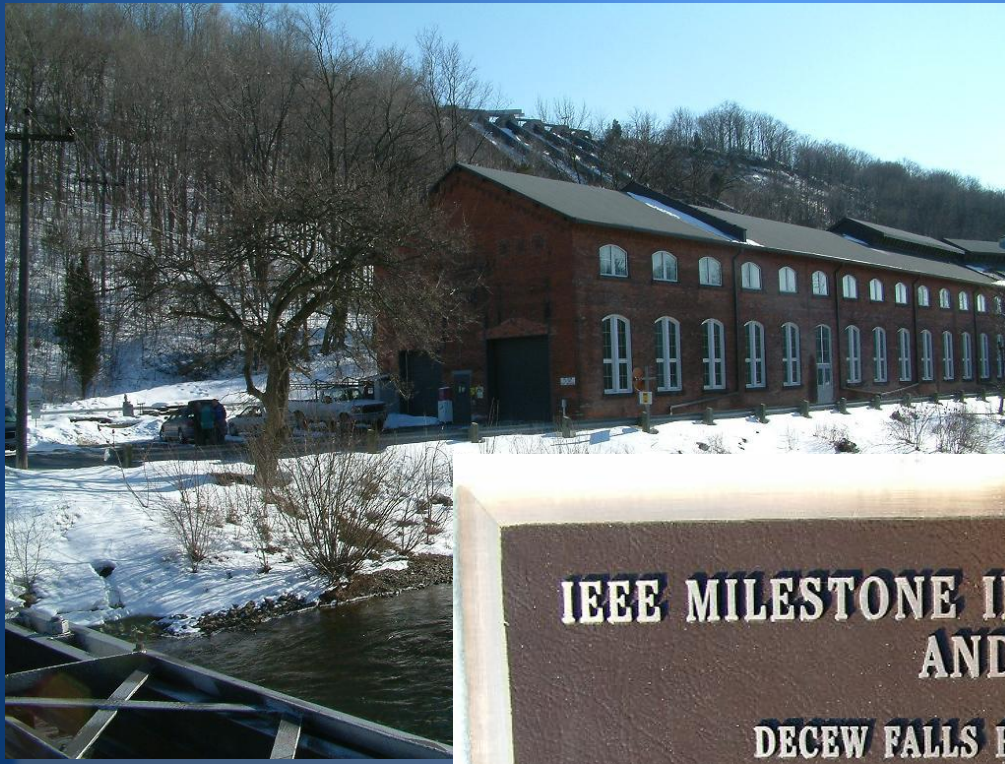


Columbian Exhibition

1893



Harnessing the Power of Niagara Falls



DeCew Falls

IEEE MILESTONE IN ELECTRICAL ENGINEERING AND COMPUTING

DECEW FALLS HYDRO-ELECTRIC PLANT, 1898

The Decew Falls Hydro-Electric Development was a pioneering project in the generation and transmission of electrical energy at higher voltages and at greater distances in Canada. On 25 August 1898 this station transmitted power at 22,500 volts, $66 \frac{2}{3}$ Hz, two-phase, a distance of 56 km to Hamilton, Ontario. Using the higher voltage permitted efficient transmission over that distance.

May 2004

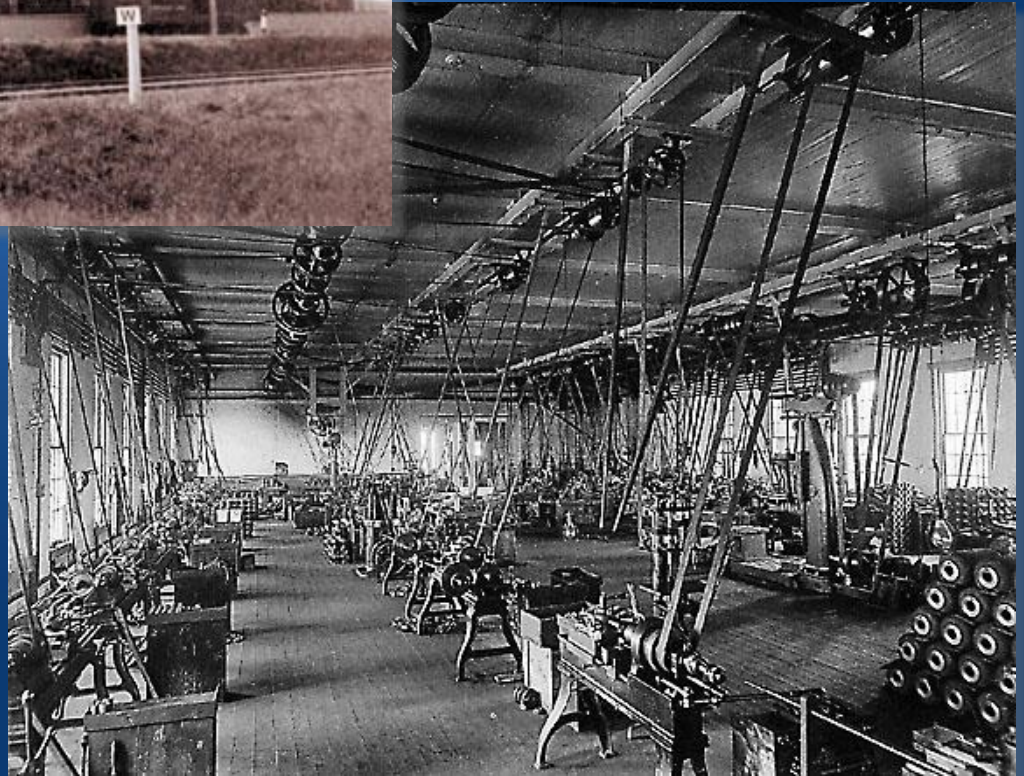


INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS



Machine shop
Pumphouse
Tool room
Storeroom
Packing area
Warehouse
Small brass foundry

*Westinghouse
Comes to Hamilton
1896*





Paul
Myler

Daily wages

Apprentices – 50 cents

Machinists - \$1.50

Engineers - \$1.50

Carpenters - \$1.75

Millwrights - \$2.50





**Completed
in 1905**

Features

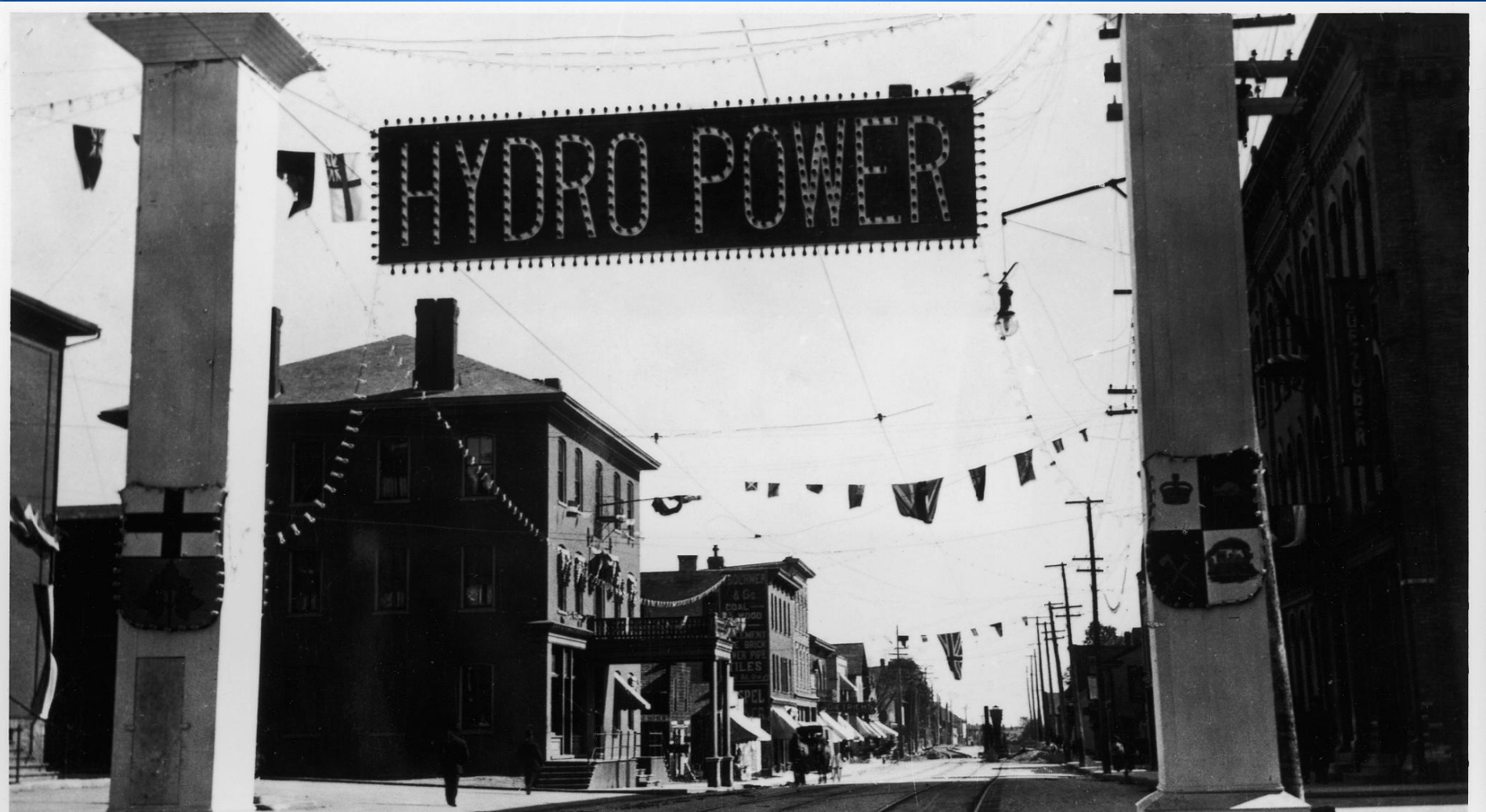
Industrial railway

Freight elevators

Compressed air system

Fire protection equipment

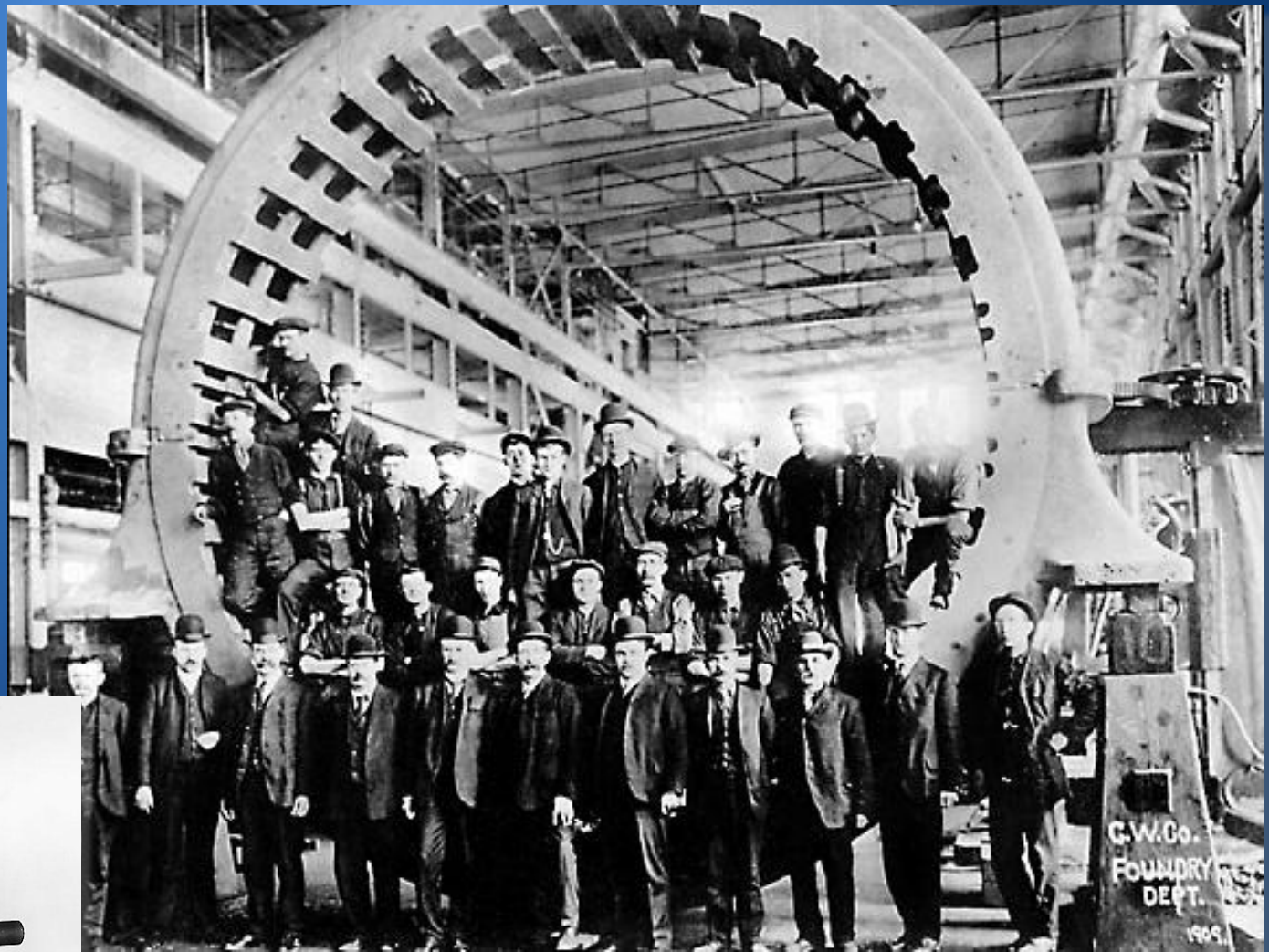




October 10, 1910

The first transmission of Niagara power to Berlin (Kitchener)

**Large
castings for
waterwheel
generators**

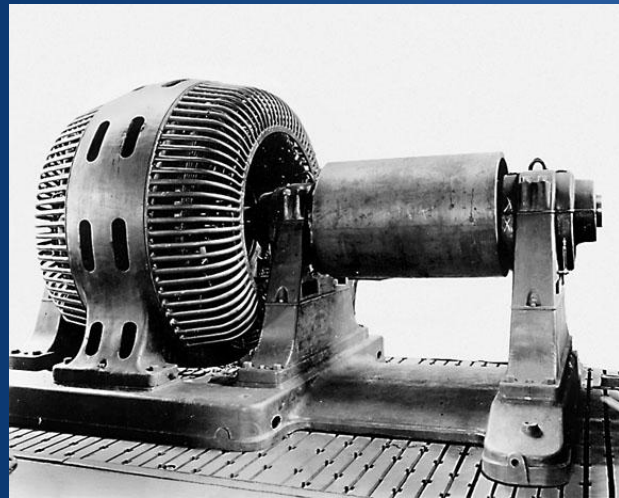
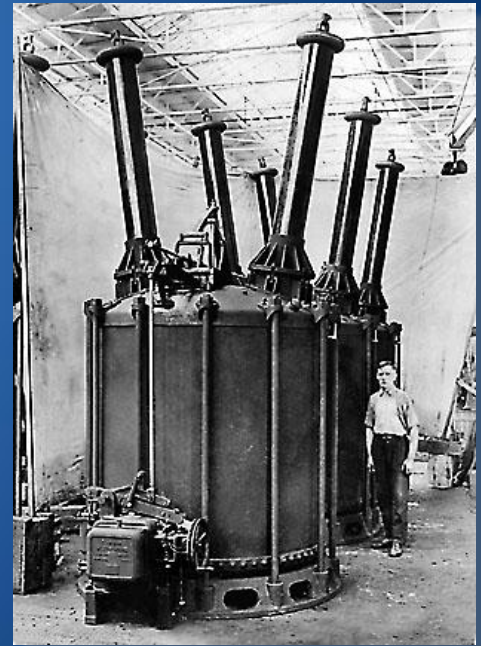


**First order – 1905
14 75-horsepower motors for the
Grand Trunk Railway**



Voltmeter

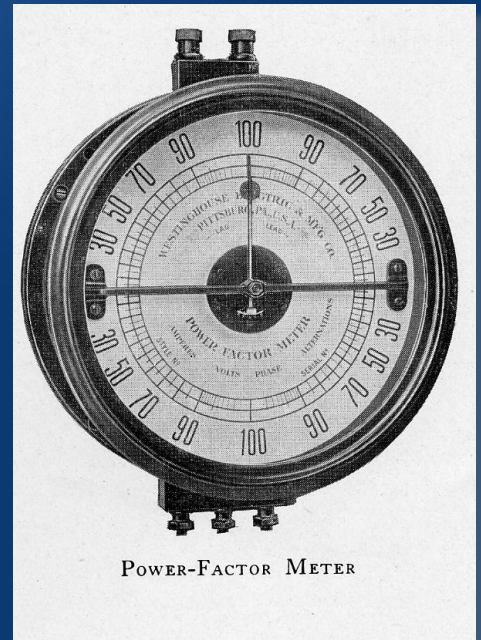
Oil circuit breakers



AC motor



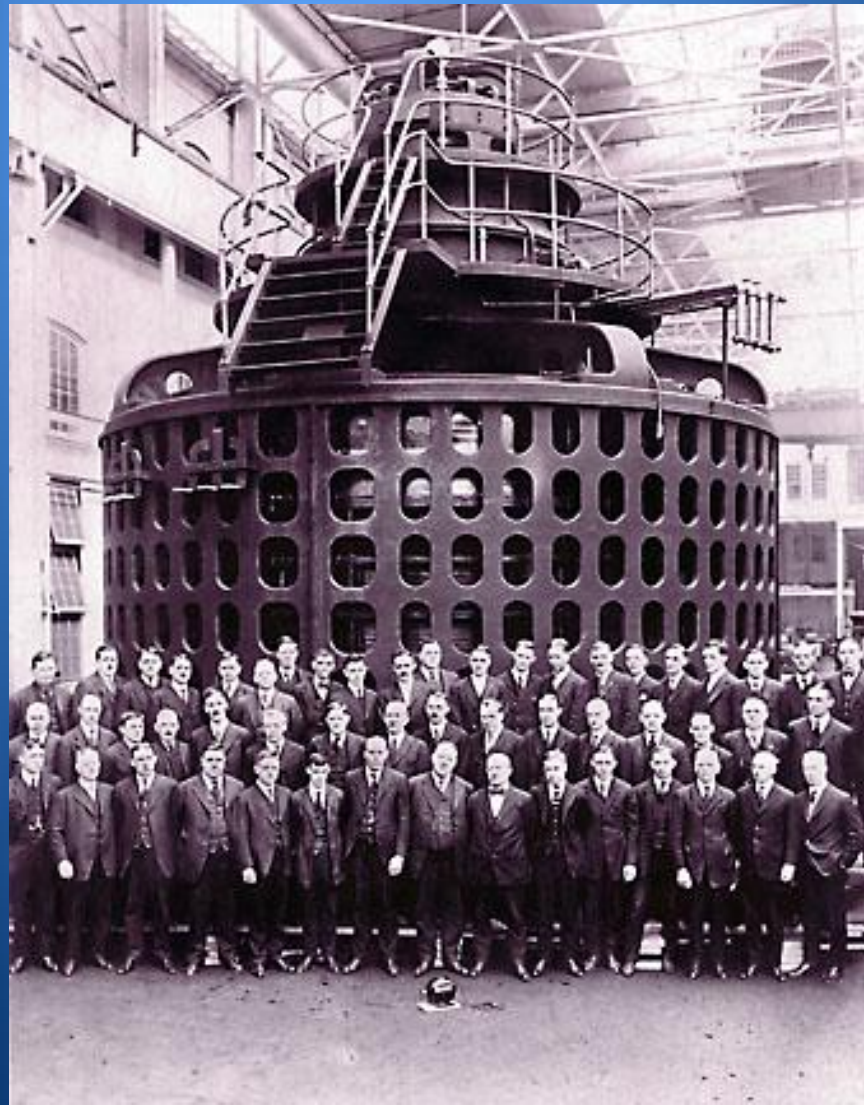
Wattmeter



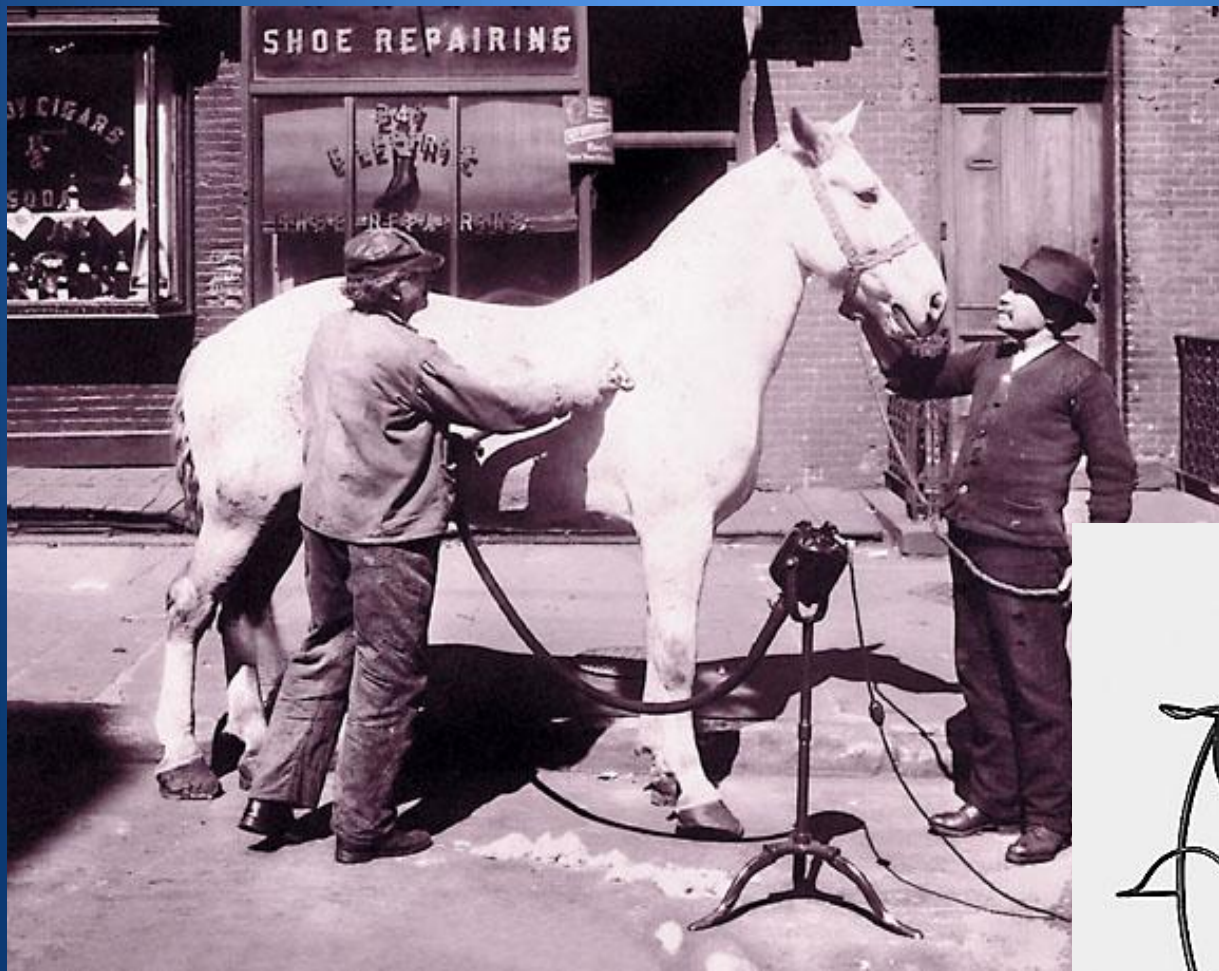
Power factor meter

POWER-FACTOR METER





From huge waterwheel generators to small motors



Horse clippers

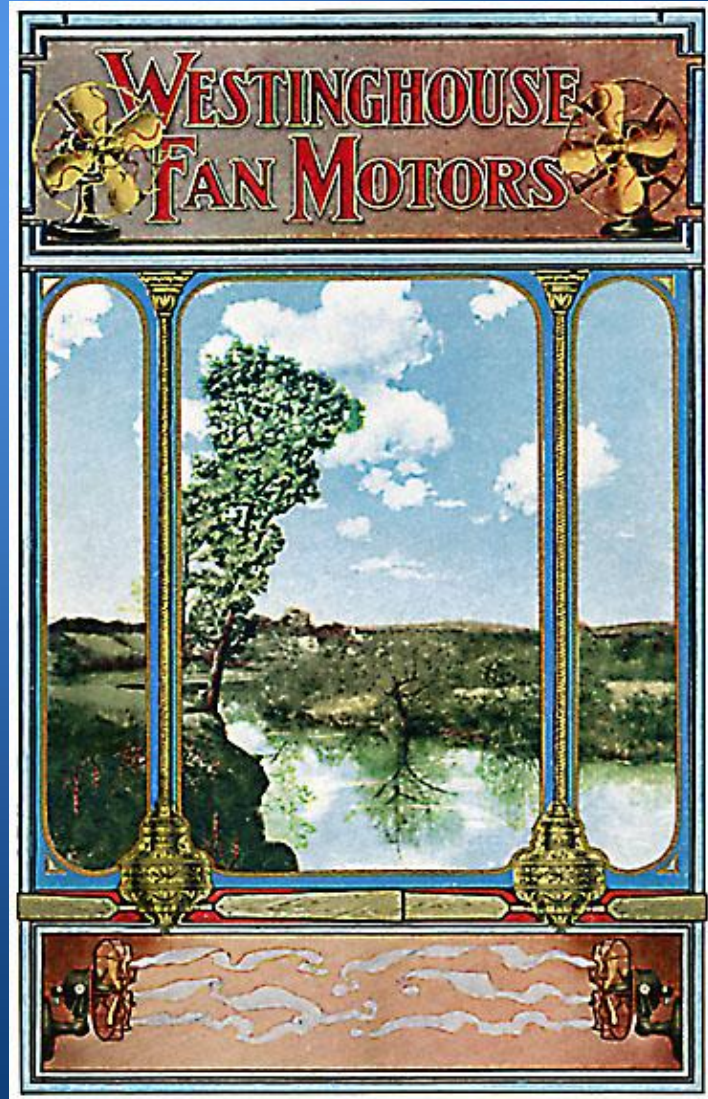
Fan




WESTINGHOUSE FAN MOTORS




1909



Advertising Materials




CANADIAN
WESTINGHOUSE
ELECTRICAL APPARATUS



The illustration depicts a Native American man on the left, dressed in traditional attire with a feathered headdress, holding a spear and a flaming torch aloft. To his right stands a woman in a long, flowing white dress, holding a glowing globe or light bulb high above her head. The background features a scenic landscape with a winding river, green hills, and snow-capped mountains under a bright sky. The entire scene is framed by a decorative border with a central panel containing the text and a logo at the bottom.

Westinghouse Pipe Thawing Apparatus



Canadian
Westinghouse Co., Limited
HAMILTON, ONT.

The illustration shows a winter scene with a snow-covered ground and bare trees. A utility pole stands in the foreground, and a red thawing apparatus is positioned at its base. In the background, a red house with a white roof is visible through the trees. The scene is framed by a decorative border with a central panel containing the title and a bottom panel with the company name and location.

The **WESTINGHOUSE**
COMPANIES *in the*
Railway &
Industrial Fields

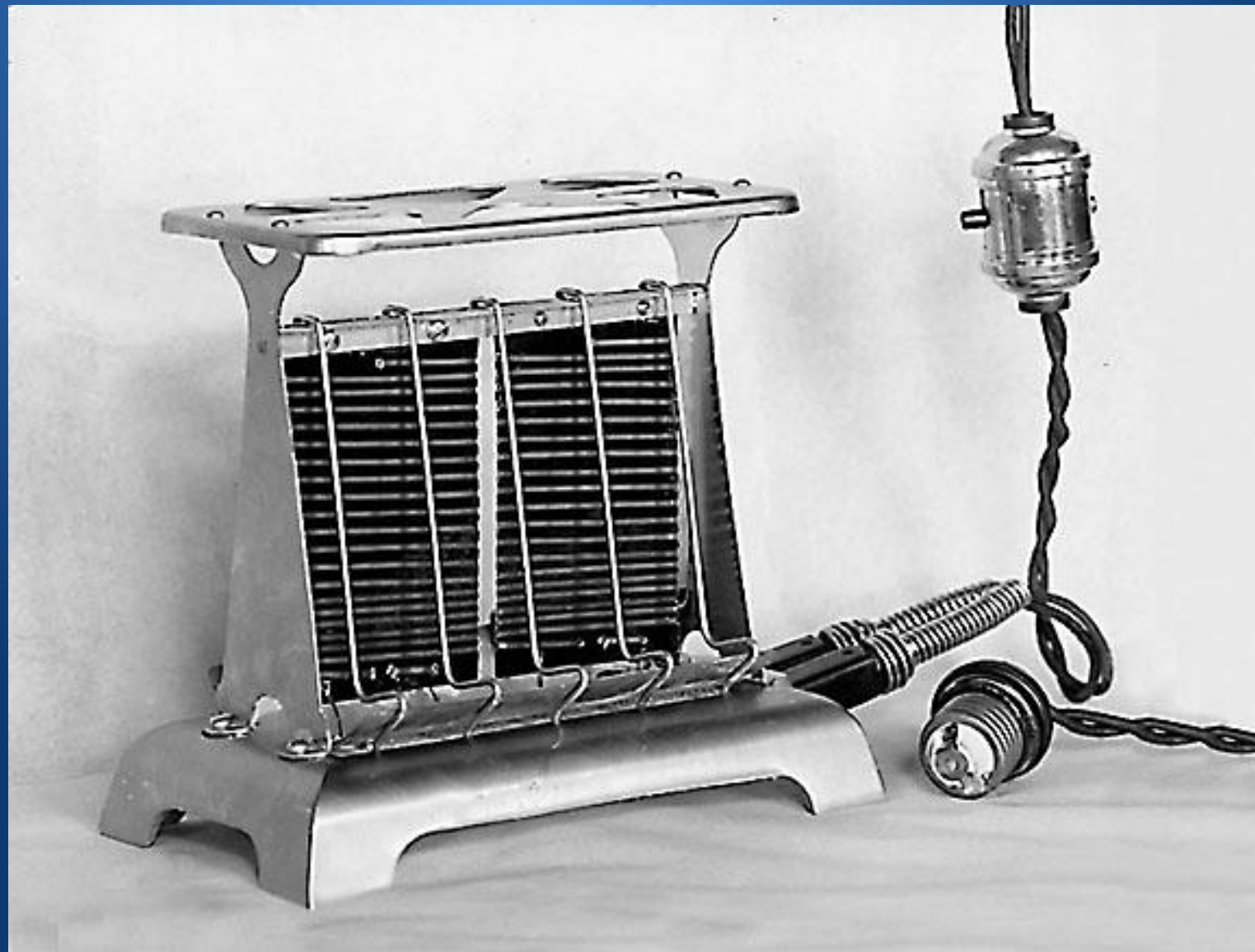


RAIL
W5296
3023
1905

Railway Equipments and Locomotives
in the
Far West



Westinghouse
Electric





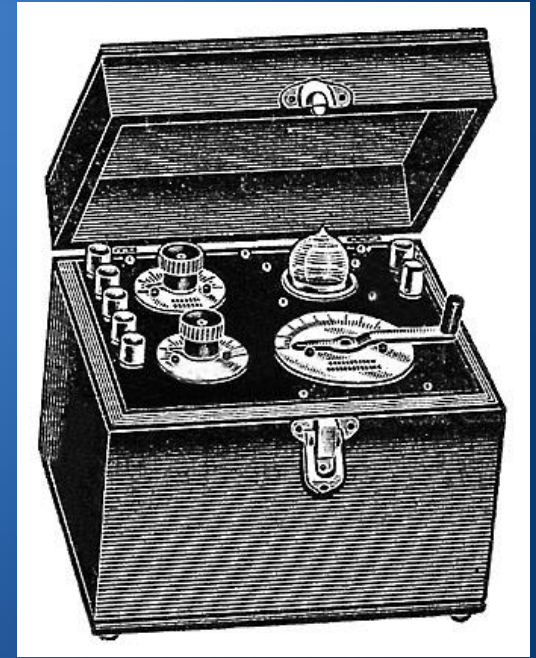
Westinghouse



TURNOVER TOASTER

The turnover feature permits you to turn the toast by a simple twist of knob. The brilliant, chrome finish presents an unusually attractive appearance, set off by the black Micarta turning knobs. An important part of the sturdy construction is the long life element designed for perfect heat distribution. Toast is browned evenly over the whole surface. **\$6.00**





Aeriola Senior - 1925
Picked up signals from
the majority of high-
powered Canadian and
American radio stations
Price: \$75

Westinghouse

NEW RADIO MODELS

for

1932-1933



833—Hiatory

4 Tube Full Range Battery Operated Superheterodyne.
140-1750 kc. Filament battery may be either 2 or 4, ranging up to 4000.
Tone and Loudness Features 540 to Variable Tone Control.
Continuously Variable Volume Control.
When Dial Sets with Hand Sliding.
Circuit Tone mounted on cabinet supporting surface.
Performance—Instruments and controls is comparable to any A.C. model.
Especially Fine Cabinet—having excellent musical qualities.
Size—17 1/2" height, 11 1/2" width, 11 1/2" depth.



122—Full Harmony

12 Tube Full-Harmony Superheterodyne.
140-1750 kc., 120-125 V., 25-60 A.C.
Tone and Loudness Features 540 to Grand Quality of Grand Quality.
Grand Quality of Grand Quality.
Performance—Instruments and controls is comparable to any A.C. model.
Especially Fine Cabinet—having excellent musical qualities.
Size—17 1/2" height, 11 1/2" width, 11 1/2" depth.

102—Full Harmony

11 Tube Full-Harmony Superheterodyne.
140-1750 kc., 120-125 V., 25-60 A.C.
Tone and Loudness Features 540 to Grand Quality of Grand Quality.
Grand Quality of Grand Quality.
Performance—Instruments and controls is comparable to any A.C. model.
Especially Fine Cabinet—having excellent musical qualities.
Size—17 1/2" height, 11 1/2" width, 11 1/2" depth.



Console Grand

12 Tube—16 tubes in Console 112.
Cabinet—of distinctive design built from highest quality materials.
Size—24" height, 17" width, 11 1/2" depth.



832—Console

4 Tube Full Range Superheterodyne.
140-1750 kc., 120-125 V., 25-60 A.C.
Tone and Loudness Features 540 to Grand Quality of Grand Quality.
Grand Quality of Grand Quality.
Performance—Instruments and controls is comparable to any A.C. model.
Especially Fine Cabinet—having excellent musical qualities.
Size—17 1/2" height, 11 1/2" width, 11 1/2" depth.

A Thrill for Everybody!

THE Westinghouse Radio Saloman has in the past been well recognized as price, cabinets and performance. That situation is changed. Westinghouse Radio stands today at the very top. Hundreds of thousands visited the Westinghouse display at the Canadian National Exhibition, August 26th-September 10th—all impressed with the beautiful array of cabinets—all surprised at the new low prices. But the big thrill are yet to come. The thrill of performance—that has never been known before. The thrill of taking orders from skeptics who thought all radios were alike. Old-time saloman, loyal customers and the hardware stores beyond this year agree with the Westinghouse slogan printed below:



102—Short Wave 832

Long Wave Features—also used in Console 832.
Short Wave Transmission—selective tuning.
Size—17 1/2" height, 11 1/2" width, 11 1/2" depth.
Performance—Instruments and controls is comparable to any A.C. model.
Especially Fine Cabinet—having excellent musical qualities.
Size—17 1/2" height, 11 1/2" width, 11 1/2" depth.

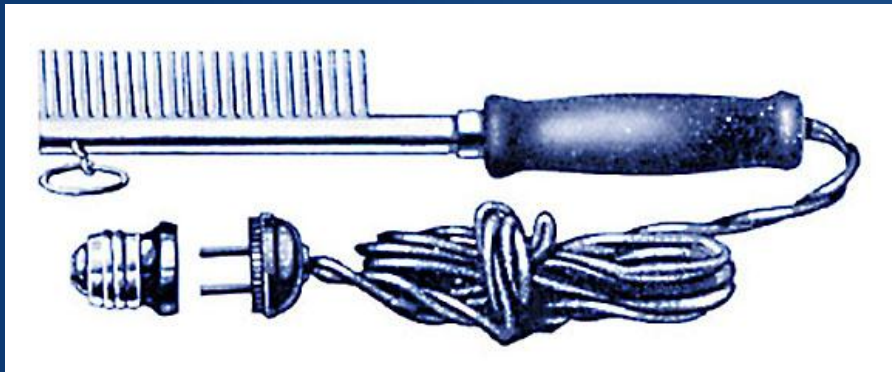
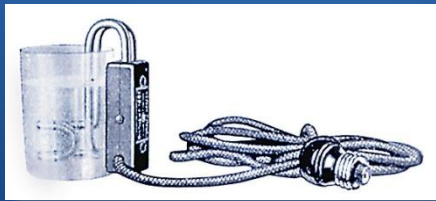


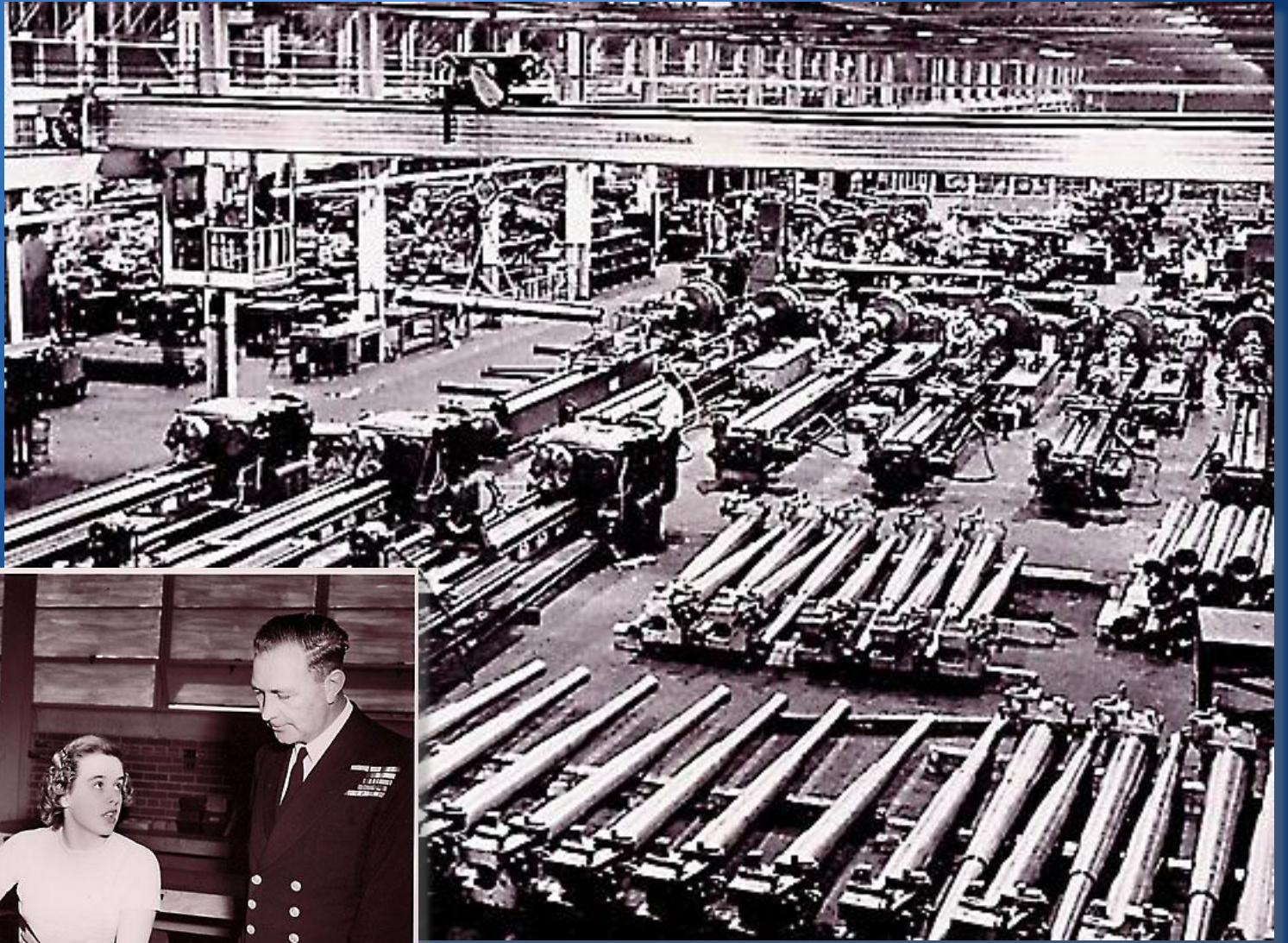
A SUPERIOR RADIO IN EVERY PRICE CLASS

Admiral Byrd
1928



Far north Broadcasts





We Can Do It!



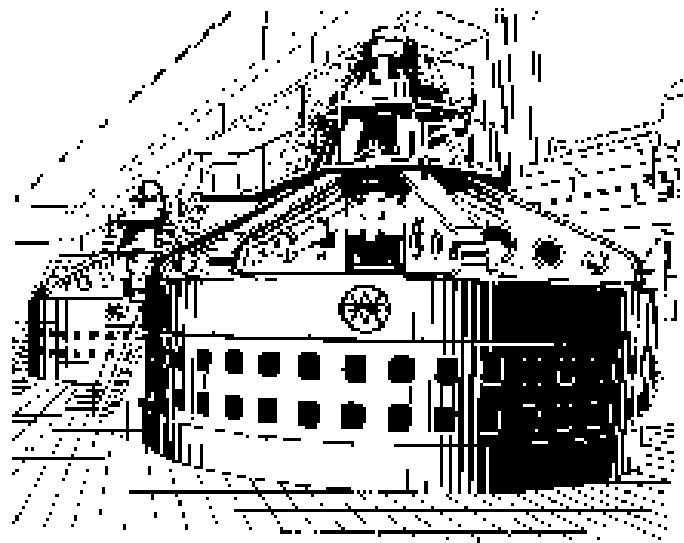
Westinghouse EMPLOYEES' MAGAZINE

VOLUME TWO

July, 1944

NUMBER FIVE





LARGEST
 Electrical Unit in the World
 — *Made in Canada!*

Called "Unit 1," this 30,000-hp. hydro-generating rotor has 40,000 lbs. of copper wire in it and has 1,000,000 lbs. of steel in it. It will produce 20,000 kw. per hour. It is the largest electrical machine ever made in Canada. It is the largest electrical machine ever made in the world.

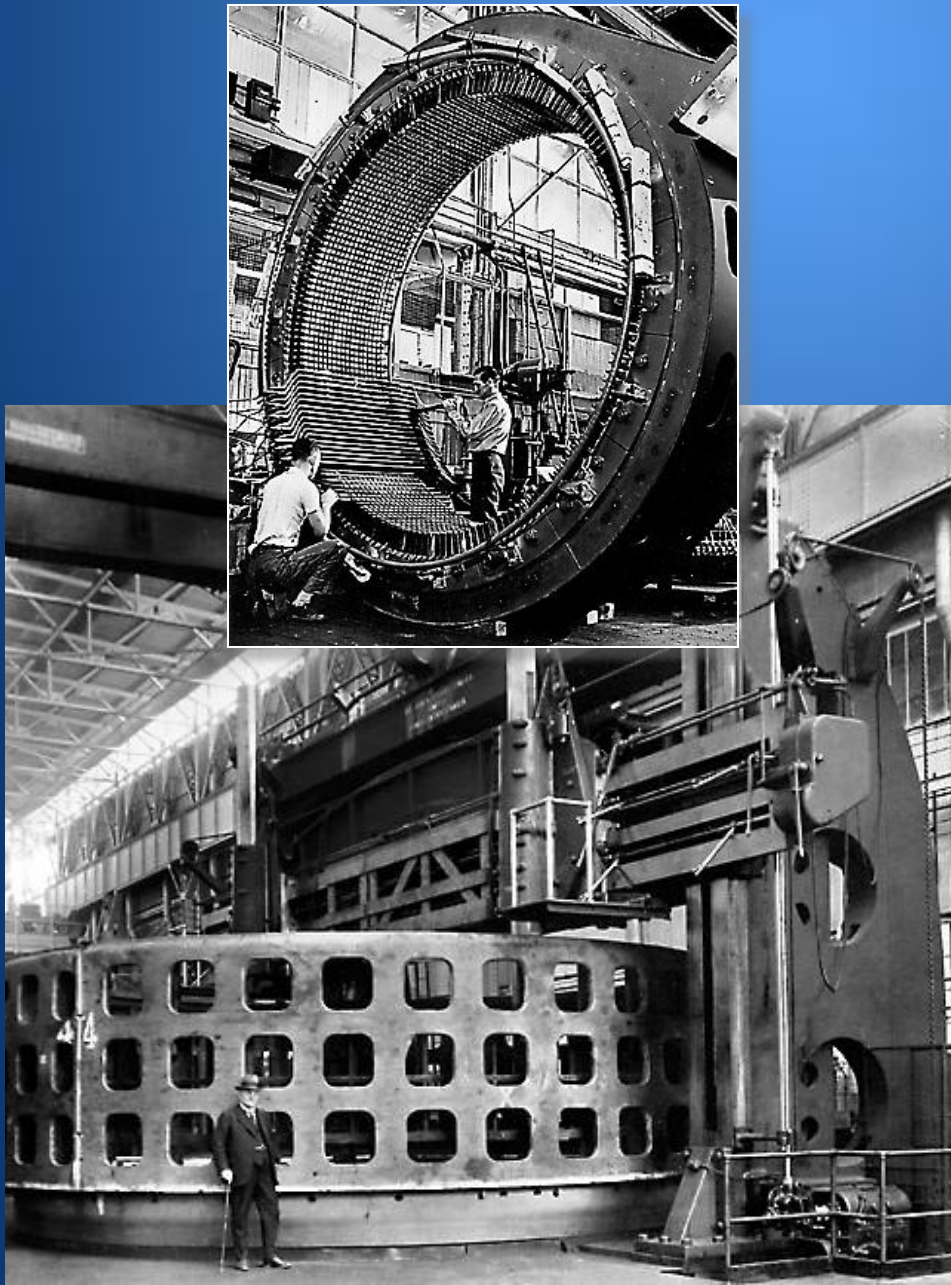
The unit is being developed by the Canadian Hydro Electric Development Corporation. It is the largest electrical machine ever made in Canada. It is the largest electrical machine ever made in the world.

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EVERYTHING CANADIAN

Westinghouse

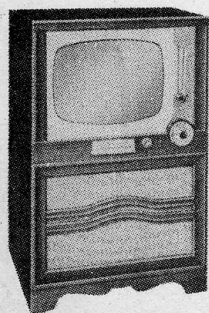
CANADIAN WESTINGHOUSE Co., LIMITED
 100 KING STREET WEST, TORONTO



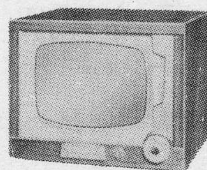


GENERAL DESCRIPTION

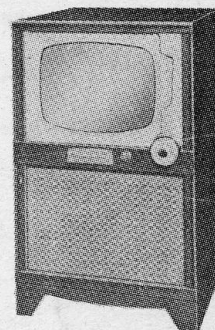
These models are 16 tube Television Receivers incorporating a 17" direct viewing picture tube. Models 17TVD6C and 17TV7C have a 3 tube B.C. tuner incorporated.



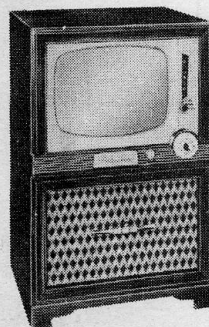
17TVD6C



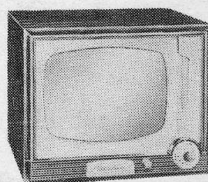
17TVD7T



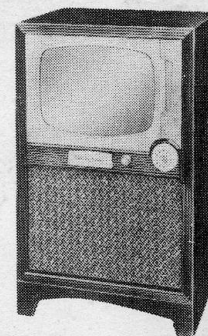
17TVD13K



17TV7C



17TV8T

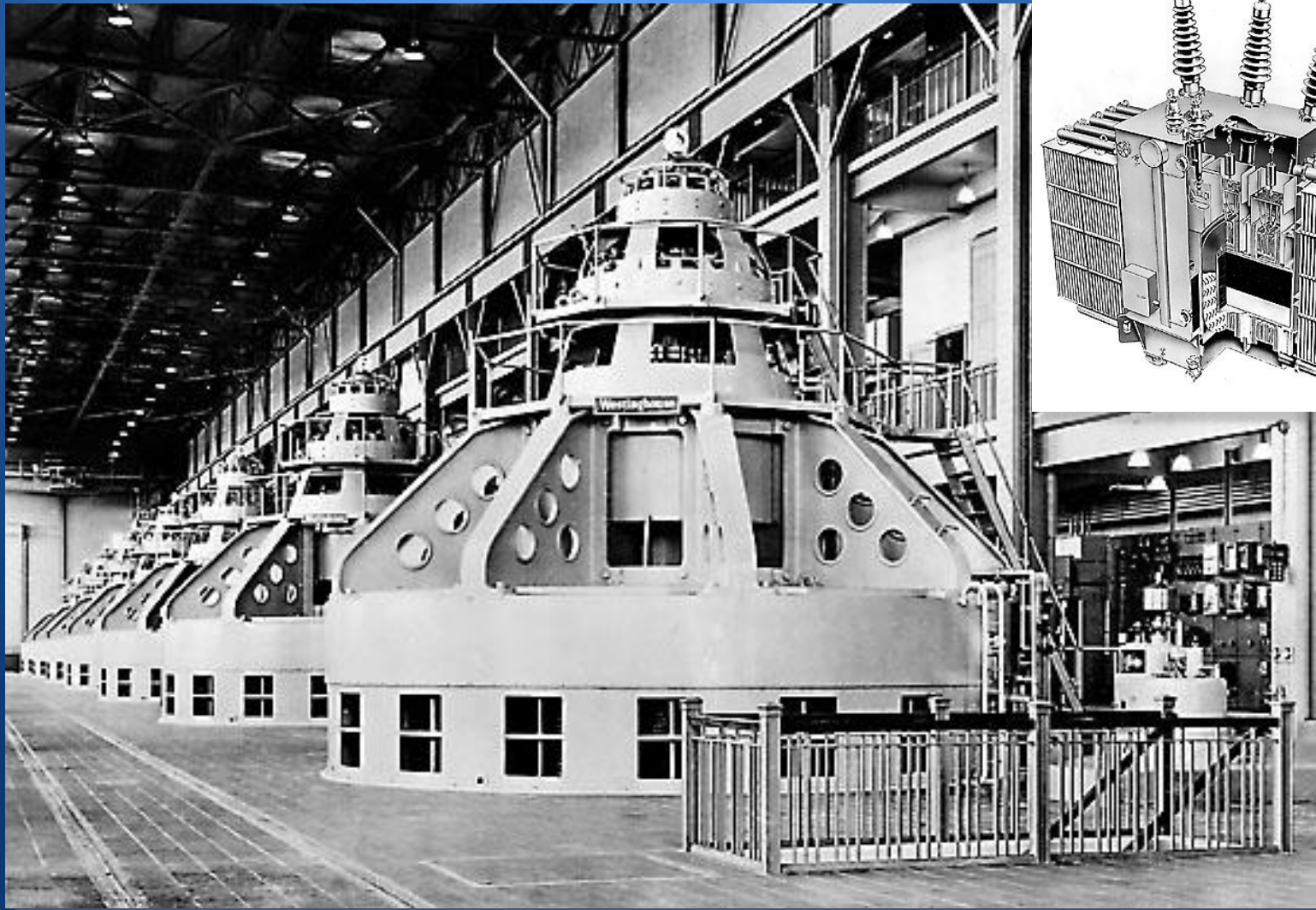


17TV14K

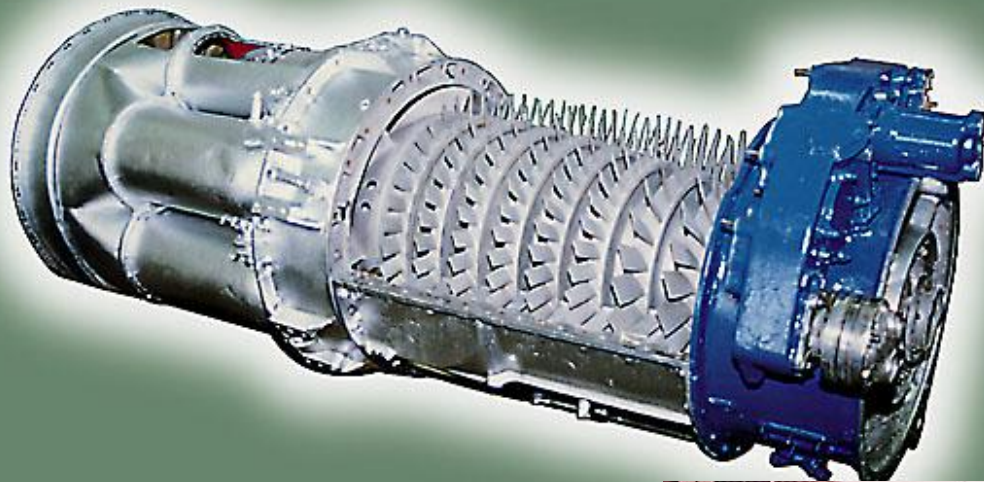
CANADIAN WESTINGHOUSE COMPANY, LIMITED

Appliance Service - Electronics Division

Hamilton, Ontario

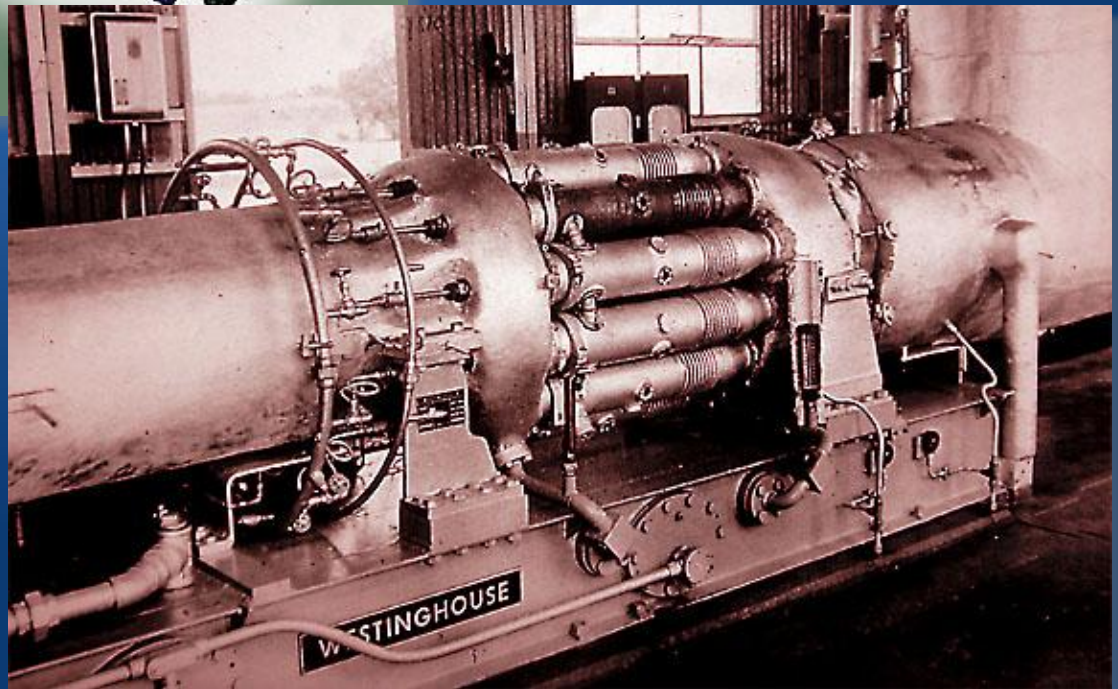


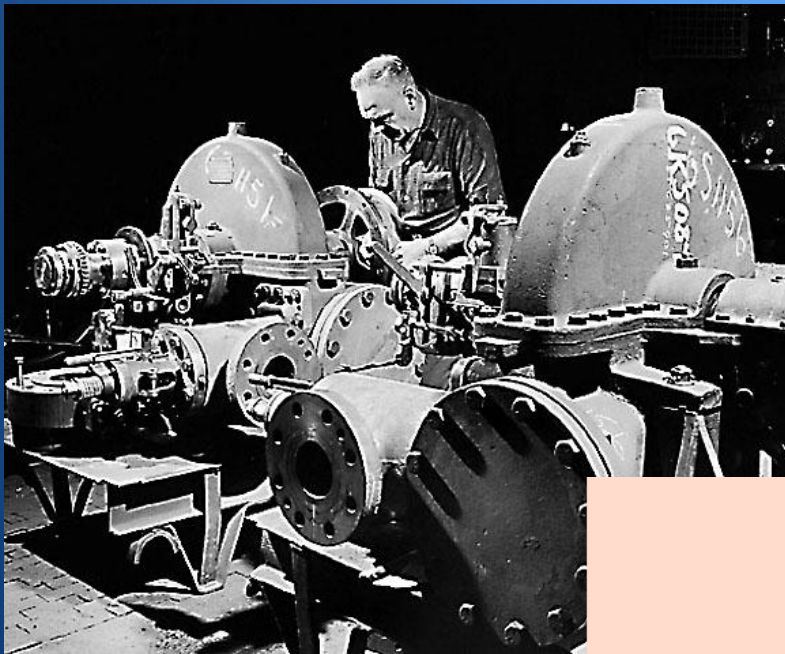
St. Lawrence Seaway Project



J34 aero-engine

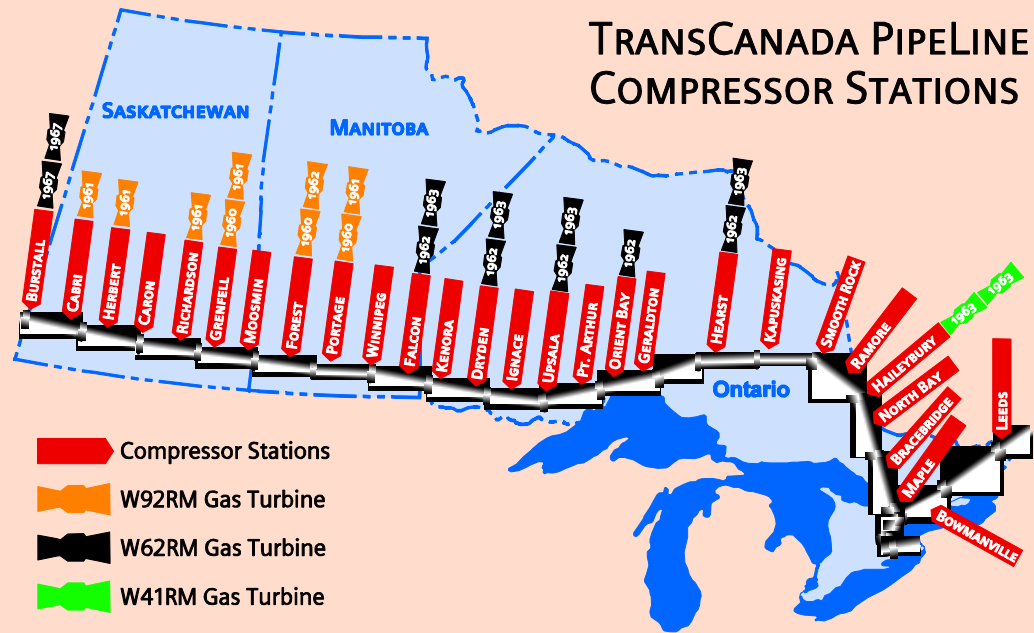
**First 5,000 kW
Westinghouse gas
turbine for West
Texas Utilities**



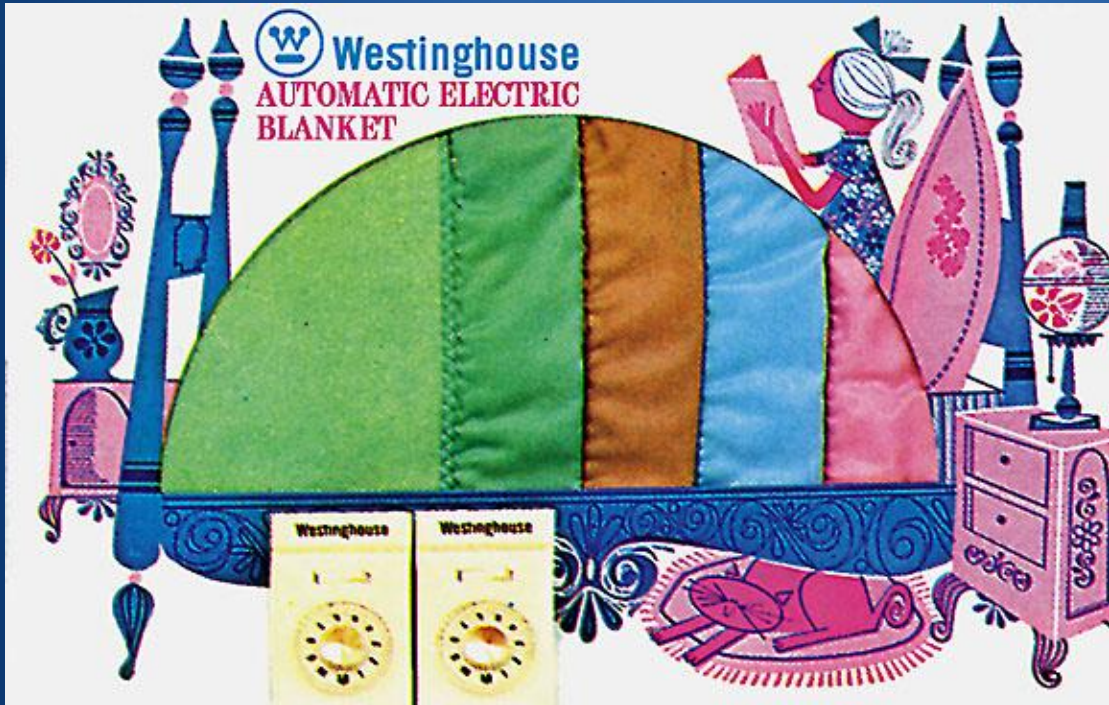
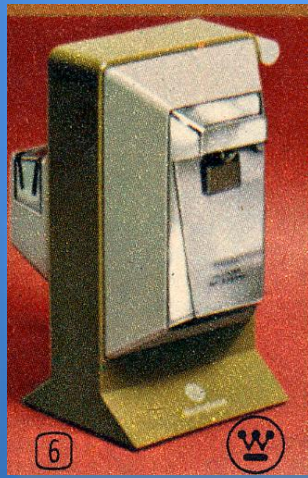


E125 steam turbines
used to start W62 and
W92 gas turbines

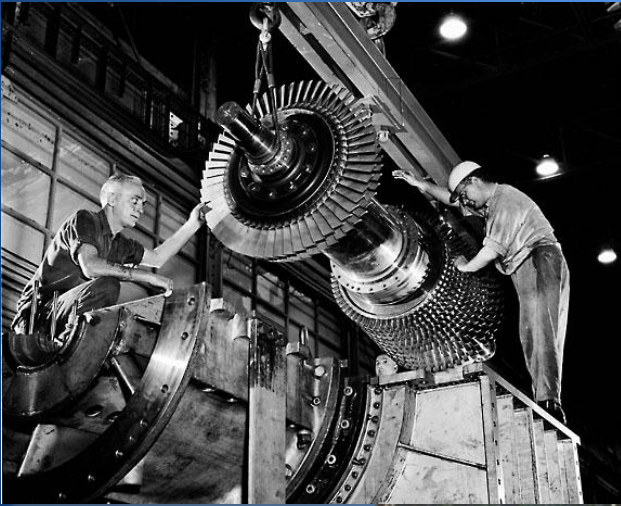
Compressor
drive gas
turbines for
TransCanada
PipeLine











W E S C O

Westinghouse Sales and Distribution Inc.

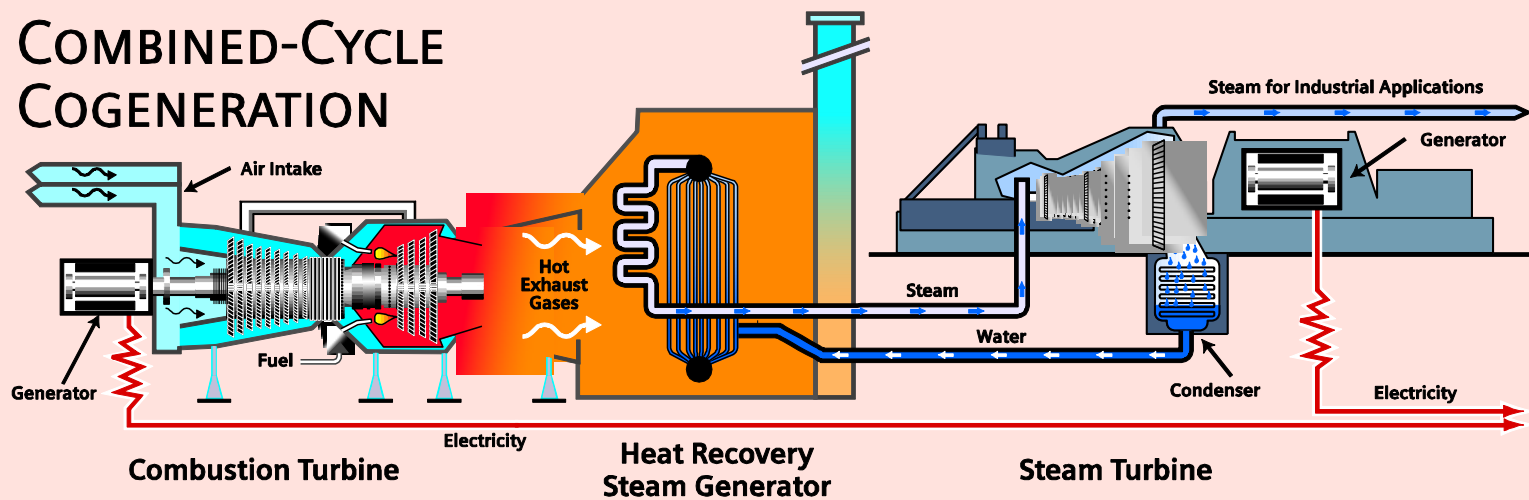


CBS 





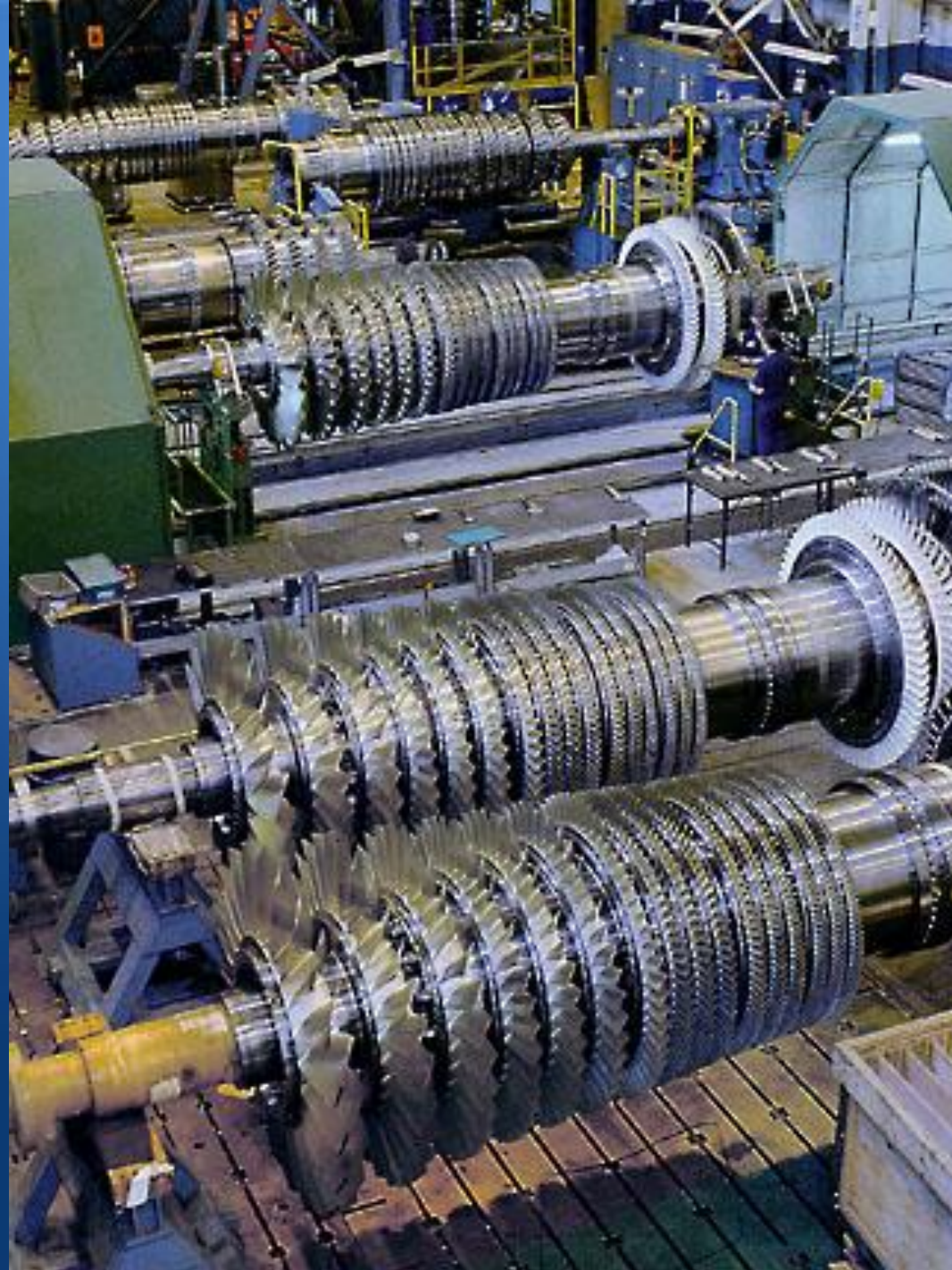
COMBINED-CYCLE COGENERATION



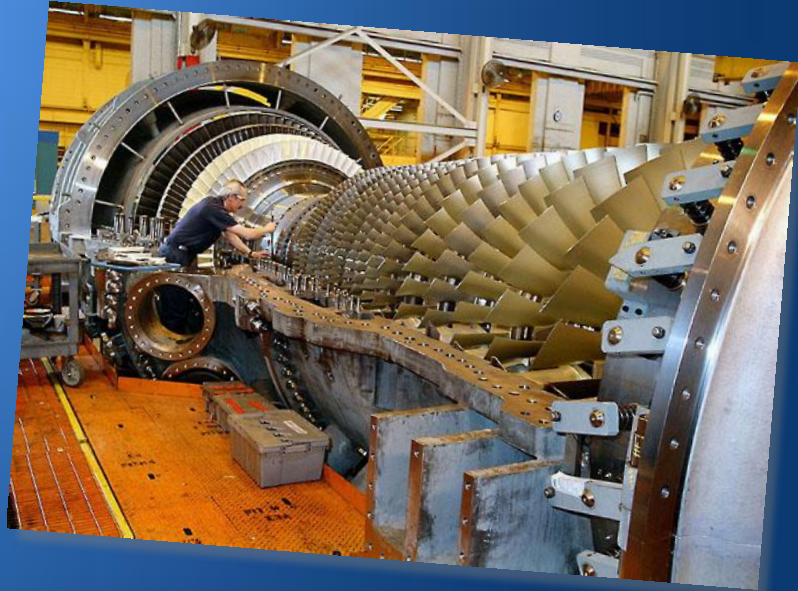
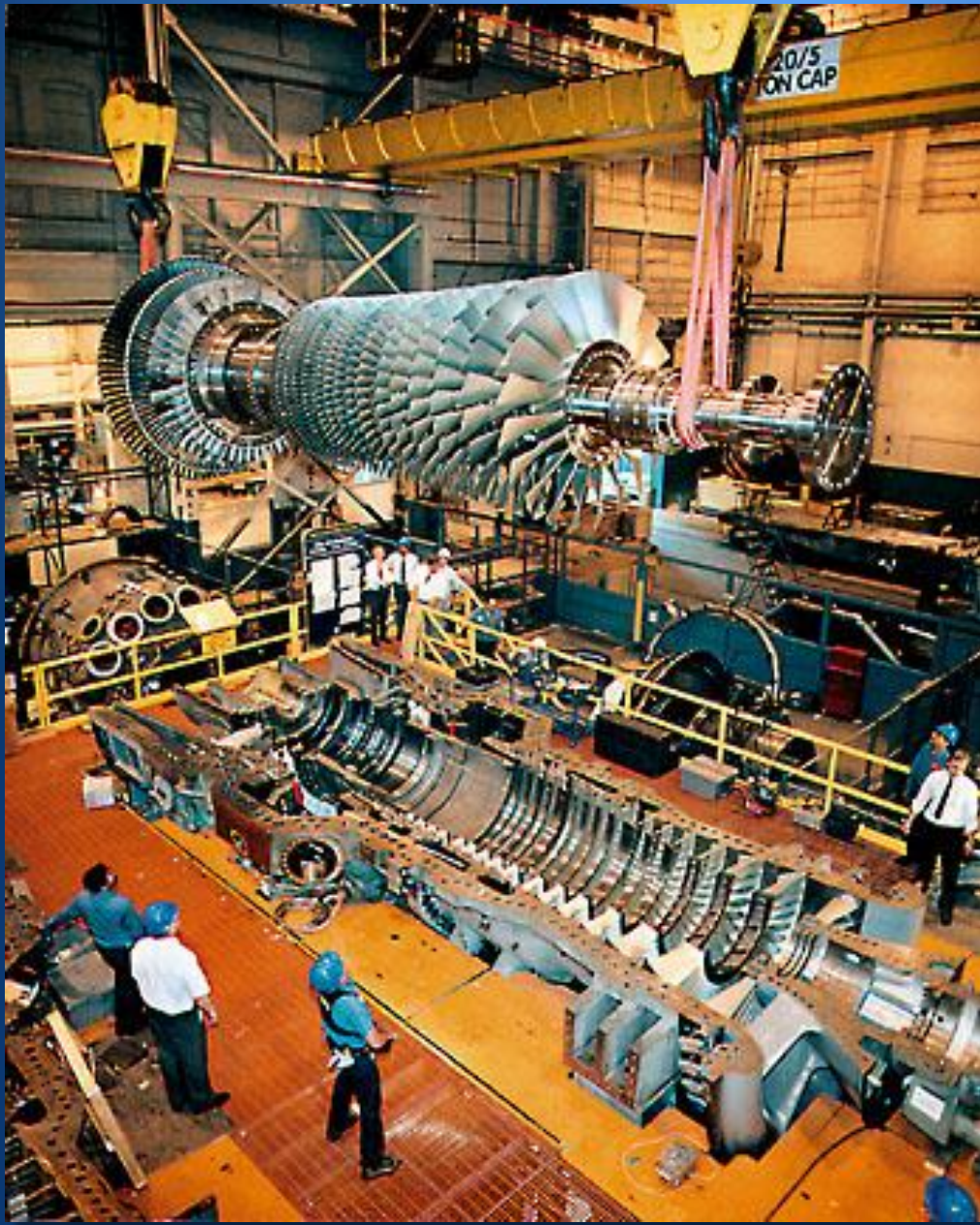






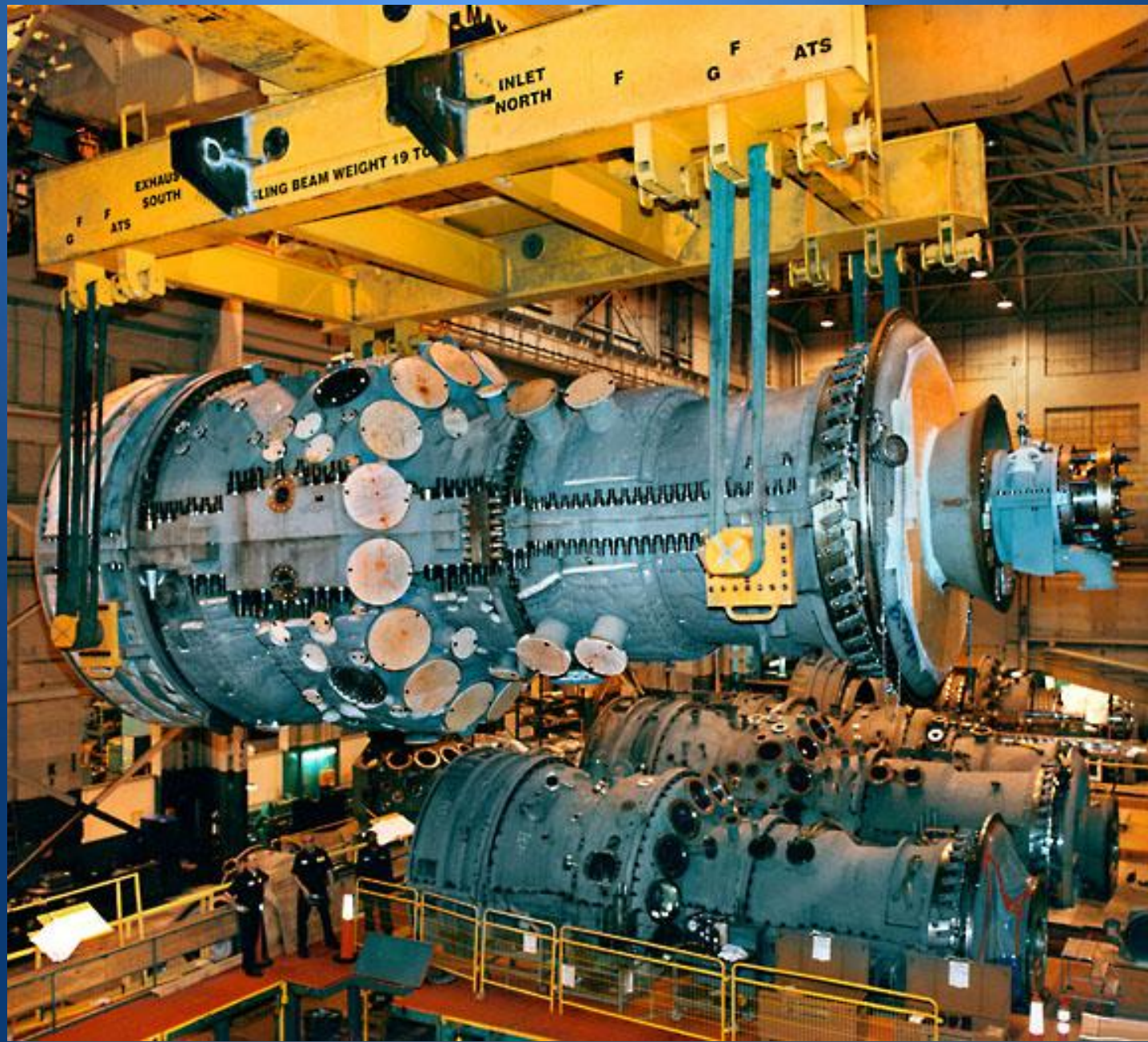
















Hamilton Plant
SIEMENS
Westinghouse
60th Turbine/2001





1903



1903 - 1944



1944 - 1961



1961 - 1998

SIEMENS
Westinghouse

1998 - 2005

SIEMENS

2005 - Present

Sandy Manners

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