W
ESTINGHOUSE is one of the group of enterprises that originated out of the creative genius of George Westinghouse. In 1886 the Westinghouse Electric Company was organized. There was acquired in 1889 a broad charter granted in 1872 to the Chartiers Improvement Company, and the name was changed to the present form—the Westinghouse Electric & Manufacturing Company.

When George Westinghouse began his operations, the electrical industry was still in its infancy. Cities and the restricted areas of dense population were served by plants equipped with electric generators for outdoor arc lighting and direct current for incandescent lighting of homes.

The first Westinghouse Works was in Pittsburgh and employed 200 men. The first price list consisted of a handwritten sheet containing fourteen items. Today one catalog issued by Westinghouse contains well over 200,000 items and this covers but a part of the products. Obviously, no small booklet such as this could include all of the products; however, there is set forth in the following pages a list of the principal products.

In its beginning the Westinghouse sales staff consisted of some half dozen salesmen. Today the parent company has its sales representatives in 91 American cities and Westinghouse products are on sale in stores of more than 11,000 dealers. In addition, the products are distributed through subsidiaries, with 14 main and 66 branch offices in this country; and through branch offices and subsidiaries in 55 countries outside of the United States.
WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY is primarily an operating concern owning its plants, properties and other assets. In addition, there are subsidiary manufacturing companies and subsidiary distributing companies; the stock of these companies is owned by Westinghouse Electric & Manufacturing Company. There are 19 works in 17 cities in 9 states as follows:

**EAST PITTSBURGH WORKS**

**Generator Division**
Large machinery such as generators, motors, motor generator sets, synchronous condensers, rotary converters; mercury arc rectifiers and feeder voltage regulators. Railway motors, generators, converters and control for street and interurban railways; trunk line electrification, trolley buses and gas electric buses; air-driven generators for train lighting and air conditioning; mill motors, mine motors, auxiliary marine motors.

**Motor Division**
Medium-sized machinery such as motors, generators, motor generator sets; arc, flash, and spot welders; and industrial control and regulating devices. Lightning arresters; capacitors; reactors; rectifiers; rectors; industrial applications of electronic tubes; gasoline driven light and power plants for homes, and for industrial, commercial and aviation purposes; air conditioning apparatus for homes, railways, offices, stores, etc.; vertical automobile parking machines.

**SWITCHGEAR DIVISION**
Switchboards; armored switchgear; switch houses; oil, air and "De-ion" circuit breakers; outdoor switching equipment; automatic, remote and supervisory control; calculating boards.

**FOUNDRY AND MICARTA DIVISION**
Iron, steel and brass castings; copper rolling and drawing. Micarta for electrical insulation, silent gears, spinning buckets, bearings, serving trays, furniture, office paneling, and many other industrial and domestic applications.

**ATTICA WORKS**
Attica, N. Y.
Automatic mechanical stokers for central stations and industrial plants.

**CHICOPEE FALLS WORKS**
Chicopee Falls, Mass.
Radio transmission apparatus for broadcasting and other sending stations; radio receiving apparatus for aviation, navigation and similar purposes; high frequency and other electronic apparatus.

**CLEVELAND WORKS**
Cleveland, Ohio
Lighting equipment and control for street, industrial, commercial, floodlight and airport applications; ornamental poles and brackets for street lighting; iron foundry; fixtures for sun lamps.

**DEERY WORKS**
Derry, Pa.
Porcelain insulators of all types and sizes; transmission line hardware.

**EAST SPRINGFIELD WORKS**
East Springfield, Mass.
Small motors; small generators for aviation, radio, and similar purposes; electric fans; domestic and commercial electric refrigerators and water coolers; humidifiers and room coolers; motor driven household appliances, such as ironing machines, vacuum sweepers, food mixers, etc.; iron founder.

**EMERYVILLE WORKS** (Porcelain Division)
Emeryville, Cal.
Porcelain insulators of all types and sizes.

**EMERYVILLE WORKS** (Electrical Division)
Emeryville, Cal.
Assembly of motors and distribution transformers.

**HOMEWOOD WORKS**
Pittsburgh, Pa.
Repair and renewal parts for apparatus in service.

**MANSFIELD WORKS**
Mansfield, Ohio
Household appliances, such as electric ranges, water heaters, electric irons, percolators, waffle irons, toasters, etc.; electric cooking and baking appliances for hotels, restaurants, and hospitals; industrial electric ovens, furnaces, and other heating appliances; safety switches; meter entrance and distribution "De-ion" circuit breakers for homes and buildings; refrigerator cabinets.

**NEWARK WORKS**
Newark, N. J.
Wathour meters; instruments and relays for central stations and industrial purposes; motors for electric clocks; time switches; oscillographs; cardiographs for doctors and hospitals; electronic tube devices for metering, card sorting, counting, accounting, etc.

**NUTTALL WORKS**
Pittsburgh, Pa.
Industrial and railway gears; reduction gear units; oil well drilling and pumping equipment; motor and reduction gear combinations; flexible couplings, railway trolleys and pantographs.

**ST. LOUIS WORKS**
St. Louis, Mo.
Hollowspun reinforced concrete ornamental poles for street lighting, traffic signals, etc.; hollowspun concrete piles for building foundations.

**SHARON WORKS**
Sharon, Pa.
Power, distribution, industrial, testing, and instrument transformers of all types and sizes; tap changers; reactors; current regulators; arc welders.

**SOUTH PHILADELPHIA WORKS**
South Philadelphia, Pa.
Steam turbines for central stations, industrial plants and marine installations; steam condensers; reduction gears for marine and other purposes; electric locomotives; Diesel engines, Diesel electric locomotives and Diesel electric cars; steam ejectors and heat exchangers for air conditioning and industrial processes.

**MISCELLANEOUS SUBSIDIARY COMPANIES**

**Pretend Bell Company**

In some cases, the company has made a commitment to provide assistance to various communities. For example, it has donated funds to schools and libraries in several areas. Additionally, it has supported local sports teams and cultural events. The company has also emphasized its commitment to environmental sustainability, investing in renewable energy projects and promoting energy efficiency measures. Overall, the company's efforts have contributed significantly to the local economies and communities where it operates.
SUBSIDIARY COMPANIES MANUFACTURING WESTINGHOUSE PRODUCTS

WESTINGHOUSE LAMP COMPANY
Main Office, New York, N. Y.

Plants in Bloomfield, N. J., and Trenton, N. J.

Products: Every form of lamp for both exterior and interior lighting, ranging from "grain of wheat" lamps used in surgical work to the 10,000-watt lamp principally used in airport lighting. Miniature lamps for radio and power panels, automobiles, miners' lanterns, flashlights, etc.; photo-flash lamps, sun lamps, photo-electric tubes, grid-glow lamps, x-ray tubes, mercury switches; vacuum, gas-filled, and mercury vapor tubes of all kinds.

Maintains its own research laboratories devoted to the development of new devices for industrial operations, photography, therapeutic service and all types of household and industrial illumination. Designs and constructs its lamp manufacturing machinery on which it holds many valuable patents. The Company is self-contained, in that it handles the raw materials and fabricates the metal parts and products entering into the manufacture of lamps and similar devices.

The main factories are located in Bloomfield, N. J., where 15,000,000 large Mazda lamps and 20,000,000 automotive and miniature lamps are made annually. The Trenton, N. J. plant has an output of 43,000,000 household Mazda lamps; the Belleville, N. J. plant produces 73,000,000 lamp bases and 28,000,000 radio tube bases annually.

The Bryant Electric Company
Bridgeport, Conn.

Lamp sockets and receptacles; switches for lighting circuits, electric ranges and miscellaneous applications; attachment plugs and appliance plugs; baseboard receptacles; flush plates; rosettes; fuses; fuseholders; cord sets; sentinel circuits; Anspeiros hospital signaling systems; regulating and control equipment for refrigerators, air conditioning, etc.; time switches; push buttons; miscellaneous wiring devices, molded material for electrical apparatus, household utensils, etc.

SUBSIDIARY COMPANIES DISTRIBUTING WESTINGHOUSE PRODUCTS

WESTINGHOUSE ELECTRIC SUPPLY COMPANY
New York, N. Y.

The Westinghouse Electric Supply Company operates a complete electrical wholesaling business, providing local distributing centers for Westinghouse and other electrical products in 66 cities strategically located in all parts of the United States. These distributing houses carry in stock a full line of Westinghouse electrical appliances, lamps and lighting material, safety switches and other standard apparatus such as motors; and in addition a complete line of supplies, including wires and cables, conduit and wiring supplies of all kinds.

Thus a localized service with quick delivery is offered to dealers, contractors, industrial plants and central stations.

Offices and warehouses of the Supply Company are located in the following cities:

Albany, N. Y.  Binghamton, N. Y.  Buffalo, Mass.
Augusta, Me.  Bangor, Me.  Butte, Mont.
Belmont, Ohio  Berrien, Ind.  Charlotte, N. C.
Chicago, Ill.  Cleveland, O.  Columbus, S. C.
Dallas, Tex.  Des Moines, Ia.
Detroit, Mich.  Duluth, Minn.  Evansville, Ind.
Oakland, Cal.  Oklahoma City, Okla.  Omaha, Nebr.
Portland, Ore.  Providence, R. I.  Raleigh, N. C.
San Antonio, Tex.  San Francisco, Cal.
Seattle, Wash.  Sioux City, Ia.
Spokane, Wash.

WESINTGHOUSE ELECTRIC ELEVATOR COMPANY
Chicago, Ill.


WESTINGHOUSE X-RAY COMPANY, INC.
Long Island City, N. Y.

A complete line of x-ray apparatus for medical and industrial work; fluoroscopes, generators, high frequency surgical knives and diathermic machines.

SUBSIDIARY COMPANIES INTERNATIONAL COMPANY

WESTINGHOUSE ELECTRIC INTERNATIONAL COMPANY
New York, N. Y.

Distribution, outside of United States and Canada, of products manufactured by Westinghouse and subsidiaries. Branch Offices and subsidiary companies in these countries: Argentina, Australia, Chile, Cuba, Mexico and South Africa. Distributors in: Bahamas Islands, Belgian Congo, Belgium, Bermuda, Bolivia, Brazil, British East Africa, British Guiana, British Honduras, China, Colombia, Costa Rica, Cyprus, Czechoslovakia, East Indies, Ecuador, France, Greece, Guatemala, Honduras, Iraq (Mesopotamia), Italy, Jamaica, Japan, Jugoslavia, Luxemburg, Morocco, Netherlands, Newfoundland, New Zealand, Nicaragua, Norway, Palestine, Panama, Paraguay, Peru, Philippine Islands, Porto Rico, Portuguese East Africa, Salvador, Siam, Spain, Straits Settlements, Switzerland, Syria, Tripoli, United Kingdom and Ireland, Uruguay, Venezuela, West Indies.
WHEN George Westinghouse started his experiments, he could not have even dreamed that those humble beginnings would help to revolutionize everyday life. Consider the changes since the days of our mothers and our grandmothers. Food was cooked on stoves burning wood and coal. There were ice boxes but little was known of the preservation of food stuffs by refrigeration. Even in cities few homes had running water or a bath room or central heating system. Gas was used for street lighting in larger communities but kerosene lamps lighted the homes.

At the Philadelphia Centennial of 1876 the telephone was an interesting curiosity. In September 1882 the first electric generating station was opened in New York City. People rode on horses or in carriages. Wagons delivered city freight and hauled farm produce to town. Sleeping cars were called “palace-cars”; and, locomotive smoke-stacks were then gigantic funnels. There were horse cars but the electric trolley cars did not come until 1888. Transatlantic liners, a far cry from our modern floating palaces, were developed about the same time.

Safety bicycles were shown in 1893 at the Chicago World’s Fair—where Westinghouse installed the system of electric illumination and exterior flood-lighting of public buildings.

Arc lights and carbon-filament incandescent lights were under way in 1894. In 1907 the tungsten lamp was introduced and gas-filled bulbs about 1914. No one then dreamed of x-ray and radio.

It was not until 1902 that automobiles were made in volume. The Wright Brothers flew in 1903. The first major railroad electrification was the New Haven in 1907.

If for a week every husband did the cooking, cleaned the ice box, washed the dirty dishes, used the broom and dust pan, scrubbed the floors and ironed the clothes with antiquated household utensils—there would be a domestic eruption. Out would go the old—in would come modern household conveniences.

Electrically operated household devices have emancipated women from hard labor in the home. Out of 20 years of married life the wife used to spend six years chained to the wash-tub; and another six with the broom and dust pan in her hands. In the rural districts, water was drawn from springs and wells. Fires had to be kept burning in the kitchen stove, food cooked three times daily and the greasy dishes washed. Filling oil lamps and lanterns, washing and polishing the lamp globes consumed 200 days out of her 20 years.

The introduction of electric power lines into rural districts has meant a new day and a new night, too, for the farmer and his wife.

Slavery of housework is being banished. Electricity is lifting heavy burdens from weary shoulders. Washing machines, dishwashers, cooking ranges, water heaters, irons, refrigerators, percolators, waffle irons, toasters, vacuum cleaners, foodmixers, air conditioners—and the many other electrically operated household appliances, now househould necessities, were novelties even 20 years ago.

These changes in our everyday life have been experienced by a generation of men and women, still in their prime of life. This advancement in the mode of living could not have been accomplished without the contribution of the electrical industry—in which Westinghouse has been a pioneer.
WESTINGHOUSE INDUSTRIAL APPARATUS

The wide variety of products made in the Westinghouse plants and distributed by its sales organizations the world over, may be divided into two groups: 1) Devices and Apparatus for Industrial Uses and; 2) Household Appliances. Obviously, no small booklet such as this could include all the products. However, there is set forth in the following lists the principal Westinghouse products:

**AVIATION**
- Approach, Boundary, Hanging, and Obstruction Lights
- Arc Welding Equipment
- Bulbs and Floodlights
- Instruments
- Magna Lamps
- Micarta
- Cabinet Lining Plate
- Fixtures, Fittings

**BUILDINGS**
- Air Conditioning Equipment
- Air Heaters
- Arc Welding Equipment
- Capacitors
- Circuit-Breakers
- Elevators and Control Panels
- Fans
- Generators
- Glue and Soldier Posts
- Instruments and Relays
- Kitchen Equipment
- Bake Ovens
- Hot Plates, Ranges
- Lighting Equipment
- Brackets, Newels, and Lanthorns

**CITY IMPROVEMENTS**
- Airport Floodlights
- Automatic Substations
- Constant Current Regulators
- Control Apparatus
- Elect. Railway Equip.
- Floodlighting Equipment
- Lighting Units
- Magna Lamps
- Motors
- Ornamental Standards
- Parkway Cables
- Street Brackets
- Streetlights
- Transformers

**ELECTRIC RAILWAYS**
- Arc Welding Equipment
- Automatic Substations
- Babbitt, Solid & Posts
- Baking Ovens
- Car Panels
- Circuit-Breakers
- Coaches, Cars, Electric, and Trolley
- Fans
- Gears and Pinions
- Generators
- Instruments & Meters
- Insulating Materials
- Insulators
- Lighting Fixtures
- Lighting Arteries

**ELECTRIC SERVICE COMPANIES**
- Automatic Switching Equipment
- Capacitors
- Circuit-Breakers
- Contours and Fuses
- Fans
- Frequency Converters
- Generators
- Instruments & Meters
- Insulating Materials
- Insulators
- Line Material
- Lighting Equipment
- Lighting Arteries
- Magna Lamps
- Motors, Outdoor
- Micarta
- Motor Generators
- Motors and Control
- Network Protectors
- Oil Testing and Purifying Equipment
- Outdoor Substations
- Panelboards, Nofuse
- Porcelain Insulators
- Rectifiers, Power
- Regulator and Rectifier Devices
- Regulators
- Relys
- Safety Switches
- Steam Turbines
- Stokers
- Supervisory Control Switches, “De-ion” Breaker
- Switchgear
- Synchronous Condensers
- Synchronous Converters
- Transformers, Surge Proof
- Turbine Generators
- Voltage Regulators
- Water Coolers

**FARMS**
- Fans, Exhaust
- Floodlight Projectors
- Hot Bed Heaters
- Load Centers, Nofuse
- Magna Lamps
- Milk Coolers
- Motors for Appliances
- and Power Purposes
- Outdoor Switch Houses

**FILLS AND FACTORIES**
- Air Heaters
- Arc Welding Equipment
- Automatic Starters
- and Controllers
- Battery Charging Equipment
- Circuits-Breakers
- Clamps
- Fans
- Gears and Pinions
- Heating Apparatus, Electric
- Insulating Materials
- Insulators
- Locomotives—Electric
- Gas-Elec., Oil-Elec.
- Magna Lamps
- Meters and Relays
- Motors and Control
- Motor Starters
- Outdoor Substations
- Panelboards, Porcelain
- Pipe Fittings (Structural)
- Power House Apparatus
- Power Rectifiers
- Safety Switches
- Solder & Glue Pots
- Space Heaters
- Steam Jet Refrigeration
- Steam Turbines
- Stokers
- Switches, “De-ion” Breaker
- Switchgear
- Thermionic Tube Control
- Transformers
- Water Coolers

**MINES**
- Arc Welding Equipment
- Automatic Feeder Equipment
- Automatic Starters
- and Controllers
- Battery Charging Equipment
- Circuits-Breakers
- Clamps
- Fans
- Gears and Pinions
- Heating Apparatus, Electric
- Insulating Materials
- Insulators
- Locomotives—Electric
- Gas-Elec., Oil-Elec.
- Magna Lamps
- Meters and Relays
- Motors and Control
- Motor Starters
- Outdoor Substations
- Panelboards, Porcelain
- Pipe Fittings (Structural)
- Power House Apparatus
- Power Rectifiers
- Safety Switches
- Solder & Glue Pots
- Space Heaters
- Steam Jet Refrigeration
- Steam Turbines
- Stokers
- Switches, “De-ion” Breaker
- Switchgear
- Thermionic Tube Control
- Transformers
- Water Coolers
WESTINGHOUSE INDUSTRIAL APPARATUS

MINES (Cont'd)
- Panelboards, Nofuse
- Portable Substations
- Relays
- Safety Switches
- Switchgear
- Switches, "De-ion" Breaker
- Synchronous Converters
- Transformers
- Ventilating Outfits

RAILROADS
- Air Conditioning Equip.
- Arc Welding Equipment
- Automatic Substations
- Babbit, Solder & Pots
- Baking Ovens
- Battery Charging Equip.
- Cars—Multiple-Unit
- Gas-Elec., Oil-Elec.
- Circuit-Breakers
- Cooking Equipment
- Control Apparatus
- Fans
- Gears and Pinions
- Generators
- Headlight Equipment
- Heating Apparatus, Electric
- Insulators
- Insulating Materials
- Insulators
- Lighting Equipment
- Lighting Arresters
- Line Material
- Locomotives—Electric
- Gas-Elec., Oil-Elec.
- Manual Substations
- Maxa Lamps
- Motors
- Motors and Control
- Outdoor Substations
- Panelboards, Nofuse
- Power House Apparatus
- Safety Switches
- Signal Equipment
- Switches, "De-ion" Breaker

OFFICES AND STORES
- Air Conditioning Equip.
- Air Heaters
- Bread-baking Ovens
- Elevators and Control
- Fans
- Humidifiers
- Lighting Equipment
- Maxa Lamps
- Motors
- Meter Service Breakers
- Micarta Panels and Desk Tops
- Motors for
- Adding Machines
- Addressing Machines
- Coffee and Meat
- Grinders, etc.
- Envelope Sealers
- Fans and Blowers
- Pumps
- Panelboards, Nofuse
- Refrigerating Equipment
- Safety Switches
- Switches
- Water Coolers

OIL FIELDS
- Arc Welding Equip.
- Change House Heaters
- Floodlight Proectors
- Gear Units
- Heat Exchangers
- Instruments
- Insulators
- Maxa Lamps
- Motors and Control
- Outdoor Substations
- Panelboards, Nofuse
- Reflectors
- Rig Lighters
- Safety Switches
- Small Light Plants
- Switches, "De-ion" Breaker
- Transformers
- Vapor-proof Fixtures

SHIPS
- Air Conditioning Equip.
- Appliances, Electrical
- Bearings, Micarta
- Circuit-Breakers
- Condensing Equipment
- Deck Winch Motors
- Eng. Room Auxiliaries
- Fans
- Generating Equipment
- Heating Apparatus, Electric
- Instruments
- Insulating Materials
- Lighting Equipment
- Motors and Control
- Micarta Painting
- Ovens, Ranges and
- Galley Equipment
- Panelboards, Nofuse
- Propulsion Equipment
- Diesel-Electric
- Geared Turbine
- Turbine Electric
- Refrigerating Equip.
- Safety Switches
- Small Light Plants
- Switchgear
- Switches, "De-ion" Breaker
- Trays, Micarta

WESTINGHOUSE PRODUCTS FOR THE HOME

LONG a leader in household apparatus, Westinghouse Electric & Manufacturing Company is continuously strengthening its position in the field of electrically operated devices for the home. A partial list of products follows:

EVERY HOUSE NEEDS WESTINGHOUSE
- Air Conditioning Equip.
- Air Heaters
- Aquarium Heaters
- Auto Engine Heaters
- Coffee Makers
- Curling Irons
- Dusters Cleaners
- Fans, Desk and Exhaust
- Food Mixers
- Hand Vacs
- Hot Bed Heaters
- Hot Plates
- Humidifiers
- Irons
- Lighting Fixtures
- Lard Centers, Nofuse
- Maxa Lamps
- Meter Service Breakers
- Motors for
- Buffers and Grinders
- Irons and Washers
- Refrigerators
- Sewing Machines
- Vacuum Cleaners
- Newel Posts
- Panelboards, Nofuse
- Paneling, Micarta
- Percolators
- Ranges
- Rector Chargers for
- Automobiles and
- Radio Batteries
- Rector Trickle Chargers
- Refrigerators
- Safety Switches
- Sandwich Grills
- Small Light Plants
- Solar Glow Heaters
- Table Stoves
- Trays, Micarta
- Tumbler Water Heaters
- Turnover Toasters
- Ultra Violet Lamps
- Urn Sets
- Vacuum Cleaners
- Waffle Irons
- Washing Machines
- Warming Pads
- Water Heaters
- Water Systems
- Wiring Devices

Printed by
U. S. A.
Jan. 1933

For information and literature on all Westinghouse products, see the Westinghouse dealer in your community, the District Office nearest you, or address Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa.