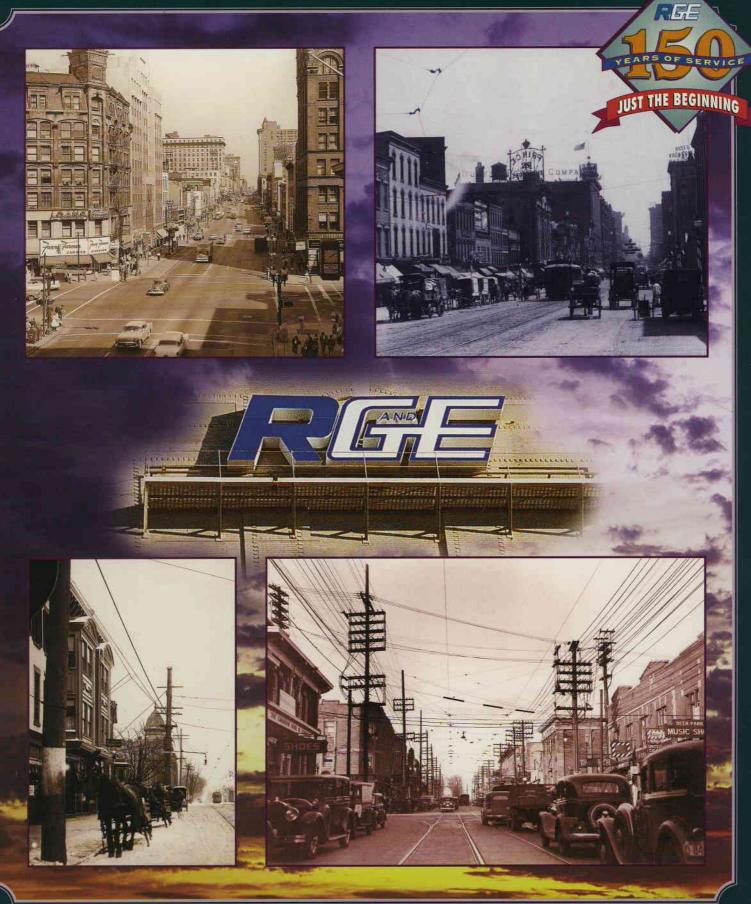
Rochester Gas and Electric Corporation



150 YEARS OF SERVICE 1848 ~ 1998





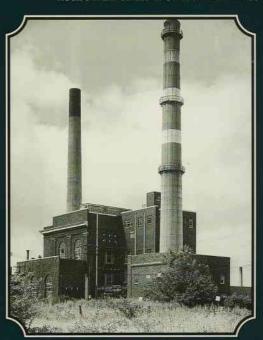
Hydro electric station #5 at lower falls.



Beebee Station on the Genesee.



RG&E's main offices at 89 East Ave. ~ 1953.



Station #9 steam plant.







RG&E's main offices at 89 East Ave. under construction ~ 1925.

RG&E History

n 1848, the City of Rochester was just 14 years old. And it was a boom town. Powered by the rushing force of the Genesee River racing right through the middle of town and over a series of spectacular falls, flour mills were grinding out the lifeblood of prosperity here. The population had mushroomed to 32,000 people. Lighting dimly flickered on streets, in businesses and homes as whale oil burned in lamps and candles melted on tables.

And then comes along this new way to bring light to darkness. Flammable gas was being made from coal. Not only did gas burn brighter and more steadily than oils, it also could be delivered through pipelines right into the lighting fixture. No more running to the general store for more fuel and candles.

Early in 1848, investors raised money to create Rochester Gas Light Company. Their plan was to build a manufactured gas plant in town at the Genesee River and sell this new fuel to customers through pipelines. On December 13, 1848, curious onlookers gathered in a home to see the first gas light in Rochester. The rest, as they say, is history. And the history of Rochester Gas and Electric Corporation is a rich one, dating back to that dark December evening.

In 1879, an RG&E predecessor brought electricity to Rochester in the form of an Edison Dynamo. Electric power began to replace gas for lighting and, more importantly, powered Rochester's share of the American Industrial Revolution.

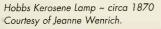
RG&E's tradition of fine customer service and community involvement over the last century and a half continues. The photos in this commemorative historical booklet depict some of that history. And you'll also get a glimpse of a few of the tens of thousands of RG&E people who have brought heat, light, industrial power and a sense of community to the Rochester region. This region is the largest remaining industrial center in New York State. That didn't happen by chance.

We at RG&E are proud to have been a sustaining part of this community since 1848. We see this 150th year as not the end of an era, but really...

Just The Beginning





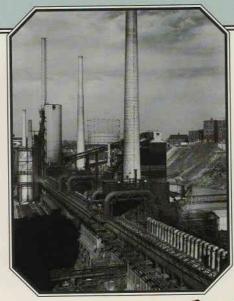




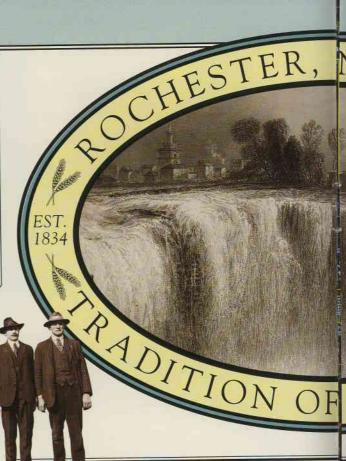
An early customer service center and store.



Rochester Gas Light Company's first customers are ten street lamps and lighting for 80 homes and businesses near its Mumford (Andrews) Street gas plant. The Osburn home (above) was the first home in Rochester to use gas lighting in December 1848.







RGIE





The Copier Model A, the first commercial xerographic process, was announced in 1949. This manual device provided the knowledge and revenues with which to develop automatic xerography.

Courtesy of Xerox Corporation.

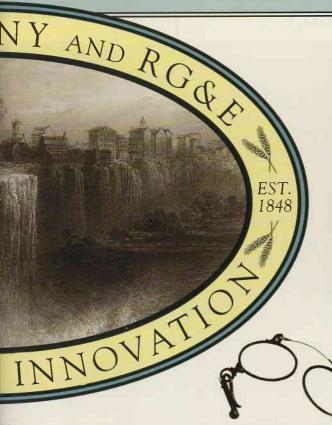
Rochester, NY founded.
Named after Nathaniel
Rochester.

NY founded. 184 er Nathaniel

1848

Rochester Gas Light Co. formed



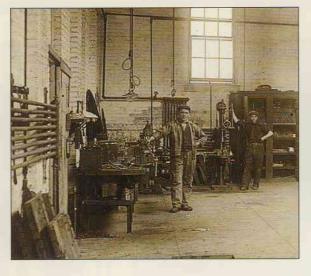




The Rochester Gas and Electric Cashiers.

One of the first pairs of eye glasses manufactured by Bausch & Lomb, c.1900.

Courtesy of Bausch & Lomb Corp.



Original Kodak Camera.

Courtesy of George Eastman House.





Glass insulators; Cobalt blue porcelain made by Victor Insulator, Victor, NY c.1945; Hemingway Petticoat, 1893; Whitall Tatum No.1, c.1920; Hemingway "Mickey Mouse" c.1900

Courtesy of Dick Bowman.

John Jacob Bausch opens a little eyeglass shop in Rochester's Reynolds Arcade building. 1855

Henry Lomb partners with Bausch ~ Bausch & Lomb.

1859

Charles Darwin publishes
The Origin of Species

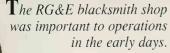
1861

Ft. Sumter is fired upon ~ Civil War. Rochester has 2,413 gas customers and 657 street lamps.

Wooden pipes wrapped in Civil War blankets and soaked in pitch were RG&E's first attempt to transport natural gas to Rochester. The pipes leaked, and the project failed. That was 1870.

Today thousands of miles of steel and plastic pipe deliver gas to our customers.



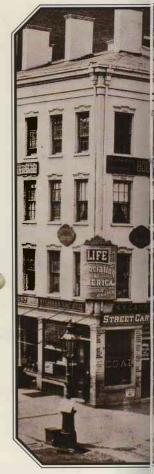


RG&E History

he year of 1848 was a stirring one in the young city of Rochester, New York. The bustling town on the Genesee River and the Erie Canal had already become the foremost flour milling center in the country. It had a population of 32,000, was a busy canal port and was located on two railroads. Conversion from whale oil to gas street lamps had begun.

~ The RG&E Story

Natural gas table lamp, c.1890-1910, collection of the Rochester Museum & Science Center.

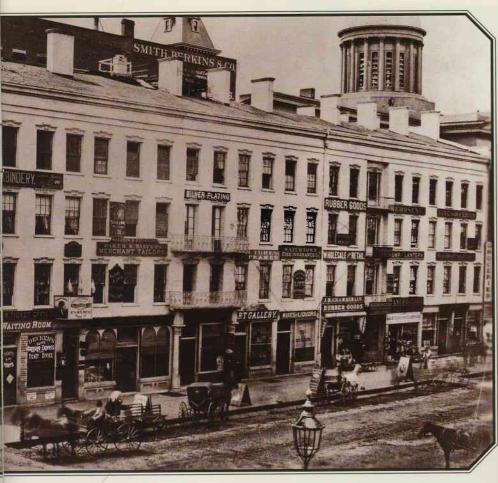


dousing downtown Rochester and the gas plants and mains.



Address.

ALWAYS AT YOUR SERVICE



Smith's Arcade corner of West Main & Exchange Streets in 1877.

> Early General Electric crank key curved drawing Voltmeter.



Early kerosene table and street lamps.

The first Gas Plant at the intersection of Mumford Street (now Andrews Street) and the Genesee River in 1848. The Company had 150 customers at the time. Currently, we have 280,000 gas customers.



Coal Tar as a byproduct is first sold to customers and the Company increases its stock dividend for the first time.

1870 🕏

An attempt to bring natural gas via wooden pipes 28 miles from neighboring West Bloomfield fails. 1872 🥊

Citizens Gas Company is formed at East Station on the banks of the Genesee River.

1876

Philadelphia Centennial Expo.~ promotes gas for cooking versus oil, coal and wood. Rochester's gas companies follow.

1879

Thomas Edison invents the incandescent light bulb.

1879

Electricity comes to Rochester as Rochester Electric Light Co. A dynamo powers ten arc-light street lamps and lighting for Reynolds Arcade Building.

1880

Municipal Gas Light Co. is formed

1880

Rochester bank clerk George Eastman gets a U.S. patent on a plate coating machine.

188

The Brush Light Co. is formed and distributes alternating current over several miles of wire to Rochester factories.

188

Electric street lamps begin to replace gas as the Brush Co. sets up hydroplant at Upper Falls on the Genesee to power streetlights.

188

George Eastman establishes the Eastman Dry Plate Co. on State St. in Rochester.

1880

Edison Electric Illuminating
Company opens a steam and
electric plant downtown at the
current War Memorial Site.
The first telephone company
sets up in Rochester.

1887

Incandescent lamps begin to replace arc lights.

1888

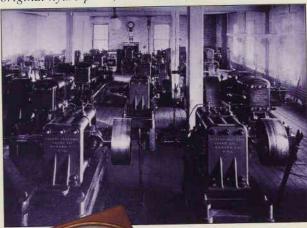
A young man, Thomas H. Yawger, takes a job with Edison Electric at the steam plant where he worked 12 hours a day, 7 days a week



Rochester's first movie theatre, 1889



Rochester Railway & Light Company original hydro plant, Station 4 ~ 1880.





Trusted tools of the trade used by the Electrical Standards Lab. These Weston 1888 Voltmeter and Millivolt meters still operate today within manufactured specifications of .5% accuracy.

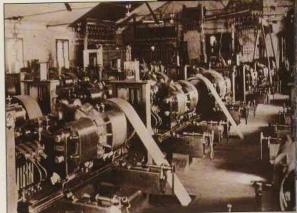
RG&E History

The dawn of the "Electric Age" comes to Rochester. The Genesee River provided the first step in the generation of electricity by furnishing the water power to animate the first generators. It was the catalyst for industrial advances and modern life.

Thomson/G.E. Watthour Meter ~ 1888









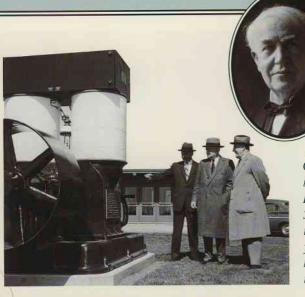
1888 Edison Electric Illuminating becomes the first to meter electric use.

George Eastman markets his first roll film camera and calls it Kodak.

1889

Rochester Gas Light Co., Citizens Gas and Municipal Gas combine as Rochester Gas Co. 1891

Electric lights are installed at Bausch & Lomb's manufacturing complex on St. Paul Street.



Thomas Edison, a founding father of the Electric Age.

Charles Edison, son of the famous inventor, inspects one of the first Bi-polar Direct Current Generators. Installed in 1888 by the Rochester Electric Light Co. in the Old Hydro Station at Upper Falls, it was in service for more than 50 years until it was retired and moved to an RG&E operations center for display.



Original Brush Light Company plant, 1881-1886, Now known as Station 5.

1892

National Mazda Light display ~ 1930's Courtesy John A. Wenrich

1892 Rochester Railway Co. electrifies its lines and Eastman Dry Plate Co. becomes known

as Eastman Kodak Co.

August 4 ~ Rochester Electric Light, Brush Electric and Edison Illuminating merge to become Rochester Gas and Electric.

VALIDAAL MAZDA









"Modern" Tungsten Coiled Coil filament ~ began 1936 to present.

he evolution of more lumens per watt began with the first crude filament of carbonized paper. Filaments of carbonized bamboo, squirted cellulose and General Electric's Metallized Carbon ("GEM"), lighted the early days of electric light. Pressed and drawn Tungsten filaments replaced Tantalum, and later, with GE's innovation of ductile Tungsten, higher efficiency coiled filament bulbs were possible. Today's High-Energy efficient

bulbs can last up to 10 times longer and use 75% less elec-

tricity over those of just a few

years ago.

Courtesy John A. Wenrich

Mazda -

began 1913,

single coil tungsten.



ALWAYS AT YOUR SERVICE

1892

October 4 ~ Citizens Light & Power Co., is formed at Brown's Race, to become Station No. 3 at High Falls.

1893

July 23 ~ Central Light & Power Co. is formed to power some downtown buildings.

1903

Rochester Light & Power Co. is formed in January and absorbs Central.

1903

Wilbur and Orville Wright invent and test the first workable airplane at Kitty Hawk.

1904

June ~ Rochester Light & Power is absorbed by RG&E and renamed as Rochester Railway & Light Co.

1908

Henry Ford produces the first Model T in Detroit, Michigan.

1910

RG&E has 9,000 electric customers, 52,000 gas customers and 19 steam customers.

1916

Hydro Station #5 upgrades and goes on line with 44,000 kilowatts of power.

1917

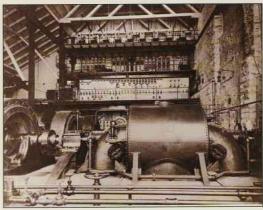
The United States enters The Great War

1918

The Armistice signed ending World War I.



A Rochester Railway and Light representative makes a house call.



Station 5 water wheel ~ 1905.





customers

RG&E has 35,000 electric customers, 81,000 gas customers and 81 steam

high dam on the Genesee, creating hydroelectric potential and Lake Rushford.

Folmer Factograph

meter reading camera used by

Specially designed to overcome

the errors of the pad and pencil. Manufactured in Rochester, N.Y.

Power Billing from 1915.

RG&E builds its corporate headquarters at 89 East







Railway operation splits off and RG&E Corporation is formed.

RG&E builds a 126-foot-





 ${f A}$ n employee delivering meters in the early 1900's

RG&E History

he formation of Rochester Railway & Light Co. marked the real beginning of RG&E. For the first time a single organization had the responsibility of supplying the whole community with electricity, gas and steam.

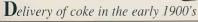
Weston Voltmeter ~ 1888.

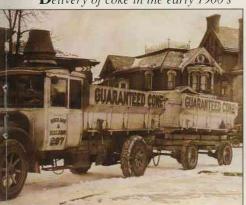


An early Rochester Railway & Light Co. gas department crew installs gas pipeline with its manually drawn equipment cart.

> ${f A}$ 1909. "Judd" electric laundry appliances which saved time and made home life easier. Collection of the Rochester Museum & Science Center.

machine, one of the new-fangled





Type K Potentiometer & Ammeter from the turn of Electrical Standards



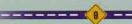
Ready for duty. RG&E employees pose with their impressive fleet of vehicles at the Andrews Street facility ~ 1932.

RG&E installs 97 coke ovens at old East Station and produces dry quenched coke for resale ~ the first to do so in the U.S.

1929 Stock Market crashes

RG&E has 114,000 electric customers, 103,000 gas customers and 349 steam customers

The first of 8 steam boilers goes on line at "The Old House," one day to be called Beebee Station.







What One Pound of Fat Will Do

Save every drop of fat you can spare and turn it over to your butcher to be passed along for conversion into explosives that will defeat the enemy and into medicine that will save lives. Each pound of fat will make enough smallpox inoculations to immunize 98 soldiers...or produce 8 cellophane gas masks...or provide 10 rounds of ammunition for a 50-calibre machine gun.

> Reprinted from RG&E Monthly Messenger, November 1943.

1936

Thomas Yawger publishes a history of the development of electric utilities,

1940

RG&E has 139,00 electric customers, 113,00 gas customers and 242 steam customers,

1941

December 7 ~ Pearl Harbor attacked ~ U.S. declares war with Japan.

VJ Day ~ The War is over and RG&E pipes in natural gas to support Post-War growth.

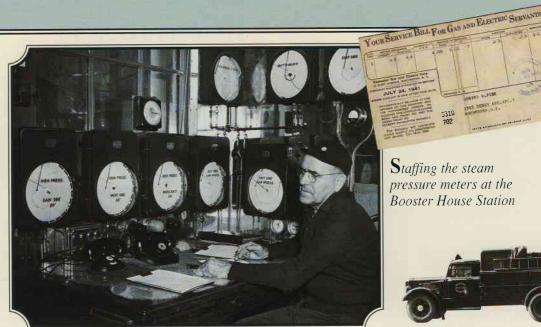
1946

ENIAC, the first electronic computer, goes into service at the University of Pennsylvania.

1947

Rochester's Haloid Co. purchases rights to Chester Carlson's xerographic process.

On the occasion of RG&E's Centennial, the first of four coal-fired electric units goes on line at Russell Station.

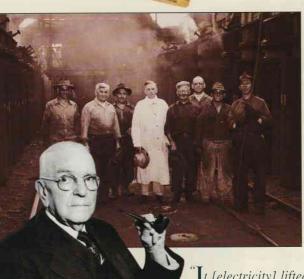


Staffing the steam pressure meters at the Booster House Station





Charter members from the first meeting of the Pioneers Club held at the Rochester Club on April 27, 1938.



It [electricity] lifted the burdens of millions of people and gave new and vital impetus to industrial progress." ~Thomas Yawger

Electrical Standards Lab running tests in the 1930's with equipment featured on these pages.

1948

RG&E History

ompany prosperity is a forerunner of community growth. RG&E has an essential function in the production of the products that bring Rochester fame in industry. Today we are the largest industrial base in New York State.





ALWAYS AT YOUR SERVICE







Celebrating 100 years in 1948, complete with cake and the dancing RG&E Kiloettes.

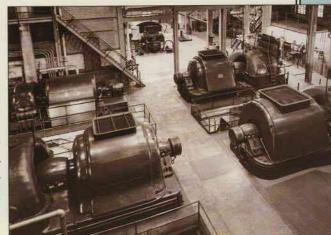


Rochester's Four Corners years ago.





Station 3 electric generating turbines.



Manufactured gas begins to phase out in favor of natural gas.

1950

Korean War begins, RG&E has 168,000 electric customers, 135,000 gas customers and 518 steam customers.

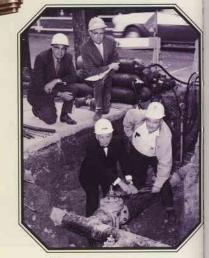
RG&E's last coke oven is shut down on August 6.

Korean War ends Bausch & Lomb widens screens with the introduction of Cinemascope lens,

Checking a circuit map in electric line operations

RG&E History

he end of an era, the beginning of a new. With more gas and electric customers than ever, RG&E expands its facilities and services into new territory, develops new technologies and enters the Nuclear Age as the computer revolution dawns. RG&E is in the "fast lane."



Expanding gas service, Wolcott, NY ~ 1963.



The RG&E Big Band still swings today, at community events.



Water heater installed in Lake Ontario ~ Russell Station, 1954



Tracking wind storm damage, 1964.



The "Great Blackout," do you remember where you were?





An 84,000-kilowatt electric generating unit goes on line at Beebee Station

Thomas Yawger dies as an active RG&E employee with 66 years of service

Last unit of Russell Station

goes on line ~ 275,000 kilowatts total.

> RG&E has 202,000 electric customers and 157,000 gas customers

1961

Haloid Co. becomes Xerox Corp. First U.S. troops sent to Vietnam.

November 9 ~ Blackout affects 80,000 square miles of north east United States.

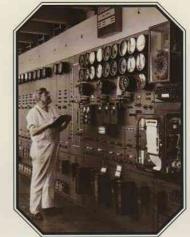
1966

Brookwood Science Information Center opens to introduce people to the advantages of nuclear power.

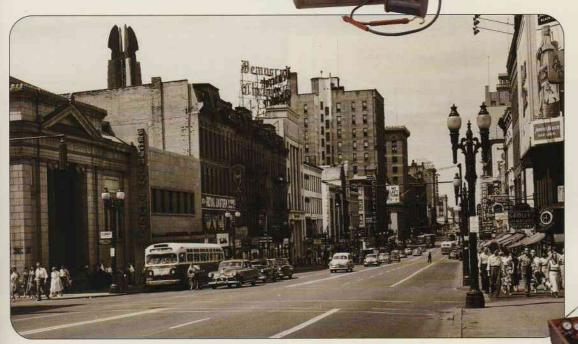
ALWAYS AT YOUR SERVICE



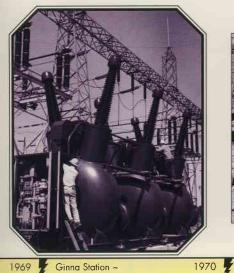
One stop shopping for the conveniences of modern life~at one of the many RG&E appliance centers from the 1950's.



Inspecting the gauges at Station 5.



Russell Station



Ginna Station ~ 470,000 kilowatts on line, on schedule and on budget at a cost of \$88 million.



Early pneumatic cable cutter, used by linemen.

> Glass lightning resistor, circa

The Clean Air Act places heavy demand on oil and natural gas fuels for electric generation. sectors.

RG&E installs a 24-inch gas main to increase reliability between east and west

RG&E has 254,000 electric

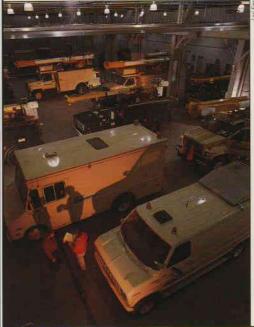
customers and 196,000 gas

customers.

Service · Solutions · Satisfaction

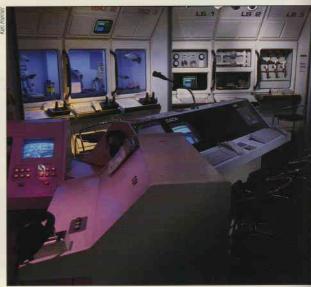
the previous pages have shown, we have deep roots in the Rochester community and a charter commitment as one of its founding contributors. We support and serve its people, our customers. RG&E is poised for sweeping change, and has anticipated and embraced the future by leading the way with its deregulation agreement which the PSC recently approved. We're ready for competition. And at RG&E we're saying that the first 150 years is just the beginning.

Futuristic technology in remote meter reading devices: ENSCAN, and the Itron MERLIN units; convenience, accuracy and efficiency.



One-of-a-kind technology is featured in the Energy Control Center at West Avenue. Precise monitoring of gas and electric operations 24 hours a day allows the most rapid and efficient energy service response in utility history.





Heavy oil demand combined with the Arab Oil Embargo creates the energy crisis of the 70s.

1975 Vietnam War ends.

RG&E establishes The Community Heating Fund with the American Red Cross

1985

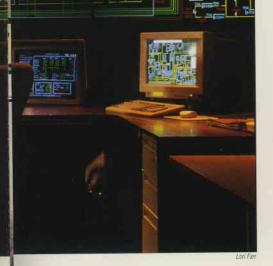
With declining use, RG&E goes out of the steam heating business

The history-making, unprecedented process of removal and replacement of a nuclear steam generator through the top of the containment dome at Ginna.





New infrared coal thawing shed technology at Russell Station.





Today's computerized Electrical Standards Lab equipment features fully automated calibration and remote site measurement. It is 10,000 times more accurate than the analog meters shown throughout these pages.

Station 5 automation makes hydro functions easier, safer and more efficient with the new Master Controller Console.



State-of-the-art Customer Telephone Service Dept. handles over a million calls annually.



1991

The worst ice storm in NY history. Two thirds of customers without electric. 75% of service back in 7 days, 100% back in 13 days. 1992

Setting the edge for competition, RG&E's corporate business plan aims to break the utility mentality mode. 1996

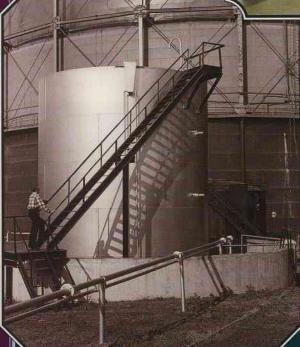
RG&E replaces the steam generators in the Ginna plant on time and under budget.

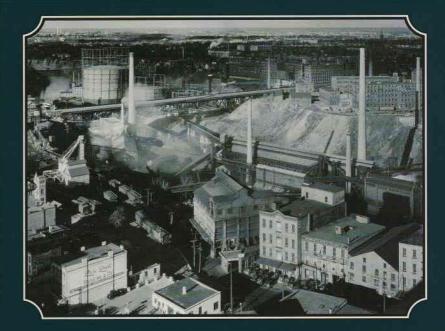
1997

Deregulation plan approved by PSC, RG&E has 342,000 electric and 280,000 gas customers. The Beginning.

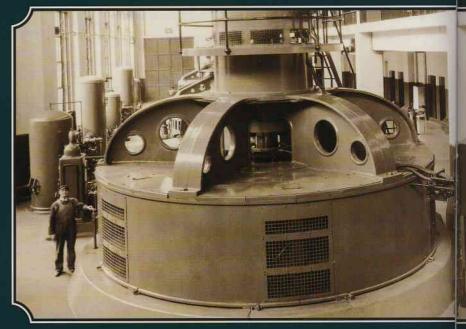




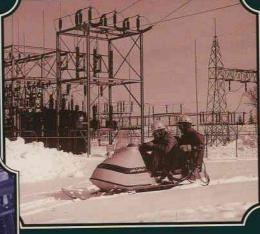


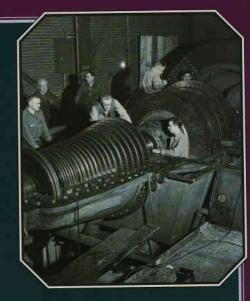


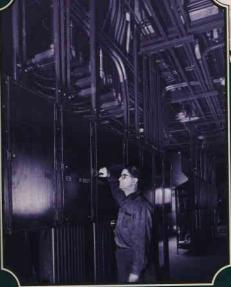


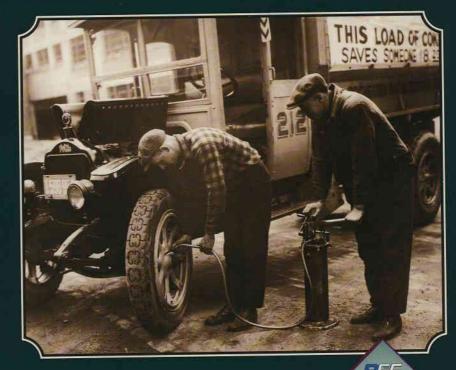


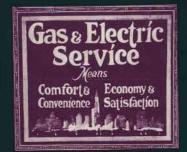












RG&E wishes to thank all of those contributors who went out of their way to be so accommodating and informative; giving of their time and expertise, lending their artifacts for photography, and providing their photos for inclusion.

The informal archivists of RG&E:
Dick Biedenbach, Ginna
Kim Magnuson, Ginna
Rick Meier, Corporate Communications
Bill Meyers, Operations
Dan Schlegel, Operations
Paul Sisson, Laboratory & Inspection
Services, Operations
Betty Weis, Marketing
Jim White, Operations
Steve Wright, Operations
Lea Zimmerman, Employee Emeritus
and former RG&E Killoette

Private Collectors and Our Friends in the Community: Dick Bowman, Webster, NY: glass

insulator collection
John A. and Jeanne Wenrich, Avon, NY:
Kerosene lamp and light bulb collection
Daniel M. Barber, Deputy Director,
Collections; Eugene Umberger, Curator
of History Chairman and Stephen
Fentress, Director, Strasenburgh
Planetarium; the Rochester Museum

& Science Center

YEARS OF SERVICE
JUST THE BEGINNING

The George Eastman House, International Museum of Photography and Film Bausch & Lomb Corporation Xerox Corporation

Our apologies to all those who heeded the call and contributed items but were left out due to space limitations.

Principal Photography: Ken Riemer Design: Attenzione Graphics

