

NIAGARA'S NEW ELECTRIC ERA

Power To Be Sent to Syracuse, 160 Miles Away.

MAY BE BROUGHT TO NEW YORK

The Transmission Lines as Projected Will Be the Greatest of Its Kind in the World.

Niagara Falls, Jan. 21.—The contract to deliver electricity, generated on the Canadian side of Niagara Falls, in Syracuse by March 1 marks the beginning of a new era in power development at Niagara. The first era saw power developed by two companies, consumed at or near the fountain head. The transmission was only to Buffalo, twenty-two miles away, and much of the power generated was taken in large blocks by electro-chemical concerns at Niagara Falls itself.

But now the transmission of electricity for long distances is sought, and the carrying out of plans already conceived will cause Niagara Falls to radiate power to every important city within 200 miles. The question arises as to the ultimate distance over which Niagara power will be transmitted.

Syracuse, to be reached by the Niagara, Lockport and Ontario Power Company, is 160 miles away. This same company is said to be considering a transmission line to Cleveland, which is about 200 miles away. New York may some time be a market for Niagara Falls power.

The question is not an engineering one. The transmission of power has been developed to such perfection that Niagara's energy, placed on a cable, could reach New York City with little loss by the way. The question is merely one of economy. It is decided by the initial cost of power, the interest on the transmission line investment and the market price for power at the terminal.

There is reason to believe that the power plants at Niagara are generating power at a very low cost. This would increase the radius over which power could be economically transmitted. The bigger the market for power the lower the cost of transmission, for big amounts can be sent over the cable almost as cheaply as small amounts. So it is possible that Niagara power will ultimately reach New York.

Many Transmission Lines. As it is the transmission lines planned are enormous, Syracuse on the east, Binghamton on the southeast, Cleveland on the west and Toronto on the north are objectives at present, and the line to Syracuse is almost completed.

The power is generated by the Ontario Power Company, which has a series of forebays at the first line of breakers in the rapids above the Horseshoe Falls. From the inmost forebay the water is conducted in a big steel pipe reinforced by concrete just below the surface of the Canadian park and poured through penstocks into the Niagara gorge just below the falls.

One such pipe line and the power house it supplies are built. The company can construct two other pipes and enlarge its power house to correspond. This would give the Ontario Power Company a development of 250,000 horse-power, making it the largest power plant either constructed or planned in the world.

The power thus generated is used partly in Canada, but the greater part is sent on cables across the Niagara gorge, four miles below the falls, to the American side where it is sold in bulk to the Niagara, Lockport and Ontario Power Company.

DEFECTIVE KIDNEYS PERIL LIFE.

Cause Untold Misery and Drive the Poor Sufferer to Distraction—No Case That Can't Be Cured by Ferrozone.

It is quite possible that you may have faulty kidneys, and not be aware of the fact. Among the most common symptoms are pain in the back and sides, morning headache, nervousness, sediment in the urine, specks before the eyes, dizziness and sour stomach. If you have any of these, hasten at once to take the surest of kidney and liver cures, Ferrozone. It is guaranteed to bring prompt relief and banish every pain and ache.

Thousands are kept in perfect health and free from kidney complaints by Ferrozone. Among those who speak in the most laudatory terms of the merit of Ferrozone is Mr. Chas. F. Olive, of the Gazette, St. John, N. B.: "For several years I have had kidney trouble," says Mr. Olive, "until quite recently I suffered torture. A few months ago my condition assumed a very serious form. I consulted several city doctors, used all well-known pills, but without the slightest benefit. I suffered from an intense pain in the groin, and the increasing seriousness of my trouble prompted me to try Ferrozone. It gave me quick relief, and half a dozen boxes cured. Ferrozone I can recommend as a specific for disordered kidneys."—Chas. F. Olive.

Ferrozone not only cures kidney complaint, but also such maladies as rheumatism, gout, sciatica, skin eruptions, diabetes, lassitude, and nervousness, which are caused by defective kidneys. It neutralizes and destroys all poisons in the system, cleanses the blood and invigorates the enfeebled energies. It is mild, gentle and certain. Costs 50 cents per box, or six for \$2.50. At druggists everywhere, or by mail from N. C. Polson & Co., Hartford, Conn., U. S. A., and Kingston, Ont.

Ontario Power Company, an allied concern. From this point the American transmission begins.

The right of way bought by the company for its transmission line is a strip of land between the Niagara River and Syracuse 160 miles in length. From the river to Lockport it is 300 feet wide, from Lockport to Rochester 200 feet wide and from Rochester to Syracuse 100 feet wide. A right of way from Lockport to West Seneca on the southern boundary of Buffalo 200 feet wide is also owned.

On this ribbon of land through New York State the company is erecting 1,500 steel towers 55 feet high, each weighing 2,500 pounds and each set in a concrete base. From Rochester to Syracuse 2,500 "A" frames of wood construction are being erected; these to be replaced later by steel towers.

Each tower or wooden frame has three insulators to support the three aluminum cables which carry the power. These insulators are the largest ever made and weigh 75 pounds. The cables are made of specially-made porcelain of a grade better than domestic crockery.

Sixty Thousand Voltage.

The cables supported on these towers each have nineteen strands—in fact there is 15,000 miles of heavy aluminum wire in this transmission line to Syracuse. The power will be sent over these cables at a voltage of 60,000. The very wide right of way leads to the question of how much power can be sent over this line. Evidently the Niagara, Lockport and Ontario Power Company have laid the land with an eye to the future.

Roughly speaking, seven tower lines can be built on this right of way and if a market were found for the power it would be possible to send 90,000-horse power to Syracuse or 200,000-horse power to Rochester. These figures are so great that they indicate that New York in future years may be a terminal for Niagara power.

The fact that the Niagara, Lockport and Ontario Power Company is to furnish the New York Central the power to be used in the electrification of its lines west of Syracuse shows where the market for a big proportion of this power will be. The amount to be used is conjectural. The railroad has made a contract for 25,000-horse power, and has, it is said, an option on very much more.

The surplus will be used for purely industrial business wherever customers are found. Thus this 150-mile long transmission line affords a river of power throughout Western and Central New York, which may be tapped at any point found convenient. Niagara is thus at the front door of every factory between Niagara Falls and Syracuse along the line of the New York Central.

This transmission line is the biggest in the world. For distance it is eclipsed by the Bay Counties Company of California but for the amount of power to be transmitted it has no equal.

It is known that the British South Africa Company has in hand the harnessing of the Victoria Falls on the Zambesi. These falls do not approach Niagara in the amount of water flowing over them, but a development of 150-horse power is planned. The consumers for this power are to be found at the Rand, in the big mines there, and the land is 700 miles away.

The question, it is asked by farmers who have sold land to transmission companies whether the presence of a transmission line is dangerous. The engineers say emphatically no. Should a cable break it would on striking the ground be automatically cut off. But these cables are not made to break.

Some of the faintest Tweeds you will see this season. Light checks, easily definable, but not very pronounced. Some of the newest creations, and very effective and modish goods, yard, 90c.

GET A
Whitewear
Sale Booklet

Free for the asking. Out-of-town customers or friends should ask for them.

1 CASE OF
FINE CAMBRIC

One of the nicest cottons for ladies' and children's underwear. Snowy white, 36 inches wide. Special at yard, 11c.

Small webs of heavy 36-inch FACTORY COTTON, 23 to 39 yards in a web. Sold only by the web. Special, yard, 9c.

Factory Cottons—Splendid Values. 5c, 6½c, 7½c, 8½c, and 10c yard.

Unbleached Sheeting

Just 5 pieces. Plain sheeting, 2 yards wide, clean, even weave. Special during this sale, per yard, 17c.

34-Inch Pongee or Raw Silk, 59c Yard

25 PIECES, 34-INCH PONGEE, bought to sell at this unusual price. Will not be able to repeat this offer. Only on rare occasions do we secure such value. It's your chance. Take it, at once, and you'll be pleased, you may be sure.

This silk improves with washing, and is used for

SUITS, DRESSES, COATS, WAISTS, CHILDREN'S WEAR.

Remember, 25 pieces only, about 18 yards to the piece, at yard, 59c.

Special in Black Jap Silk, 50c, for 39c Yd.

3 pieces only. Beautiful, rich black. Soft finish. Pure quality Jap Silk. Regular price 50c yard. On sale at, 39c.

36-inch, NATURAL WHITE HABUTAI WASH SILK. Price per yard, 50c.

See Them in The Center Window.

Watch Guard Plaid Silks

Latest Design for Shirwaist Suits

Small cross-barred plaids. Dull, rich tones of myrtle, terracotta and purple and navy blue. Navy blue and myrtle are the predominating ground colors. Three patterns to choose from. Beautiful quality. Price per yard, \$1.00.

Samples sent to out-of-town customers on request.

One of Our Handsomest Underskirts

FINE CAMBRIC UNDERSKIRT. An elegant style. 18-inch organdie flounce, trimmed with three rows of that fairy-like Nottingham Valenciennes Lace insertion, 2½ inches deep, and finished with 3 inch frill of organdie, edged with 4-inch row of Nottingham Lace, over foundation of self with darts, frills of muslin. WHITEWEAR SALE PRICE \$5.00

149, 151, 153 and 155 Dundas Street

Smallman & Ingram

THE WEATHER TODAY

Snow Flurries.

THE SATISFACTORY STORE

February Cotton Sale

Commences Thursday

Tomorrow we commence a sale that will rival the record-breaking January Linen Sale. It is the ANNUAL FEBRUARY COTTON SALE. Attention! All good housewives.

This will be the opportunity of the season to buy cottons and sheetings. Thousands of shrewd housekeepers will doubtless give it a generous welcome.

We frankly admit you will pay more for some lines than during our 1905 Cotton Sale. This is owing to the extraordinary advances in cottons—and the prices are still soaring skyward.

But, we are endeavoring to give you the very best values possible. With this end in view, we have been on the lookout for exceptional values, and have succeeded in picking up many lines that will be impossible to repeat at the sale prices.

During this sale you will reap the savings on these fortunate purchases, besides the many special prices marked for this sale only.

Will you take our advice?—buy your cottons now and avoid paying higher prices later on.

We start the sale with the following list of enticing values—at 9 a. m. Thursday morning.

White Cottons

7½c 36 inches, fine even cotton, fully bleached, nice, soft finish. This is specially good value. 7½c

At this popular price we are showing four special qualities that cannot be offered again at this money.

No. 1 35 inch FINE CAMBRIC for ladies' and children's wear, 10c

No. 2 35-inch ENGLISH LONG CLOTH, fine weave, good quality, 10c

No. 3 36-inch CANADIAN SHIRTING COTTON, for general wear, 10c

No. 4 35-inch heavy round thread ENGLISH COTTON, for nightgowns, etc., 10c

Special Plain Bleached Sheetings—2 yards wide, extra quality, special, 29c

2½ yards wide, extra quality, special, 33c

2½ yards wide, extra quality, special, 36c

Special Twilled Bleached Sheetings—2 yards wide. A beautiful even sheeting. Bought, the last that can be procured of this line, at the very special price (while it lasts) of, yard, 33c

2½ yards wide. Same quality as above. A great bargain. Per yard, 36c

FACTORY COTTON SPECIAL

34-inch fine and very even make. Easy to bleach. Put up in 30-yard pieces. At per piece, \$2.25.

SPECIAL 40-INCH FACTORY COTTON—A limited quantity. Clean weave. Suitable for pillow cases, etc. Bleaches easily and could be used for underwear or gowns. SPECIAL, yard, 10c

Unbleached Sheeting

23c Yard

23c Yard

Twilled Bleached Sheeting

20 inches wide, and fully bleached, at very low price of per yard, 19c

34-Inch Pongee or Raw Silk, 59c Yard

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