New York Energy Solution



A New York Transco Project

May 13, 2019 Town of Schodack Town Supervisor Briefing

Nicde MARNAN Borns/McDannell 307-359-3323 TAL RAPPLOYED, ESG. 2880 Rtg Box 793 UPLATIE, NY 12184 758-8034



Who is New York Transco?

- Developer of New York Energy Solution (NYES)
- Owner and developer of bulk power transmission facilities in New York
- Electric transmission solutions designed to
 - Reduce energy prices
 - Facilitate the growth of clean energy
 - Ensure system reliability
- New York Transco is owned by subsidiaries of Con Edison, National Grid, AVANGRID and CH Energy Group

Completed Projects:

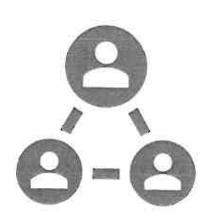
Ramapo – Rock Tavern 345kV Transmission Line

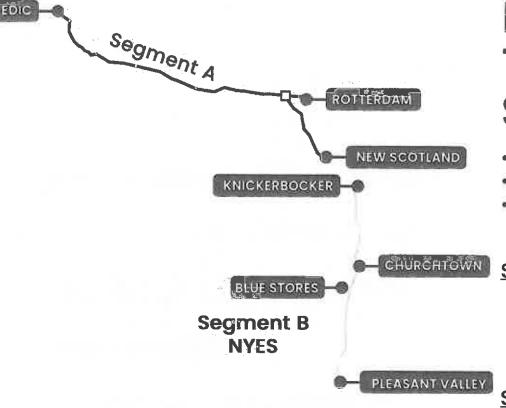
Fraser – Coopers Corners 345kV Line with Reactive Support

> Staten Island Unbottling

Why are we meeting today?

- Introduce the project & key team members
- Open dialogue
- Very early in the process
- First of many opportunities to discuss the project
- Good projects result from good public involvement





NYISO-Selected Transmission Solutions

2 Solution

- Relieve congestion & facilitate renewables
- Use existing utility rights-of-way
- Replace aging infrastructure

Segment A:

- Marcy to New Scotland and Rotterdam
- Developed by LS Power & NYPA

Segment B:

- New York Energy Solution
- Schodack to Pleasant Valley
- Developed by New York Transco

To 7 Energy

What is the New York Energy Solution?

- Electric transmission upgrade
 - Retire and replace aging electric infrastructure
 - Relieve congestion
 - Enhance reliability
 - Facilitate renewable energy
- Reuse existing utility rights-of-way, property & assets
- Approximately 54 miles through 11 towns from Schodack to Pleasant Valley; 2 mile tap line
- Transmission line and station work
- Selected by NYISO in competitive process → most cost-effective, efficient, environmentally beneficial and resilient project



7 Energy Solution

Key NYES Benefits

Replaces Aging Infrastructure

Stays within Existing Rights-of-Way Reduces Number
of Structures
245 less in ROW
(693 removed; 448 installed)

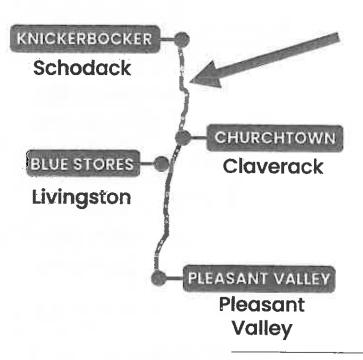
More Resiliency

Unlocks Clean Energy Resources

Job Creation & Tax Revenues

Energy Solution

Project Scope: Knickerbocker to Churchtown



- New 345kV switching station in Schodack on utilityowned property
- Retire & remove one existing 115kV transmission line on lattice structures
- Build approximately 22 mile new 345kV transmission line in existing corridor on a new double-circuit monopole
- Towns*:

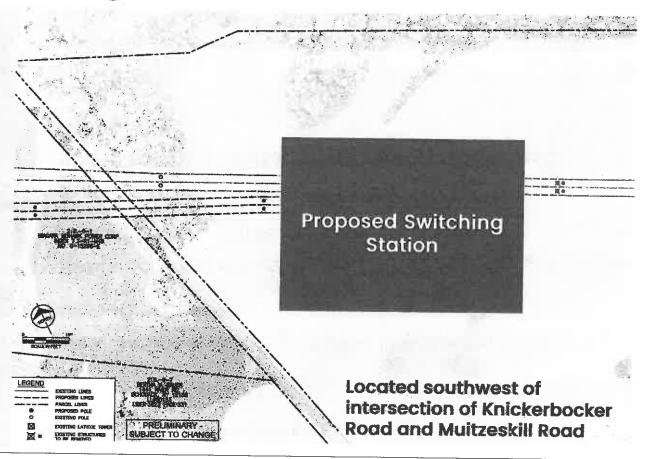
Schodack	Stuyvesant	Stockport	Ghent	Claverack
2.5 miles	8 miles	4.5 miles	0.9 miles	5.7 miles

^{*}Mileage is approximate

Knickerbocker Switching Station

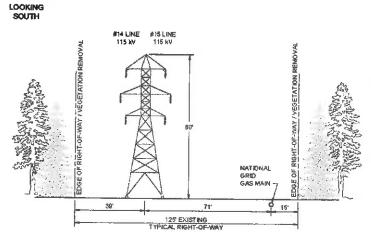


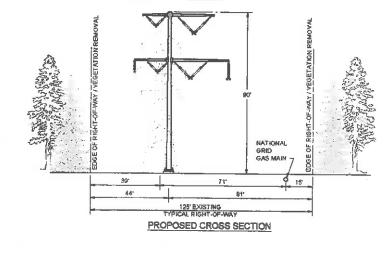
- Utility-owned property
- Approximately 11 acres total area – station has smaller footprint
- Station will be fenced
- New control enclosure, approximately 40' x 60'
- Site will require grading, compaction, and installing an access road
- Will connect an existing 345kV line to the new NYES 345kV line



345 kV line - Schodack to Claverack

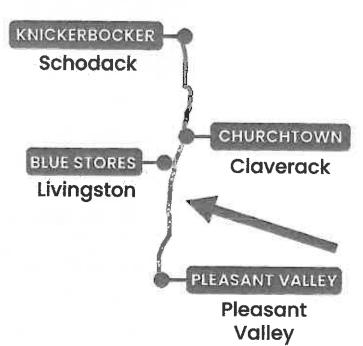
- General configuration
- Approx. 22 miles
- Removes 80year-old assets
- Ave. height increase 10 feet
- Stronger foundation with less footprint





Project Scope: Churchtown to Pleasant Valley





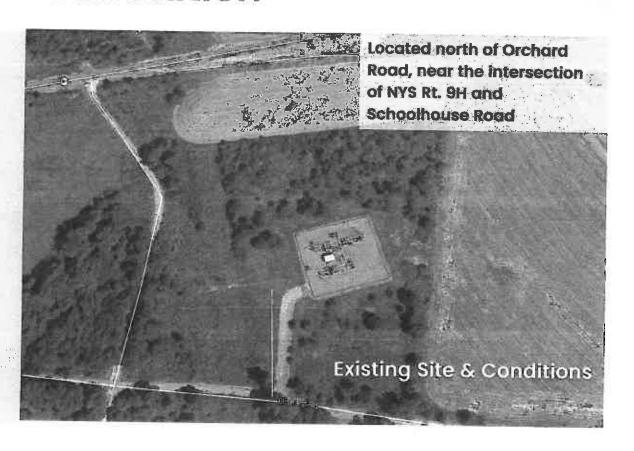
- Rebuild existing NYSEG Churchtown Substation
- Retires three existing 115kV transmission lines and removes two existing 115kV lattice structures
- Build approximately 32 mile new 345kV transmission line in existing corridor on a new double-circuit monopole
- Towns*:

Claverack	Livingston	Gallatin	Clermont	Milan	Clinton	Pleasant Valley
1.5 miles	8 miles	1.2 miles	0.7 miles	8 miles	8 miles	5.1 miles

^{*}Mileage is approximate

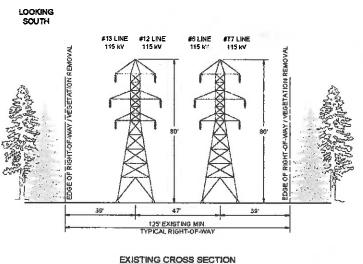
Churchtown 115kV Substation

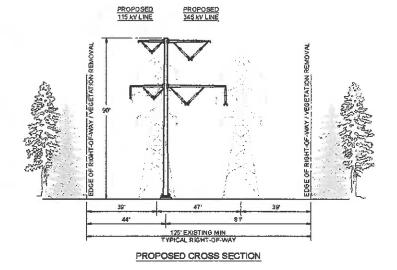
- Rebuild 115kV
 substation on NYSEG
 land in Claverack
- Approximately 5.5
 acres total station
 has smaller footprint
- New control enclosure, ~30' x 50'
- · Station will be fenced

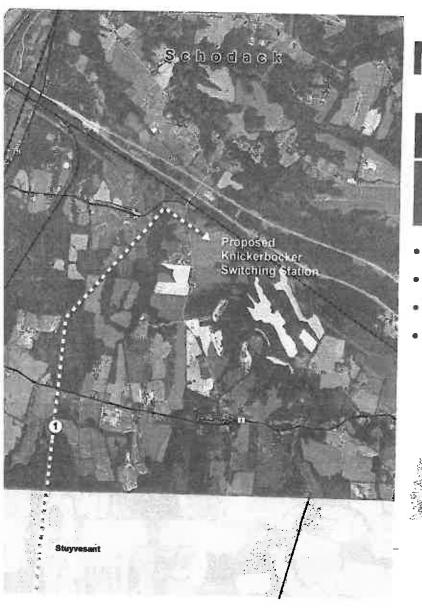


345 kV line - Claverack to Pleasant Valley

- General configuration
- Approx. 32 miles
- Removes 80 year old assets
- Replacing two structures with one
- · Ave. height increase of 10 feet
- Stronger foundation with less footprint





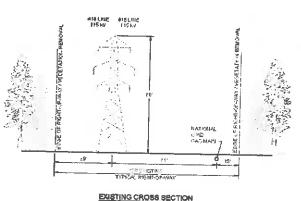


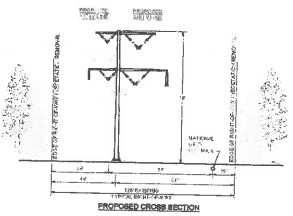
NYES in Schodack



1 with 1	Structures	Structures	Structure	Other	
Replacement	Removed	Added	Difference	Facilities	
2.5 miles	19	21	+2	New Switching Station	

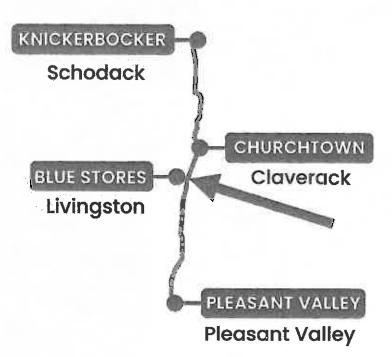
- All work within existing utility rights-of-way
- Replacing aging structures & putting in new 345kV line
- Building new 345kV switching station on utility-owned land
- Line crosses: Knickerbocker Rd; Muitzeskill Rd; Schodack Landing Rd





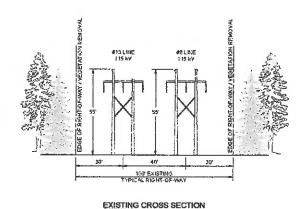
Energy Solution

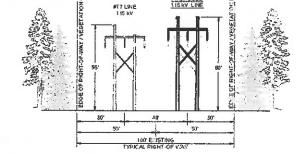
Project Scope: Blue Stores Tap



- Approximately 2 mile upgrade to one existing 115kV
 line with new H-frame transmission structures
- Average height increase of 5 feet
- Town: Livingston

LOOKING WEST



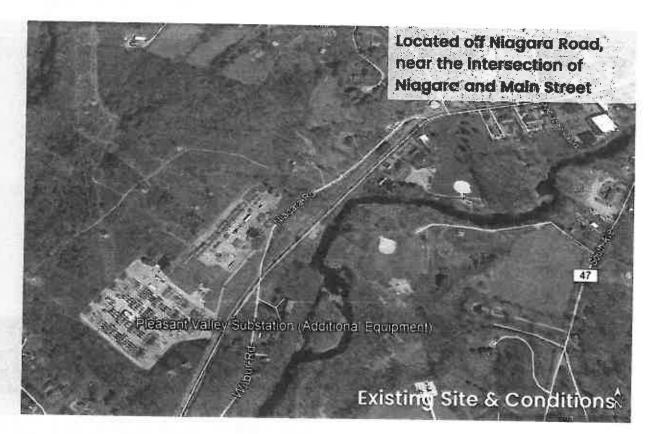


PROPOSED CROSS SECTION

Pleasant Valley Substation

Energy Solution

 New equipment will be added at the existing substation





Town-by-Town Overview

Town	1 with 1 Replacement	2 with I Replacement	Other work	Structures Removed	Structures Added	Structure Difference
Schodack	2.5 miles	几步霍马河	New Switching Station	19	21	+2
Stuyvesant	8 miles	_		64	60	-4
Stockport	4.5 miles	- ,		33	33	No change
Ghent	0.9 miles	_		8	8	No change
Claverack	5.7 miles	1.5 miles	Rebuilt Substation	67	70	+3
Livingston	_	8 miles	Approx. 2 mile 115kV structure replacement	144	84	-60
Gallatin	<u> </u>	1.2 miles		18	9	-9
Clermont	-	0.7 miles		8	4	-4
Milan	_	8 miles		132	56	-76
Clinton		8 miles		118	59	-59
Pleasant Valley	· -:	5.1 miles	New Equipment at Existing Substation	82	44	-38

All work is within existing rights-of-way or on utility-owned property

NOTE: All mileage is approximate & structure totals are preliminary



Approximate Timeline

April 8, 2019:

NYISO Decision

2021-2023:

Construction









2019-2020:

Permitting

End 2023:

NYES In-

Service

Stakeholder outreach & public involvement throughout the process

Energy Solution

Permitting

Article VII

- "One-stop-shop" for large electric transmission projects
- New York Public Service Commission
- Basic Steps:
 - 1. Article VII Application submittal
 - 2. Public Hearings
 - 3. Certificate of Environmental Compatibility & Public Need granted
 - 4. Environmental Monitoring and Construction Plan (EM&CP) submitted and approved
 - 5. Notice to Proceed with Construction
- Many public involvement opportunities

Other Permits

- U.S. Army Corps of Engineers
- FAA Review
- New York State DOT permits
- Local highway permits

Current Activities

- Stakeholder Outreach
- 2. Survey Work

New York Transco.

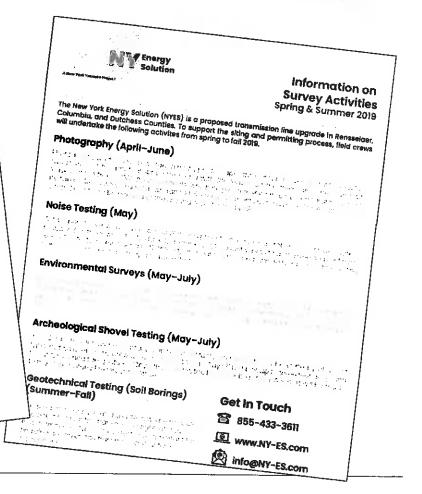
FOR IMMEDIATE RELEASE April 11, 2019

845.471.8323, john.maserjian@NYTransco.com

New York Transco to Advance Electric Transmission Project that Reuses Existing Utility Corridors to Replace Aging Infrastructure The New York Energy Solution Will Unlock System Congestion and

Facilitate Renewables with Minimal Environmental Impact

Albany, NY (April 11, 2019) - New York Transco was selected as the developer for Segment B of the AC Transmission Public Policy Project by the New York Independent System Operator (NYISO). The selected project—New York Energy Solution (NYES)—stays within existing utility rights-of-way and replaces nearly 80-year old transmission assets located in the upper to mid-Hudson Valley with streamlined, modernized technology, which will enable surplus clean energy resources in upstate New York to help achieve the State's energy goals.





Public Involvement

- We are committed to working with all stakeholders throughout the project
- We will conduct regular outreach:
 - Municipal Consultations & Briefings
 - One-on-One Meetings
 - Open houses/Community Meetings
 - Project Notifications
 - Project Website and Other Outlets
- Article VII process includes public involvement opportunities

855-433-3611 Toll-Free

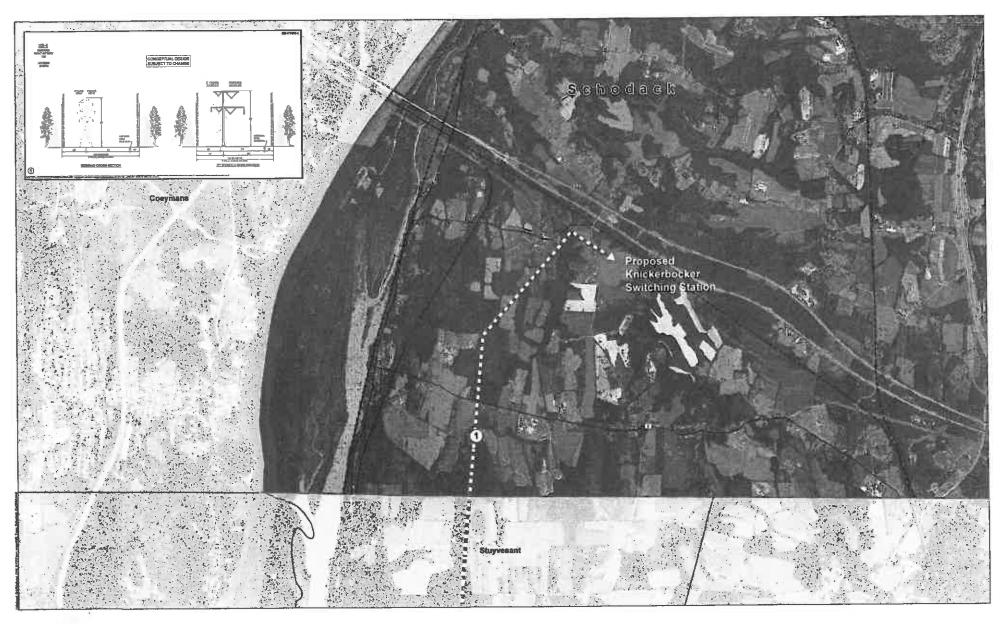
www.NY-ES.com

info@NY-ES.com

Contact

Shannon Baxevanis Stakeholder/Communications Lead NY Transco 518.218.5210 Shannon.Baxevanis@nytransco.com







New York Energy Solution Town of Schodack Map April 2019 This map is for informational purposes only, and is subject to change. Do not reproduce.





Verizon Connect NWF Pricing Proposal

Date: 03/20/2019

Please review your custom Pricing Proposal below. For questions, please inquire with your sales contact.

Chris Diaz

christopher.diaz@verizonconnect.com

BILLING INFORMATION

Bill To Company: / Town of Schodack
Billing Address: 265 SCHUURMAN RD
City: CASTLETON ON HUDSON

State: NY Zip: 12033 - SHIPPING INFORMATION

Ship-To Company: /Town of Schodack

Shipping Address:

City: State: Zip:

PRODUCTS & SERVICES								
SEQ	ITEM	SKU	CATEGORY	QTY TERM	NRC PRICE	NRC TOTAL	MRC PRICE	MRC TOTAL
1	SOL-GPS AND DIAGNOSTICS	SOL-GPS AND DIAGNOSTICS-VERIZON	SOLUTION	33 12 Months	0.00	5,782 59	0.00	625 35
1.1	GPS AND DIAGNOSTICS LTE	5500N4VL	HARDWARE	33 N/A	80.00	2,640.00	0.00	0 00
1.2	MONTHLY SERVICE 5500	MOH5500120	SERVICE	33 12 Months	0.00	0.00	18.95	625 35
1.3	USM OBDII BYPASS HARNESS	PARTS109	HARNESS	18 N/A	30.23	544.14	0.00	0 00
1.4	USM 9-PIN SQUARE HARNESS	PARTS100	HARNESS	10 N/A	30.23	302.30	0.00	0 00
1.5	USM 9-PIN SQUARE HARNESS TYPE 2	PARTS107	HARNESS	4 N/A	30.23	120.92	0.00	0 00
1.6	USM 6-PIN HARNESS	PARTS099	HARNESS	1 N/A	30.23	30.23	0.00	0 00
1.7	BASE INSTALLATION	I-INSTALL-UNIT	INSTALL	33 N/A	65.00	2,145.00	0.00	0.00
1.8	CONFIGURABLE UPDATE RATE 60 5500	CUH5500060	ACCESSORY	33 12 Months	0.00	0.00	0.00	0 00
2	SOL-GPS ONLY	SOL-GPS ONLY-VERIZON	SOLUTION	4 12 Months	0.00	618 28	0.00	68 00
2.1	GPS ONLY LTE	5200N4VL	HARDWARE	4 N/A	80.00	320.00	0.00	0 00
2.2	MONTHLY SERVICE 5200	MOH5200120	SERVICE	4 12 Months	0.00	0.00	17.00	00 36
2.3	USM UNIVERSAL HARNESS	PARTS102	HARNESS	4 N/A	9.57	38.28	0.00	0 00
2.4	BASE INSTALLATION	I-INSTALL-UNIT	INSTALL	4 N/A	65.00	260.00	0.00	0 00
2.5	CONFIGURABLE UPDATE RATE 60 5200	CUH 5200060	ACCESSORY	4 12 Months	0.00	0.00	0.00	0 00
* Sales	Tax and Shipping are additional to this subtatal	Adversion Prof.	* ONE TIME (CHARGE \$ 6,400-87	•	MONTHLY RECUR	RING CHARGES	\$ 693 35

COMMENTS

TERMS AND CONDITIONS

- 1. Pricing provided is valid for NYS OGS Contract # PT66910 procurements only. Any future contract shall be issued under Networkfleet's NYS OGS Contract # PT66910.
- 2. Should a Purchase Order (PO) be issued to Networkfleet for the procurement of the items quoted, the PO number will be used for reference purposes ONLY on any invoice from Networkfleet. Any terms and conditions contained in the purchase order are rejected, void and have no force or effect.
- 3. Shipping and/or applicable taxes:
- a. Pricing provided does not include taxes. Taxes (if applicable) are applied to the monthly invoice
- b. Shipping: FOB Destination. Shipping is included in the price above.
- 4. Discount for Networkfleet 5200 and 5500 series products only: New and existing Government customers purchasing either the Networkfleet 5200 or 5500 Series Devices, from 1/2/2019 to 3/31/2019, will receive a device discount of \$80.00 for each new 5200 or 5500 Series Device with a new line of Networkfleet Service and a minimum twelve (12) month Device Contract Term. The applicable Device will be activated on the earlier of (1) installation in a vehicle or (2) 5/20/2019. The Networkfleet Services fee for the applicable Device begins at the time of activation of the Device, but in no event later than 5/20/2019. NOTE: Any executed order, received later than 3/31/2019, will be null and void and ineligible to receive the discount described above





Protect your fleet with

VERIZON NETWORKFLEET'S ROADSIDE ASSISTANCE

When your business depends upon a reliable fleet, nothing's more inconvenient than a breakdown. If it happens to you, get help in a hurry with our Roadside Assistance plan. Networkfleet° is one of the only GPS fleet management systems offering emergency roadside assistance at no additional cost. Through contracted service providers, we provide the following services to vehicles covered under the plan:

TOWING

If one of your vehicles breaks down, we'll have it towed up to 25 miles from the point of breakdown to the nearest service provider or driver-specified location.

- Additional miles will incur a fee paid directly to the service provider.
- Trailer towing (attached or unattached) is a separate service event and will incur additional charges.
- · Accident-related towing is not covered.

LOCKSMITH SERVICES

We help locked-out drivers gain entry to their vehicles.

- Vehicle must be at an accessible location.
- Locksmith service does not include the cost of keys, parts, or additional labor beyond gaining entry to the vehicle.
- Convertible vehicles cannot be unlocked, and must be towed.

BATTERY BOOST

If your battery dies, we'll jump-start your vehicle and/or perform minor mechanical adjustments to get it going again.

 Hybrid vehicles are ineligible for the plan's battery boost service and will be towed.

TIRE CHANGE

When a vehicle suffers a blowout or flat, we'll replace it with the vehicle's spare tire.

- One tire change per service visit.
- More than one flat tire or the absence of a spare will require towing the vehicle to a service location.
- Fixing or patching the flat tire is not included.

FUEL DELIVERY

We'll deliver up to three gallons of fuel to a vehicle that runs out of gas. If necessary, the vehicle will be towed to the nearest gas station.

- Our plan covers delivery of the fuel only.
 The cost of the fuel must be paid directly to the service provider.
- If more than three gallons are needed, the service provider will make arrangements to tow the vehicle to the nearest gas station.
- When requesting this service, the caller must specify either unleaded or diesel fuel.

WINCH SERVICE

Vehicles stuck on ice or in mud or snow on a normally traveled roadway will be extracted during safe conditions. We can provide winch service from up to 100 ft. off the roadway.

LOST/STOLEN VEHICLES

We can even help in the event of a theft. If a vehicle is stolen, immediately:

- Contact the local authorities to report the vehicle lost or stolen.
- Contact Networkfleet at 1.866.227.7323.
 Press "2" and provide the following information:
 - Police report number and name of the police division
 - Officer's contact name
 - Police division telephone number

Our Roadside Assistance representative will contact the officer handling the case to provide the vehicle's location information.

Service is available to all vehicles licensed for operation on public roads and equipped with a Networkfleet device*. The plan includes up to four of the above services per vehicle, per calendar year. Plus, our Auto Call-Back feature automatically calls you to verify the job has been completed.

To learn more about Networkfleet, contact your Verizon account manager, or visit networkfleet.com.

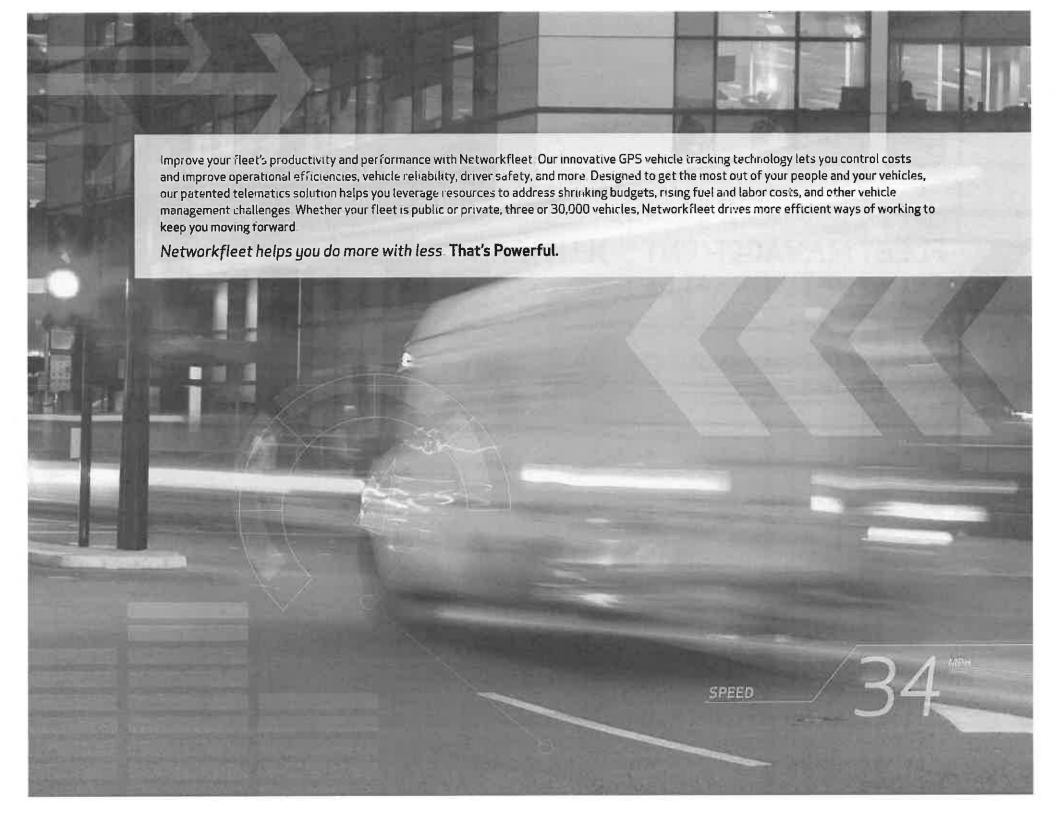
Networkfleet Roadside Assistant Services will be provided as stated above unless extenuating circumstances (as defined by the Networkfleet Roadside Assistance Plan) axist, in which case the service provider will notify the customer of any restrictions and/or applicable fees. Service is not provided on restricted roadways as determined by state and local authorities.

*Excludes vehicles using Asset Tracking service and/or Yellow fron equipment

CONTACT US

E-mail: sales@networkfleet.com Call: 866.869.1353 Web: networkfleet.com





BE NEARLY EVERYWHERE AT ONCE.

Networkfleet provides the reliable, timely data you need to make smart fleet management decisions. Engine diagnostic alert features identify issues before they become problems, helping to prevent vehicle breakdowns, control maintenance costs, and improve customer service. Robust reporting capabilities let you track vehicle performance over time, identify trends, and take action to enhance the long-term productivity of your fleet.

From vehicle location to fuel usage, idle time, driver safety and more, Networkfleet keeps you on top of everything that happens with your fleet-every vehicle, all the time.

FLEET MANAGEMENT TRANSFORMED.

Manage your entire fleet more efficiently and effectively with Networkfleet. Drivers become more accountable. Managers make decisions based on hard data rather than guesswork. Customer service improves as you route vehicles more efficiently. Forecasting and budgeting become more predictable. You even reduce environmental impacts through lower fuel usage and fewer emissions.

IMPROVE PROFITABILITY.

From more efficient routing to less vehicle idle time, Networkfleet helps you control costs and enhance profitability. Public fleets can meet tight budgets and reduce fleet size through ongoing improvements in fuel usage, service costs, and vehicle utilization. Commercial fleets improve profitability by using more efficient routing to take on more jobs without adding vehicles or personnel. Monitoring driver speed can reduce the risk of accidents and moving violations, which can lead to lower insurance premiums. GPS

tracking helps to reduce unauthorized use and recovery of stolen vehicles. With so many potential ways to save, Networkfleet can pay for itself in no time.

TECHNOLOGY YOU CAN TRUST.

Designed with more than 50 Networkfleet patents that set the standard for the telematics industry, our fleet management products are reliable and easy to use. Optional system-wide satellite redundancy keeps you in touch with vehicles, even in remote areas where driver safety is more critical. Plus, our limited lifetime warranty for the 5000 Series protects your investment throughout the life of the product.

With Networkfleet, smart fleet management isn't an unrealized goal; it's how you do business every day-and that's a powerful advantage.

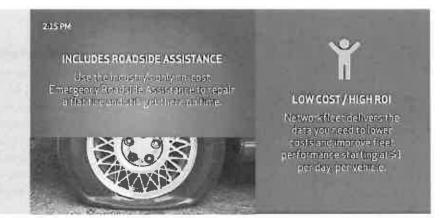




1-00 PM

MANAGEMENT TEAM MEETING

Review speed, geofence, and unauthorized vehicle usage reports to reward good drivers and coach repeat violators



101407708

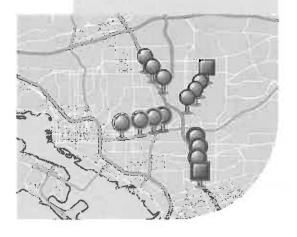
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10:03 AM

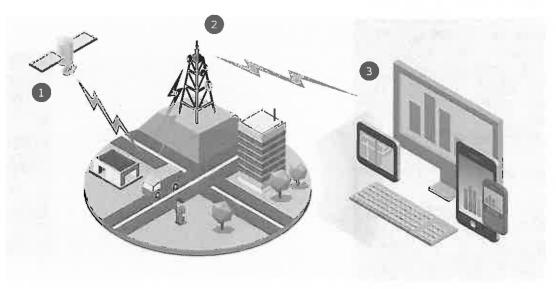
STOLEN VEHICLE

Relay vehicle tracking data to police, who recover vehicle within an hour



Information rules the road.

- Installed Networkfleet units monitor vehicle location, engine diagnostics, and other fleet performance metrics 24/7.
- The system automatically transmits vehicle and asset data over a secure wireless network to the Networkfleet data center.
- Access the secure Networkfleet website to set and receive vehicle alerts, track vehicles, and monitor driver behavior.
 Using PCs, smart phones, or tablets, managers monitor data to make realtime fleet management decisions.



4/25 PM



EXCESSIVE IDLE ALERT

Contact driver to assess situation in the field



535 PM

LOG OFF

Review status of alerts received during the day. Check final location of all vehicles Check upcoming scheduled weekly maintenance



Turn data into decisions.

Smart fleet management involves more than just tracking your vehicles. It's what you do with the data that counts.



CUSTOMER SERVICE THAT GOES THE EXTRA MILE.

Certified Networkfleet installers provide fast, accurate installation of your system. On-demand training courses and a dedicated customer care team help keep your system operating smoothly and efficiently.



POWERFUL DATA MANAGEMENT TOOLS.

Online data management and reporting tools help you organize, manage, and share your vehicle data for informed fleet management decisions.



EXPAND YOUR CAPABILITIES WITH THIRD-PARTY SOFTWARE INTEGRATION.

Easily integrate Networkfleet data into your own system. Agreements with Esri* ArGIS* GeoEvent Processor and AssetWorks enhance mapping and data management capabilities. Built-in Garmin integration facilitates turn-by-turn navigation and direct communication with drivers.



MAINTENANCE MADE EASY.

Automatic engine diagnostic alerts identify potential issues before they become big problems. Detailed vehicle usage reports help you schedule preventive maintenance to control repair, labor, and replacement costs.



SATISFY GOVERNMENT OR CORPORATE FLEET REQUIREMENTS.

Remote monitoring of fuel usage, miles driven, and vehicle emissions helps you address government regulations and corporate policies regarding fleet size, greenhouse emissions, vehicle utilization, and other fleet performance targets.



PROTECT YOUR VEHICLES AND YOUR DRIVERS.

Enhance fleet security, reduce the risk of accidents, and decrease excessive wear and tear on vehicles by monitoring speeding and other risky driving behaviors.

Benefits of a fleet management system.

According to Frost & Sullivan: Fleet operators that focus on achieving the benefits of a fleet management system can realize significant cost savings and operational improvements.*



INCREASED SAVINGS











ADDITIONAL BENEFITS

Improved Productivity
Enhanced Vehicle Utilization

10-15% 15-20%

*Custom Research from Frost & Sullivon LCV Telematics Market - November 2013



PROUD TO BE PART OF THE VERIZON FAMILY.

Networkfleet offers GPS fleet management solutions to help small to medium-sized businesses, enterprises, and government agencies better manage vehicles and assets. A division of Verizon Telematics, a leader in next-generation connected services for the automobile, insurance, and healthcare industries, our solutions provide the accurate, timely data needed to make smart business decisions.

Since we began providing innovative telematics solutions in 1999, we've earned more than two dozen industry awards. An integral part of Verizon's Machine to Machine (M2M) initiative to make 30 billion connections by 2020, we strive to create a more connected world where you're always in touch with what you care about. Whether your fleet is public or private, small, medium, or large, Networkfleet keeps you moving forward

866.869 1353 | sales@networkfleet.com | networkfleet.com

David Harris

From: Diaz, Chris <christopher.diaz@verizonconnect.com>

Sent: Wednesday, March 27, 2019 3:21 PM

To: David Harris

Cc: Asher Kent; Justin Boucher; Gareis, Gerhard

Subject: Verizon Connect Follow Up - Town of Schodack

Attachments: Networkfleet Capabilities.pdf; Roadside Assistance Fact Sheet.pdf; Verizon Connect

Quote - Town of Schodack.pdf

Dave,

Thank you for taking the time to speak with us today. I've attached your quote along with some information around our solution. If you have any questions as you review it, please don't hesitate to reach out. I'm open to either the April or May workshop.

NYS OGS #PT66910 Pricing (contract link)

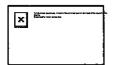
- \$18.95 per vehicle monthly includes:
 - Real-time GPS & Lifetime History
 - Real-time Diagnostic Trouble Code Alerts
 - Maintenance Scheduling and Service Records
 - Roadside Assistance covering 4 incidents annually per vehicle
 - Fuel consumption reduction tools including idle, speed, and aggressive driver monitoring
- \$110.23 up-front one-time hardware cost per vehicle (self-installed)
 - \$65 per vehicle for professional installation (optional)
- Additional options
 - \$10 up-front hardware for a pair of PTO sensors. No additional monthly cost incurred
 - \$65 per in-cabin DriverID hardware + \$3.50 per driver-held keyfob. No additional monthly cost incurred
- Limited Lifetime Device Warranty
- 1 year term*

Return on Investment:

There are several ways organizations experience this. Here are some examples:

- <u>Fuel consumption</u> many existing customers report back an average of 10 25% savings over the course of a year. Reducing idle by 1 hour weekly pays for the service for the month!
- Real-time <u>Diagnostics</u> & <u>Maintenance Scheduling</u> Proactively maintaining the fleet lowers overall maintenance bills by avoiding bigger issues. It's also proven that a well-maintained fleet improves MPG.
- Free Roadside Assistance Covers 4 incidents per vehicle annually. A single tow could pay for that vehicle's service for several months, even the whole year!
- Insurance premium reductions These vary by provider and vehicle type, but worth a call to your to insurer find out.
- <u>Worker Productivity</u> Immediately increases tasks/project completion by improving routes taken and reducing downtime.

Regards,



Chris Diaz Account Manager – Public Sector

105 Twin Oaks Drive Syracuse, NY 13206

C: (315) 766-7894 | F: (815) 301-2940 Christopher.Diaz@verizonconnect.com

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