

Generator Fuel and Emissions Reporting (GFER) Transmission Operator (TOP)

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Market Training
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Presentation Outline

- **Generator Fuel and Emissions Reporting Background**
- **NERC Requirement Updates for GFER**
- **GFER Software Requirements**
- **Viewing GFER Survey Results**
- **Additional Resources**

Generator Fuel and Emissions Reporting Background

Generator Fuel and Emissions Reporting

- **GFER is the platform used by MPs to submit fuel and emissions information**
 - Exchange of information gives the NYISO and the Transmission Operators (TOPs) more visibility into the fuel and emissions availability and limitations of the NY generation fleet

NERC Requirement Updates for GFER

NERC Requirement Updates

- **Changes to the EOP-011, IRO-010, and TOP-003 Standards will be effective April 1, 2023**
 - TOPs (NYISO and Transmission Owners) to have access to the GFER survey results in order to adequately evaluate and perform Operational Planning Analyses, Real-Time monitoring, and Real-time Assessments
 - GFER – RT OPS FUEL REPORTS OBSERVER

GFER Interface Requirements

GFER Interface Requirements

■ Software Specifications

- Mozilla Firefox
- Google Chrome
- Microsoft Edge

■ Digital Certificate

- Valid NAESB Digital Certificate Required
 - Installed on respective computer

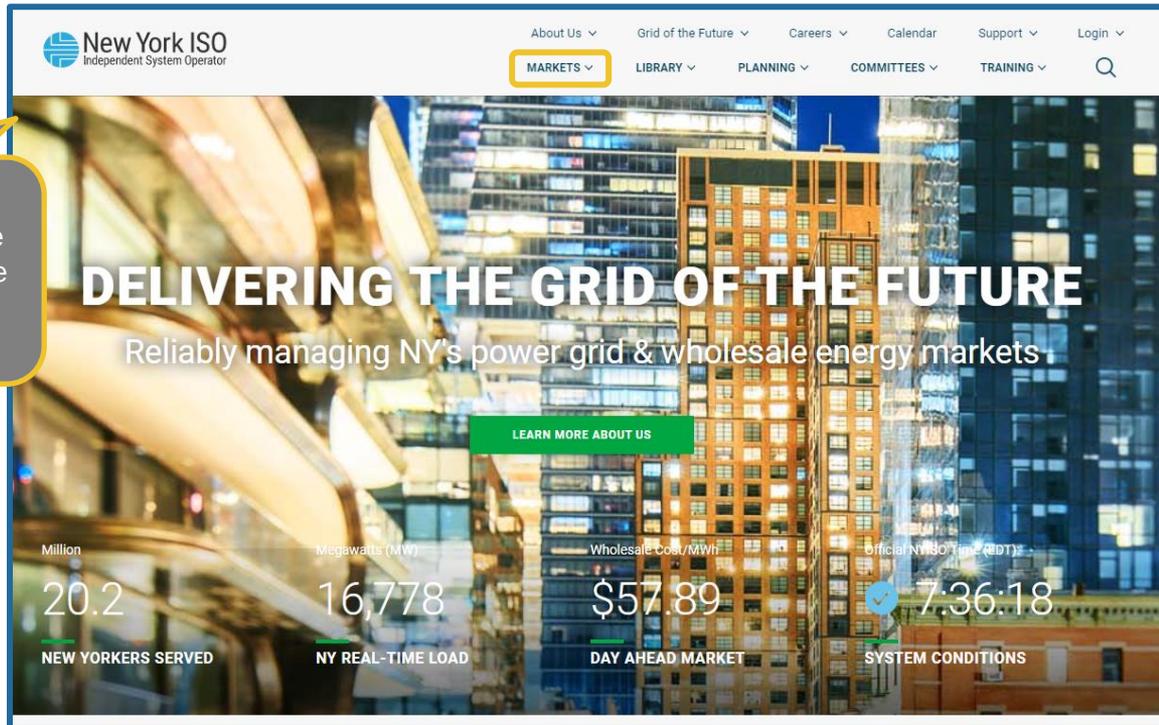


Viewing GFER Survey Results

Accessing GFER

- NYISO Market Access Login

To access the GFER application, navigate to the NYISO website and click the drop-down arrow in the 'Markets' tab

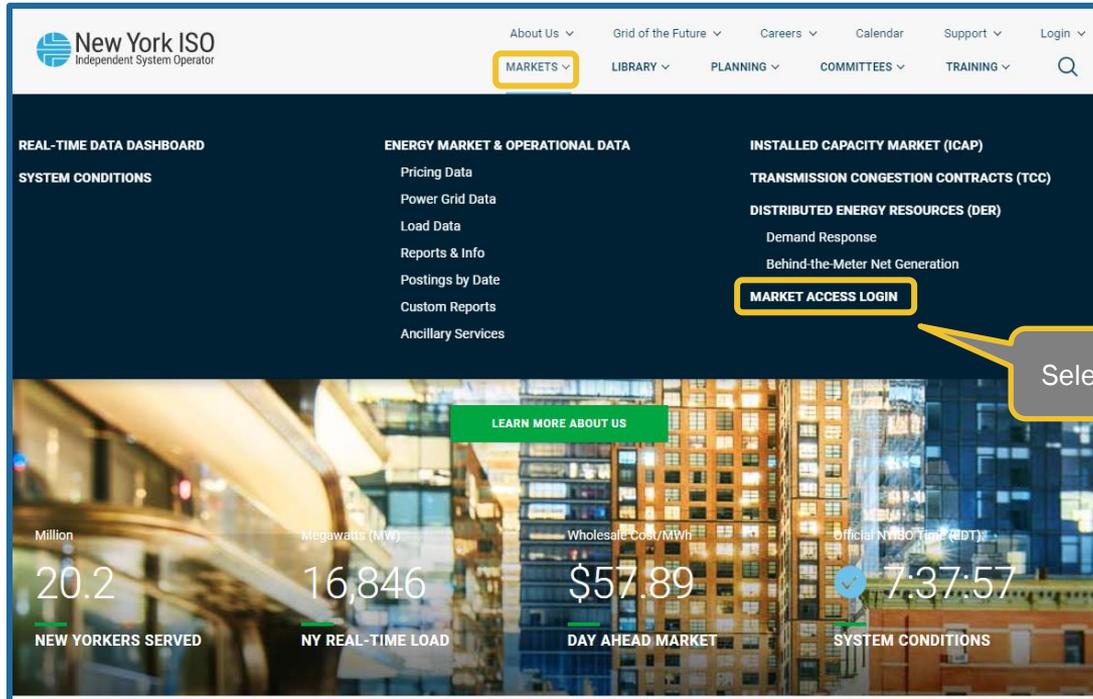


The screenshot shows the NYISO website homepage. The top navigation bar includes the NYISO logo and several menu items: 'About Us', 'Grid of the Future', 'Careers', 'Calendar', 'Support', and 'Login'. A yellow box highlights the 'MARKETS' dropdown menu. Below the navigation bar is a large banner with the text 'DELIVERING THE GRID OF THE FUTURE' and 'Reliably managing NY's power grid & wholesale energy markets'. A green button labeled 'LEARN MORE ABOUT US' is positioned below the banner. At the bottom of the page, there are four data points: '20.2 MILLION NEW YORKERS SERVED', '16,778 MEGAWATTS (MW) NY REAL-TIME LOAD', '\$57.89 WHOLESALE COST/MWH DAY AHEAD MARKET', and '7:36:18 OFFICIAL NY ISO TIME (EDT) SYSTEM CONDITIONS'.

Metric	Value
NEW YORKERS SERVED	20.2 Million
NY REAL-TIME LOAD	16,778 Megawatts (MW)
DAY AHEAD MARKET	\$57.89 Wholesale Cost/MWh
SYSTEM CONDITIONS	7:36:18 Official NY ISO Time (EDT)

Accessing OMS

■ NYISO Market Access Login



The screenshot shows the NYISO website navigation menu. The 'MARKETS' dropdown menu is highlighted with a yellow box. Within this menu, the 'MARKET ACCESS LOGIN' link is also highlighted with a yellow box. A callout bubble points to this link with the text 'Select 'Market Access Login''.

Navigation menu items: About Us, Grid of the Future, Careers, Calendar, Support, Login, **MARKETS**, LIBRARY, PLANNING, COMMITTEES, TRAINING, Search.

REAL-TIME DATA DASHBOARD

SYSTEM CONDITIONS

ENERGY MARKET & OPERATIONAL DATA

- Pricing Data
- Power Grid Data
- Load Data
- Reports & Info
- Postings by Date
- Custom Reports
- Ancillary Services

INSTALLED CAPACITY MARKET (ICAP)

TRANSMISSION CONGESTION CONTRACTS (TCC)

DISTRIBUTED ENERGY RESOURCES (DER)

- Demand Response
- Behind-the-Meter Net Generation

MARKET ACCESS LOGIN

LEARN MORE ABOUT US

Million
20.2
NEW YORKERS SERVED

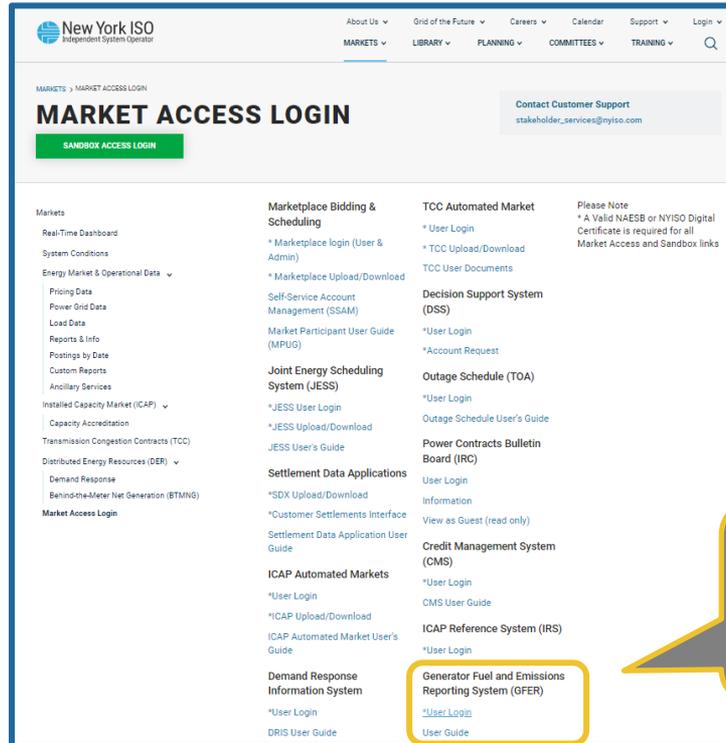
Megawatts (MW)
16,846
NY REAL-TIME LOAD

Wholesale Cost/MWh
\$57.89
DAY AHEAD MARKET

Official NYISO Time (EDT)
7:37:57
SYSTEM CONDITIONS

Accessing GFER

■ NYISO Market Access Login



MARKET ACCESS LOGIN

[SANDBOX ACCESS LOGIN](#)

[Contact Customer Support](#)
stakeholder_services@nyiso.com

<p>Markets</p> <ul style="list-style-type: none"> Real-Time Dashboard System Conditions Energy Market & Operational Data <ul style="list-style-type: none"> Pricing Data Power Grid Data Load Data Reports & Info Postings by Date Custom Reports Ancillary Services Installed Capacity Market (ICAP) <ul style="list-style-type: none"> Capacity Accreditation Transmission Congestion Contracts (TCC) Distributed Energy Resources (DER) <ul style="list-style-type: none"> Demand Response Behind-the-Meter Net Generation (BTMNG) Market Access Login 	<p>Marketplace Bidding & Scheduling</p> <ul style="list-style-type: none"> * Marketplace login (User & Admin) * Marketplace Upload/Download Self-Service Account Management (SSAM) Market Participant User Guide (MPUG) <p>Joint Energy Scheduling System (JESS)</p> <ul style="list-style-type: none"> *JESS User Login *JESS Upload/Download JESS User's Guide <p>Settlement Data Applications</p> <ul style="list-style-type: none"> *SDX Upload/Download *Customer Settlements Interface Settlement Data Application User Guide <p>ICAP Automated Markets</p> <ul style="list-style-type: none"> *User Login *ICAP Upload/Download ICAP Automated Market User's Guide <p>Demand Response Information System</p> <ul style="list-style-type: none"> *User Login DRIS User Guide 	<p>TCC Automated Market</p> <ul style="list-style-type: none"> * User Login * TCC Upload/Download TCC User Documents <p>Decision Support System (DSS)</p> <ul style="list-style-type: none"> *User Login *Account Request <p>Outage Schedule (TOA)</p> <ul style="list-style-type: none"> *User Login Outage Schedule User's Guide <p>Power Contracts Bulletin Board (IRC)</p> <ul style="list-style-type: none"> User Login Information View as Guest (read only) <p>Credit Management System (CMS)</p> <ul style="list-style-type: none"> *User Login CMS User Guide <p>ICAP Reference System (IRS)</p> <ul style="list-style-type: none"> *User Login <p>Generator Fuel and Emissions Reporting System (GFER)</p> <ul style="list-style-type: none"> *User Login User Guide 	<p>Please Note</p> <ul style="list-style-type: none"> * A Valid NAESB or NYISO Digital Certificate is required for all Market Access and Sandbox links
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The link to log in to the GFER application is located beneath the 'Generator Fuel and Emissions Reporting System'

Accessing GFER

NYISO Generator Fuel and Emissions Reporting

Login

 New York ISO
Independent System Operator

[REST API](#)

Generator Fuel and Emissions Reporting

This application is supported using Mozilla Firefox, Google Chrome and Microsoft Edge browsers.

User Name

Password

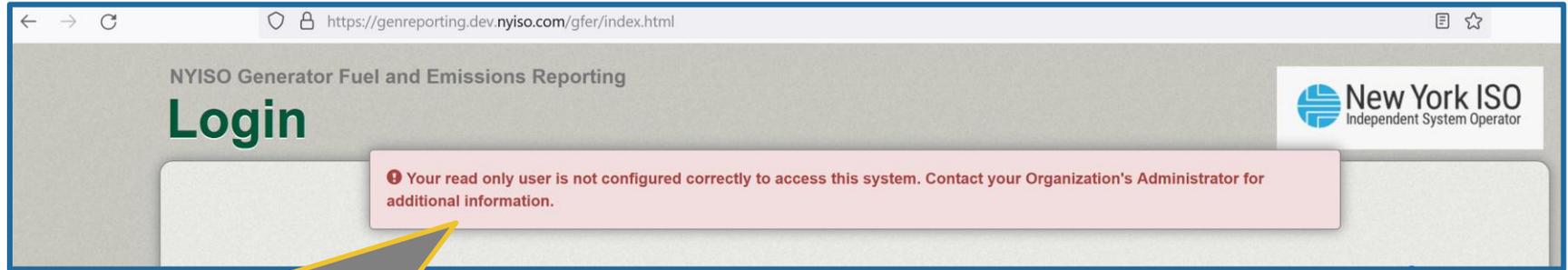
The NYISO's liability for damages to any Market Participant or other party that may result from its administration of the wholesale energy markets in New York is strictly limited under Section 12.3 of the NYISO Market Administration and Control Area Services Tariff to direct damages resulting from gross negligence or intentional misconduct.

Autocomplete and page caching functions are restricted in all websites in Market Information System. The NYISO is committed to provide a secure marketplace to all Market Participants.

Login

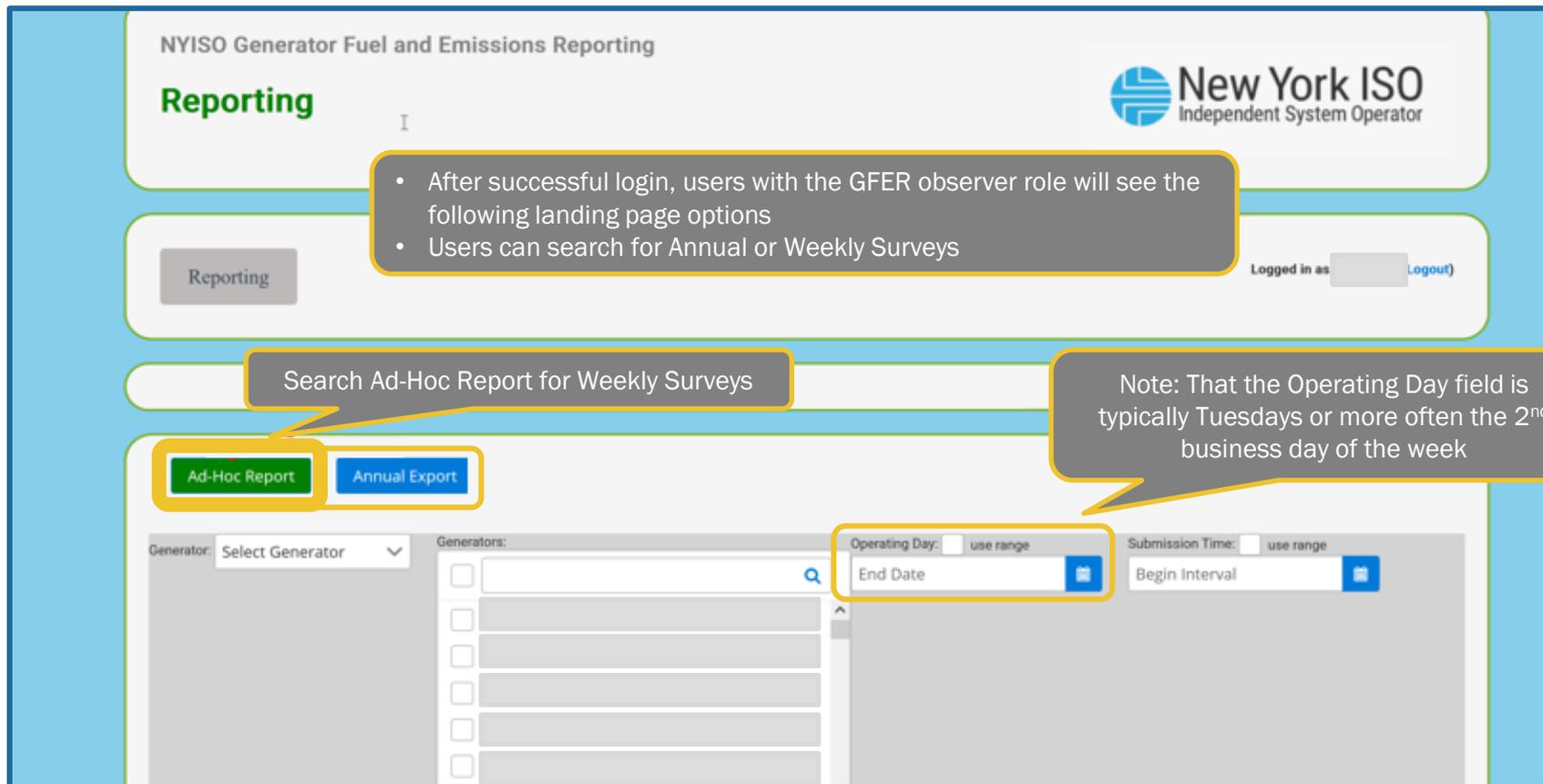
Enter your MIS username and password, then click 'Login'

Accessing GFER



If the user sees this error, they should contact their organization's admin user to ensure that their account does not have conflicting GFER roles

Weekly Survey



NYISO Generator Fuel and Emissions Reporting

Reporting

New York ISO
Independent System Operator

Reporting

Logged in as [username] (Logout)

- After successful login, users with the GFER observer role will see the following landing page options
- Users can search for Annual or Weekly Surveys

Search Ad-Hoc Report for Weekly Surveys

Ad-Hoc Report Annual Export

Generator: Select Generator

Generators:

Operating Day: [] use range

End Date []

Submission Time: [] use range

Begin Interval []

Note: That the Operating Day field is typically Tuesdays or more often the 2nd business day of the week

Weekly Survey

NYISO Generator Fuel and Emissions Reporting

Reporting

 New York ISO
Independent System Operator

Reporting

Logged in as: (Logout)

Ad-Hoc Report

Annual Report

User can select only one of the filtering control between Generator and Generators

Generator:

Generators:

Operating Day: use range
09/26/2022

Operating Day is a required field

Other Restrictions Applicable:

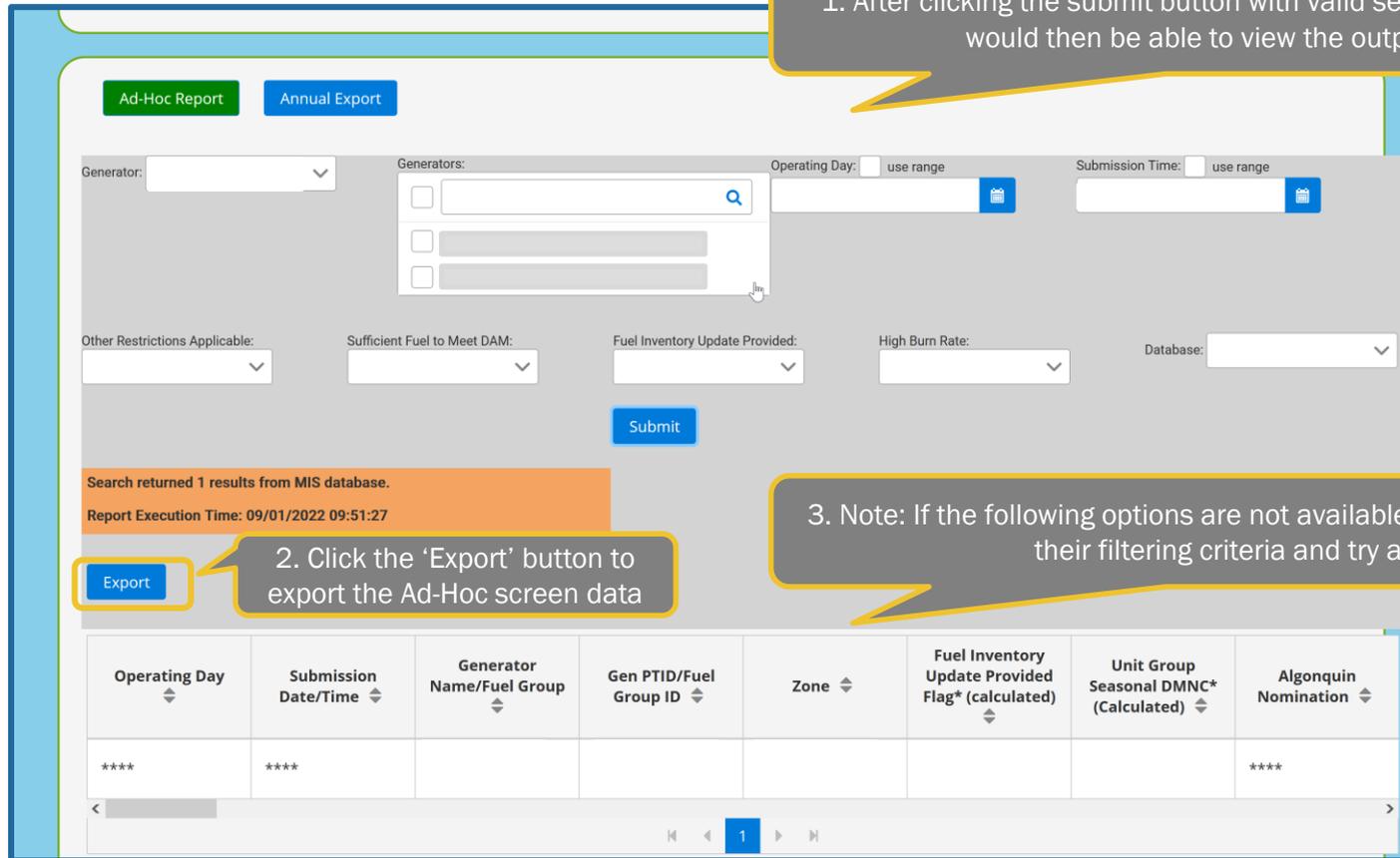
Sufficient Fuel to Meet DAM:

Fuel Inventory Update Provided:

Once all required and/or desired search fields are completed, select 'Submit' to render results

Submit

Weekly Survey



The screenshot shows the 'Weekly Survey' application interface. At the top, there are two buttons: 'Ad-Hoc Report' (green) and 'Annual Export' (blue). Below these are search filters including 'Generator:' (dropdown), 'Generators:' (checkbox and search input), 'Operating Day:' (checkbox and range), and 'Submission Time:' (checkbox and range). Further down are 'Other Restrictions Applicable:', 'Sufficient Fuel to Meet DAM:', 'Fuel Inventory Update Provided:', 'High Burn Rate:', and 'Database:' (dropdown). A blue 'Submit' button is centered below these filters. An orange banner indicates 'Search returned 1 results from MIS database.' and 'Report Execution Time: 09/01/2022 09:51:27'. A blue 'Export' button is highlighted with a yellow box. Below the filters is a table with columns: 'Operating Day', 'Submission Date/Time', 'Generator Name/Fuel Group', 'Gen PTID/Fuel Group ID', 'Zone', 'Fuel Inventory Update Provided Flag* (calculated)', 'Unit Group Seasonal DMNC* (Calculated)', and 'Algonquin Nomination'. The table shows a single row with '****' in the first two columns and the last column. A pagination bar at the bottom shows '1' of 1 page.

1. After clicking the submit button with valid search criteria, the user would then be able to view the output screen

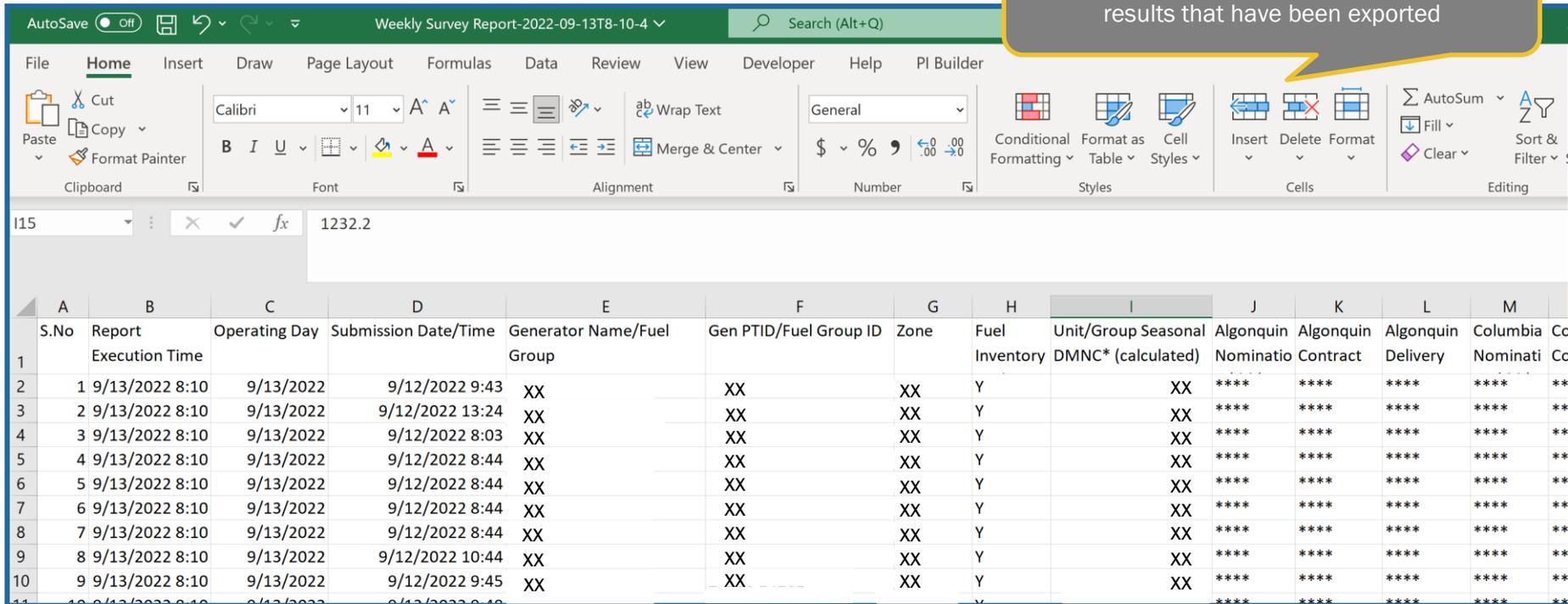
2. Click the 'Export' button to export the Ad-Hoc screen data

3. Note: If the following options are not available, users should change their filtering criteria and try again

Operating Day	Submission Date/Time	Generator Name/Fuel Group	Gen PTID/Fuel Group ID	Zone	Fuel Inventory Update Provided Flag* (calculated)	Unit Group Seasonal DMNC* (Calculated)	Algonquin Nomination
****	****						****

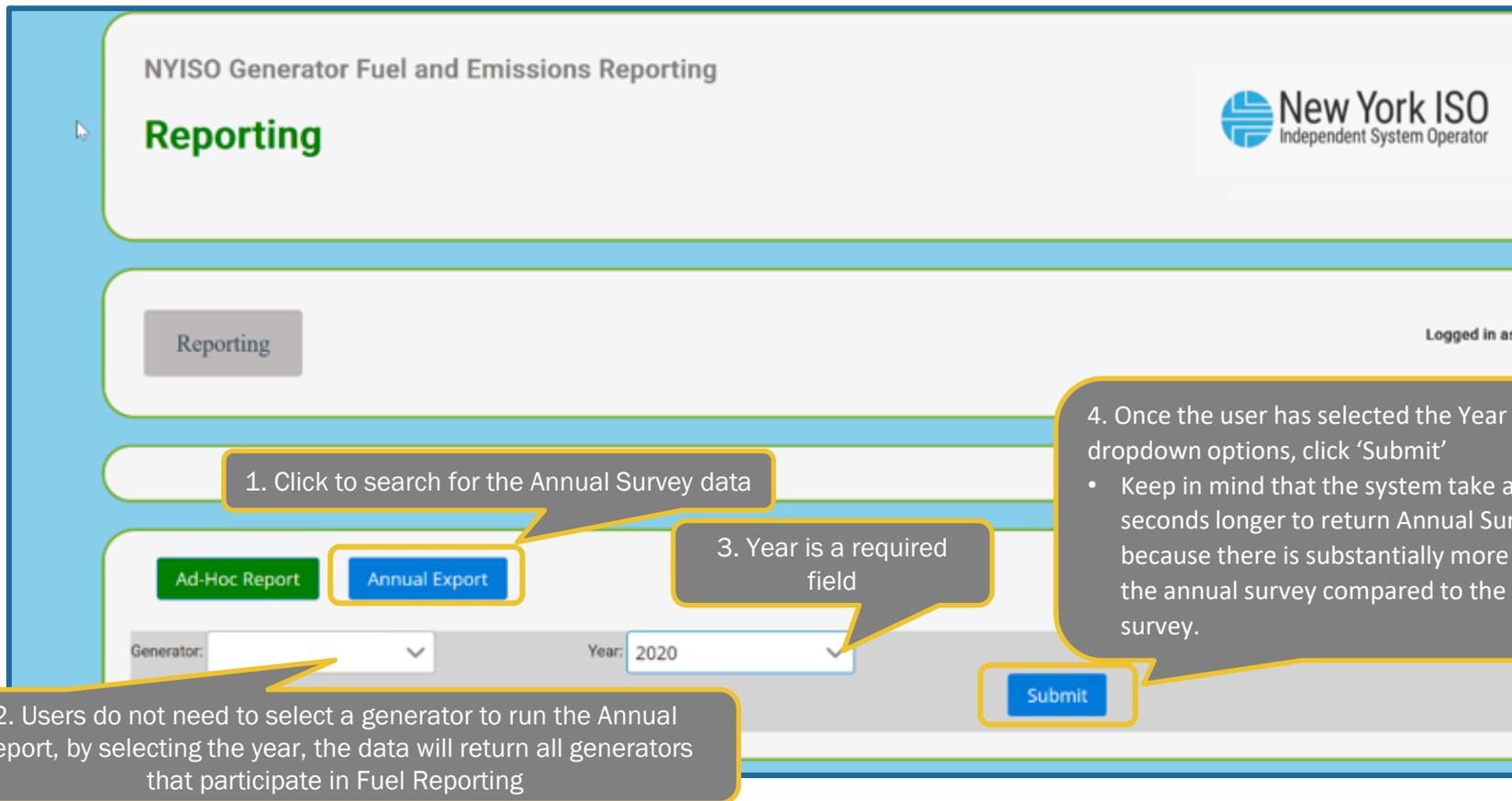
Weekly Survey - Example

This is an example of the Weekly Survey results that have been exported



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	S.No	Report Execution Time	Operating Day	Submission Date/Time	Generator Name/Fuel Group	Gen PTID/Fuel Group ID	Zone	Fuel	Unit/Group Seasonal Inventory DMNC* (calculated)	Algonquin Nominatio	Algonquin Contract	Algonquin Delivery	Columbia Nominati	Columbia Contract
1	1	9/13/2022 8:10	9/13/2022	9/12/2022 9:43	XX	XX	XX	Y	XX	****	****	****	****	****
2	2	9/13/2022 8:10	9/13/2022	9/12/2022 13:24	XX	XX	XX	Y	XX	****	****	****	****	****
3	3	9/13/2022 8:10	9/13/2022	9/12/2022 8:03	XX	XX	XX	Y	XX	****	****	****	****	****
4	4	9/13/2022 8:10	9/13/2022	9/12/2022 8:44	XX	XX	XX	Y	XX	****	****	****	****	****
5	5	9/13/2022 8:10	9/13/2022	9/12/2022 8:44	XX	XX	XX	Y	XX	****	****	****	****	****
6	6	9/13/2022 8:10	9/13/2022	9/12/2022 8:44	XX	XX	XX	Y	XX	****	****	****	****	****
7	7	9/13/2022 8:10	9/13/2022	9/12/2022 8:44	XX	XX	XX	Y	XX	****	****	****	****	****
8	8	9/13/2022 8:10	9/13/2022	9/12/2022 10:44	XX	XX	XX	Y	XX	****	****	****	****	****
9	9	9/13/2022 8:10	9/13/2022	9/12/2022 9:45	XX	XX	XX	Y	XX	****	****	****	****	****
10	10	9/13/2022 8:10	9/13/2022	9/12/2022 8:48	XX	XX	XX	Y	XX	****	****	****	****	****

Annual Survey



NYISO Generator Fuel and Emissions Reporting

Reporting

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Independent System Operator

Reporting

Logged in as:

1. Click to search for the Annual Survey data

2. Users do not need to select a generator to run the Annual Report, by selecting the year, the data will return all generators that participate in Fuel Reporting

3. Year is a required field

4. Once the user has selected the Year from the dropdown options, click 'Submit'

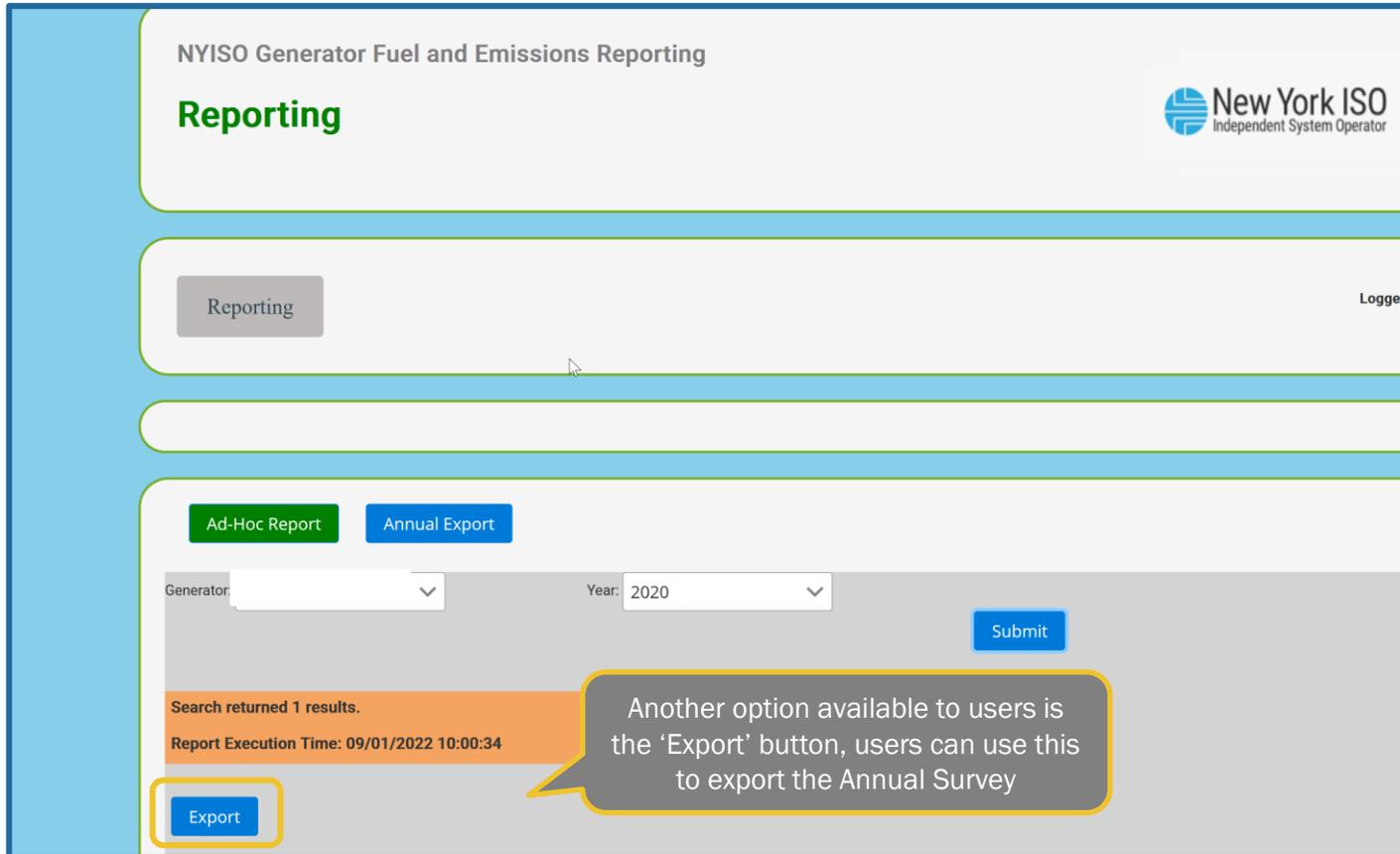
- Keep in mind that the system take a few seconds longer to return Annual Survey data because there is substantially more data in the annual survey compared to the weekly survey.

Ad-Hoc Report Annual Export

Generator: Year: 2020

Submit

Annual Survey



NYISO Generator Fuel and Emissions Reporting

Reporting

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Reporting Logged

Ad-Hoc Report Annual Export

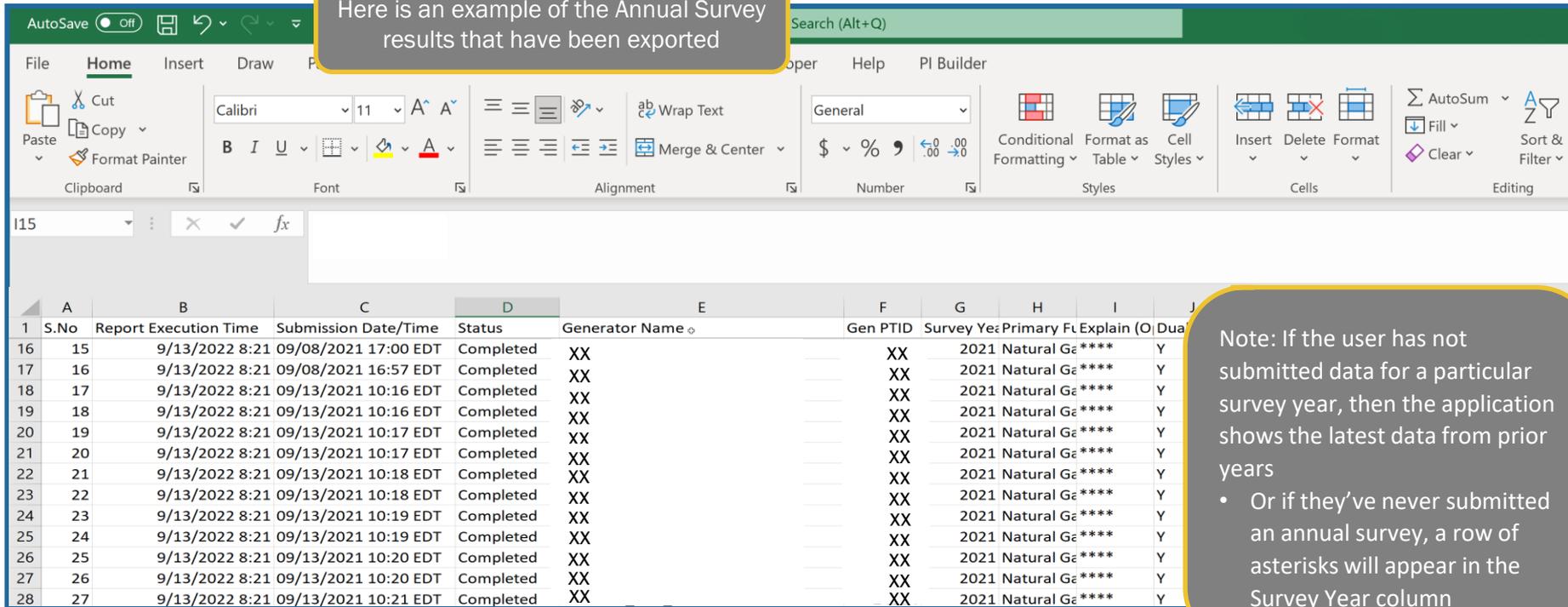
Generator: Year: 2020

Search returned 1 results.
Report Execution Time: 09/01/2022 10:00:34

Another option available to users is the 'Export' button, users can use this to export the Annual Survey

Annual Survey - Example

Here is an example of the Annual Survey results that have been exported



S.No	Report Execution Time	Submission Date/Time	Status	Generator Name	Gen PTID	Survey Year	Primary Fuel	Explain (Optional)
15	9/13/2022 8:21	09/08/2021 17:00 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
16	9/13/2022 8:21	09/08/2021 16:57 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
17	9/13/2022 8:21	09/13/2021 10:16 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
18	9/13/2022 8:21	09/13/2021 10:16 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
19	9/13/2022 8:21	09/13/2021 10:17 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
20	9/13/2022 8:21	09/13/2021 10:17 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
21	9/13/2022 8:21	09/13/2021 10:17 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
22	9/13/2022 8:21	09/13/2021 10:18 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
23	9/13/2022 8:21	09/13/2021 10:18 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
24	9/13/2022 8:21	09/13/2021 10:19 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
25	9/13/2022 8:21	09/13/2021 10:19 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
26	9/13/2022 8:21	09/13/2021 10:20 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
27	9/13/2022 8:21	09/13/2021 10:20 EDT	Completed	XX	XX	2021	Natural Gas	**** Y
28	9/13/2022 8:21	09/13/2021 10:21 EDT	Completed	XX	XX	2021	Natural Gas	**** Y

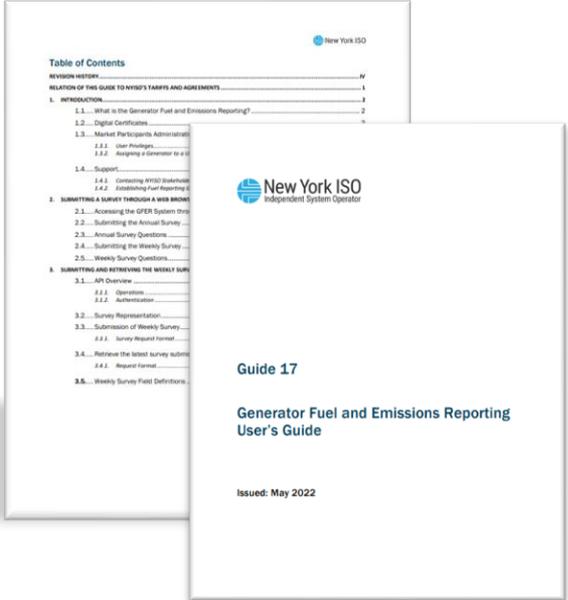
Note: If the user has not submitted data for a particular survey year, then the application shows the latest data from prior years

- Or if they've never submitted an annual survey, a row of asterisks will appear in the Survey Year column

Additional Resources

NYISO Supporting Documentation

- Generator Fuel and Emissions Reporting User's Guide
- Market Participant User's Guide
- NAESB Digital Certificate Tutorial



Questions?

For any future assistance, please contact NYISO Stakeholder Services at stakeholder_services@nyiso.com or by phone at (518) 356-6060