



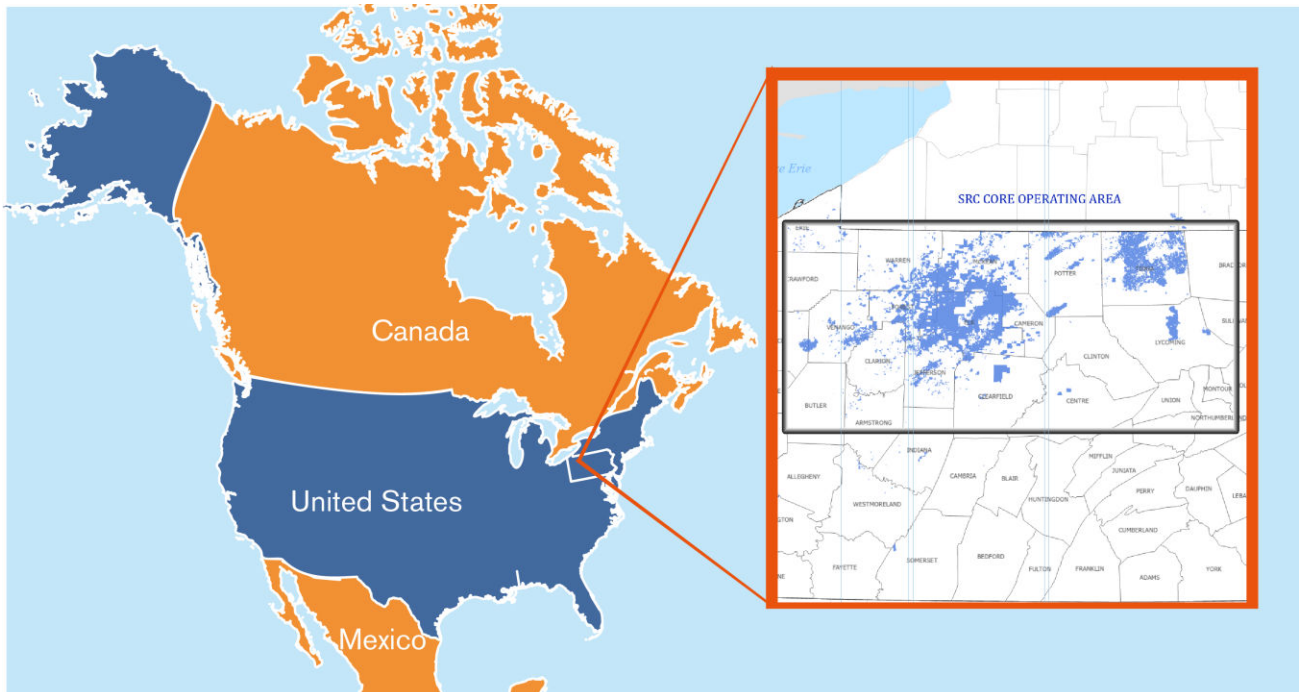
EQUITABLE  
ORIGIN  
CERTIFIED



 SENECA  
RESOURCES

## Site Overview

<b>Operator:</b>	Seneca Resources Company, LLC
<b>Certified Unit:</b>	Pennsylvania Operations
<b>Location:</b>	Pennsylvania, USA
<b>Area:</b>	1.2 million acres
<b>Segments of Supply Chain Covered:</b>	Production
<b>Production volume:</b>	Approximately 1 bcf/d dry natural gas
<b>Assessment Body:</b>	2021 Geosyntec Consultants Inc., 2022 Geosyntec Consultants Inc.



## Site Profile

Seneca Resources Company, LLC (Seneca Resources or Company) is an energy developer that produces natural gas in the Appalachian Region, including the Marcellus and Utica Shales. Seneca Resources' corporate headquarters are in Houston, Texas, and its parent company, National Fuel Gas Company (NYSE: NFG) (National Fuel), is headquartered in Williamsville, New York.

Seneca Resources is an exploration and production entity with operations located in the stacked rock formations of the Marcellus and Utica Shales. The Marcellus Shale has low permeability, so hydraulic fracturing enables Seneca Resources to create fractures in the shale to increase the flow of natural gas. Since 2007, Seneca Resources has collectively drilled and completed over 500 horizontal Marcellus and Utica wells. The Utica Shale is a hydrocarbon-bearing formation residing several thousand feet deeper than the Marcellus Shale. Generally, Seneca Resources reports well performance is stronger in the Utica than the Marcellus in the same area. This is due to the thickness of the reservoir and its higher reservoir pressure at a greater depth—more than 10,500 feet below the surface in the west and 12,000 feet in the east.

Seneca Resources operates approximately 1,000 deep, unconventional shale wells in Pennsylvania and controls more than one million net prospective acres in the Shale Fairway in Pennsylvania. The Company produces ~960 MMcf/day net Appalachian natural gas with gross production at ~1.2 Bcf/day.

### Stakeholders and Communities

Seneca Resources' key stakeholders' groups are identified as:

- Employees
- Government (local, state, and federal)
- Local communities
- Landowners
- Contractors, suppliers, and service providers
- Shareholders and capital providers

While the company does not conduct its operations on federally recognized Indigenous lands, Seneca Resources is aware of an Indigenous community just across the New York state border, the Seneca Nation of Indians (Seneca Nation), with whom it has had prior engagement.

## Certification Results

Seneca Resources' operation has met the requirements for certification of the properties operating in central Pennsylvania to the EO100™ Standard for Responsible Energy Development (2017) and the EO100™ Standard Addendum for Shale Oil and Gas Operations (2015).

The EO100™ Standard encompasses the following Principles:

1. Corporate Governance, Transparency & Ethics
2. Human Rights, Social Impact & Community Development
3. Indigenous People's Rights
4. Fair Labor & Working Conditions
5. Climate Change, Biodiversity & Environment

Seneca Resources remains committed to improving its implementation of the EO100™ Standard and engaged Equitable Origin-approved independent assessors, Geosyntec Consultants Inc., to conduct the re-verification assessment from September-November 2022.

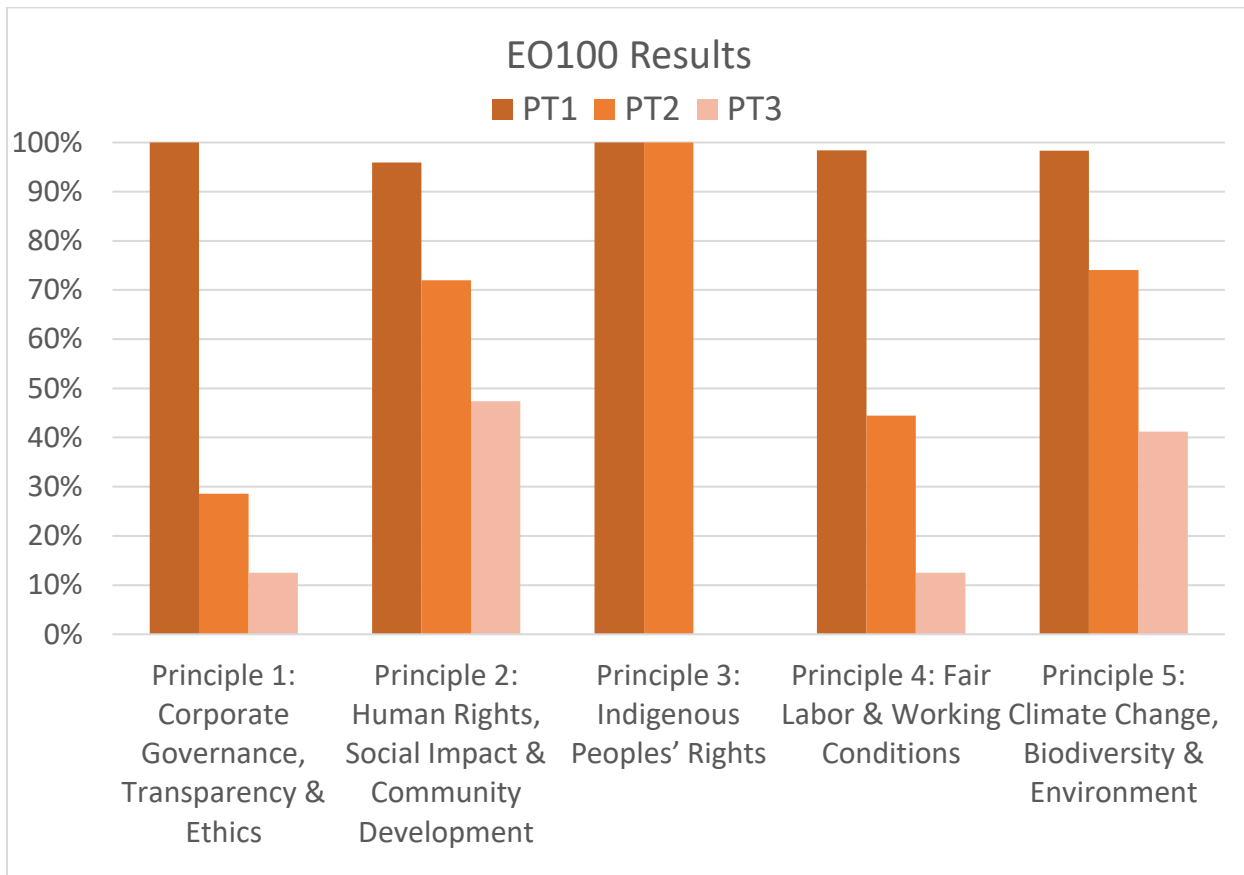
The assessment team's process included reverification activities that focused primarily on evaluating improvements made over the course of the year as part of the continuous improvement action plan. Additionally, the assessment team randomly selected level 1 performance targets which were checked to validate no regression in performance. Further, all level 2 and 3 targets were assessed, as applicable.

The assessment team found that Seneca Resources established a Continuous Improvement Plan (CIP) based on the 2021 EO100™ Assessment to level 1 Performance Targets. The CIP recommendations were assigned as actions to responsible owners at Seneca Resources, who documented resolution. Most of the actions have been resolved through document revision, development, and process improvements. Multiple targets that received full scores in 2021 were followed-up on and discussed during the interview process to reaffirm best practices.

Seneca Resources will be required to be assessed against the updated 2022 Technical Supplement for Onshore Natural Gas and Light Oil Production in 2023. As such, a number of additional Performance Targets will need to be added into their continuous improvement plan.

**Table 1: Summary Results by Principle**

Principle	2021 Certification Assessment	2022 Re-Verification Assessment
<b>1: Corporate Governance, Transparency &amp; Ethics</b>	91%	100%
<b>2: Human Rights, Social Impact &amp; Community Development</b>	86%	96%
<b>3: Indigenous Peoples' Rights</b>	50%	100%
<b>4: Fair Labor &amp; Working Conditions</b>	93%	98%
<b>5: Climate Change, Biodiversity &amp; Environment</b>	95%	98%



**Figure 1: EO100™ Certification Assessment Results**

## EO100™ Certification Summary

<b>Certificate Issuer:</b>	Equitable Origin, Inc.
<b>Operator:</b>	Seneca Resources Company
<b>Certified Unit:</b>	Pennsylvania Operations
<b>Location of Certified Unit:</b>	Pennsylvania, USA
<b>Certification date:</b>	20 December 2021
<b>Expiration date:</b>	20 December 2024
<b>Certification Standard:</b>	EO100™ Standard for Responsible Energy Development (2017) and the EO100™ Standard Addendum for Shale Oil and Gas Operations (2015)
<b>Assessment Body:</b>	2021 Geosyntec Consultants Inc., 2022 Geosyntec Consultants Inc.
<b>Certificate Number:</b>	EO100-20122021-US

---

The purpose of this report is to document the EO100™ Certification and annual re-verification assessments conducted for Seneca’s natural gas operations in Pennsylvania. The assessment scope included Seneca’s Pennsylvania Operations, which was treated as one Certifiable Unit, and included wells in various stages: drilling, completions, production, and abandoned as well as salt-water disposal wells and associated infrastructure. Assessment activities were carried out in September-November 2021 and re-verification assessment activities carried out in September-November 2022. All supporting assessment documents will remain confidential.

### Contact Information:

Seneca Resources: [BoulwareR@srcx.com](mailto:BoulwareR@srcx.com)

If organizations or individuals have concerns, complaints, or comments about the operator’s EO100™ Certification, they should first contact the Certified Operator directly: 412-548-2572.

Equitable Origin: [contact@equitableorigin.org](mailto:contact@equitableorigin.org)

For more information on Equitable Origin’s Certification System Comments, Complaints and Appeals processes, please visit our website: [www.energystandards.org](http://www.energystandards.org).