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ORIGIN  
CERTIFIED



 **SENECA**  
RESOURCES®

## Site Overview

<b>Certificate Issuer:</b>	<a href="#">Equitable Origin, Inc.</a>
<b>Certificate Number:</b>	<b>EO100-20122024-US</b>
<b>Operator:</b>	<a href="#">Seneca Resources Company, LLC</a>
<b>Certifiable Unit Name:</b>	<b><i>Pennsylvania Operations</i></b>
<b>Certification Standard:</b>	EO100™ Standard for Responsible Energy Development (2017) and the EO100™ Technical Supplement: Onshore Natural Gas and Light Oil Production (2022)
<b>Location of Certified Unit:</b>	Elk, Cameron, McKean, Tioga and Lycoming counties, Pennsylvania, USA
<b>Area:</b>	1.2 million acres
<b>Production Volume:</b>	~1 bcf/d dry natural gas
<b>Number of Employees:</b>	~275
<b>Production Phase:</b>	Active production
<b>Re-Certification Date:</b>	20 December 2024
<b>Re-Verification Date:</b>	20 December 2025
<b>Expiration Date:</b>	19 December 2027
<b>Assessment Period:</b>	October to November 2024
<b>Assessment Body:</b>	<a href="#">Sustrio Advisors</a>

## ABOUT THIS REPORT

The purpose of this report is to publicly document the EO100™ Certification assessment conducted of Seneca Resources Company, LLC (Seneca Resources) natural gas operations in Elk, Cameron, McKean, Tioga and Lycoming counties, Pennsylvania, USA. The assessment scope covered Seneca Resources' *Pennsylvania Operations*, detailed below, which were treated as one Certifiable Unit.

The EO100™ Standard for Responsible Energy Development is a set of rigorous performance standards for energy development projects. Developed through an extensive multi-year, and multi-stakeholder [engagement process](#), the EO100™ Standard is the product of extensive consultation with over 1,000 representatives from the energy industry, international NGOs, Indigenous Rightsholders, financial institutions, government officials, and communities affected by energy projects. The Standard establishes metrics and performance targets that aim to objectively and independently evaluate environmental, social and governance (ESG) impacts of energy development projects. The EO100™ Standard includes a Technical Supplement for Natural Gas and Light Oil Production that was originally released in 2017 and updated in 2022.

In selecting the management obligations, metrics and performance targets to represent under these Principles, the EO100™ Standard synthesizes leading international and sectoral Environmental, Social and Governance Performance standards, initiatives and reporting frameworks, including: international human rights standards and conventions (Universal Declaration of Human Rights and the UN Guiding Principles on Business and Human Rights), IFC Performance Standards, Global Reporting Initiative, ISO 26000, AA1000 Assurance Standard, ISO 14001, ISO 45001, Oil and Gas Methane Partnership, the Task Force on Climate Related Financial Disclosure, and the Extractives Industries Transparency Initiative. These global and sectoral good practice benchmarks are selected and codified as specific and auditable indicators, with the guidance of a multi-stakeholder expert Advisory Committee. Standards are reviewed periodically to remain consistent with evolving guidelines, benchmarks and expectations.

A total of over 500 metrics are incorporated in the EO100™ Standard and associated project-related Supplement that are grouped under the following Principles:

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



The EO100™ Standard allocates over 500 of these metrics across three successive levels of Performance Targets (PTs):

- PT1 targets “meet” global or sectoral “good practice” benchmarks;
- PT2 targets “exceed” or go beyond these benchmarks in terms of transparency, management or stringency, or operational performance;
- PT3 targets represent “leadership” and achievement of sector best practices in this area of management or operational performance.

Scoring of an Energy Development Project against the EO100™ Standard and relevant Supplements is undertaken annually by an expert Assessment Body based on representative sampling of a cross section of observation points following documented procedures and international assurance good practice, including periodic site visits and interviews. The Assessor is required to substantiate their recommended scoring based on evidence provided by the Operator, and on their observations gathered onsite, through interviews and document review. The Assessment Body’s findings are subject to expert peer review and periodic Witness Assessment by EO, to ensure consistency of interpretation across sites and assessors.

Participating Producers must at least partially meet all applicable ~270 PT1 targets to achieve certification under the Standard, score a minimum of 70% overall, and commit to fully meet all applicable PT1s by the end of the first 3-year certification cycle. Additional points are awarded for achieving PT2s and PT3s, which indicate that the producer has gone beyond industry good practice to demonstrate leadership and innovation.

Established in 2009, Equitable Origin is a non-profit 501(c)3 charity based in the US that partners with business, communities and government to incent and reward more transparent, equitable, and sustainable development of energy resources through standards and certification. Our mission is to protect people and the environment by ensuring that energy development is conducted under the highest social and environmental standards.

**Read more about our Standards here:**

<https://energystandards.org/responsible-energy-development/>

## Site Profile

Seneca Resources corporate headquarters are in Houston, Texas, and its parent company, National Fuel Gas Company, is headquartered in Williamsville, New York. In 2021, Seneca Resources first achieved certification of its *Pennsylvania Operations*, in Pennsylvania under the EO100™ Standard for Responsible Energy Development (2017) and the EO100™ Technical Supplement: Onshore Natural Gas and Light Oil Production (2022).

Seneca Resources is an energy developer that produces natural gas at its operations in the Appalachian Region of the United States. The company is an exploration and production entity with operations located in the stacked rock formations of the Marcellus and Utica Shales.



The *Pennsylvania Operations* includes all facilities owned and operated by Seneca Resources in northwestern and central Pennsylvania, known as their East Division. The *Pennsylvania Operations* include their Marcellus and Utica development in Elk, Cameron, and McKean counties in the western portion of its Pennsylvania acreage, and Tioga and Lycoming counties in the eastern portion.

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. Seneca Resources' proven developed and undeveloped natural gas reserves were



reported at 4,535 Bcf in 2023. The Company produces ~1 Bcf/day net Appalachian natural gas with gross production at ~1.2 Bcf/day.

The *Pennsylvania Operations* includes all facilities owned and operated by Seneca Resources in their Marcellus and Utica development and includes an estimated: i) 350 well pads; ii) 13 water storage/treatment/injection facilities; iii) 26 impoundments; iv) ~100 other facilities (i.e., seven M&R facilities/interconnects/meter stations, two staging areas, 64 communications towers, 21 water withdrawal points/groundwater wells, over 180 miles of produced fluid and freshwater lines, and four compressor stations); and v) four field offices.

## **Stakeholders and Communities**

In the course of operating this Certified Unit, Seneca Resources engages with:

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

Principle 3, Indigenous Peoples' Rights, was evaluated by the Assessor as having limited applicability to this particular assessment . Additional details on this finding are detailed below.

The Assessors find that while Seneca Resources does not conduct its operations on federally recognized Indigenous lands, Seneca Resources is aware of the proximity of one Indigenous community across the New York state border, the Seneca Nation of Indians (Seneca Nation), with whom it has had prior engagements. Equitable Origin-approved independent assessors, Sustrio Advisors, reviewed Seneca Resources' past engagement activities and related ongoing monitoring for the purpose of this assessment report.

## Document Review and Stakeholder Interviews

Seneca Resources engaged Equitable Origin-approved independent assessors, Sustrio Advisors, to conduct its recertification assessment in October to November 2024.

To assess conformance of the Certifiable Unit to the associated performance obligations, the Assessment Team focused on assessing improvements that were to be made in conformance with Seneca Resources' Continuous Improvement Plan that was a condition of initial certification. Additionally, selected performance targets were checked to ensure no regression in performance occurred. Where warranted, areas of sector outperformance (Performance Target at Level 2), and sector leadership (Performance Target at Level 3) were verified.

Specific verification activities undertaken as part of this assessment included review of Seneca Resources' policies and procedures, visits to pre-selected and randomly selected operations, and interviews with workers, contractors, and management. The assessment team also met various external stakeholders from state regulatory agencies, local government officials, emergency response, and community organizations.

As part of this work, Sustrio Advisors' process included document review and discussion with Seneca Resources' personnel, interviews, field assessment and report preparation conducted over an approximate six-week period. The Assessors spent 3 days performing field assessments, 8 days performing desk review, reviewed 250 documents, and conducted more than 18 interviews with internal and external stakeholders.

All supporting assessment documents are confidential.

## Certification Results

Based on the information obtained, Sustrio Advisors finds that Seneca Resources' *Pennsylvania Operations* have met the requirements for recertification under the EO100™ Standard for Responsible Energy Development (2017) and the EO100™ Technical Supplement for Onshore Natural Gas and Light Oil Production (2022).

This recertification assessment concludes that Seneca Resources has succeeded in meeting or partially meeting all the applicable Level 1 Performance Targets (See Table 1). It finds that the company continues to perform in accordance with the Standard and has made improvements in scores across Performance Targets Levels, especially at levels 2 and 3 where it was found that Seneca Resources exceeds or leads.

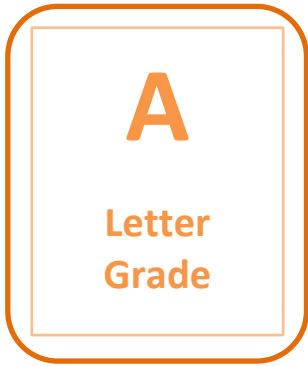
The assessment concluded that Seneca has reached Performance Target levels 2 or 3 across several Objectives including: Disclosure, Ethics, Management Systems, Contractors, Human Rights, Stakeholder Engagement, Sustainable Community Investment, Cultural Impacts, Health and Safety, Greenhouse Gas Emissions, Biodiversity, Air, Water, and Land Restoration.

Seneca Resources has been provided with a list of the remaining gaps identified during this recertification for incorporation into the Continuous Improvement planning process initiated following the first year's certification assessment.

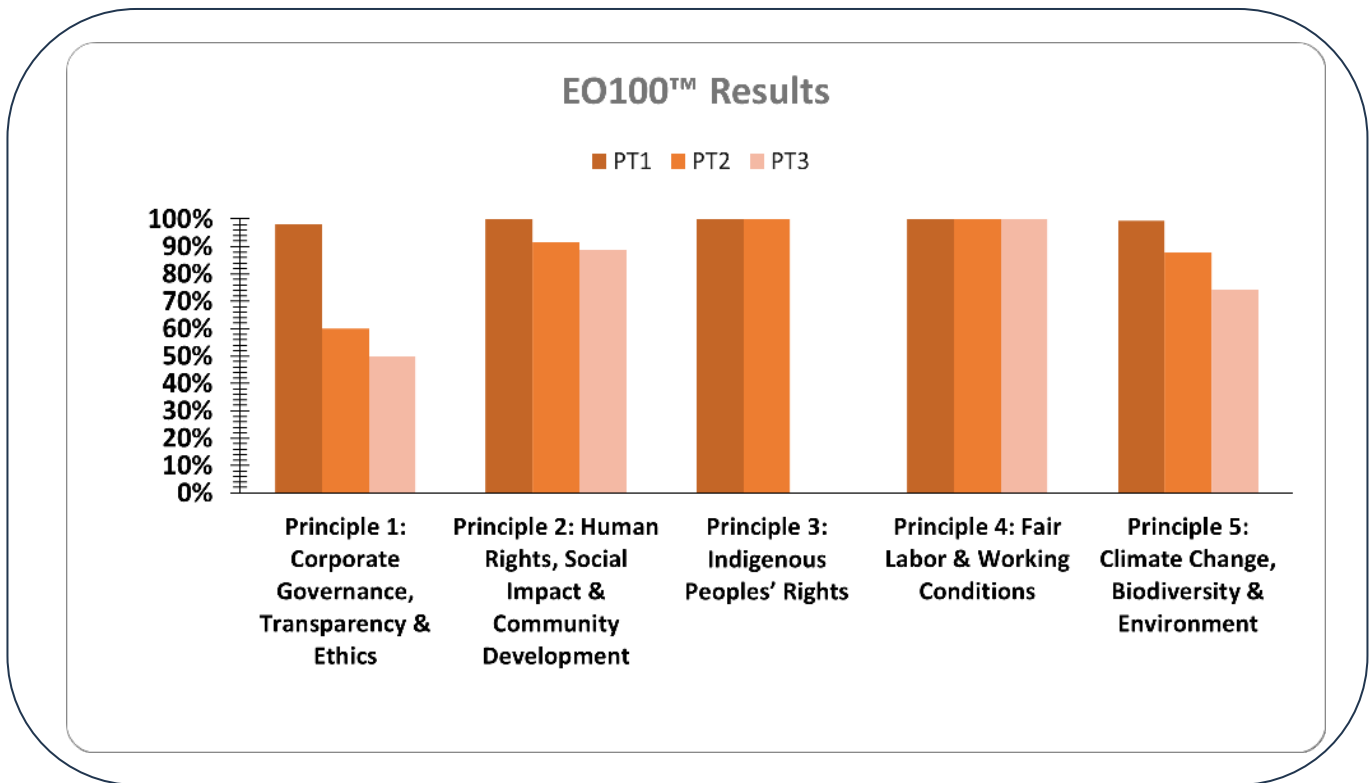
Table 1 below shows the results summarized by Principle for each Performance Target level.



**Table 1: Summary Results by Principle**



Principle	2024 Re-Certification Assessment
<b>1: Corporate Governance, Transparency &amp; Ethics</b>	98%
<b>2: Human Rights, Social Impact &amp; Community Development</b>	100%
<b>3: Indigenous Peoples’ Rights</b>	100%
<b>4: Fair Labor &amp; Working Conditions</b>	100%
<b>5: Climate Change, Biodiversity &amp; Environment</b>	99%



**Figure 1: EO100™ 2024 Re-Certification Assessment Results**

## EO100™ Certificate



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**A**  
Letter Grade

# Certificate

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Jason Switzer  
CEO, Equitable Origin

### Contact Information:

Seneca Resources: Kathy Bandyck - [BandyckK@srcx.com](mailto:BandyckK@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: 412-548-2584.

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).