

RELIABILITY IS CRITICAL TO PRAGMATICALLY ACHIEVE A LOW CARBON ENERGY SYSTEM

Central Hudson Gas & Electric, as a founding member of the Council of Industry when it was formed in 1910, has long been a supporter of our local manufacturing sector. At that time the nation was about 30 years into a transformation with the advent of electric power generation. In 1884, Thomas Edison built the Montgomery Street Station, one of the world's earliest central electric generators, in Newburgh. Today, Central Hudson still maintains an electric substation at this location. So much has changed since then but what was true in 1910 remains true today; that our customers, including local manufacturing companies, require reliable, affordable energy each and every day. This is especially true for our region's industrial and manufacturing sector that continues to play an integral role in the regional economy.

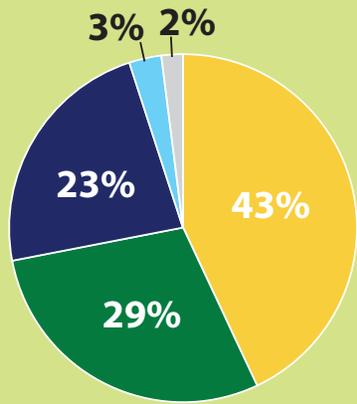
New York State is, once again, in the midst of one of the most ambitious energy transitions in the country. The 2019 landmark law, the Climate Leadership and Community Protection Act (CLCPA) calls for dramatic reductions in greenhouse gas emissions through a variety of policy measures. Among them is providing 70 percent of the state's electric needs through renewable resources by 2030; and producing zero emission electric generation by 2040. The law also specifies the technologies to be used, with established levels required for solar and wind generating capacities as well as battery storage.

Central Hudson supports a pragmatic approach toward achieving a low-carbon energy system and is making substantial investments in the local energy infrastructure to facilitate renewable resources, enhance system efficiency and improve storm resilience.

One of the reasons businesses choose to call the Hudson Valley home is because of the abundant and reliable energy resources available to them. As we've seen, the absence of reliable power can have devastating effects. Recent events in California and Texas have demonstrated what can happen when our energy system is unable to meet the needs and

Zero-Emission Electric Sector Targets





2020 Production GWh

■ Fossil Fuels	56,425
■ Nuclear *	38,437
■ Hydro	29,521
■ Wind	4,162
■ Other	2,281

**The closure of the Indian Point Energy Center in April 2021 will further reduce the amount of nuclear energy production.*

demands of its customers, from a loss of commerce to, more importantly, loss of life.

The need for reliable service will only increase as more and more elements of daily life are electrified. New York State's goals require moving substantial portions of our transportation and building heating systems, which together contribute nearly 70 percent of the greenhouse gas emissions in New York State, to be powered by electricity. This evolution will require significant investment by electric utilities in the electric grid and by consumers and businesses in new end use equipment.

Renewable sources like solar and wind are clean, but intermittent, dependent on sunlight and wind. Today's battery storage systems offer only several hours of power, and then must be recharged. In other words, there is a gap between today's technology and their ability to meet environmental goals while ensuring continuous, reliable power.

In order to bridge this gap, it is imperative that policymakers keep an open mind to emerging technologies and resources while avoiding the pitfalls of selecting an overly prescriptive approach. Already we are seeing promising advances in the use of hydrogen and renewable natural gas. Starting next year, the Cricket Valley Energy Center in Dover Plains will begin a pilot test of blending hydrogen with natural gas for the purposes of power generation. In many cases, these zero greenhouse gas emitting resources can be transported through the existing natural gas pipeline system, significantly reducing the financial impact of an energy transition by leveraging existing infrastructure.



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New York State Clean Energy Initiatives

Costs to Electric Customers 2006-2025

Program	State	Central Hudson
Zero Emissions Credits	\$4,920,270,000	\$88,142,000
Renewable Energy Credits	\$1,542,723,000	\$29,100,000
System Benefits Charge*	\$1,220,718,000	\$48,984,000
Renewable Portfolio Standard*	\$1,540,669,000	\$79,622,000
Energy Efficiency Portfolio*	\$1,979,636,000	\$102,813,000
Clean Energy Fund	\$3,404,506,000	\$185,486,000
NY-Sun	\$943,773,000	\$51,419,000
NY Green Bank	\$742,190,000	\$40,436,000
Utility Energy Efficiency	\$3,904,963,000	\$124,525,000
Net Metering	\$1,038,592,000	\$101,500,000
Community Distributed Generation	\$410,858,000	\$56,892,000
Heat Pumps	\$454,318,000	\$43,221,000
Electric Vehicle Make Ready	\$700,995,000	\$30,330,000
Integrated Energy Data Resource	\$71,500,000	\$14,793,000
Offshore Wind	**	**
Energy Storage	pending	pending
Total	\$22,875,711,000	\$997,263,000

* Previously authorized amounts for these programs for years 2016 and forward were reallocated to the Clean Energy Fund, NY-Sun and NY Green Bank with the establishment of the Clean Energy Fund Framework in January 2016.

** Current administrative budget is \$14.2 million funded from uncommitted Renewable Portfolio Standard funds and bid fees.

In addition to reliable service, it is critically important that we successfully reduce emissions at the lowest-possible cost to our customers. Within Central Hudson's service territory, energy efficiency programs offer the most cost-effective way to reduce energy use and greenhouse gas emissions, with an annualized cost of approximately \$0.01-\$0.02 per kWh. This makes energy efficiency programs 80-90 percent less costly than renewable energy.

Central Hudson offers incentives on a variety of energy efficient equipment for commercial and industrial customers. Programs provide incentives and rebates toward energy efficient interior and exterior lighting, heating and cooling equipment, kitchen equipment, building controls and custom measures that allow for more unique equipment to be considered. Central Hudson's energy efficiency incentives are designed to help end users afford to upgrade their old or failing equipment to high-efficient, energy saving technologies.

WALDEN ANNOUNCES ACQUISITION

Walden Environmental Engineering (Walden), a best-in-class provider of civil and environmental engineering services headquartered in Oyster Bay, LI, [announced](#) that it has purchased Turnkey Compliance Solutions (Turnkey). Turnkey is a CT based company known for their expertise in providing Environmental, Health, and Safety (EHS) consulting services for industrial/manufacturing organizations nationwide.

Joseph Heaney, President of Walden. "The combination of Walden and Turnkey creates a synergy that will allow us to offer our clients expanded but complementary services and expertise."



For more information about Walden, Turnkey, or this acquisition, contact us today.

516.624.7200
waldenenvironmentalengineering.com

About Walden Environmental Engineering

Founded in 1995, Walden is dedicated to working with clients to develop compliant, cost-effective solutions to their unique challenges. Responsiveness, a collaborative approach, and expanding technical expertise are at the core of what we do.

About Turnkey Compliance Solutions

Turnkey is the EHS compliance partner for organizations needing to outsource those critical functions or supplement their existing teams. Expertise includes training; compliance auditing and site assessments; hazardous materials management; and coordinating with regulatory agencies.

Initiatives like our energy efficient programs are funded by New York's utility customers. In fact, customers are financially supporting all of the programs linked to achieving the state's clean energy goals.

Hudson million, or 10 percent average bill, New clean



In 2020 alone, Central Hudson customers paid \$69 approximately of the residential toward New York's energy

Of this, Hudson's and industrial contributed more. These costs are only

expected to grow as utility-scale offshore wind and other projects begin development.

Just as the introduction of electric power generation revolutionized the way we live and work, this next transition is likely to be transformational as well. Central Hudson believes

renewable energy sources will play major and critical roles during this energy transition. We also believe an approach that encourages energy efficiency programs coupled with the use of multiple, diverse and complementary solutions that allows for evolving technology provides the best pathway toward the ambitious targets outlined in the CLCPA. Central Hudson recognizes the need to transition to a low emissions energy system as quickly as possible, but we must also do so in a way that protects the environment while providing the businesses and industries that have powered New York's economy the opportunity to thrive.

For more information and to view Central Hudson's report *Powering the Path to a Cleaner Future*, visit www.CentralHudson.com/my-energy/our-energy-future/powering-the-path/; for more information on energy efficiency programs that can help lower utility bills and reduce greenhouse gas emissions, visit <https://www.cenhud.com/my-energy/save-energy-money/>



*Anthony S. Campagiorni,
Vice President, Customer Services
& Gas Operations for Central Hudson
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The Council of Industry
The Manufacturers Association of the Hudson Valley

WHO WE ARE
The Council of Industry is a not-for-profit organization, our mission has been to promote the success of member firms and their employees.

WHAT WE DO

- Workforce Development
- Advocating for Industry
- Training & Development
- Networking & Events
- Member Discounts

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To find out more about how we can help you, visit: councilofindustry.org/aboutus or contact us at: **845-565-1355**

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