



SDG7 Energy Compact of Finger Lakes – City of Ithaca and Town of Ithaca

A next Decade Action Agenda to advance SDG7 on sustainable energy for all, in line with the goals of the Paris Agreement on Climate Change

SECTION 1: AMBITION

1.1. Ambitions to achieve SDG7 by 2030. [Please select all that apply, and make sure to state the baseline of each target]

(Member States targets could be based on their NDCs, energy policies, national five-year plans etc. targets for companies/organizations could be based on their corporate strategy)

<input checked="" type="checkbox"/> 7.1. By 2030, ensure universal access to affordable, reliable and modern energy services.	<p>(City and Town of Ithaca)</p> <p>Target: Increase access to affordable renewable energy to all members of the community through equity-driven community choice aggregation and financial inclusion programs designed to facilitate access to finance for the deployment of renewable energy options.</p> <p>Time frame: 2021-2030</p> <p>Context for the ambition(s): Today, approximately 95% of the community relies on natural gas, propane or fuel oil for space heating, water heating and cooking, and in some cases also for electricity. This includes both urban and rural communities, each facing its own economic challenges. This target and associated actions were defined as part of the City and Town of Ithaca Green New Deal and Net-Zero 2030 strategy.</p>
<input checked="" type="checkbox"/> 7.1. By 2030, ensure universal access to affordable, reliable and modern energy services.	<p>(Cornell University)</p> <p>Target: Harness our campus and shared region as a living laboratory to explore innovative transformation of energy systems.</p> <p>Time frame: Ongoing through 2030 and beyond.</p> <p>Context for the ambition(s): Sustainability scholarship embodies the belief that human thriving requires social systems, economic systems, and biodiverse ecosystems that equitably serve humanity now and in the future. It is committed to the idea that satisfying the needs of humans today should not come at the expense of satisfying the needs of future human generations. Cornell's campus is where our core educational mission and sustainability values converge to support this idea. The campus and our shared Compact region will be employed as a living laboratory - using the campus and region as a testbed for innovative solutions and applying cutting edge research as proof of concept - where faculty, researchers, students and staff can create, test and implement a variety of sustainability solutions that advance the transformation of local and global energy systems to meet the UN SDG7. These research inquiries serve as opportunities for education and engagement on a scale that demonstrates if and how research innovations can be deployed for the benefit of the region, the nation or the world.</p>
<input checked="" type="checkbox"/> 7.2. By 2030, increase substantially the share of renewable energy in the global energy mix.	<p>(City and Town of Ithaca)</p>

	<p>Target(s): Achieve full decarbonization of the City's and Town's energy mix by increasing the use of renewable energy.</p> <p>Time frame: 2021 - 2030</p> <p>Context for the ambition(s): Today, approximately 45% of the City's and Town's electricity is produced with carbon-free energy sources, and the penetration of solar PV systems is below 1% of the total energy use, while natural gas remains an important source of energy and the only way of guaranteeing firm capacity. This target and associated actions were defined as part of the City and Town of Ithaca Green New Deal and Net-Zero 2030 strategy.</p>
<p><input checked="" type="checkbox"/> 7.2. By 2030, increase substantially the share of renewable energy in the global energy mix.</p>	<p>(Cornell University)</p> <p>Target: Leadership and Innovation in Renewable Energy.</p> <p>Time frame: Ongoing through 2030 and beyond.</p> <p>Context for the ambition(s): Cornell is striving to maintain and expand renewable energy generation assets for its city-scale Ithaca, New York campus in a manner that informs and demonstrates replicable business models, enabling policies, and breakthrough technologies to provide at least 20% renewable electricity by 2023, and 100% renewable energy by 2035.</p>
<p><input checked="" type="checkbox"/> 7.3. By 2030, double the global rate of improvement in energy efficiency.</p>	<p>(City and Town of Ithaca)</p> <p>Target(s): Maximize energy efficiency in all residential and non-residential buildings through a mass energy efficiency retrofitting and electrification program, including the substitution of fossil fuel-based space and water heating systems, cooktops and clothes dryers, and the installation of grid interactive technologies, advanced control systems and demand response.</p> <p>Time frame: 2021-2030</p> <p>Context for the ambition(s): The penetration of smart thermostats and smart meters is below 1%. The building stock is in average 40 years old, with only 5% having had major renovation or retrofits in the last 20 years. The cost of retrofitting or replacing natural gas or propane appliances tend to be too high for low- and moderate-income groups. The main barrier is financial.</p>
<p><input checked="" type="checkbox"/> 7.3. By 2030, double the global rate of improvement in energy efficiency.</p>	<p>(Cornell University)</p> <p>Target: Reduce carbon emissions from campus building energy use through the implementation of a replicable energy conservation initiative for existing buildings demonstrating the value of efficiency investments.</p> <p>Time frame: Ongoing through 2030 and beyond.</p> <p>Context for the ambition(s): Cornell's Ithaca campus includes more at 14 million GSF connected to its district energy systems for heat, cooling and electricity. The Energy Conservation Initiative reduces campus-wide energy consumption and helps the campus meet the goal of carbon neutrality by 2035 by targeted efficiency projects and continuous commissioning of building HVAC systems.</p> <p>The advancement of deep energy efficiency approaches to higher education operational management remains a promising area for resource and solution exchange across Member States and peer institutions. Cornell can demonstrate the return on investment, financial mechanisms necessary, and carbon and financial savings realized to incentivize energy efficiency investment across the community and higher education landscape for existing buildings. Furthermore, deep energy efficiency</p>

	investments are needed to reach regional goals for carbon neutrality and renewable energy advancement.
<input type="checkbox"/> 7.a. By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology.	Target(s): Time frame: Context for the ambition(s):
<input type="checkbox"/> 7.b. By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programs of support.	Target(s): Time frame: Context for the ambition(s):

1.2. Other ambitions in support of SDG7 by 2030 and net-zero emissions by 2050. [Please describe below e.g., coal phase out or reforming fossil fuel subsidies etc.]

Target (s) : (City and Town of Ithaca) Reduction of methane emissions associated with landfills by reducing organic and solid waste.

Time frame: 2022-2026

Context for the ambition(s) : An estimated 40% of food produced in the region goes uneaten, finding its way to landfills, increasing the production of methane gas. While existing food scraps and food donation laws affect large producers, it does not target the recovering of small scale and individual food waste. Material waste has also increased due to the pandemic, increasing plastic waste production.

SECTION 2: ACTIONS TO ACHIEVE THE AMBITION

2.1. Please add at least one key action for each of the elaborated ambition(s) from section 1. [Please add rows as needed].

7.1. (City and Town of Ithaca) Implementation of a community choice aggregation program, through which the city and town will procure, on behalf of the community and at below-average electricity prices, 100% renewable energy from selected energy service companies, including community solar within city and town boundaries, guaranteeing availability and enabling individual procurement of clean electricity from renewable energy sources.	<i>Start and end date</i> 2021 - permanent
7.1 (Cornell University) Cornell University will focus interdisciplinary research on the UN Sustainable Development Goals (SDGs) with an initial focus on the equitable distribution of food, energy, and water for a growing human population. Two initial interconnected research themes will link urban and rural communities: 1) Increase resilience of networks for food, energy, and water security. As human population approaches 9B by about 2050, with 70% of them living in cities, systems knowledge of rural-urban networks will be required to achieve the SDGs, and 2) reduce inequality/promotion of equity. To achieve social and political sustainability, reducing inequality must be an explicit goal in efforts to	<i>Ongoing through 2030 and beyond</i>

<p>analyze and improve access to health-promoting food, water and energy and other ecosystem goods and services.</p>	
<p>7.2 (City and Town of Ithaca) Implementation of a Loan Loss Reserve program to provide credit enhancement and solidarity loans to disadvantaged communities, reducing financial risk to lenders and increasing financial inclusion by providing zero-interest long-term loans and leasing programs for the acquisition of solar PV systems and the deployment of geothermal and mini-hydro energy generation systems.</p>	<p><i>Start and end date</i> 2021 - 2030</p>
<p>7.2 (Cornell University) Cornell will pursue the Cornell University Borehole Observatory to ground-truth the viability of advancing a full-scale demonstration project of its Earth Source Heat initiative - a project Cornell scientists believe holds potential that leads to a scalable solution that could be deployed across New York state and around the other cold-climate regions of the world. It is widely agreed that there is enough natural heat within the earth to sustain us indefinitely, and drilling technology advancements allow access to this heat. While similar projects have succeeded in areas where geothermal potential on or near the surface, deep, direct-use geothermal systems have never been attempted in areas with the geological conditions present in upstate New York and other cold climates worldwide.</p>	<p><i>Ongoing through 2030 and beyond</i></p>
<p>7.2 (Cornell University) Pursue a pilot project to convert a portion of the campus legacy steam distribution system and interconnected buildings to low-temperature hot water - a necessary enabling action to utilize renewable heat resources for existing steam/combustion- based district energy systems.</p>	<p><i>Ongoing through 2030 and beyond</i></p>
<p>7.3 (City and Town of Ithaca) Implementation of a city- and town-wide energy efficiency retrofitting and thermal load electrification program, providing financial assistance to low- and moderate-income communities, in combination with the implementation of the Ithaca Electrification Fund, created by the City and Town of Ithaca to cover all the interest rates and offer zero-cost lending and leasing programs for the replacement of fossil-fuel based space and water heating systems.</p>	<p><i>Start and end date</i> 2021 - 2030</p>
<p>7.3 (Cornell University) Continuously reduce the use of energy through the introduction of energy efficient appliances and equipment, the introduction of smart meters, thermostats, sensors and associated energy management and controls systems, as well as through the design and implementation of internal energy conservation projects and space management policies. Perform routine re-commissioning of buildings to ensure HVAC systems are performing as designed.</p>	<p><i>Ongoing through 2030 and beyond</i></p>
<p><i>Description of action (please specify for which ambition from Section 1)</i></p> <p>SECTION 1.2 (City and Town of Ithaca) <i>The implementation of a new circular economy program to address upstream production of plastic waste for packaging food and other products. Also, a circular economy program to reduce food waste and maximize food donations.</i></p>	<p><i>Start and end date</i> 2022 - 2026</p>

SECTION 3: OUTCOMES

3.1. Please add at least one measurable and time-based outcome for each of the actions from section 2. *[Please add rows as needed].*

<i>Outcome</i>	<i>Date</i>
<p>Related to 7.1 (City and Town of Ithaca) By 2023, all members of the community will have the opportunity to procure 100% affordable, renewable energy through the City's and Town's Community Choice Aggregation program. We expect that by the end of 2024 all residential buildings and 50% of commercial buildings in the City and Town of Ithaca will rely on 100% renewable energy. By 2026 we expect that all commercial buildings in the City and Town of Ithaca will rely 100% on renewable energy.</p> <p>(Cornell University) Key faculty hired for sustainability research; all Cornell students are able to participate in community-engagement experiences including living laboratory research and access courses with climate and sustainability learning outcomes</p>	<p>2023 2026</p> <p>By 2030</p>
<p>Outcome</p> <p>Related to 7.2 (City and Town of Ithaca) By 2022 all members of the community, starting with low- and moderate-income communities, will have access to zero percent interest lending and leasing programs for the deployment of solar PV, geothermal and mini-hydro projects. By 2025 the City and Town of Ithaca expect to have assisted in financing 1MW of renewable energy projects within city and town boundaries. By 2030 we expect to have assisted in the financing and deployment of 5MW of renewable energy projects in the City and Town of Ithaca.</p> <p>(Cornell University) Demonstration of the viability of Earth Source Heat for supplying safe, renewable, baseload heat to district energy systems. Existing projects will maintain operating status at full capacity, with partners able to realize the energy and carbon reduction benefits of the projects for their duration.</p>	<p>2022 2030</p> <p>By 2035</p>
<p>Outcome</p> <p>Related to 7.3 (City and Town of Ithaca) The City's and Town's energy efficiency retrofitting, and thermal load electrification programs are expected to be implemented following a phased multi-year approach, targeting 20% of the City's and Town's building stock by 2025, and 70% by 2028 and 100% by 2030.</p> <p>(Cornell University) Annual campus energy remains at or below current levels with continuously improving overall energy use intensity for centrally connected buildings.</p>	<p>2025 2028 2030</p> <p>Ongoing annual target</p>
<p>Outcome</p> <p>Related to Section 1.2 (City and Town of Ithaca) By 2022 we expect to start the implementation of a community-wide food and circular economy program. We expect to have participation of 100% of large producers of food waste by 2024 and 100% of small and medium size food producers by 2026.</p>	<p>2024 2026</p>

SECTION 4: REQUIRED RESOURCES AND SUPPORT

4.1. Please specify required finance and investments for each of the actions in section 2.

(City and Town of Ithaca)

7.1 \$100,000 year 1, \$20,000 annually thereafter.

7.2 Initial capital investment of \$2 million, projected accumulated investment of \$10 million during the duration of the program.

7.3 Initial investment of \$150 million from private investors. A total of \$400 million are projected to be necessary for the full implementation of the program.

SECTION 1.2 Initial investment of \$50,000. Program operation will require 20,000 annually for its implementation.

(Cornell University)

7.1 In-kind support for program development, staff support, and institutional research as necessary by Cornell University

7.2 Staff time and cooperation between Compact members; dedicated operational staff with expertise and legal support necessary to maintain goal.

7.3 A funding stream of about \$1M per year of capital plus wages/benefits for project managers and technicians from Cornell University.

4.2. [For countries only] In case support is required for the actions in section 2, please select from below and describe the required support and specify for which action.

[Examples of support for Member States could include: Access to low-cost affordable debt through strategic de-risking instruments, capacity building in data collection; development of integrated energy plans and energy transition pathways; technical assistance, etc.]

<input type="checkbox"/> Financing	Description
<input type="checkbox"/> In-Kind contribution	Description
<input type="checkbox"/> Technical Support	Description
<input type="checkbox"/> Other/Please specify	Description

SECTION 5: IMPACT

5.1. Countries planned for implementation including number of people potentially impacted.

The implementation model proposed under the Finger Lakes Energy Compact is expected to serve as a model for implementation in NY and other states within the US, as well as in other countries. We expect the IGND, and therefore the commitments made under this compact, will impact all 50,000 people living in the City and Town of Ithaca.

Cornell University reaches millions of people and communities in Tompkins County, New York, across New York State as the state's land-grant institution, and around the world through our global research and partnership initiatives. Reducing/stabilizing campus energy demand enables the community's beneficial electrification of heat and transportation, and advancement of shared energy goals. The Compact anticipates engaging with research and living laboratory, energy, and equity partners from many locations but primarily New York State, USA. The beneficiaries of this compact include:

- Any community for which scalable solutions have the potential to accelerate equity, access, and energy development in line with the laboratory example of the Cornell campus and surrounding community.
- Approximately 100,000 people living in Tompkins County.
- All residents of the City of Ithaca, Town of Ithaca, surrounding communities and Cornell University.
- Residents within the NYSEG service territory, Cornell University and other NY state voluntary market participants.

5.2. Alignment with the 2030 Agenda for Sustainable Development – Please describe how each of the actions from section 2 impact advancing the SDGs by 2030.

[up to 500 words, please upload supporting strategy documents as needed]

The City of Ithaca and the Town of Ithaca adopted the Ithaca Green New Deal in 2019 and 2020, respectively, as a core strategy to achieve both carbon neutrality by 2030 and to guarantee a just transition to a fossil fuel-free economy. Despite the pandemic, the work towards the implementation continued and in 2021 a 10-year Net-Zero 2030 strategy was developed. This strategy includes four phases of implementation: energy efficiency, decarbonization, electrification and carbon capture. At every phase, the Green New Deal considers climate justice, shared governance, education and engagement, innovation for economic development, financing, and international cooperation as the key pillars for the definition of every action. The Green New Deal is complemented by existing commitments from Cornell University and Ithaca College to reach campus carbon neutrality, and support City, Town and County goals to reduce carbon emissions and create a strong renewable energy future.

In its definition, the Green New Deal is described as *"a people-first approach focused on long-run outcomes that elevate social capital, creating a new future, one where equity, justice and sustainable prosperity are at the core of our transition and transformation strategy."* This, in the context of the 2030 agenda for sustainable development can be considered as a plan of action for people, planet and prosperity.

Based on the Ithaca Green New Deal's principles and regional carbon neutrality commitments, the Finger Lakes Energy Compact attempts to identify specific collaborative actions that may help to advance the 2030 Agenda for Sustainable Development. For instance, Target 2 for SDG 7.2 will advance concrete steps to decarbonize the regional energy system and provide necessary transition research through the adoption of deep geothermal technologies for Cornell University's energy systems, and Target 2 of SDG 7.1 ensures targeted study and research is deployed to solve the challenges of accessible, equitable energy transformation to a global population and the citizens of Ithaca, Tompkins County, and New York State.

Specifically, the Finger Lakes Energy Compact seeks to share any progress in technology, innovative finance and partnerships with all members of society, including rural and urban communities, to eliminate energy poverty and promote new, regenerative ways of producing and distributing food as well as other resources.

Through specific actions, the Finger Lakes Energy Compact also seeks to guarantee the availability of vital energy infrastructure to 100% of the population, ensuring inclusive and equitable access to services and infrastructure.

The actions proposed within this Energy Compact directly and positively affects progress, ensuring access to affordable, reliable and sustainable energy. It does this by taking full advantage of available renewable resources to guarantee energy and to promote sustainable economic growth and opportunity.

Every action considered within the Compact tries to address, either implicitly or explicitly, inequality and historical inequities, while at the same time actively mitigating the potential effects of climate change with special emphasis on climate justice communities.

The Finger Lakes Energy Compact reflects what small urban and rural communities can do to join the fight against climate change. Being in contact with the land, as well as the people, allows the community to define inclusive and effective ways of promoting structural change through the implementation of replicable actions based on education, technology, policy and finance.

5.3. Alignment with Paris Agreement and net-zero by 2050 - Please describe how **each** of the actions from section 2 align with the Paris Agreement and national NDCs (if applicable) and support the net-zero emissions by 2050. [up to 500 words, please upload supporting strategy documents as needed]

The implementation of the Energy Compact targets, carbon neutrality efforts by regional Universities, and the Ithaca Green New Deal relies on a 10 to 15-year action plan to achieve carbon neutrality by the early 2030s. Its implementation as a mission-oriented, coordinated and collaborative approach to net-zero follows the principles and goals of the Paris Agreement. It is defined as "a transformative effort capable of altering the economy, enabling a new social contract and redefining the relationship between government and society, as well as between the planet and the economy."

Every science-based action and target defined under the Finger Lakes Energy Compact, attempts to contribute to reduce greenhouse gas emissions, hoping to also increase the probability of limiting global warming to well below 2 degrees Celsius. The City of Ithaca, Town of Ithaca, and Cornell University have already committed to eliminate greenhouse gas emissions well before 2050. And while all three institutions have defined specific targets according to individual long-term plans, they also increase the state and federal government's level of ambition to include more aggressive actions and targets.

Key to the success of the Paris Agreement, the implementation of the NDCs, as submitted by the US federal government in April 2021, and the Ithaca Green New Deal is the need to identify the right financial mechanisms and risk mitigation strategies to unlock and de-risk finance and private investment. The Finger Lakes Energy Compact is addressing this need by identifying replicable mechanisms so these could be adopted by less developed countries.

The different technologies being used to reduce carbon emissions, from Earth-source heating to air-source heat pumps, are to be studied, implemented and de-risked by the members of the Finger Lakes Energy Compact, hoping to eventually share best practices and the technology itself with those who would benefit the most from its local implementation.

Finally, through partnerships beyond our borders, the Compact will try to provide technical assistance and capacity building for the implementation of specific actions, including the adoption and adaptation of technological and financial solutions to climate change.

SECTION 6: MONITORING AND REPORTING

6.1. Please describe how you intend to track the progress of the proposed outcomes in section 3. Please also describe if you intend to use other existing reporting frameworks to track progress on the proposed outcomes.

We intend to produce an annual report on progress, specifically describing all verifiable aspects of implementation, highlighting all quantifiable results, presented in contrast with the objectives and targets summarized herein.

SECTION 7: GUIDING PRINCIPLES CHECKLIST

Please use the checklist below to validate that the proposed Energy Compact is aligned with the guiding principles.

I. Stepping up ambition and accelerating action - Increase contribution of and accelerate the implementation of the SDG7 targets in support of the 2030 Agenda for Sustainable Development for Paris Agreement

I.1. Does the Energy Compact strengthen and/or add a target, commitment, policy, action related to SDG7 and its linkages to the other SDGs that results in a higher cumulative impact compared to existing frameworks?

Yes No

I.2. Does the Energy Compact increase the geographical and/or sectoral coverage of SDG7 related efforts? Yes No

I.3. Does the Energy Compact consider inclusion of key priority issues towards achieving SDG7 by 2030 and the net-zero emission goal of the Paris Agreement by 2050 - as defied by latest global analysis and data including the outcome of the Technical Working Groups? Yes No

II. Alignment with the 2030 agenda on Sustainable Development Goals – Ensure coherence and alignment with SDG implementation plans and strategies by 2030 as well as national development plans and priorities.

II.1. Has the Energy Compact considered enabling actions of SDG7 to reach the other sustainable development goals by 2030? Yes No

II.2. Does the Energy Compact align with national, sectoral, and/or sub-national sustainable development strategies/plans, including SDG implementation plans/roadmaps? Yes No

II.3. Has the Energy Compact considered a timeframe in line with the Decade of Action? Yes No

III. Alignment with Paris Agreement and net-zero by 2050 - Ensure coherence and alignment with the Nationally Determined Contributions, long term net zero emission strategies.

III.1. Has the Energy Compact considered a timeframe in line with the net-zero goal of the Paris Agreement by 2050? Yes No

III.2. Has the Energy Compact considered energy-related targets and information in the updated/enhanced NDCs? Yes No

III.3. Has the Energy Compact considered alignment with reaching the net-zero emissions goal set by many countries by 2050? Yes No

IV. Leaving no one behind, strengthening inclusion, interlinkages, and synergies - Enabling the achievement of SDGs and just transition by reflecting interlinkages with other SDGs.

IV.1. Does the Energy Compact include socio-economic impacts of measures being considered? Yes No

IV.2. Does the Energy Compact identify steps towards an inclusive, just energy transition? Yes No

IV.3. Does the Energy Compact consider measures that address the needs of the most vulnerable groups (e.g. those impacted the most by energy transitions, lack of energy access)? Yes No

V. Feasibility and Robustness - Commitments and measures are technically sound, feasible, and verifiable based a set of objectives with specific performance indicators, baselines, targets and data sources as needed.

V.1. Is the information included in the Energy Compact based on updated quality data and sectoral assessments, with clear and transparent methodologies related to the proposed measures? Yes No

V.2. Has the Energy Compact considered inclusion of a set of SMART (specific, measurable, achievable, resource-based and time based) objectives? Yes No

V.3. Has the Energy Compact considered issues related to means of implementation to ensure feasibility of measures proposed (e.g. cost and financing strategy, technical assistant needs and partnerships, policy and regulatory gaps, data and technology)? Yes No

SECTION 8: ENERGY COMPACT GENERAL INFORMATION

8.1. Title/name of the Energy Compact

Finger Lakes Energy Compact

8.2. Lead entity name (for joint Energy Compacts please list all parties and include, in parenthesis, its entity type, using entity type from below)

City of Ithaca (Local Government), Town of Ithaca (Local Government), Cornell University (Academic Institution)

8.3. Lead entity type

Government

Local/Regional Government

Multilateral body /Intergovernmental Organization

Non-Governmental Organization (NGO)

Civil Society organization/Youth

Academic Institution /Scientific Community

Private Sector

Philanthropic Organization

Other relevant actor

8.4. Contact Information

Dr. Luis Aguirre-Torres, Director of Sustainability, City of Ithaca (authorized to represent the City of Ithaca before the UN Energy Program in all matters related to the Finger Lakes Energy Compact).

8.5. Please select the geographical coverage of the Energy Compact

Africa Asia and Pacific Europe Latin America and Caribbean North America West Asia Global

8.6. Please select the Energy Compact thematic focus area(s)

Energy Access Energy Transition Enabling SDGs through inclusive just Energy Transitions Innovation, Technology and Data Finance and Investment.

SECTION 9: ADDITIONAL INFORMATION (IF REQUIRED)

Please provide additional website link(s) on your Energy Compact, which may contain relevant key documents, photos, short video clips etc.

City of Ithaca Green New Deal: <http://www.cityofithaca.org/642/Green-New-Deal>

Town of Ithaca Green New Deal: <http://www.town.ithaca.ny.us/TB%20Resolution%202020-049%20Green%20New%20Deal%20Resolution.pdf>

Cornell University: <https://sustainablecampus.cornell.edu/our-leadership/un-finger-lakes-energy-compact>