

# Green CHIPS Sustainability Plan Template

**Instructions:** In accordance with New York Economic Development Law section 352(24) and its implementing regulations, applicants must submit a Green CHIPS Sustainability Plan to ESD for approval in order to be eligible for the enhanced Green CHIPS benefits under the Excelsior Jobs Tax Credit program. Each Green CHIPS Sustainability Plan must address at a minimum the energy and environmental items outlined below and include annual milestones that are specific and actionable for each item.

The initial plan should be submitted in phases or in a manner approved by ESD that provides ESD sufficient time to review sustainability options under consideration during various aspects of the project from design, construction, and operation, but before final decisions are made on such options. Applicants may propose revisions to their Sustainability Plans, subject to ESD approval, on an annual basis.

Please complete all sections as thoroughly as possible. Appendices can be provided where needed.

**Describe your overall plan for making specific, actionable sustainability commitments with regard to the project.** Such plans may include, but need not be limited to, requirements relating to the use of renewable energy for project electricity, energy efficient design and operation, the use of electrification for space heating and cooling, investments to encourage or promote sustainable housing, achievement of minimum [Leadership in Energy and Environmental Designs \(LEED\) standards](#) for project facilities, and other measures intended to mitigate greenhouse gas (GHG) emissions over the project's lifetime and support the goals of the State's [Climate Leadership and Community Protection Act](#) (the "CLCPA" or "Climate Act").

In addition to the overall plan outlined above, a participant's Green CHIPS Sustainability Plan must address, at a minimum, the following specific elements. For each element, please provide specific details on the investment you expect to make and milestones that will be achieved by your company in the following required areas. Details should include the specific methods, measures, and annual goals/milestones anticipated. Applicants are encouraged to be aggressive and exceed these requirements wherever possible.

## 1. Electricity

**Green CHIPS participants will be required to utilize 100% energy generated from renewable energy systems, as defined in [section 66-p](#) of the New York Public Service Law, for electricity in their operations and maintain the 100% level of renewable energy for electricity supply for the duration of the project.**

**"Renewable energy systems" are defined as systems that generate electricity or thermal energy through use of the following technologies: solar thermal, photovoltaics, on land and offshore wind, hydroelectric, geothermal electric, geothermal ground source heat, tidal energy, wave energy, ocean thermal, and fuel cells which do not utilize a fossil fuel resource in the process of generating electricity.**

**a) Discuss how your project will meet these requirements? *Specific actions may include, but need not be limited to, direct renewable energy project investments, renewable project offtake***

## Green CHIPS Sustainability Plan Template

*or power purchase agreements, procurement of renewable energy credits, and onsite renewable energy installations – all with appropriate claims of ownership of environmental attributes.*

**b) If applicable, discuss any additional measures** beyond these requirements that you plan to undertake. *ESD encourages applicants to include additional commitments such as, but not limited to, plans to prioritize in-state sources of renewable energy, the installation of on-site renewable energy systems and on-site battery storage systems, support for community solar or similar local clean energy projects, and 24/7 or other time matching-based renewable purchase commitments.*

### 2. Operations

**Green CHIPS participants will be required to agree to GHG emissions standards specific to the project that are reasonable and achievable given the state of technology advancements, and to create a plan to mitigate overall facility GHG emissions and to significantly improve the level of such mitigation over the life of the project. Efficiencies should be prioritized over additional or ancillary measures.**

**a) Discuss how you will work with ESD and other involved State agencies to set a GHG emissions standard.** *Please describe plans to use best available control technology to implement measures that are reasonable and achievable given the state of technology advancements for mitigating and controlling GHG emissions from the commencement of the project's operations, and to implement commercially reasonable upgrades to maintain best available control technology for GHG mitigation over the life of the project.*

**b) Discuss how you intend to mitigate process emissions and the prospects for significantly enhanced mitigation of such emissions.** *In answering this question, please describe any plans or commitments to significantly mitigate overall facility GHG emissions over the lifetime of the project that go beyond commercially reasonable upgrades, including specific investments and measures to achieve the aim of reaching net zero emissions by 2050. In referencing any such aims, please refer to:*

- The [commitments](#) of the Semiconductor Climate Consortium (SCC)
  - [Collaboration](#) – Align on common approaches to continuously improve and reduce GHG emissions in the semiconductor industry value chain
  - [Transparency](#) – Publicly report progress and Scope 1, 2, & 3 GHG emissions annually according to the guidelines and principles in the GHG Protocol and agree to key underlying assumptions
  - [Ambition](#) – Set near-term and long-term targets in accordance with best available science, with the aim to reach net zero GHG emissions per the GHG protocol no later than 2050,
- The U.N. panel's "Integrity Matters" [report](#) on net zero commitments, and
- The specific [GHG emissions accounting policies](#) under New York's Climate Act.

## Green CHIPS Sustainability Plan Template

**c) If applicable, discuss any additional measures** beyond those required that you plan to implement to mitigate GHG emissions from project operations. *ESD encourages applicants to include additional measures such as, but not limited to:*

- *Utilizing green hydrogen (hydrogen formed through electrolysis powered by renewable electricity, without GHG emissions) to displace or replace natural gas and gray hydrogen consumption,*
- *Supporting or participating in New York's federal Hydrogen Hub development or other state-led research, market development, and policy initiatives,*
- *Utilizing climate friendly refrigerants instead of hydrofluorocarbons (HFCs), and*
- *Pursuing other clean measures such as geothermal heat pumps for space heating and cooling loads.*

**d) If applicable, please describe any plans for academic partnerships with institutions of higher education.** *Applicants are encouraged to incorporate New York State-based universities or other programs in research and development activities related to reducing emissions from facility operations.*

### 3. Buildings

**Green CHIPS participants must achieve and maintain a minimum Gold LEED status for all semiconductor fabrication facilities (fabs) and office buildings and make commercially reasonable efforts to achieve Platinum status at all fabs and office buildings.**

**a) Discuss how you will meet this requirement.** *In answering this question, please describe construction and operating plans that would contribute to your ability to obtain LEED status, including efficient, all electric/fossil free office buildings and non-manufacturing space.*

**b) If applicable, discuss any additional efforts** beyond those required that you plan to include to further reduce emissions associated with project buildings. *ESD encourages applicants to include measures such as, but not limited to, energy efficiency and electrification, encouraging contractors to utilize low-carbon construction vehicles and equipment; incorporating regional low-carbon building materials (green steel, green cement, mass timber, etc.) into construction; and providing support or opportunities for sustainable housing for employees.*

### 4. Transportation

**Green CHIPS participants will be required to facilitate low- and zero-emissions transportation opportunities related to the project.**

**a) Discuss commitments you will make to install infrastructure** for charging or fueling clean vehicles for employee, contractor, and company fleet use. *ESD also encourages applicants to include*

## Green CHIPS Sustainability Plan Template

*measures such as, but not limited to, the development of an employee EV purchase program and/or employer sponsored incentives.*

**b) Discuss your plan for supporting public transportation or alternative transportation options for employees.** *Plans can include measures supporting smart growth, integrating facilities into public transportation services, and providing incentives for businesses to accommodate non-vehicular commuting, including employee-based trip reduction programs, low/no-cost transit passes for employees, micro-transit options for employees, ride-sharing programs, bike-sharing, and scooter-sharing; and cycling accommodations.*

**c) If applicable, please discuss any additional measures** to reduce emissions from transportation associated with the project, including with regard to the transport of inputs, final products and other materials to, from, and within the facility.

### 5. Water

**Green CHIPS participants will be required to implement water conservation and efficiency measures. Such measures should target at least 75 percent water conservation by 2030 through reduction and avoidance measures, as well as through reuse, recycling, and restoration.**

**a) Discuss how you will meet this requirement.** *Specific plans should include a discussion of the resources you would utilize to ensure you are able to meet this goal and the metrics you would use to assess progress year over year. (In the event that promised public infrastructure is necessary to meet this goal, whether or not such infrastructure is in service will be taken into consideration in evaluating the applicant's performance with regard to this metric.)*

**b) If applicable, discuss any additional measures** beyond these requirements you plan to utilize. *ESD encourages applicants to include measures such as, but not limited to, the utilization of green infrastructure such as permeable pavement, stormwater runoff management solutions, and sustainable wastewater management.*

### 6. Waste

**Green CHIPS participants will be required to implement waste reduction and management measures. Such efforts should target at least 95 percent reduction, minimization, reuse, recycling, and recovery of waste and, to the extent feasible, sending zero hazardous waste to landfills by 2030.**

**a) Discuss how you will meet this requirement.** *Specific plans should include a discussion of the resources you would utilize to ensure you are able to meet this goal and the metrics you would use to assess progress year over year.*

# Green CHIPS Sustainability Plan Template

## 7. Additional Plans

Please describe any additional sustainability-related plans or commitments. These may include community benefit projects that incorporate clean energy or sustainability solutions, support for procurement from in-state industries or suppliers of sustainability-focused products and services, and holding supplier and contractor forums or events targeted to in-state construction, engineering, and other firms that could support sustainability requirements and needs.