



The Town of Nederland has made great strides towards being a more sustainable community throughout the past decade. During a community-wide envisioning process, the resulting document being Envision Ned 2020, residents highlighted their great passion for nature, recreation, local economics, and a strong community, all of which are integral pieces of a sustainable community.

The Nederland Sustainability Advisory Board, tasked with advising the Board of Trustees on matters of sustainability, has also taken the reigns of various sustainable projects that have propelled us towards achieving our Ned2020 Vision. Further, the Town of Nederland, initiated by the community and supported by the SAB, set a goal for 100% renewable electricity of municipal operations by 2020 and residential and commercial by 2025.

As a small town with limited financial resources, our human capital as a volunteer advisory board is our most crucial asset. As such, we are seeking to utilize our board members' time to develop community interfaces and collaborative projects, while leveraging expertise from outside partners to develop critical analyses, datasets, and tools to track our progress.

*Plan approved February 28, 2019*

## COMPLETED GOALS

The projects and systems from the Nederland 2020 Vision that are implemented:

- ❖ Establish community gardens
- ❖ Establish community greenhouse
- ❖ Establish a Farmers Market
- ❖ Establish a set of measurable criteria for evaluating development projects on sustainability
- ❖ Draft and recommend to pass a resolution to commit to 100% renewable electric energy
- ❖ Investigate a solar gardens project for Nederland
- ❖ Solar electricity purchase for Nederland Municipal Operations
- ❖ Partner with local and regional organizations to develop social sustainability

The projects and systems from the Nederland 2020 Vision that are implemented and ongoing:

- ❖ Operate the community gardens and greenhouse, including hosting educational and informational gardening workshops, presentations, and events
- ❖ Continue to analyze new municipal and private development projects with the Sustainability Scorecard
- ❖ Host an informational booth at the Nederland Farmers Market and support the market operations
- ❖ Disseminate information to residents regarding sustainability and continue to stay active on social media, in print media, and in-person contact.
- ❖ Draft a plan to reach 100% renewable electric generation for Town residents and businesses by 2025.
- ❖ Continue working relationships and continue to build new strategic partnerships.

## 2019 GOALS

Following on a year of successful campaigning and community excitement, the SAB plans to continue to advance our goals in 2019 with three focuses: Community Agriculture (p. 5-6), Renewable Energy and Energy Efficiency (p. 7-9), and waste diversion (pages 10-11).

### Community Agriculture

- ❖ Nederland Community Gardens continue to operate/increase capacity and memberships
- ❖ Nederland Community Greenhouse continue to operate/increase capacity and memberships
- ❖ Nederland Farmers Market and Cottage Foods Industry Support
- ❖ Educational/Informational Gardening Workshops, Events, and Presentations

### Renewable Energy and Energy Efficiency

- ❖ Establish Energy Baseline for business and residential operations
- ❖ Promote Solar Rewards and other Xcel Renewable options to residents
- ❖ Continue working relationships with Xcel, PIE, SEI, and CC4CA
- ❖ Promote and distribute funds for residents to purchase rooftop solar

### Waste Diversion

- ❖ Establish Waste Baseline for Nederland municipal, business, and residential operations
- ❖ Draft and recommend passage of a Zero Waste Event Resolution
- ❖ Disseminate information to businesses on Zero Waste practices; utilize community partners
- ❖ Determine total waste diversion rate for Nederland and maintain records

## 2021 GOALS

By 2021 we intend to continue our 2019 efforts, as well as accomplish some Ecosystem Assessment goals (p. 11).

### Community Agriculture

- ❖ Regular Community Agriculture Presentations/Workshops/Learning Experiences  
Community Garden Expansion at Guercio Field and/or other Town-owned areas.
- ❖ Plant native gardens: Wild medicinals, edibles, pollinator species at Guercio Field and other Town-owned areas.

### Renewable Energy and Energy Efficiency

- ❖ Establish energy efficiency/ renewable energy service that assists homeowners and businesses in Nederland
- ❖ Identify incentives for improving energy efficiency
- ❖ Establish surrounding privately owned properties that are candidates for renewable electricity generation potential.

### Ecosystem Assessment

- ❖ Conduct Environmental Assessments of Town Properties (some areas have been completed)
- ❖ Develop sustainability analysis of Town Properties; including solar/renewables sites, garden sites, water collection sites, and conservation demonstration sites.

## ACTION PLAN

### COMMUNITY AGRICULTURE

<b>ACTION ITEM</b>	Community Gardens
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Continued use of municipal water at no charge</li> <li>- Continued use of Town staff for accounting and funds management</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 30 hours yearly volunteer time 2019-2021 <ul style="list-style-type: none"> <li>- Continued volunteer management of plot registration</li> <li>- Continued weeding/maintenance</li> </ul>
<b>TIMELINE</b>	May through October; Ongoing

<b>ACTION ITEM</b>	Community Greenhouse
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Continued use of municipal water at no charge</li> <li>- Continued build support through summer 2019</li> <li>- Addition to Community Garden fund management</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 200 hours 2019 volunteer time for build completion <ul style="list-style-type: none"> <li>- Construction, landscaping, other labor</li> </ul> Estimate 60 hours yearly volunteer time 2019-2021 <ul style="list-style-type: none"> <li>- Volunteer management</li> <li>- Continued weeding/maintenance</li> </ul>
<b>TIMELINE</b>	Ongoing

<b>ACTION ITEM</b>	Community Education/Workshops
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Continued organizational support to choose events, manage locations and publicity, and maintain a regular schedule of events</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 30 hours yearly volunteer time 2019-2021
<b>TIMELINE</b>	Ongoing

## 2019-2021 Action Plan 6

<b>ACTION ITEM</b>	Nederland Farmers Market and Cottage Foods
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Continued use of Guercio Ball Field at no charge</li> <li>- Continued event liability coverage</li> <li>- Continued support for Community Information Booth</li> <li>- Pass a resolution in support of CO Cottage Foods Act</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 200 hours yearly volunteer time 2019-2021 <ul style="list-style-type: none"> <li>- Volunteer to organize kids activities and special events (partnership with Nederland Community Library)</li> <li>- Volunteer to manage/assist with the NFM Resale Booth</li> <li>- Volunteer to manage/assist with the Community Booth</li> <li>- Draft Cottage Foods Resolution (4 hours 2019)</li> </ul>
<b>TIMELINE</b>	Twice Weekly, May through October; Ongoing

<b>ACTION ITEM</b>	The “Emerald Chain” Native Gardens
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Designate areas to be utilized for native showcase gardens (edibles, medicinals, herbs, pollinators, etc)</li> <li>- Designate areas best suited to gardening and revegetation.</li> <li>- Utilize Ecosystem Assessment (see below item)</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 30 hours yearly volunteer time <ul style="list-style-type: none"> <li>- Construction, landscaping, other labor</li> </ul>
<b>TIMELINE</b>	2019-2021

## ACTION PLAN

### RENEWABLE ENERGY & EFFICIENCY

<b>ACTION ITEM</b>	Energy Baseline
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Xcel data regarding metered residential energy use in Nederland</li> <li>- Xcel data regarding metered commercial energy use in Nederland</li> <li>- Track usage and maintain records</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 4 hours yearly volunteer time 2019
<b>TIMELINE</b>	2019

<b>ACTION ITEM</b>	Promote Xcel Renewable Energy Programs
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Information regarding new/existing Xcel programs</li> <li>- Use of Town facilities for promoting information (buildings, printer, website, social media)</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 20 hours yearly volunteer time 2019-2021 <ul style="list-style-type: none"> <li>- Develop Marketing Plan</li> <li>- Distribute media (social media, Flyers, newspaper)</li> </ul>
<b>TIMELINE</b>	Ongoing

<b>ACTION ITEM</b>	Xcel Workplan
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Town staff and SAB time for meetings</li> <li>- Implementational support</li> <li>- Communication between municipal operations, Xcel, and SAB</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 60 hours yearly volunteer time 2019-2021
<b>TIMELINE</b>	Ongoing

## 2019-2021 Action Plan 8

<b>ACTION ITEM</b>	Partners in Energy (PIE) Workplan
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Town staff and SAB time for bi-weekly meetings and two workshops</li> <li>- Implementational support for plan developed in the program</li> <li>- Communication between municipal operations, Xcel, and SAB</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 60 hours yearly volunteer time 2019-2021
<b>TIMELINE</b>	2019-2021

<b>ACTION ITEM</b>	Energy Efficiency Incentives and Programs
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Strategy developed with PIE program</li> <li>- Use of Town facilities for promoting information (buildings, printer, website, social media)</li> <li>- Identify Municipal possibilities for efficiency increases</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	For volunteer hours estimate, see PIE section above <ul style="list-style-type: none"> <li>- Develop Marketing Plan</li> <li>- Distribute media (social media, Flyers, newspaper)</li> </ul>
<b>TIMELINE</b>	Ongoing

<b>ACTION ITEM</b>	Colorado Communities For Climate Action (CC4CA) Participation
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Budget for maintaining Membership Fees</li> <li>- Staff time to participate in CC4CA committees</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 60 hours yearly volunteer time 2019-2021
<b>TIMELINE</b>	Ongoing

<b>ACTION ITEM</b>	Identify Properties with Renewable Electricity Generation Potential
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Use of GIS computer software and database</li> <li>- SAB time to compile data and reports</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 40 hours yearly volunteer time 2019-2020 <ul style="list-style-type: none"> <li>- Collect and input GIS and other data</li> <li>- Monitor and report changes to natural area</li> </ul>



# 2019-2021 Action Plan 9

<b>TIMELINE</b>	December 2020
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<b>ACTION ITEM</b>	Rooftop Solar Cost Support
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Maintain budget coordination with Boulder County</li> <li>- Promotional Materials/Social Media (utilizing grant money)</li> <li>- SAB time to develop a marketing strategy and implement</li> <li>- SAB time to develop quarterly/final grant reports, Staff time to check reports and submit</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 30 hours yearly volunteer time 2019 <ul style="list-style-type: none"> <li>- Develop Marketing Plan</li> <li>- Distribute media (social media, Flyers, newspaper)</li> </ul>
<b>TIMELINE</b>	December 2019

<b>ACTION ITEM</b>	Solarize Program
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Maintain working relationship with Solar Energy International</li> <li>- SAB time to develop a marketing plan for Solarize program</li> <li>- SAB time to develop solar rooftop/community garden goals for the Solarize program</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 200 hours yearly volunteer time 2019 <ul style="list-style-type: none"> <li>- Develop Marketing Plan</li> <li>- Distribute media (social media, Flyers, newspaper)</li> </ul>
<b>TIMELINE</b>	2019-2020

<b>ACTION ITEM</b>	2025 Plan for 100% Renewable Electricity
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Staff, BOT, and SAB time to continue to search for renewable opportunities</li> <li>- Seek out community solar garden lands/rooftops</li> <li>- Seek out legislature changes with CC4CA and CML that promote renewable energy</li> <li>- Seek proper incentives for commercial rooftop solar installation</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 120 hours yearly volunteer time 2019-2021 <ul style="list-style-type: none"> <li>- Maintain working relationships with Xcel Energy Futures Collaboration and PIE program to assist in developing plan.</li> </ul>
<b>TIMELINE</b>	Ongoing

## ACTION PLAN WASTE DIVERSION

<b>ACTION ITEM</b>	Waste Baseline
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Staff and SAB time to:</li> <li>- Determine Municipal Waste Baseline</li> <li>- Work with County Transfer Station to estimate Nederland vs. surrounding area use</li> <li>- Identify all waste removal contractors (residential, commercial, hazardous, construction, etc.) and determine Nederland waste</li> <li>- Maintain records of waste data</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	<p>Estimate 20 hours yearly volunteer time 2019-2020</p> <ul style="list-style-type: none"> <li>- Due to our varied waste streams and supplies, a real baseline may not be possible; if this is the case, we will work to determine a best estimate and spreadsheet to track changes.</li> </ul>
<b>TIMELINE</b>	2019 determine baseline. Records Ongoing.

<b>ACTION ITEM</b>	Zero Waste Best Practices
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Identify businesses in Town</li> <li>- Identify best practices/products for Zero Waste success</li> <li>- Town Staff to assist with distribution of materials</li> <li>- Seek possible funding sources for business rebates and promotional campaigns/materials</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	<p>Estimate 60 hours yearly volunteer time 2019-2020</p> <ul style="list-style-type: none"> <li>- Develop Marketing Plan</li> <li>- Distribute media (social media, Flyers, newspaper)</li> <li>- Maintain working relationship with Wild Bear Nature Center to disseminate information</li> <li>- Maintain positive relationships with Town businesses</li> <li>- Maintain working relationship with NDDA for extra business communication opportunities and workshops</li> </ul>
<b>TIMELINE</b>	2019-2020

<b>ACTION ITEM</b>	Zero Waste Event Resolution
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Draft Resolution</li> <li>- Contact businesses and events and get their support</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate less than 8 hours.
<b>TIMELINE</b>	December 2019

## ACTION PLAN ECOSYSTEM ASSESSMENT

<b>ACTION ITEM</b>	Ecosystem Assessment (including needs)
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Identify areas to be assessed</li> <li>- Identify budget funding for contracted assessments, and seek out additional funding sources</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 10 hours yearly volunteer time 2020-2021
<b>TIMELINE</b>	2020-2021

<b>ACTION ITEM</b>	Sustainable Land Use Assessment
<b>NEEDS FROM SAB &amp; THE MUNICIPALITY</b>	<ul style="list-style-type: none"> <li>- Use of GIS computer software and database</li> <li>- Identify areas to be assessed</li> <li>- Monitor and report changes to natural areas</li> <li>- Identify best location: a) renewables (see above item), b) housing, c) agriculture, d) recreation, e) conservation</li> <li>- Utilize Ecosystem Assessment (see above)</li> </ul>
<b>NEEDS FROM VOLUNTEERS</b>	Estimate 30 hours yearly volunteer time 2020-2021 <ul style="list-style-type: none"> <li>- Collect and input GIS and other data</li> <li>- Monitor and report changes to natural areas</li> </ul>
<b>TIMELINE</b>	2020-2021

## ESTIMATE HOURS TOTALS

<i>YEAR</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>
Hours Needed	1194	1030	670

## FUTURE GOALS

100 % Renewable Electric Energy by 2025

**Ecosystem Needs Assessment for Town/surrounding areas**

*Including migratory patterns, wildlife habitat, wildfire mitigation, riparian and stream health, reducing/eliminating standard septic systems, conserving water, etc.*

**Identify Needs to reach Carbon Neutrality**

*Reduce/Eliminate propane and natural gas use and transportation impacts*