



Sustainability Committee

Regular Meeting Agenda

Thursday, October 13th, 2022

5:30pm at the Conference Room of the Downtown Boone Post Office or via Webex

The Town of Boone Sustainability Committee will meet on Thursday, October 13th, 2022 at 5:30pm. This meeting will be held in a hybrid fashion. In-person attendees will meet in the upstairs conference room of the Downtown Boone Post Office, located at 680 West King St. Virtual attendees will use WebEx, a video conferencing software. For information on how to watch, listen, and/or participate in the meeting, please see the WebEx Conferencing information at the end of this agenda. The following items will be on the agenda:

I. Call to Order

II. Adoption of Agenda

III. Approval of September 8th, 2022 Sustainability Committee Minutes

IV. Old Business

A. 2022 Projects review

B. GHG Inventory and Community Climate Action Plan - Science Based Targets

V. New Business

A. Sustainability Committee Purpose and Membership

VI. Other Matters

VII. Public Comment

VIII. Adjournment

Individuals who wish to participate may do so through Webex, the video conferencing software, either online (by computer or smartphone) or by telephone. To do so, please email George Santucci, Sustainability and Special Projects Manager at george.santucci@townofboone.net and you will be provided with an email invitation to the meeting. All requests for participation must be completed by 5 :00 p.m. on the day of the meeting.



Town of Boone
Sustainability Committee
Meeting Minutes
Thursday, September 8th, 2022
5:30 P.M.

Members Present: John Prickett, Brian Crutchfield, Jennifer Maxwell, Margie Mansure (arrived at 6:00 pm), and Joan Brook (arrived at 6:41pm)

Members Absent: Terry Cirone, Benjamin Scarboro, and Jeremy Love

Staff Present: George Santucci, Sustainability and Special Projects Manager and Laney Pilkington, Administrative Support Specialist/Communications

Council Liaison: Councilperson Becca Nenow and Councilperson Dalton George

Others Present: Brandon Wise

Call To Order:

John Prickett called the meeting to order at 6:41pm

Adoption of Agenda:

Prickett asked for a motion to adopt the agenda. Upon the motion made by Brian Crutchfield, seconded by Margie Mansure, the agenda for the September 8th, 2022 Sustainability Committee was approved

Vote:

Yes: Prickett, Crutchfield, Maxwell, Mansure, Brook

No: None

Absent: Cirone, Scarboro, Love

Approval of Minutes:

Prickett asked for a motion to approve the June 9th, 2022 Sustainability Committee Meeting Minutes. Upon the motion made by Crutchfield, seconded by Maxwell, the minutes for the June 9th, 2022 Sustainability Committee were approved.

Adjournment:



Upon the motion made by Crutchfield, seconded by Maxwell, the Sustainability Committee adjourned at 6:53pm.

Vote:

Yes: Prickett, Crutchfield, Maxwell, Mansure, Brook

No: None

Absent: Cirone, Scarboro, Love

DRAFT



2022 Year in Review

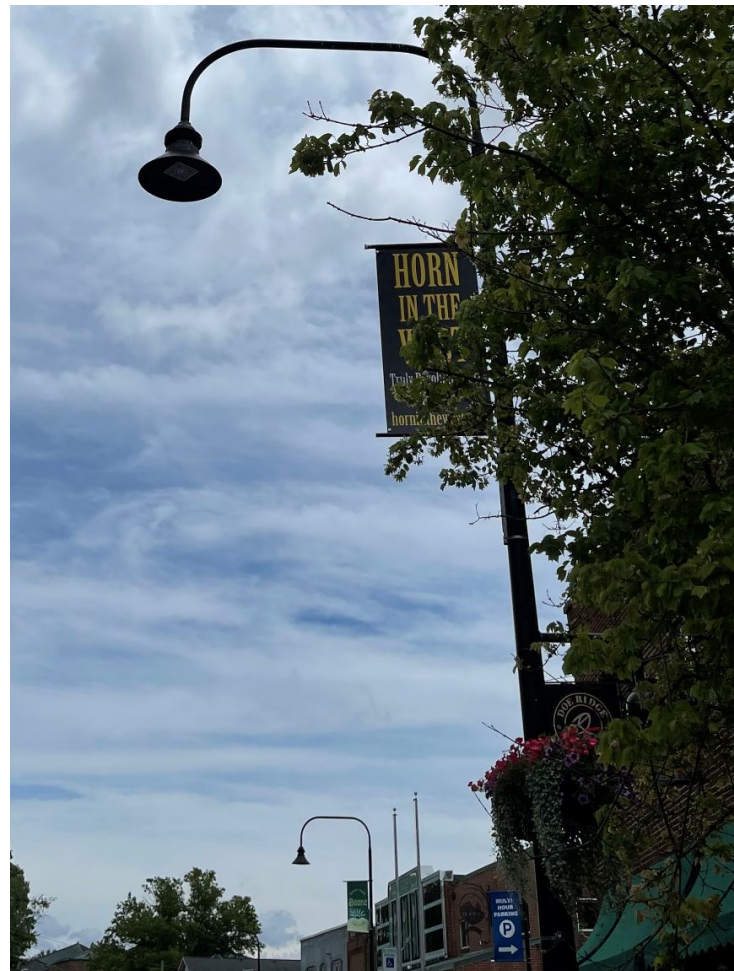
2022 accomplishments:

- 100% Renewable Electricity
- Climate Survey
- 85% LED streetlights
- Planted More trees
- 6 EV Chargers installed
- Ordered 6 hybrid Police cruisers
- 1st Electric Bus
- Gave out hundreds of reusable shopping bags
- Pollinator planting
- Stream restoration grants
- Buy Boone Lunch
- New Trash Trout
- Ordered 2 Chevy Bolt EVs

**Boone's municipal electricity comes from
a solar array (75%) and hydro power (25%)**



Convert Town Owned Street Lights to LEDs



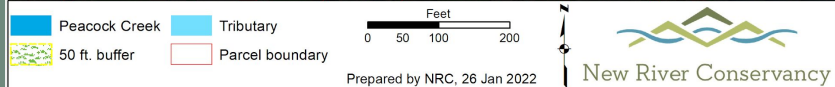
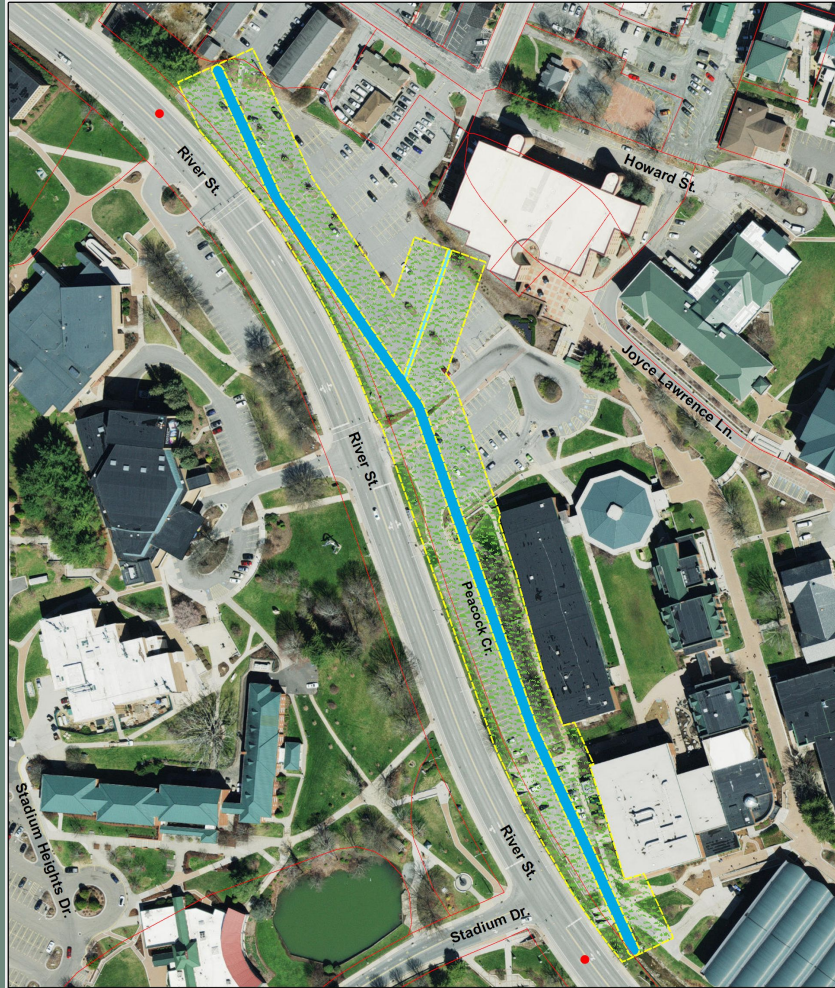






Boone is Purchasing Hybrid Police Vehicles









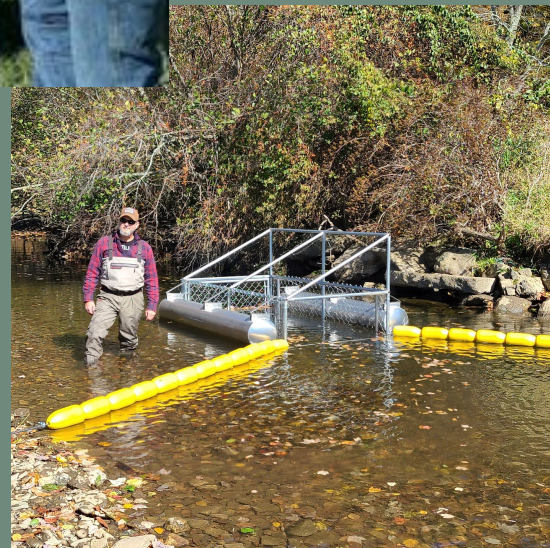
Boone Recycling, Plastic Reduction, & Composting





Sustainability Committee Buys Boone Lunch





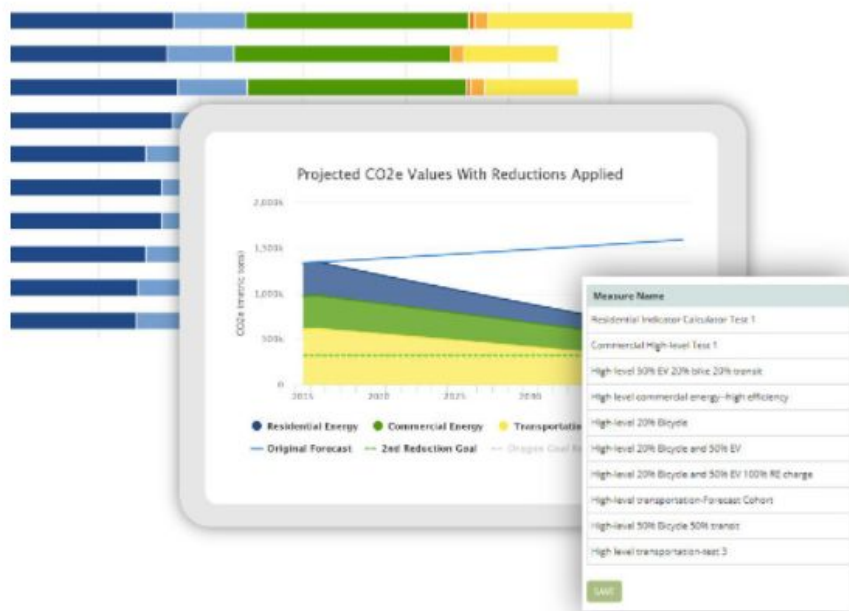


Sustainability Targets in Boone

[Why ICLEI?](#)[Tools](#)[Network](#)[Fee-Based Services](#)[Resources](#)[About](#)[Login](#)[Join ICLEI](#)

ClearPath

The leading online software platform for completing greenhouse gas inventories, forecasts, climate action plans, and monitoring at the community-wide or government-operations scales.

[Register](#)[Watch Video](#)

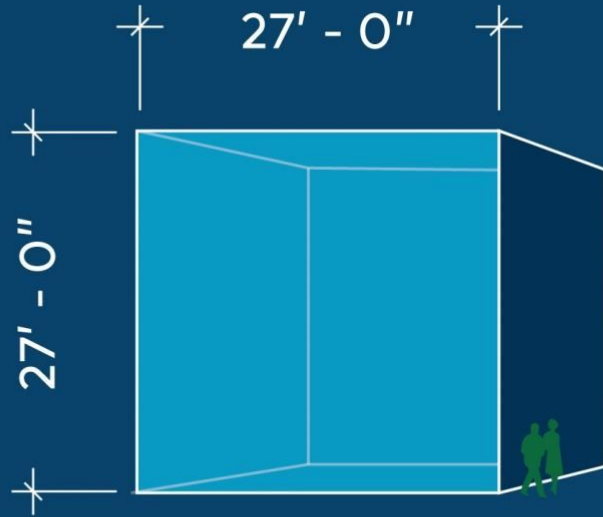
Electricity

In 2020 Boone used 7 GWh or 7,000,000 kWh of electricity/year

- 1.65 GWh are provided by NRLP
- 5.35 GWh are provided by BRE

Based on the current grid portfolio, that is 2,671 metric tons of CO₂ emission. That is the equivalent of 3,205 acres of deforestation/year. That is almost the size of Boone!





One metric ton of carbon dioxide would fill a cube 27 feet tall!
That's about the size of a two-story home, totaling more than 1,400 square feet.



Transportation

In FY 2019/2020, Boone's fleet drove 715,000 miles

- 52,000 gallons of gasoline
- 21,300 gallons of diesel

In FY 2019/2020, Boone's employees commuted 854,750 miles

- 53,421 gallons of gasoline

That results in 1,154 metric tons of CO₂ emissions. This is the equivalent of 1,384 acres of deforestation/year.



Summary

In 2020, Boone's GHG emissions from electricity is twice vehicle emissions

- 2,671 metric tons of CO₂ from electricity
- 1,154 metric tons of CO₂ from vehicles

That is a total of 3,825 metric tons of CO₂



5 Steps to Zero GHG Emission

1. Change Energy Consumed - move from fossil fuels to renewable sources
2. Take Control of Demand - consume energy during off-peak hours
3. Reduce Consumption - increase energy efficiency of all facilities
4. Generate Locally - increase local solar and geothermal resources
5. Purchase Offsets - a last resort



Current Progress

In February 2022, Boone secured electricity made from 100% renewable sources for municipal operations.

- NRLP will provide Boone with 1.65 GWh of hydropower (=~1 MW of solar)
- BRE will provide Boone with 5.35 GWh of solar (=~3.5 MW of solar)

Boone's municipal electricity comes from:

- ~75% solar
- ~25% hydropower.



Other Opportunities & Actions

- Increase public adoption of NRLP's Green Power Program
- Exploring a potential solar installation on town owned buildings and utility scale ground based installation
- Accelerate EV adoption
- Convert all fuel based heating systems in town facilities to electric
- Promote energy efficiency

