



**CITY OF HENDERSONVILLE**  
**ENVIRONMENTAL SUSTAINABILITY BOARD**  
Operations Center - Assembly Room | 305 Williams St. | Hendersonville NC  
28792

Thursday, December 15, 2022 – 3:00 PM



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## AGENDA

**1. CALL TO ORDER**

A. Call to Order- *Kelly Pahle, Chairperson*

**2. APPROVAL OF AGENDA**

A. Approval of Agenda- *Kelly Pahle, Chairperson*

**3. APPROVAL OF MINUTES**

A. Approval of Minutes from October 20th, 2022- *Gracie Erwin, Staff Liaison*

B. Approval of Minutes from November 17th, 2022- *Gracie Erwin, Staff Liaison*

C. Green Expo Sub Committee Meeting Minutes- *Ann Twiggs, CoChair*

**4. PUBLIC COMMENT**

A. Public Comment - *Allotted time, 15 minutes*

**5. OLD BUSINESS**

A. Revival of Sustainability Plan Subcommittee- *Will Garvey, board member*

B. Trash Trout Update- *Virginia Tegel, board member*

**6. SUBCOMMITTEE UPDATES**

A. Bee City- *Will Garvey, Board Member*

B. Recycling and Plastics - *Geri Conley, Board Member*

C. Green Expo- *Ann Twiggs, Board Member*

D. City Council- *Lyndsey Simson, Council Woman*

**7. NEW BUSINESS**

A. Lighting Ordinance- *Will Garvey, Board Member*

B. Response to Article on City's need for a Climate Action Plan- *Kelly Pahle, Chairperson*

## 8. ADJOURNMENT

*The City of Hendersonville is committed to providing accessible facilities, programs and services for all people in compliance with the Americans with Disabilities Act (ADA). Should you need assistance or an accommodation for this meeting please contact the City Clerk no later than 24 hours prior to the meeting at 697-3005.*



**CITY OF HENDERSONVILLE**  
**ENVIRONMENTAL SUSTAINABILITY BOARD**  
 Operations Center - Assembly Room | 305 Williams St. | Hendersonville NC  
 28792  
 Thursday, October 20, 2022 – 3:00 PM



## MINUTES

### 1. CALL TO ORDER

A. Roll Call- *Kelly Pahle, Chairperson*

Nance Grady was also present

### APPROVAL OF AGENDA

2. Approval of Agenda- *Kelly Pahle, Chairperson*

approved

### APPROVAL OF MINUTES

3. Approval of Minutes from 09\_15\_2022- *Kelly Pahle- Chairperson*

approved

### PRESENTATIONS

4. Alliance Auto Gas- *Happy Fox and Stuart Weidie, Alliance Autogas*

Presentation Notes-

2 dollars less per gal, odorless and colorless propane delivery, need multiple sources

96% of consumption requires fossil fuels

d- fossil, coal and diesel- need to get rid of

c- fossils- natural gas and propane

alliances role focuses on putting propane into commercial vehicles

5,800 to convert a vehicle

### PUBLIC COMMENT

5. Public Comment (*allotted time, 15 minutes*)

**OLD BUSINESS**

6. Update on membership with ICLEI- *Kelly Pahle, Chairperson*

7. Community Garden Follow Up- *Guest, Crystal Cauley*

Set up a Sullivan park bird sanctuary

8 bird boxes and feeding stations

supports caregiver of mother earth

city has an account for Jackson park

8. EV Slide deck Approval- *Will Garvey, Board member*

#1 Thanks for allowing us to present our proposal to you today! My name is \_\_\_\_\_ and I am representing the ESB today. We are here with a proposal to support the installation of electric vehicle charging infrastructure in Hendersonville.

#2 To start things off - a bit of technical background – EVSE or Electric Vehicle Supply Equipment is a formal building code term that applies to the installation of the infrastructure necessary to support electric vehicle charging. EV capable is the most basic approach and includes installation of the raceway (usually steel or PVC conduit) to a likely future destination for charging equipment – it also includes a dedicated circuit at the electrical panel for future use. EV – Ready is basically the same approach but with wiring pulled in the conduit and a “live” 240 volt charging outlet at the terminus. EV Installed is the same approach with the exception that a working commercial EV charging station is installed at the terminus – this is the situation with the EV chargers at City parking lots.

#3 And very briefly – there are three charging levels for EV supply equipment. The first, LEVEL 1, is simply a 120 volt outlet such as where one might plug in a lamp – this approach is very basic and provides minimal charging speed – it is not part of the ESB recommendation. The second level is LEVEL 2 charging which is usually a commercial EV charger that provides “medium: charging speed – it is the most common home or work charging approach and can fully replenish an EV battery in generally 5-8 hours – the equivalent of overnight or a workday and is the current framework used in City Parking lots. LEVEL 3 or DC FAST charging is high voltage/high speed and is commonly found at commercial EV charging stations such as TESLA and ELECTRIFY AMERICA superchargers. The ESB recommendation would be for the installation of LEVEL 2 charging infrastructure for the City and in new development if the builder elected to pursue a full EV Installed approach.

#4 As you will recall, in December of last year the ESB prepared a draft Sustainability Plan that suggested that EVSE be required at all new development. At that time it was unclear whether such an approach was feasible. After researching implementation in other cities, we believe it is now appropriate to promote the concept in Hendersonville with a small adjustment.

#5 The ESB is now recommending that the City Council adopt a resolution that will promote (not require) Electric Vehicle Supply Equipment at new development in Hendersonville. The resolution would also require EVSE at new and renovated City Construction to support future City use of EVs. We believe this approach supports your continuing commitment to sustainability while providing flexibility to the development community and preparing City Public Works for future electrification opportunities.

#6 So why now? EVs are becoming more common. Automakers are increasing EV production and some will fully phase out the use of internal combustion engines by 2035 – far sooner than the life of residential development now under construction. Over 80% of EV owners charge their vehicles at home or work when they are not travelling long distances and this approach will future proof planned development in a cost effective way. In addition, and probably the biggest driver, significant funding has been allocated for the construction of EV charging infrastructure across North Carolina. This in turn, will help address the “range anxiety” that causes some new car buyers to avoid EVs. These funds are likely to be managed like the VW Settlement funds which were available to a wide range of applicants including private sector developers. And for the City, EVs are a perfect choice for future fleet replacement due to mileage use and ability to charge overnight.

#7 And as we can see from this graph, EV registration trends in NC are increasing. As of July of this year, Henderson County has approximately 290 registered EVs. (190 PHEVs)

#8 When we prepared the draft sustainability recommendations, you requested that we look for other examples where the recommendations might have been pursued. In North Carolina, the City of Charlotte recently adopted a Unified Development Ordinance that, when implemented, will require EV Charging stations as part of new construction. We understand that other cities in North Carolina are also considering this approach.

#9 There are other cities in the Southeast that have already implemented EVSE **REQUIREMENTS**. Clearly Hendersonville is not Orlando or Atlanta and we show you this only to show that the concept is not necessarily a new one and that the approach of using a certain percentage of parking space to guide the design is fairly consistent.

#10 Since the resolution would take the form of a recommendation, we have been asked what might be provided as incentives for the development community to pursue EVSE installation. While we would look to the Planning Division for the best approach, other cities have taken the approach of providing incentives such as expedited permitting and adjustments to density, parking and landscape requirements to promote EV infrastructure.

#11 And finally, if you approve a resolution supporting EVSE implementation on a voluntary basis, the ESB will work with City staff to prepare materials that can be provided to the development community. Further, we are committed to assist the City in researching the installation of infrastructure necessary to capitalize on the benefits of electric vehicles to the city’s fleet, including preparing draft grant applications.

#12 Thank you!

Will present EV proposal at NOV 3rd City council

9. parklet - sub pod bike rack- *Virginia Tegel, Board Member*

## **SUB COMMITTEE UPDATES**

10. Earth Day Subcommittee - Setup meeting dates and times- *Ann Twiggs, CoChair*

11. Bee City - *Will Garvey, Board Member*

12. Recycling and Plastics- *Geri Conley / Nance Grady Mountain True Contact*

13. City Council - *Lyndsey Simpson, Council Woman*

## **NEW BUSINESS**

14. Invite Southeast Sustainability Directors Network for November -*Will Garvey, Board Member*

15. Timing of Agenda Items- *Will Garvey, Board Member*

## **ADJOURNMENT**

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**CITY OF HENDERSONVILLE**  
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**Thursday, November 17, 2022 – 3:00 PM**

## MINUTES

### 1. CALL TO ORDER

A. Call to Order- *Kelly Pahle, Chairperson*

Mary Ellen is online, Grady is online

### APPROVAL OF AGENDA

2. Approval of Agenda- *Kelly Pahle, Chairperson*

Amend Agenda to include public comment

### APPROVAL OF MINUTES

3. Approval of Minutes (Did anyone take any at the last meeting?) - *Gracie Erwin, Staff Liaison*

Got notes from Ann Twiggs. Next meeting review two sets of minutes

### PRESENTATIONS

4. Asheville Greenworks Presentation- *Eric Bradford, Guest Presenter*

200 projects a year

They started the trashtrout in hendo

75% of trash is stormwater driven

Design of the trash trout- focus on minimizing stream impairment

32 trash trouts, 10 local

clean out frequency is about 4 weeks, ~17.3 lbs dry weight excluding woody debris

display trashtrout and its findings at green expo

5. ICLEI- *Tom Herrod, Guest Presenter*

Operates in 5 pathways

Local Gov sustainability, decarbonization, community resilience, circular economy, resource management, nature and health, equity people centered

## OLD BUSINESS

6. Budget Allocation vote for community garden birdhouses- *Kelly Pahle, Chairperson*  
up to 300 to 2nd nature, everyone present voted yes.  
  
\*need to ask billing if we can donate, or get an itemized invoice?
7. EV Presentation re-cap and resolution draft- *Will Garvey, Board member*

## SUBCOMMITTEE UPDATES

8. Bee City- *Will Garvey, Board member*
9. Recycling and Plastics- *Geri Conley, Board Member*  
Added Saluda and hopefully Brevard to come soon
10. Green Expo- *Ann Twiggs, Board member*  
met with Jamie- application accepted, time to be 10-3
11. City Council- *Lyndsey Simson, Council Woman*  
Lyndsey not present; ESB manager position is posted.

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## ESB Earth Day/Green Expo Event Subcommittee Meeting Minutes 11/18/22

10:30 am

### Members:

Ann Twiggs, Chair Virginia Tegel  
Anthony Baltiero Geri Conley  
Pam Torlina  
BJ Ramer  
Carlos Ruiz de Quevedo  
Elle Travis  
Trinity Presbyterian Church Rep.\*  
Mountain True\*\*

\*\*Enrique Sanchez

\*Katie Cilluffo

**Statement of goal** - Celebrate and Promote Environmental Education, Inspire Action, Renew and expand commitments to protect our planet

### Welcome /Introductions:

The meeting was called to order at 10:35AM. Chair Ann Twiggs went over the goal of the subcommittee as listed above. The Chair asked for a volunteer to take minutes for the subcommittee meetings. ESB member, Anthony Baltiero, volunteered to take the minutes for this and subsequent subcommittee meetings.

A roll call was taken and brief introductions were given for the attending subcommittee members as follows:

**Virginia Tegel** representing the ESB

**Anthony Baltiero** representing the ESB and Blue Ridge Community College Library Director

**Pam Torlina** representing Conserving Carolina

**Katie Cilluffo** representing Earth Cary Ministry at Trinity Presbyterian Church with a background in performing arts

**BJ Ramer** representing the Aquarium & Shark Lab by Team ECCO and downtown businesses

**Geri Conley** representing the ESB

**Carlos Ruiz de Quevedo** representing Blue Ridge EV Club

**Elle Travis**, author and representing Caregivers of Mother Earth and multiple local environmental/sustainability efforts

**Enrique Sanchez** representing Earth Caring Ministry at Trinity Presbyterian Church  
**Ann Twiggs**, Subcommittee Chair and representing the ESB

### **Provide Meeting Times:**

After a brief discussion the subcommittee decided to meet on Friday mornings at 10:30AM at the City Operations Center (specific rooms dependent on availability). The group decided to meet **once in December on the 16th, twice in January on the 13th & 27th, twice in February on the 10th & 24th, thrice in March on the 10th, 24th and 31st and thrice in April on the 7th, 14th, and 21st (event held on the 22nd)**. The group agreed that some of the meetings can be held via Zoom to accommodate such a large subcommittee. Katie offered Trinity Church space as an alternative location, if needed.

Anthony offered space at the BRCC Library, as well. Carlos mentioned that he would be traveling and in Florida for the January meetings. Pam said that she won't be able to attend the December meeting.

### **Background info/Application**

A. Chair Twiggs provided background information for the event noting that the event is sponsored by the City of Hendersonville and the Environmental Sustainability Board. The ESB Board has a small budget and the Board decided to put some of the budget toward this event. **(note added by Chair Twiggs - City Council must formally approve the event at the 5:45 pm City Council meeting on Dec. 1st. )**

B. The event application was submitted to the Community Development Department City of Hendersonville, Downtown Division on Tuesday 11/15/2022 and the event time has been changed from 9:00AM - 2:00PM to 10:00AM - 3:00PM. The event will take place on Saturday, April 22nd 2023. The predominant location of the event is on Main Street from 4th Street to 6th Street. Chair Twiggs noted that the event could request an additional block of space, if needed. There will be EVs on 5th Street to the King Street parking garage. The group suggested using the City's restrooms, if possible.

C. The event is specifically for exhibitions and education. There are no sales at the event. There will not be any food trucks or stalls at the event, either. BJ noted that there will be plenty of eating options downtown during the event. Katie said to suggest to local restaurants to not give out any disposable service items during the event to promote sustainability. The conversation shifted to the idea of including a composting element to the event. Gerri noted that compost waste can only be disposed of at the proper facilities. Some groups were mentioned that may be able to come and pick up the compost waste, including Atlas Organics and Danny's Dumpster out of Asheville. Enrique suggested having composting bins outside of local downtown restaurants and businesses now as a way to promote the event and composting.

D. Car removal (by police) will take place 6:00AM -8:00AM on the day of the event. Exhibitor setup will follow from 8:00AM - 10:00AM leading into the start of the event.

E. Primary City contacts for the event include the Downtown Advisory Board via Downtown Manager, Jamie Carpenter, and Downtown Event Coordinator, Terry Jacobs.

### **List of partners/possible co-sponsors**

Chair Twiggs briefly discussed the following list of current sponsors and potential sponsors

- Conserving Carolina - Pam Torlina
- Mountain True - Enrique Sanchez/Nancy Diaz
- Earth Caring Ministry at Trinity Presbyterian Church - Creation Care Alliance - Enrique Sanchez/Cindy Ann Bowers, Katie Culluffo
- Caregivers of Mother Earth - Ellie Travis
- Team Ecco - Aquarium and Shark Lab - BJ Ramer
- Blue Ridge Car Club - Land of Sky, Carlos Ruiz de Quevedo
- BRCC - Anthony Baltiero

### Roles for subcommittee members

A lengthy discussion was had amongst the group regarding the roles for the subcommittee members.

Lead roles:

- A. **Exhibitors lead** - The Chair asked if Pam Tolina would take the exhibitor lead role. Pam agreed.
- B. **Entertainment lead** - Katie Culloffo (strong performing arts background) to manage lectures, musicians etc, emcee. **Enrique** suggested contacting local Asheville singer, John Perkins, about performing at the event. **Chair Twiggs** will assist with entertainment\lectures. BJ noted that the 500 block of Main Street is full of interactive fun for all ages.
- C. **Media Relations leads** - Pam Torlina & Katie Culloffo Katie asked if there was an advertising budget and noted that she can also help with graphic design for the event. The Chair said that there is a small budget for advertisement. It was mentioned that the event would need a simple informative website, linked through the City's website, and all of the pertinent social media outlets. It was also noted to be careful not to over advertise and the event be too big to handle. The **Chair said that she will consult with City staff** on the issues of a website and overall advertising.
- D. **Volunteers lead** - BJ Ramer will provide them for her portion of the event. Pam Torlina stated she had many volunteers to call on to assist her. Carlos noted that the Blue Ridge EV Club already has volunteers on 5th Street. **Virginia Tegel** volunteered to help Pam manage organizing the rest of the event volunteers. It was decided that volunteers should not be in charge of any EMT services and that professional EMT services need to be on site. **Chair Twiggs** will work with the City on this.
- E. **Main Street Business Contacts lead** -Elle Travis, Geri Conley and BJ Ramer. **Chair Twiggs** will ask Councilwoman Simpson to assist
- F. **Schematics lead** - Chair Twiggs - The group discussed creating a schematic for the event to get a better understanding of volunteer needs and available space for vendors/exhibitors.

### Exhibitors - Pam Torlina Overall Lead

- **EV** - Carlos will take the lead on EV exhibitors and wants to include other types of EVs including farm equipment and buses. Pam suggested that Carlos contact Steve O'Neill about a portable educational classroom that he built and to contact Earthshine Nature Programs out of Brevard as a general exhibitor.
- **Recycling & Plastics** - Geri will take the lead on exhibitors with help from Amy Schmidt from the County.

- **Eco Tour** – Virginia, Carlos & Enrique will take the lead on setting up an eco-tour for the event. Enrique suggested to do some sort of “passport” element to the tour where people receive a stamp or the like for each stop on the tour. Suggestions for the tour include the Green building on Church Street, homeowners with solar panels and to contact Stullar Power Solutions, and Sugar Hollow as exhibitors.
- **Compost exhibitor** - Katie discussed options including Compost Now out of Asheville. They would expand their services to Hendersonville with enough support shown. Virginia mentioned the ESB's efforts of creating a self-contained composting unit that could be on display at City locations.
- **Native Landscape/Rain Garden** - Elle will take the lead on.
- **Sustainable Agriculture** - Elle and Chair Twiggs will take the lead on exhibitors. Suggestions were made to contact Living Web Farms, Tower Gardens, and to explore permaculture, mushroom growing, and hydroponics.
- **Water Quality** exhibitors, BJ suggested displaying trash collected from the local Trash Trouts.
- **Fast Fashion** - Katie and Chair Twiggs will take the lead on exhibitors and attempt to organize a fashion show from donated/used clothing. Goodwill was mentioned.
- **Upcycle challenge** - Katie had an idea of creating an where contestants get a mystery upcycle item and have a limited amount of time to make a piece of art using the mystery item. There can also be an art show of upcycled items. It was suggested to reach out to the Boys & Girls club and Hendersonville Art League.

The Discussion concluded with a list of additional suggested exhibitors/groups to contact

- Bee City
  - Soil and Water Conservation Station
  - Greenworks
  - Mineral & Lapidary Museum
  - Tree Board
  - Homeschool Groups
  - Future Farmers of America (FFA)

Chair Twiggs suggested doing something to appeal to traditional farmers and to provide demos and talks before adjourning the meeting.

**Meeting Adjourned: 12:00PM**

Minutes prepared by Anthony Baltiero of the Hendersonville Environmental Sustainability Board Submitted 11/21/2022 at 1:00PM

Minutes condensed and arranged by Chair Twiggs