



ENVIRONMENTAL SUSTAINABILITY COMMITTEE

Thursday, December 12, 2019

7:00 P.M.

Town Hall, 2nd Floor Meeting Room

COMMITTEE MEMBERS PRESENT:
 Rob Darnell, Chair
 Robin Greenberg, Secretary
 Jennifer Kallay
 Suzy Veilleux, School Committee rep
 Julie Smith-Galvin, Town Council Rep
 Claire Moss, DPW Rep proxy
 Addie Festel, Student Liaison
 Cameron Sweeney, Student Liaison
 Myra Sessions
 Sophie Brown, Student Liaison

COMMITTEE MEMBERS ABSENT:
 Mary Hajjar, Vice Chair
 Liz Sheridan, Student Liaison

----- TOPICS OF DISCUSSION -----

Call to Order The meeting was called to order at 7:04 p.m.

Public Participation none

Approval of Minutes, November 14, 2019 J. Smith-Galvin made motion to accept the minutes with amendments for the November meeting, R. Darnell seconded. All approved.

Composting Opportunities Andrew Brousseau, partners and compost manager, and Colin Rose, Chief of Collection Operations, of Black Earth Compost to discuss their current services provided in Wakefield and potential for other services.

Current:

- Currently there are 121 weekly pick up for residential customers in Wakefield.
- Greenwood School has collection weekly. The school provide good quality compost material.
- The only commercial Wakefield client is Farmland Market.

Per state regulations under DEP, if a school, not district, generates 1 ton of food waste per week or more, they are required to compost. By fall 2020, pending revisions to regulations will reduce the minimum threshold to ½ ton per week and add ban on mattress and textile waste.

As of January 1, 2020, Black Earth will only accept biodegradable goods like bags, utensils, and food trays if they are certified by the Biodegradable Products Institute (BPI).

Other Communities/Events Services:

- For Manchester, MA, Black Earth services include managing the town's collection of food waste, collection of Christmas trees, and other compostable material. Manchester pays for town compost curb side, 30% of residents participate.
- Lexington is paying for bins for residents to assist in first costs. In schools, Green Teams student volunteer team oversee compost collection to reduce containments in the compost.
- Beverly subsidizes curbside compost collection via water bills.
- Boston has Project Oscar, a 24-hour community compost collection program.
- Charles River Regatta had large bins to collect food waste and compostable goods.

When an estimated 700 households compost, it equals approximately \$15K in town savings annually because it reduces the volume of waste collected.

If new customers can list their school when they sign up, the school can receive \$5 that goes to their compost costs.

Black Earth sell \$5/1 cu ft bag of compost to local organizations as fund raiser. The organizations often sell the bag \$10.

At elementary schools, Backyard Growers, offer school curriculum and programs. If you partner with them, Black Earth will offer free compost at the school.

Black Earth makes and sells raised garden beds.

Healthy Soils Initiation, advocating a bill on use of organic soil practices. Black Earth is looking for municipalities to designate an area(s) in town to follow organic soil practices as case studies. C. Moss will put Black Earth in touch with town's parks department.

Black Earth can collect from community gardens.

WEF Grant

WEF Grant application was accepted to fund composting and food rescue at the elementary schools. The program will start January 2, 2020. R. Darnell shared the presentation given to school to introduce the programs.

WPS Updates

S. Veilleux, with C. Moss and Andy, met with school facilities staff to discuss school waste collection and how to introduce recycling at middle school

knowing that collection contract need to be addressed Funding is available to be build the recycling bin for the Galvin. Composting at the GMS and WHS is tabled for short term while elementary schools start. S. Veillieux is looking to expand recycling at high school.

S. Veilleux met with social studies teacher, Jason Pavey, about the 8th grade civic projects. Students have already selected projects/topics for this year,. Individual students and team have a wide range of topics, many sustainability related. The high school civic project requirement will start next school year.

**Green
Communities
Guidelines**

J. Smith-Galvin presented how to become a Green Community. Achieving the status would allow the town to be eligible for state grant funding. With municipal utility company, there are some issues but status maybe achievable and future changes to the Green Community program may make it easier to for Wakefield to get it.

J. Smith-Galvin presented five criteria:

1. Zoning for renewable energy facilities, R&D, and related manufacturing.
2. Expediated permitting for those facilities.
3. Energy base lines, 20% energy use reduction in municipal facilities.
4. Only buy fuel efficient vehicle for town use, excludes emergency vehicles.
5. Adopt the state stretch code (780 CMR Appendix 115.AA).

ESC will continue to talk about how to seek Green Communities status.

**2020
Calendar**

An Earth Day event is being planned with e-waste collection, compost, and recycling drive on May 2nd.

ESC discussed starting a writing campaign to be sent to the Item and social media. The intent is for Wakefield residents to share “what sustainable means to them”.

**Solar Rooftop
Funding**

60% spent for current available funding has been allocated and it has been all for residential installations. The current funding is available until June 2020, a date set by state. WMGLD is seeking small commercial and municipal buildings for solar rooftop installations. They have solar calculator to look at payback. Feasibility uses Google Project Sunroof.

**WMGLD
Update**

WMGLD has put moratorium on new gas connections for multifamily units.

A video of the recent heat pump forum is viewable on WCAT’s website.

DPW Update

DPW is working to update Town policies (e.g. Master Agreement between the Town and DEP in order for the Town to receive state grant money and the Buy Recycled Policy and Memo in which all Town departments will buy recycled products when practicable) and waste surveys to become eligible for MassDEP grant programs. For the grants, C. Moss noted that programs like

the Town's Yard Waste Site, municipal support of compost programs, and available textile recycling centers give the municipality more points when evaluated for grants. Wakefield is looking to add more programs.

If Wakefield considers a compost program it will require an RFP/ Preferred Vendor for composting/ and public advertising.

The Town currently pays \$68.35/ ton for disposal. The next contract could be \$90-\$95/ ton.

KLA's draft of the Evaluation Framework has been distributed to town officials and departments. The framework matrix is to be used as a tool to evaluate projects from environmental standpoint. Comments are due to C. Moss by 12/17.

DPW is working on creating a dashboard with KLA. C. Moss is looking for topics and items to be listed for stories. Potential ideas: town's EV charging stations, food recovery program, and single use plastic bag ban. Examples of other municipalities' dashboards can be found at <https://kimlundgrenassociates.com/#what-we-do>

**December
Climate Strike**

A. Festel shared her experience at Friday's Boston Climate Strike which matched from Copley Square to the State House. The group joined with Sunrise Movement group. Sunrise Movement is a youth lead national organization, founded in Boston, that advocates politicians that support Green New Deal and other sustainability issues. They create politician scorecards looking at their stance and action on sustainability issues. Another local youth strike is scheduled for April 22, 2020, on Earth Day.

**Community
Garden Info
Session**

There will be a Community Garden information session on December 17, 2020. Meeting will be focused on location of the community garden.

**Sustainable
Wakefield
open house**

On Saturday, December from 2-4 pm, Sustainable Wakefield is hosting an open house at WCAT studios.

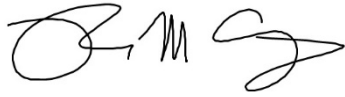
Next Meeting

The next regular Environmental Sustainability Committee meeting is January 9, 2019, at 7pm at Town Hall.

**Committee
Meeting
Adjournment**

R. Darnell motioned to adjourn. S. Veilleux seconded. Motion passed unanimously. Meeting adjourned at 9:05 pm.

Respectfully submitted,



Robin Greenberg, Secretary

Attachments: Sustainability ppt, Town of Wakefield Municipal Building solar study and map - DRAFT



Woodville School Sustainability

Rescue, Recycling and Compost



Education, Leadership, and Volunteerism



Reduction

Food Rescue



Recycling



Compost



Trash



It's a Team Effort



Sort That Stuff!



If You Don't Know Where It Goes, Check the Signs!

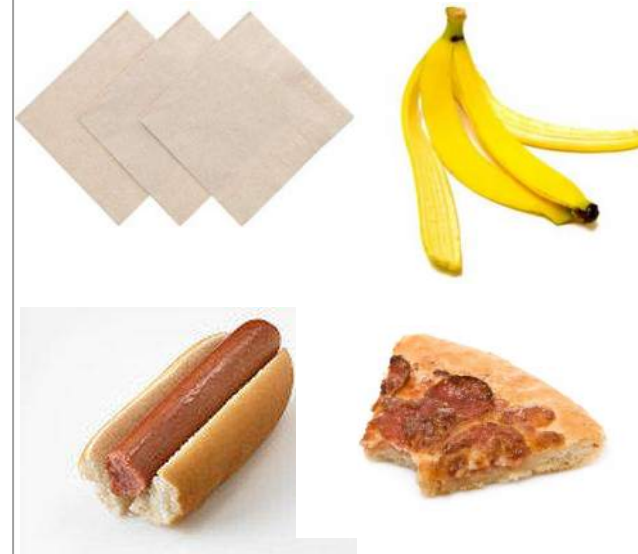
1



2



3



4



Food Rescued at your school for only ONE day!

| | Item | Count | % |
|---|--------------------------------|-------|------|
| 1 | Dried Fruit | 23 | 23% |
| 2 | Chips, Cookies, Crackers, Bars | 27 | 26% |
| 3 | Drinks | 24 | 24% |
| 4 | Yogurt/Cheese | 13 | 13% |
| 5 | Fresh Fruit | 9 | 9% |
| | All Other | 6 | 6% |
| | Total | 102 | 100% |



Note: Number may be high due to Pizza Friday when most kids order lunch.



Rescued Food Goes to Food Pantries



FoodLinkvolunteers deliver the food to more than 40 social service agencies serving people in need, including after school programs, programs for at-risk youth, low income housing facilities, homeless shelters, food pantries, veterans' programs, and senior centers.

Recycling

- Clean plastics
- Water bottles
- Clamshells
- Apple juice cups (lids off)



Composting

Composting is when you turn food scraps into new soil

Acceptable Food Scraps:

- Any unwrapped food items
- Dairy Products - cheese stick
- Meats and Bones
- pizza crust / sandwiches
- Seafood and Shells
- Fruit and Vegetables
- +
- Paper Napkins and Towels, Certified Compostable Serviceware





Thank You Woodville

DRAFT

| Data Source | WMGLD | WMGLD | WMGLD | WMGLD | WMGLD | DPW? | Rob's Sunroof | Google Sunroof | Estimate | Google Sunroof | Calculated (assumes 17.5 sq. ft. per panel) | Calculated (assumes 350w per panel) | Calculated | WMGLD Solar Calculator | WMGLD Solar Calculator | Calculated (assumes \$2.5 /W) | Calculated (assumes 26% of Total Project Costs) | Calculated (assumes 15% of Total Project Costs with a maximum of \$1,000) | Calculated (assumes \$1.2/W with a max system size of 25kW) | Calculated |
|---|-----------------|---------------------|---------------------------|-----------------------|------------------------|-------------------|------------------------------|------------------------------|---------------|--------------------------|---|-------------------------------------|-------------------------------|------------------------|---------------------------------|-------------------------------|---|---|---|------------------------|
| Data Field | Address | Electric Account(s) | Annual Electric Use (kWh) | Sold Back to Grid (%) | Energy Charge (\$/kWh) | Age of Roof (yrs) | Solar Availability (sq. ft.) | Solar Availability (sq. ft.) | Derate Factor | Solar Hours of Use (hrs) | Number of Panels | Nameplate System Size (kW, DC) | Annual Solar Production (kWh) | Payback (yrs) | 25-Yr Net Electric Savings (\$) | Total Project Costs | Federal Tax Credit (\$) | State Tax Credit (\$) | WMGLD Incentives (\$) | Town Contribution (\$) |
| William J. Lee Memorial Town Hall | 1 Lafayette st | | | | | | 1,200 | 5,708 | 21.02% | 1,381 | 69 | 24 | 33,144 | | | \$60,000 | \$15,600 | \$1,000 | \$28,800 | \$14,600 |
| Greenwood Fire Station | 3 oak st | | | | | | 1,344 | 3,964 | 33.91% | 1,406 | 77 | 27 | 37,793 | | | \$67,200 | \$17,472 | \$1,000 | \$30,000 | \$18,728 |
| Old Public Works Building | 27 North Ave | | | | | | 3,840 | 6,642 | 57.81% | 1,357 | 219 | 77 | 104,218 | | | \$192,000 | \$49,920 | \$1,000 | \$30,000 | \$111,080 |
| New Public Works Building | 35 North Ave | | | | | | 19,500 | 19,541 | 99.79% | 1,397 | 1,114 | 390 | 544,630 | | | \$975,000 | \$253,500 | \$1,000 | \$30,000 | \$690,500 |
| Old Warren School / Senior Center | 30 Converse st | | | | | | 420 | 5,250 | 8.00% | 1,506 | 24 | 8 | 12,650 | | | \$21,000 | \$5,460 | \$1,000 | \$10,080 | \$4,460 |
| Public Safety Building | 1 Union st | | | | | | 570 | 7,153 | 7.97% | 1,504 | 33 | 11 | 17,146 | | | \$28,500 | \$7,410 | \$1,000 | \$13,680 | \$6,410 |
| Old Forest Glade Cemetery Building | | | | | | | | | #DIV/0! | | 0 | 0 | 0 | | | \$0 | \$0 | \$0 | \$0 | \$0 |
| New Forest Glade Cemetery Building | | | | | | | | | #DIV/0! | | 0 | 0 | 0 | | | \$0 | \$0 | \$0 | \$0 | \$0 |
| Dolbeare School | 40 Lowell st | | | | | | 7,592 | 41,333 | 18.37% | 1,416 | 434 | 152 | 215,005 | | | \$379,600 | \$98,696 | \$1,000 | \$30,000 | \$249,904 |
| Doyle School | 11 Paul st | | | | | new | 4,600 | 15,469 | 29.74% | 1,447 | 283 | 92 | 133,124 | | | \$230,000 | \$59,800 | \$1,000 | \$30,000 | \$139,200 |
| Galvin Middle School | 525 Main st | | | | | | 7,715 | 45,402 | 16.99% | 1,453 | 441 | 154 | 224,198 | | | \$385,750 | \$100,295 | \$1,000 | \$30,000 | \$254,455 |
| Greenwood School | 1030 Main st | | | | | | 2,750 | 7,576 | 36.30% | 1,405 | 157 | 55 | 77,275 | | | \$137,500 | \$35,750 | \$1,000 | \$30,000 | \$70,750 |
| Wakefield High School | 60 Farm st | | | | | | | | #DIV/0! | | 0 | 0 | 0 | | | \$0 | \$0 | \$0 | \$0 | \$0 |
| Walton School | 16 Davidson rd | | | | | 2019 | 2,160 | 15,821 | 13.65% | 1,342 | 123 | 43 | 57,974 | | | \$108,000 | \$28,080 | \$1,000 | \$30,000 | \$48,920 |
| Yeuell School | | | | | | | | | #DIV/0! | | 0 | 0 | 0 | | | \$0 | \$0 | \$0 | \$0 | \$0 |
| Woodville School | 30 Farm st | | | | | | 5,020 | 22,005 | 22.81% | 1,384 | 287 | 100 | 138,964 | | | \$251,000 | \$65,260 | \$1,000 | \$30,000 | \$154,740 |
| Lincoln School | | | | | | | | | #DIV/0! | | 0 | 0 | 0 | | | \$0 | \$0 | \$0 | \$0 | \$0 |
| Lucius Beebe Memorial Library | 345 Main st | | | | | | 1,120 | 4,299 | 26.05% | 1,516 | 64 | 22 | 33,958 | | | \$56,000 | \$14,560 | \$1,000 | \$26,880 | \$13,560 |
| Americal Civic Center | 467 Main st | | | | | | 1,250 | 8,668 | 14.42% | 1,528 | 71 | 25 | 38,200 | | | \$62,500 | \$16,250 | \$1,000 | \$30,000 | \$15,250 |
| Broadway Water Treatment Facility, Building 1 | 108 Broadway | | | | | | 850 | 2,987 | 28.46% | 1,370 | 49 | 17 | 23,290 | | | \$42,500 | \$11,050 | \$1,000 | \$20,400 | \$10,050 |
| Broadway Water Treatment Facility, Building 2 | 123 Broadway | | | | | | 777 | 2,519 | 30.85% | 1,486 | 44 | 16 | 23,092 | | | \$38,850 | \$10,101 | \$1,000 | \$18,648 | \$9,101 |
| Broadway Water Treatment Facility, Building 3 | 123 Broadway | | | | | | 1,873 | 1,498 | 125.03% | 1,507 | 107 | 37 | 56,452 | | | \$93,650 | \$24,349 | \$1,000 | \$30,000 | \$38,301 |
| Boys and Girls Club, Building 1 | 474 Main Street | | | | | | 2,600 | 4,352 | 59.74% | 1,432 | 149 | 52 | 74,464 | | | \$130,000 | \$33,800 | \$1,000 | \$30,000 | \$65,200 |
| Boys and Girls Club, Building 2 | 464 Main Street | | | | | | 1,000 | 1,057 | 94.61% | 1,356 | 57 | 20 | 27,120 | | | \$50,000 | \$13,000 | \$1,000 | \$24,000 | \$12,000 |

roof location and sizes

https://drive.google.com/open?id=157x43nE9d9_1l1ZohG2ca2y4LqV3R6d&usp=sharing

Town of Wakefield_Municipal Building Solar DRAFT

solar roof

 All items

