

ENVIRONMENT AND ENERGY COMMISSION

Meeting Minutes
September 5, 2023, 7:00 p.m.

Village Hall, Room 102

Commission Members Present: Liz Lukehart (Chair), Ramona Blaber, Cassandra West, Lisa Boone, Carly Provost-Rizor

Commission Members Absent: Madisyn Burke, Tejas Shah, Darryl Baker, Emily Neumann

Staff Present: Marcella Bondie Keenan, Chief Sustainability Officer

Call to Order: The meeting was called to order by Chairperson Lukehart at 7:00 p.m.

1. **Approval of Agenda:** A Motion was made to approve the agenda, and it was unanimously approved with no revisions.
2. **Approval of Minutes:** A Motion was made to approve the previous meeting minutes, it was unanimously approved with no revisions.
3. **Public Comment:** There were three public comments read by Staff Liaison Bondie Keenan. The comments are attached with these minutes.
4. **Exterior Lighting Ordinances Presentation:** Village Zoning Administrator, Mike Bruce, presented on the Village's current exterior lighting regulations for private properties, which were adopted in 2017. Presentation slides are attached with these meeting minutes. Discussion included the following:
 - There is no state standard for exterior lighting regulations, so the Village created its own regulations.
 - There is no permit required for holiday lights.
 - Commissioner Blaber asked about the Village's regulations for a light that lights up a tree. Zoning Administrator Bruce replied that it would be regulated by the maximum 15-foot luminaire requirement and the maximum one foot candle at the lot line requirement. Dark sky concerns are not addressed in the ordinance.
5. **Compost Program Presentation:** Guest presenter, McLouis Robinet, presented on a proposed program to increase composting in Oak Park. McLouis Robinet is a member of Seniors Climate Action. McLouis Robinet explained the benefits of composting, including the potential emissions reductions and soil benefits. His proposed program is an "all-in" program, meaning that there is no opting in or out, compost carts are shared, and everyone pays the same fee. The

presentation also included example calculations for the number of carts needed, the fees to households, the Village's income and payment to the hauler, and the remainder in a Monitoring and Education (ME) Fund. McLouis Robinet proposed that the ME fund could hire a staff member to manage the compost program. Presentation slides are attached with these meeting minutes. Discussion included the following:

- Commissioner Blaber presented the idea that the ME Fund could be used to offset the composting cost for low-income households or incentivize proper composting.
- Commissioner Blaber and Chair Lukehart asked about how the compost cart locations would be chosen. McLouis Robinet proposed that the households that already have composting could host the shared cart if they are willing. Other households could decide amongst themselves where the cart would be hosted.
- McLouis Robinet proposed that yard waste could be placed in the compost carts.
- Staff Liaison Bondie Keenan explained that if the commercial recycling rate is unacceptably low, then the Village can require commercial recycling. Commercial buildings currently have the option to contract directly with LRS for composting at a rate that was negotiated with the Village.
- Under McLouis Robinet's proposed plan, multiunit dwellers would not pay for composting, but they would have access to using the shared bin.
- Commissioner Shah suggested that data should be collected to track the success of the program. Potential metrics are compost quantity and quantity of waste diverted from the landfill.
- The EEC can draft a memo to Trustee Buchanan with a recommendation and request for the item to be brought to the board.

6. **2023 EEC Work Plan Troubleshooting:** There were no questions or concerns about workplan items.
7. **New Business:** Commissioner Boone would like the Health Department to present on the status of implementation of the Single-Use Plastics ordinance. Commissioner Shah requested more information on electric vehicle charging at existing multifamily buildings, including permitting requirements and guidance for tenants that would like charging stations where they live.
8. **Adjourn:** At 8:14 p.m. a motion was made, seconded and unanimously approved to adjourn the meeting.

Zielinski, Abby

Subject: FW: Mandatory composting

I am urging the village to adopt a policy of mandatory composting. We are long past the time when we can afford to leave this as a voluntary activity. When organic matter is sent to a landfill, it turns into methane, and that is the last thing we need given the buildup of carbon dioxide in the atmosphere, and the general global warming we are all experiencing.

Mandatory composting for every business and every resident is essential if this village is going to keep the commitments that are recommended in the Climate Ready Oak Park plan. The board approved CROP over a year ago and we must speed up the adoption of new practices and new regulations that will help us reach our emissions reduction goals.

Pamela Tate

Oak park resident

Member, Oak Park Climate Action Network

Sent from my iPhone

Zielinski, Abby

Subject: FW: Public Comment for tonight

From: Laura Derks

Sent: Tuesday, September 5, 2023 5:10 PM

To: Sustainability <Sustainability@oak-park.us>

Subject: Public Comment for tonight

Caution! This message was sent from outside your organization.

Hello to members of the EEC- I am writing in support of developing a residential curbside program that will ensure there are no financial deterrents for any resident in Oak Park to participate in the food composting program. I applaud the idea of centralized drop off points on each block so that waste haulers don't have to drive as many miles in a route and that bins are full. My bin personally never is full, despite landscape and organic food material. On our block alone we have at least 10 bins, that are never full.

The city of Columbus recently submitted a grant proposal to develop a curbside composting program, advancing from a drop-off composting program, with a \$5 collection fee. They also plan to use the US EPA's Climate and Economic Justice Screening tool to identify if they are reaching households with limited means. Adopting a new policy that assures everyone can participate will help us achieve the Climate Ready Oak Park goals of WR01 and WR02 — Advancing Equity in Waste Reduction with the specific goal of Conducting an equity impact analysis, authentic community engagement, and user-centered design, for waste management and procurement policies funded by public dollars.

Thanks to Mac Robinet for continuing his advocacy for a composting for all initiative.

Thank you! Laura Derks

Zielinski, Abby

Subject: FW: composting

From: Wendy Greenhouse
Sent: Tuesday, September 5, 2023 10:54 AM
To: Sustainability <Sustainability@oak-park.us>
Subject: composting

Caution! This message was sent from outside your organization.

Comment to EEC members for tonight's meeting:

It's been many years since VOP instituted its Compostable program and the adoption rate is unacceptable. With a climate emergency, the time to adopt an **opt-out** composting policy is way overdue. That will retain choice for residents while encouraging more participation, which we must have to reach the GHG emissions reductions goals to which CROP commits us.

Residents must also be allowed to share accounts and containers. This not only makes participation more affordable, it reduces emissions from truck stops and clutter in alleys. And most of the time, an ordinary household does not need a container's full capacity; in exceptional cases, they can always put yard waste in their own container or a C bag.

Consider incentivizing participation by a fee structure that penalizes landfill waste compared with recyclable and compostable waste. Everyone needs to share the cost of reducing waste just as we all share the effects in emissions, land use, and air, water, and soil pollution.

Finally, please don't leave multi-unit buildings and businesses, especially food services, out of this picture. Restaurants, landlords, and condo associations can be required to create a plan for composting or make a good case for exemption. Without a requirement from VOP, few will act out of awareness and good will. VOP must find ways to minimize the costs of their transition to more sustainable waste disposal, possibly working with the major contractors and drawing on the expertise of Takeout 25.

Let's make this happen now. Thank you for your service.

Wendy Greenhouse
147 N Euclid Ave, #304

Wendy Greenhouse, PhD
wgreenhouse@gmail.com
<http://independent.academia.edu/WendyGreenhouse>

EXTERIOR LIGHTING

Section 9.2 Zoning Ordinance Regulations

MAXIMUM LIGHTING REGULATIONS

1. The maximum allowable foot-candle at any lot line is one foot-candle.
2. Additional lighting may be allowed based on evidence for the need for additional security through design review.
3. No glare onto adjacent properties is permitted.

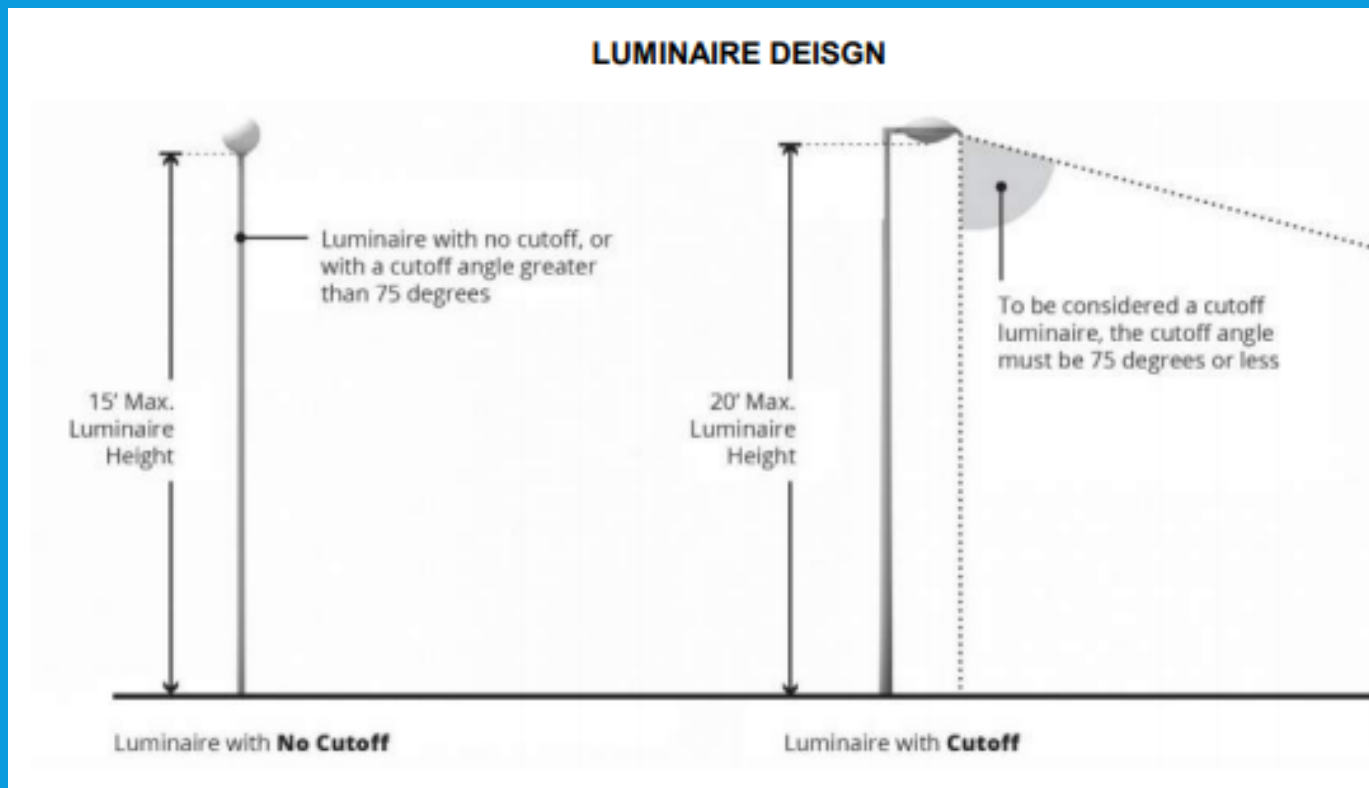
LUMINAIRE WITH CUT OFF STANDARDS

1. To be considered a cut off luminaire, the cut off angle must be 75 degrees or less.
2. The maximum total height of a cut off luminaire, either freestanding or attached to a structure, is 20 feet.
3. A cut off luminaire must be designed to completely shield the light source from an observer three and one-half feet above the ground at any point along an abutting lot line.

LUMINAIRE WITH NO CUT OFF STANDARDS

1. A luminaire is considered to have no cut off if it is unshielded or has a cut off angle greater than 75 degrees.
2. The maximum permitted total height of a luminaire with no cut off is 15 feet.

LUMINAIRE WITH CUTOFF VS. NO CUTOFF



EXCEPTION TO LIGHTING STANDARDS

1. Luminaires used for public roadway illumination are exempt.
2. All temporary emergency lighting required by public safety agencies, other emergency services, or construction are exempt.
3. In the OS and I Districts, lighting for outdoor recreation fields is permitted to the maximum building height of the district.
4. When temporary uses are allowed, approval of all lighting is required as part of the temporary use permit.

PROHIBITED LIGHTING

1. Flickering or flashing lights are prohibited.
2. Searchlights, laser source lights, or any similar high intensity lights are prohibited.

LIGHTING PLAN REQUIRED

1. A lighting plan is required for all non-residential uses and multi-family dwellings.
2. A lighting plan must include the following:
 - a. A plan showing all light pole locations, building-mounted lights, bollard lights, and all other lighting.
 - b. Specifications for luminaires and lamp types, and poles, including photographs or drawings of proposed light fixtures.
 - c. Pole, luminaire, and foundation details including pole height, height of building-mounted lights, mounting height, and height of the luminaire.
 - d. Elevations of the site including all structures and luminaires sufficient to determine the total cut off angle of all luminaires and their relationship to abutting parcels.
 - e. Photometric plans that show the foot-candle measurement at all lot lines.
 - f. Other information and data reasonably necessary to evaluate the required lighting plan.

USEFULL DEFINITIONS

- Cutoff: The point at which all light rays emitted by a lamp, light source or luminaire are generally eliminated (cutoff) at a specific angle above the ground, acknowledging that some light trespass may occur.
- Glare: Light emitting from a luminaire with an intensity great enough to reduce a viewers' ability to see, cause discomfort, and, in extreme cases, cause momentary blindness.
- Illumination System: The totality of the equipment installed to provide exterior lighting on a developed property. "Illumination system" includes all structures, canopy, pole, and ground-mounted luminaires, including all wiring, circuitry, and other devices installed to create exterior lighting.
- Lumen: A unit of luminous flux. One foot-candle is one lumen per square foot. For the purpose of this Ordinance, the lumen value is the initial lumen output rating of a lamp.
- Luminaire: A complete lighting unit consisting of a light source and all necessary mechanical, electrical, and decorative parts.
- Luminaire, Cutoff Type: A luminaire containing elements such as shields, reflectors, or refractor panels that direct and cutoff a direct view of the light source at a cutoff angle.

“ALL-IN” composting for Oak Park



Thanks to:

- ❖ **Village staff for our current program.**
- ❖ **The 2,000 households who support the program.**
- ❖ **“It’s Our Future” group for raising awareness about composting**
- ❖ **Special guest **Walter Willis**, Executive Director of the Solid Waste Agency of Lake County , Illinois (SWALCO).**

EEC meeting, April 18, 2021, 6 PM

EEC meeting, September 5, 2023, 7 PM, Room 102

Before we begin . . . background

At least **4,000 pounds of CO2** equivalent is emitted for every ton of food scraps we put in landfills. (ref 1)
[0.078 mt CH₄/short ton food scraps X 25 pounds CO₂e/ pound CH₄ X 2200 pounds/mt = 4,356 pounds CO₂e]

Every year, we send at least **10 million pounds** of food scraps to landfills. (ref 2, 3, 4)
[(54,508 persons - (2,000 hh X 2.39 persons/hh)] X **219 lb food scraps /person-year** = 10,906,857 lb food scraps/year = 5,000 tons/year]

Every year, the food scraps we send to landfills cause the emission of at least **20 million pounds of CO₂e**.

(4,000 lb CO₂e/ton of food scraps X 10,000,000 lb food scraps /year ÷ 2,000 lb/ton = 20,000,000 lb/year = 10,000 tons/year)

Note: (hh is households, lb is pounds, CO₂e is CO₂ equivalent)

References

1. *U.S. Community Protocol for Accounting and Reporting of Greenhouse Gas Emissions , Appendix E: Solid Waste Emissions, Activities and Sources, Version 1.1.* page 34. Developed by ICLEI (The International Council for Local Environmental Initiatives) – Local Government for Sustainable USA. (July 2013). Retrieved from <https://static1.squarespace.com/static/5d1e51dd2a98da000183bc20/t/5db5c0dc2ca7a63a6d56cfcb/1572192478010/Appendix+E+-+Solid+Waste+Emission+Activities>
2. *Food Waste FAQs.* Page 2. U.S. Department of Agriculture. Retrieved (1-20 -2022) from <https://www.usda.gov/foodwaste/faqs#:~:text=In%20the%20United%20States%2C%20food,worth%20of%20food%20in%202010.>
3. *Population Estimates, July 1, 2021, (V22021).* Quick Facts, Oak Park Village, Illinois. United States Census Bureau. Retrieved (1-20-2022) from <https://www.usda.gov/foodwaste/faqs#:~:text=In%20the%20United%20States%2C%20food,worth%20of%20food%20in%202010.>
4. *Food Waste ion America in 2022, Statistics + Facts.* Retrieved (1-20-20223) from <https://www.rubicon.com/blog/food-waste-facts/>

10,000 tons of CO₂e per year

From Oak Park's disposal of food scraps in landfills

Is composting worth doing?

- Reduce emissions. Quantifiable.
- Creates a nutrient-rich soil amendment etc.
- **The psychology of accomplishing something together.**
If we can do the simple things well, we have a better chance of doing the hard things.
- Composting is a service the Village should provide.

What is an All-IN program?

- No opt-in
- No opt-out
- No one “owns” a compost cart.
- Everyone has access to a compost container
(Within a block of their residence).
- Everyone pays the same “small” fee .

Scale of program

Have about 20,000 households, but . . .

9,000 households in buildings with more than five units are excluded.

11,000 households in buildings with five or fewer units are included.

(2,000 with compost carts, about 9,000 without compost carts.)

Current cost per household for refuse collection*:

Without compost cart . . (\$29.06 /month landfill)	\$29/month	\$350/year
With compost cart (\$29.06/month + 15.68/month)	\$45/month	\$540/year

Fundamental Goal

Goal is to provide every household with easy access to a compost container.

But no one owns a container.

* For 96-gallon carts. Costs are approximate.

How many containers are needed to do that for 11,000 households?



- Assume that the average household produces 30 gallons of food scraps per week. (six five-gallon buckets!)
- **If use 96-gallon compost cart**
- One cart could serve at least 3 households.
- Need **3,666 carts** for 11,000 households.
(11,000 hh ÷ 3 hh/cart = 3,667 carts)
Assume need 3,300 carts

Used for drop-off

A robust **Monitoring and Education** component would be essential to make this work.

Funds for Monitoring and Education (ME fund) is included in our analysis.

Use a spreadsheet to find the optimal cost per household for **3,300 compost carts**.

Assumptions:

Fixed

- 11,000 paying households
- Carts cost \$15/month (\$180/year)

Variable

- Household cost of \$1 to \$15 per month
- ME fund of \$1,000 to \$200,000 per year

Spreadsheet



Oak Park ALL-IN Composting

Number of households = 11,000 Hauler annual charge per cart = \$180

Household cost per month	Household cost per year	Village income per year	Village pay hauler per year	ME fund per year	Number of carts
\$ 1.00	\$ 12.00	\$ 132,000	\$ 131,000	\$ 1,000	728
\$ 2.00	\$ 24.00	\$ 264,000	\$ 263,000	\$ 1,000	1461
\$ 3.00	\$ 36.00	\$ 396,000	\$ 395,000	\$ 1,000	2194
\$ 4.00	\$ 48.00	\$ 528,000	\$ 527,000	\$ 1,000	2928
\$ 5.00	\$ 60.00	\$ 660,000	\$ 659,000	\$ 1,000	3661
\$ 6.00	\$ 72.00	\$ 792,000	\$ 791,000	\$ 1,000	4394
\$ 7.00	\$ 84.00	\$ 924,000	\$ 923,000	\$ 1,000	5128
\$ 8.00	\$ 96.00	\$ 1,056,000	\$ 1,055,000	\$ 1,000	5861
\$ 9.00	\$ 108.00	\$ 1,188,000	\$ 1,187,000	\$ 1,000	6594
\$ 10.00	\$ 120.00	\$ 1,320,000	\$ 1,319,000	\$ 1,000	7328
\$ 11.00	\$ 132.00	\$ 1,452,000	\$ 1,451,000	\$ 1,000	8061
\$ 12.00	\$ 144.00	\$ 1,584,000	\$ 1,583,000	\$ 1,000	8794
\$ 13.00	\$ 156.00	\$ 1,716,000	\$ 1,715,000	\$ 1,000	9528
\$ 14.00	\$ 168.00	\$ 1,848,000	\$ 1,847,000	\$ 1,000	10261
\$ 15.00	\$ 180.00	\$ 1,980,000	\$ 1,979,000	\$ 1,000	10994

SS # 1

Number of households = 11,000

Hauler annual charge per cart = \$180

Household cost per month	Household cost per year	Village income per year	Village pay hauler per year	ME fund per year	Number of carts
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\$ 4.00	\$ 48.00	\$ 528,000	\$ 527,000	\$ 1,000	2928
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\$ 5.00	\$ 60.00	\$ 660,000	\$ 659,000	\$ 1,000	3661
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\$4.51

3,300

Number of households = 11,000

Hauler annual charge per cart = \$180

Household cost per month	Household cost per year	Village income per year	Village pay hauler per year	ME fund per year	Number of carts
\$ 1.00	\$ 12.00	\$ 132,000	\$ 127,000	\$ 5,000	706
\$ 2.00	\$ 24.00	\$ 264,000	\$ 259,000	\$ 5,000	1439
\$ 3.00	\$ 36.00	\$ 396,000	\$ 391,000	\$ 5,000	2172
\$ 4.00	\$ 48.00	\$ 528,000	\$ 523,000	\$ 5,000	2906
\$ 5.00	\$ 60.00	\$ 660,000	\$ 655,000	\$ 5,000	3639
\$ 6.00	\$ 72.00	\$ 792,000	\$ 787,000	\$ 5,000	4372
\$ 7.00	\$ 84.00	\$ 924,000	\$ 919,000	\$ 5,000	5106
\$ 8.00	\$ 96.00	\$ 1,056,000	\$ 1,051,000	\$ 5,000	5839
\$ 9.00	\$ 108.00	\$ 1,188,000	\$ 1,183,000	\$ 5,000	6572
\$ 10.00	\$ 120.00	\$ 1,320,000	\$ 1,315,000	\$ 5,000	7306
\$ 11.00	\$ 132.00	\$ 1,452,000	\$ 1,447,000	\$ 5,000	8039
\$ 12.00	\$ 144.00	\$ 1,584,000	\$ 1,579,000	\$ 5,000	8772
\$ 13.00	\$ 156.00	\$ 1,716,000	\$ 1,711,000	\$ 5,000	9506
\$ 14.00	\$ 168.00	\$ 1,848,000	\$ 1,843,000	\$ 5,000	10239
\$ 15.00	\$ 180.00	\$ 1,980,000	\$ 1,975,000	\$ 5,000	10972

SS # 2

Household cost per month		Household cost per year		Village income per year		Village pay hauler per year		ME fund per year		Number of carts	
\$ 1.00	\$ 12.00	\$ 132,000	\$ 112,000	\$ 20,000	622						
\$ 2.00	\$ 24.00	\$ 264,000	\$ 244,000	\$ 20,000	1356						
\$ 3.00	\$ 36.00	\$ 396,000	\$ 376,000	\$ 20,000	2089						
\$ 4.00	\$ 48.00	\$ 528,000	\$ 508,000	\$ 20,000	2822						
\$ 5.00	\$ 60.00	\$ 660,000	\$ 640,000	\$ 20,000	3556						
\$ 6.00	\$ 72.00	\$ 792,000	\$ 772,000	\$ 20,000	4289						
\$ 7.00	\$ 84.00	\$ 924,000	\$ 904,000	\$ 20,000	5022						
\$ 8.00	\$ 96.00	\$ 1,056,000	\$ 1,036,000	\$ 20,000	5756						
\$ 9.00	\$ 108.00	\$ 1,188,000	\$ 1,168,000	\$ 20,000	6489						
\$ 10.00	\$ 120.00	\$ 1,320,000	\$ 1,300,000	\$ 20,000	7222						
\$ 11.00	\$ 132.00	\$ 1,452,000	\$ 1,432,000	\$ 20,000	7956						
\$ 12.00	\$ 144.00	\$ 1,584,000	\$ 1,564,000	\$ 20,000	8689						
\$ 13.00	\$ 156.00	\$ 1,716,000	\$ 1,696,000	\$ 20,000	9422						
\$ 14.00	\$ 168.00	\$ 1,848,000	\$ 1,828,000	\$ 20,000	10156						
\$ 15.00	\$ 180.00	\$ 1,980,000	\$ 1,960,000	\$ 20,000	10889						

Number of households = 11,000 Hauler annual charge per cart = \$180

SS # 3

Number of households = 11,000

Hauler annual charge per cart = \$180

Household cost per month	Household cost per year	Village income per year	Village pay hauler per year	ME fund per year	Number of carts
\$ 1.00	\$ 12.00	\$ 132,000	\$ 92,000	\$ 40,000	511
\$ 2.00	\$ 24.00	\$ 264,000	\$ 224,000	\$ 40,000	1244
\$ 3.00	\$ 36.00	\$ 396,000	\$ 356,000	\$ 40,000	1978
\$ 4.00	\$ 48.00	\$ 528,000	\$ 488,000	\$ 40,000	2711
\$ 5.00	\$ 60.00	\$ 660,000	\$ 620,000	\$ 40,000	3444
\$ 6.00	\$ 72.00	\$ 792,000	\$ 752,000	\$ 40,000	4178
\$ 7.00	\$ 84.00	\$ 924,000	\$ 884,000	\$ 40,000	4911
\$ 8.00	\$ 96.00	\$ 1,056,000	\$ 1,016,000	\$ 40,000	5644
\$ 9.00	\$ 108.00	\$ 1,188,000	\$ 1,148,000	\$ 40,000	6378
\$ 10.00	\$ 120.00	\$ 1,320,000	\$ 1,280,000	\$ 40,000	7111
\$ 11.00	\$ 132.00	\$ 1,452,000	\$ 1,412,000	\$ 40,000	7844
\$ 12.00	\$ 144.00	\$ 1,584,000	\$ 1,544,000	\$ 40,000	8578
\$ 13.00	\$ 156.00	\$ 1,716,000	\$ 1,676,000	\$ 40,000	9311
\$ 14.00	\$ 168.00	\$ 1,848,000	\$ 1,808,000	\$ 40,000	10044
\$ 15.00	\$ 180.00	\$ 1,980,000	\$ 1,940,000	\$ 40,000	10778

SS # 4

Number of households = 11,000

Hauler annual charge per cart = \$180

Household cost per month	Household cost per year	Village income per year	Village pay hauler per year	ME fund per year	Number of carts
\$ 1.00	\$ 12.00	\$ 132,000	\$ 72,000	\$ 60,000	400
\$ 2.00	\$ 24.00	\$ 264,000	\$ 204,000	\$ 60,000	1133
\$ 3.00	\$ 36.00	\$ 396,000	\$ 336,000	\$ 60,000	1867
\$ 4.00	\$ 48.00	\$ 528,000	\$ 468,000	\$ 60,000	2600
\$ 5.00	\$ 60.00	\$ 660,000	\$ 600,000	\$ 60,000	3333
\$ 6.00	\$ 72.00	\$ 792,000	\$ 732,000	\$ 60,000	4067
\$ 7.00	\$ 84.00	\$ 924,000	\$ 864,000	\$ 60,000	4800
\$ 8.00	\$ 96.00	\$ 1,056,000	\$ 996,000	\$ 60,000	5533
\$ 9.00	\$ 108.00	\$ 1,188,000	\$ 1,128,000	\$ 60,000	6267
\$ 10.00	\$ 120.00	\$ 1,320,000	\$ 1,260,000	\$ 60,000	7000
\$ 11.00	\$ 132.00	\$ 1,452,000	\$ 1,392,000	\$ 60,000	7733
\$ 12.00	\$ 144.00	\$ 1,584,000	\$ 1,524,000	\$ 60,000	8467
\$ 13.00	\$ 156.00	\$ 1,716,000	\$ 1,656,000	\$ 60,000	9200
\$ 14.00	\$ 168.00	\$ 1,848,000	\$ 1,788,000	\$ 60,000	9933
\$ 15.00	\$ 180.00	\$ 1,980,000	\$ 1,920,000	\$ 60,000	10667

SS # 5

Number of households = 11,000

Hauler annual charge per cart = \$180

Household cost per month	Household cost per year	Village income per year	Village pay hauler per year	ME fund per year	Number of carts
\$ 1.00	\$ 12.00	\$ 132,000	\$ 52,000	\$ 80,000	289
\$ 2.00	\$ 24.00	\$ 264,000	\$ 184,000	\$ 80,000	1022
\$ 3.00	\$ 36.00	\$ 396,000	\$ 316,000	\$ 80,000	1756
\$ 4.00	\$ 48.00	\$ 528,000	\$ 448,000	\$ 80,000	2489
\$ 5.00	\$ 60.00	\$ 660,000	\$ 580,000	\$ 80,000	3222
\$ 6.00	\$ 72.00	\$ 792,000	\$ 712,000	\$ 80,000	3956
\$ 7.00	\$ 84.00	\$ 924,000	\$ 844,000	\$ 80,000	4689
\$ 8.00	\$ 96.00	\$ 1,056,000	\$ 976,000	\$ 80,000	5422
\$ 9.00	\$ 108.00	\$ 1,188,000	\$ 1,108,000	\$ 80,000	6156
\$ 11.00	\$ 132.00	\$ 1,452,000	\$ 1,372,000	\$ 80,000	7622
\$ 12.00	\$ 144.00	\$ 1,584,000	\$ 1,504,000	\$ 80,000	8356
\$ 13.00	\$ 156.00	\$ 1,716,000	\$ 1,636,000	\$ 80,000	9089
\$ 14.00	\$ 168.00	\$ 1,848,000	\$ 1,768,000	\$ 80,000	9822
\$ 15.00	\$ 180.00	\$ 1,980,000	\$ 1,900,000	\$ 80,000	10556

SS # 6

Number of households = 11,000

Hauler annual charge per cart = \$180

Household cost per month	Household cost per year	Village income per year	Village pay hauler per year	ME fund per year	Number of carts
\$ 1.00	\$ 12.00	\$ 132,000	\$ 32,000	\$ 100,000	178
\$ 2.00	\$ 24.00	\$ 264,000	\$ 164,000	\$ 100,000	911
\$ 3.00	\$ 36.00	\$ 396,000	\$ 296,000	\$ 100,000	1644
\$ 4.00	\$ 48.00	\$ 528,000	\$ 428,000	\$ 100,000	2378
\$ 5.00	\$ 60.00	\$ 660,000	\$ 560,000	\$ 100,000	3111
\$ 6.00	\$ 72.00	\$ 792,000	\$ 692,000	\$ 100,000	3844
\$ 7.00	\$ 84.00	\$ 924,000	\$ 824,000	\$ 100,000	4578
\$ 8.00	\$ 96.00	\$ 1,056,000	\$ 956,000	\$ 100,000	5311
\$ 9.00	\$ 108.00	\$ 1,188,000	\$ 1,088,000	\$ 100,000	6044
\$ 10.00	\$ 120.00	\$ 1,320,000	\$ 1,220,000	\$ 100,000	6778
\$ 11.00	\$ 132.00	\$ 1,452,000	\$ 1,352,000	\$ 100,000	7511
\$ 12.00	\$ 144.00	\$ 1,584,000	\$ 1,484,000	\$ 100,000	8244
\$ 13.00	\$ 156.00	\$ 1,716,000	\$ 1,616,000	\$ 100,000	8978
\$ 14.00	\$ 168.00	\$ 1,848,000	\$ 1,748,000	\$ 100,000	9711
\$ 15.00	\$ 180.00	\$ 1,980,000	\$ 1,880,000	\$ 100,000	10444

SS # 7

Number of households = 11,000

Hauler annual charge per cart = \$180

Household cost per month	Household cost per year	Village income per year	Village pay hauler per year	ME fund per year	Number of carts
\$ 1.00	\$ 12.00	\$ 132,000	\$ 12,000	\$ 120,000	67
\$ 2.00	\$ 24.00	\$ 264,000	\$ 144,000	\$ 120,000	800
\$ 3.00	\$ 36.00	\$ 396,000	\$ 276,000	\$ 120,000	1533
\$ 4.00	\$ 48.00	\$ 528,000	\$ 408,000	\$ 120,000	2267
\$ 5.00	\$ 60.00	\$ 660,000	\$ 540,000	\$ 120,000	3000
\$ 6.00	\$ 72.00	\$ 792,000	\$ 672,000	\$ 120,000	3733
\$ 7.00	\$ 84.00	\$ 924,000	\$ 804,000	\$ 120,000	4467
\$ 8.00	\$ 96.00	\$ 1,056,000	\$ 936,000	\$ 120,000	5200
\$ 9.00	\$ 108.00	\$ 1,188,000	\$ 1,068,000	\$ 120,000	5933
\$ 11.00	\$ 132.00	\$ 1,452,000	\$ 1,332,000	\$ 120,000	7400
\$ 12.00	\$ 144.00	\$ 1,584,000	\$ 1,464,000	\$ 120,000	8133
\$ 13.00	\$ 156.00	\$ 1,716,000	\$ 1,596,000	\$ 120,000	8867
\$ 14.00	\$ 168.00	\$ 1,848,000	\$ 1,728,000	\$ 120,000	9600
\$ 15.00	\$ 180.00	\$ 1,980,000	\$ 1,860,000	\$ 120,000	10333

SS # 8

Number of households = 11,000

Hauler annual charge per cart = \$180

Household cost per month	Household cost per year	Village income per year	Village pay hauler per year	ME fund per year	Number of carts
\$ 1.00	\$ 12.00	\$ 132,000	\$ (48,000)	\$ 180,000	-267
\$ 2.00	\$ 24.00	\$ 264,000	\$ 84,000	\$ 180,000	467
\$ 3.00	\$ 36.00	\$ 396,000	\$ 216,000	\$ 180,000	1200
\$ 4.00	\$ 48.00	\$ 528,000	\$ 348,000	\$ 180,000	1933
\$ 5.00	\$ 60.00	\$ 660,000	\$ 480,000	\$ 180,000	2667
\$ 6.00	\$ 72.00	\$ 792,000	\$ 612,000	\$ 180,000	3400
\$ 7.00	\$ 84.00	\$ 924,000	\$ 744,000	\$ 180,000	4133
\$ 8.00	\$ 96.00	\$ 1,056,000	\$ 876,000	\$ 180,000	4867
\$ 9.00	\$ 108.00	\$ 1,188,000	\$ 1,008,000	\$ 180,000	5600
\$ 10.00	\$ 120.00	\$ 1,320,000	\$ 1,140,000	\$ 180,000	6333
\$ 11.00	\$ 132.00	\$ 1,452,000	\$ 1,272,000	\$ 180,000	7067
\$ 12.00	\$ 144.00	\$ 1,584,000	\$ 1,404,000	\$ 180,000	7800
\$ 13.00	\$ 156.00	\$ 1,716,000	\$ 1,536,000	\$ 180,000	8533
\$ 14.00	\$ 168.00	\$ 1,848,000	\$ 1,668,000	\$ 180,000	9267
\$ 15.00	\$ 180.00	\$ 1,980,000	\$ 1,800,000	\$ 180,000	10000

SS # 9

Number of households = 11,000

Hauler annual charge per cart = \$180

Household cost per month	Household cost per year	Village income per year	Village pay hauler per year	ME fund per year	Number of carts
\$ 1.00	\$ 12.00	\$ 132,000	\$ (68,000)	\$ 200,000	-378
\$ 2.00	\$ 24.00	\$ 264,000	\$ 64,000	\$ 200,000	356
\$ 3.00	\$ 36.00	\$ 396,000	\$ 196,000	\$ 200,000	1089
\$ 4.00	\$ 48.00	\$ 528,000	\$ 328,000	\$ 200,000	1822
\$ 5.00	\$ 60.00	\$ 660,000	\$ 460,000	\$ 200,000	2556
\$ 6.00	\$ 72.00	\$ 792,000	\$ 592,000	\$ 200,000	3289
\$ 7.00	\$ 84.00	\$ 924,000	\$ 724,000	\$ 200,000	4022
\$ 8.00	\$ 96.00	\$ 1,056,000	\$ 856,000	\$ 200,000	4756
\$ 9.00	\$ 108.00	\$ 1,188,000	\$ 988,000	\$ 200,000	5489
\$ 11.00	\$ 132.00	\$ 1,452,000	\$ 1,252,000	\$ 200,000	6956
\$ 12.00	\$ 144.00	\$ 1,584,000	\$ 1,384,000	\$ 200,000	7689
\$ 13.00	\$ 156.00	\$ 1,716,000	\$ 1,516,000	\$ 200,000	8422
\$ 14.00	\$ 168.00	\$ 1,848,000	\$ 1,648,000	\$ 200,000	9156
\$ 15.00	\$ 180.00	\$ 1,980,000	\$ 1,780,000	\$ 200,000	9889

SS # 10

Current cost per household for refuse collection:

Current cost per household for refuse collection*:

Without compost cart . . (\$29.06 /month landfill)	\$29/month	\$350/year
With compost cart (\$29.06/month + 15.68/ month)	\$45/month	\$540/year

Gross Income to Village ($\$350/\text{year} \times 9,000 \text{ hh}$) + ($\$540/\text{year} \times 2,000 \text{ hh}$) \$4.23 million/year

New cost per household for refuse collection:

Everyone with compost . . (29.06/month + 6.00 /month) **\$420/year**

Gross Income to Village ($\$420/\text{year} \times 11,000 \text{ hh}$) **\$4.62 million/year**

Note: This example is for \$6.00/month per hh, and \$200,000 ME fund.
The net income to the Village is the ME fund.

**Maybe Consider a mix of carts
and dumpsters if it improves
access or decreases cost.**

MR1



Carts and Dumpsters.

96 gallon cart and
303 gallon dumpster



Ascension 400-gallon (2 cubic yards) dumpster



What is missing?



What is missing?



Misc. to consider:

Oak Park has

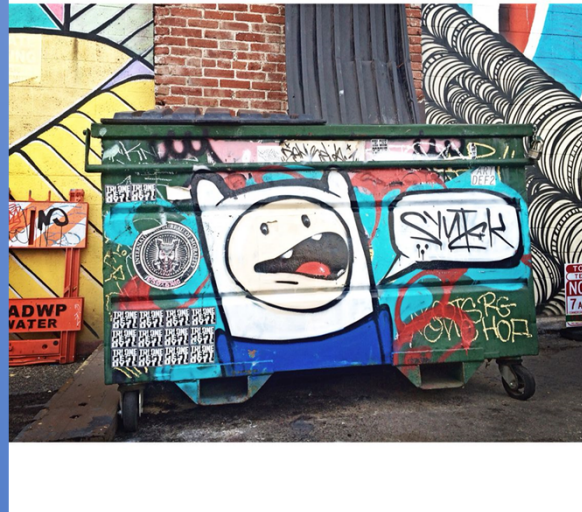
- 500 alleys
- 66 streets
- 100 miles of Village owned streets
- A two-yard (400-gallon) dumpster costs \$30/month compared to \$15/month for a 96-gallon cart.
- The cost per household would be significantly reduced if the 9,000 households in greater than five units could contribute to the cost of composting.
- The 2021 guest speaker, **Walter Willis**, claims that there are ways around the **more than five-unit restriction**.

Big Picture Summary

- Village provides an all-inclusive refuse program which includes composting for everyone.
- All households pay the same for all aspects of refuse collection. (except those in greater than five units)
- No one “owns” a compost container but everyone has easy access to one.
- Have a generous ME fund. Hire a full-time person for composting program.

- Annual “remainder” from the ME fund could be used to enhance the program.
- Containers placed strategically throughout the village for easy drop-off.
- Anyone (including those in greater than five unit housing) can use any container.
- Consider a mix of carts and dumpsters.
- Consider a Compost Committee and Volunteers to monitor the content of containers.
- Consider an annual festival for decorating compost containers. Provide an award from the ME fund.





Not a question of money, but a
different mindset. . .

**If anyone can make this work,
Oak Park Can Do It**

Request opportunity to provide written responses to questions and concerns from EEC, Trustees, Staff, public, haughlers, Et al.