



Independent coverage of composting, wood recycling and organics management

Composting News

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Trade groups oppose NYC organics expansion

By Ken McEntee

A group of trade associations representing the waste and food service businesses have asked the New York City Department of Sanitation to withdraw a proposed expansion of its organics separation requirements.

The city currently requires source separation of food waste for certain establishments, including large sports arenas, large hotels, large food manufacturing facilities and large food wholesalers.

In October, the city proposed several additional types of establishment that would have to separate organics, including:

- Food service establishments that are a part of a chain of 50 or more locations in the city;
- Food service establishments that

(See New York, page 5)

Study compares health effects of organic vs. conventional food

Organic food consumption may reduce the risk of allergic disease and of overweight and obesity, but the evidence is not conclusive, according to a recently published study available through the National Center for Biotechnology Information of the U.S. National Library of Medicine.

The non-conclusive evidence, the researchers concluded, was due to consumers of organic food tending to have healthier lifestyles overall.

The study, *Human health implications of organic food and organic agriculture: a comprehensive review*, summarizes existing evidence on the impact of organic food on human health. It compares organic vs. conventional food production with respect to parameters important to human health and discusses the potential impact of organic management practices with an emphasis on conditions in the European Union.



(See Healthy, page 15)

Pennsylvania bill makes compost a best management practice

By Ken McEntee

A bill introduced to the General Assembly of Pennsylvania last month would make the use of compost a Best Management Practice for erosion control and other applications. It also adds mushroom compost to the commonwealth's definition of compost.

SB917 was introduced by Sen. Andrew Dinniman, D-West Chester last month and referred to the Senate Environmental Resources and Energy

Committee. The bill, which Dinniman also introduced during the Assembly's previous session, would amend the commonwealth's Municipal Waste Planning, Recycling and Waste Reduction Act.

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Highlights

- n Ohio looks at revised composting rules
- n National compost prices

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Legislation/regulation

Ohio looks at revised composting rules

The Ohio EPA (OEPA) Division of Materials and Waste Management has proposed changes to the state's composting rules. During the annual conference last month of the Organic Recycling Association of Ohio (ORAO), Angel Arroyo-Rodriguez, of OEPA, said the rules changes would:

- Allow for more materials to be composted at sites that are exempted from permitting;
- Simplify the authorization processing process;
- Add value to the compost industry;
- Balance environmental protection

with economic development. Among the most significant provisions of the proposed changes, Arroyo-Rodriguez said, are:

- Increases the size of a composting site exempted from Ohio regulations from 300 square feet to 500 square feet. The increase makes it easier for community gardens to compost on site without falling under state rules.
- Excludes wood recycling facilities, such as mulch and grinding operations, from composting rules if composting is not being done.
- Revises the definition of compost to help clarify the gray area between wood recycling and composting.
- Creates a definition of vermicompost, and a new provision that clarifies that vermiculture operations that do not sell vermicompost off-site are exempt from composting rules.

In all, amendments are proposed for 36 separate rules, 14 new rules are

(See Ohio, page 4)



9815 Hazelwood Avenue
 Cleveland, OH 44149-2305
 Phone: (440) 238-6603
 Fax: (440) 238-6712
 ken@recycle.cc
 www.compostingnews.com
Publisher/Editor:
 Ken McEntee
Office Manager:
 Amy McEntee

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Legislation/regulation

Ohio

From page 3

proposed and 10 rules would be rescinded.

Arroyo-Rodriguez said new rules could be effective around February or March 2018.

A public comment period will run until December 19, 2017, and a public hearing will be held on that date in Columbus. A full summary of the changes can be downloaded at <http://tinyurl.com/yd5antad>.

Pennsylvania

From page 1

A proposed new section of the law calls for the Department of General Services to establish appropriate specifications for the use of compost and compost products as a best management practice in projects for: erosion and sediment control and post-

construction storm water management. The bills calls for the department to consult with other appropriate state agencies on the use of and specifications for compost and compost products for projects in other states and to identify compost and compost products to add to any existing specifications, to include:

- Compost blankets for soil stabilization mats and other types of compost erosion control blankets.
- Compost socks for slope interruption, inlet protection and sediment control.
- Compost in a biofiltration soil mix.
- Compost in biofiltration swales.

Current law required commonwealth agencies to give due consideration and preference to the use of compost materials in all land maintenance activities which are to be paid with public funds. SB917 adds mushroom compost to the category of compost materials.

Spent mushroom substrate (SMS),

also referred to as mushroom compost, is the composted organic material remaining after a mushroom crop is harvested.

“SMS is registered as a Pennsylvania Preferred Product by the Pennsylvania Department of Agriculture and already utilized by PennDOT in roadside reclamation and commercial redevelopment projects,” Dinniman said. “According to the September 2014 Green Paper produced by the Joint Legislative Air and Water Pollution Control and Conservation Committee (JCC), over 2 million cubic yards of SMS are produced annually in Pennsylvania and finding local, beneficial uses of SMS as a value-added product is a top concern. The report cites numerous commercial applications of SMS such as: wetland material, storm water management basins, highway site remediation, parking lot islands, filtration socks and erosion control and also notes the potential market for its use in mine

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Food waste

New York

From page 1

have a floor space of at least 7,000 square feet;

- Food retailers that have a floor space of at least 10,000 square feet or which are a part of a chain of three or more stores that have a combined floor space of at least 10,000 square feet.

On the day before a scheduled October 31, 2017 public hearing about the proposal, a group of trade associations jointly submitted a letter to Kathryn Garcia, the city’s sanitation commissioner, asking that the proposed amendment to the city’s Organic Source Separation Rules be withdrawn.

The trade associations are:

- Food Industry Alliance of New York

State;

- New York State Restaurant Association;
- New York State Hospitality Alliance;
- National Supermarket Association;
- New Yorkers for Responsible Waste Management;
- National Waste & Recycling Association/NYC Chapter.

“Such withdrawal will remove the prohibition on consultations between the department and private stakeholders while the CAPA (City Administrative Procedure Act) process is underway,” the letter said. “We believe that such discussions are necessary to fully understand what the department is proposing, increase the likelihood of success and avoid increases in the cost of removing, collecting, disposing or recycling organic waste.”

The group said they support the city’s commitment to the diversion of organic waste from disposal and incineration to beneficial use.

However, they said, nine concerns led to the request for a withdrawal of the proposal. They include:

- The city has not provided on a timely basis, as required by law, an annual assessment of organics processing capacity within 100 miles of the city;
- The city has not conducted a proper consultation with affected stakeholders;
- The regulatory role of the New York Department of Environmental Protection (DEP) on permitting of on-site organics processing facilities is unclear and confusing;

The commercial sector is being targeted for mandatory diversion of organics without parallel consideration for mandatory diversion by the residential sector, which is directly managed by the city.

“When the city’s Mandatory Recycling Law was initially adopted in 1989, the residential sector led with its

(See New York, page 8)

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National Compost Prices

The prices listed below are intended to indicate the value of mature compost products sold by compost producers and retailers in noted regions. Prices listed are based on surveys and publicly posted prices.

Your input on published prices is encouraged. Contact Ken McEntee, editor, at (440) 238-6603. Fax: (440) 238-6712. EMail: ken@recycle.cc. Address: 9815 Hazelwood Avenue, Cleveland, OH 44149. Notes on listings.

- Each listing includes a high price obtained, a low price obtained and an average of all prices obtained within a particular market.
- Market areas: Thirteen market areas have been targeted to provide a cross section of compost product markets in

the U.S. Where regions are not identified by a specific city, "Chesapeake" refers to the region stretching between Norfolk, Va. to Baltimore, Md. "Texas" incorporates several major cities in the state. "Northwest" represents the Seattle and Portland, Ore areas. "SF-Bay" refers to the San Francisco Bay area. SoCal is Southern California, including the Los Angeles and San Diego areas. Denver includes Colorado, Wyoming and Montana.

- "Food waste" compost: This category refers to compost products that include food waste, regional specialties and other feedstocks not specifically covered in other categories.
- Manures: Chicken manures may include other poultry

manures, such as turkey and duck manure. Cow manures may include manures marketed as steer and dairy manure. Horse manure is included in this category as well.

- Absence of a regional listing within a given category indicates not enough information for a valid listing. Additional data will be added as more information is obtained.
- Bulk retail prices do not include municipal operations that give compost away for free.

Bulk Retail (yard)

Yard waste compost	Average	High	Low
NE	\$ 32.55	\$ 77.00	\$ 17.50
Chesapeake	\$ 24.50	\$ 30.00	\$ 17.00
SE	\$ 21.88	\$ 29.95	\$ 16.00
Florida	\$ 16.42	\$ 26.00	\$ 10.50
Cleveland	\$ 19.90	\$ 28.00	\$ 12.50
Iowa	\$ 21.57	\$ 53.00	\$ 7.50
Minneapolis	\$ 17.09	\$ 28.00	\$ 8.00
Texas	\$ 29.71	\$ 40.00	\$ 15.00
Denver	\$ 20.31	\$ 31.00	\$ 12.00
Northwest	\$ 24.05	\$ 55.00	\$ 10.00
SF-Bay	\$ 21.92	\$ 30.00	\$ 10.00
SoCal	\$ 14.75	\$ 24.00	\$ 8.00

Food waste compost	Average	High	Low
NE	\$ 39.12	\$ 64.00	\$ 17.50
Chesapeake	\$ 23.00	\$ 30.00	\$ 15.00
SE	\$ 28.11	\$ 35.00	\$ 24.00
Florida	\$ 17.50	\$ 22.00	\$ 13.00
Iowa	\$ 25.00	\$ 65.00	\$ 15.00
Minneapolis	\$ 12.33	\$ 16.00	\$ 9.00
Texas	\$ 30.21	\$ 48.95	\$ 15.00
Denver	\$ 15.00	\$ 15.00	\$ 15.00
Northwest	\$ 20.55	\$ 30.00	\$ 15.00
SF-Bay	\$ 23.61	\$ 38.00	\$ 14.00
SoCal	\$ 30.50	\$ 45.00	\$ 16.00

Leaf humus	Average	High	Low
NE	\$ 24.98	\$ 30.00	\$ 19.95
Chesapeake	\$ 27.49	\$ 30.00	\$ 23.95
Cleveland	\$ 19.27	\$ 26.00	\$ 8.00

Composted biosolids	Average	High	Low
NE	\$ 30.00	\$ 40.00	\$ 20.00
Chesapeake	\$ 24.98	\$ 35.00	\$ 12.00
SE	\$ 12.14	\$ 28.00	\$ 4.00
Florida	\$ 13.14	\$ 22.00	\$ 8.00
Cleveland	\$ 24.77	\$ 30.00	\$ 19.50
Iowa	\$ 12.67	\$ 21.00	\$ 8.00
Texas	\$ 21.28	\$ 30.00	\$ 10.00
Denver	\$ 9.00	\$ 10.00	\$ 7.00
Northwest	\$ 17.91	\$ 26.00	\$ 7.00
SoCal	\$ 13.36	\$ 22.00	\$ 3.50

Composted chicken manure	Average	High	Low
NE	\$ 45.00	\$ 50.00	\$ 40.00
Chesapeake	\$ 25.00	\$ 25.00	\$ 25.00
SE	\$ 42.00	\$ 42.00	\$ 42.00
Minneapolis	\$ 17.00	\$ 17.00	\$ 17.00
Texas	\$ 37.23	\$ 47.50	\$ 26.95
Denver	\$ 25.65	\$ 28.00	\$ 24.00
SF-Bay	\$ 16.00	\$ 16.00	\$ 16.00
SoCal	\$ 44.00	\$ 75.00	\$ 27.00

Composted cow manure	Average	High	Low
NE	\$ 45.50	\$ 46.00	\$ 45.00
SE	\$ 31.33	\$ 45.00	\$ 12.00
Cleveland	\$ 24.00	\$ 24.00	\$ 24.00
Iowa	\$ 42.00	\$ 60.00	\$ 16.00
Minneapolis	\$ 29.33	\$ 32.00	\$ 26.00
Texas	\$ 29.33	\$ 47.50	\$ 15.00
Denver	\$ 21.71	\$ 30.00	\$ 12.00
Phoenix	\$ 20.00	\$ 20.00	\$ 20.00
Northwest	\$ 23.85	\$ 33.75	\$ 17.45

SF-Bay	\$ 26.00	\$ 26.00	\$ 26.00
SoCal	\$ 17.25	\$ 24.00	\$ 12.00

Wood waste mulch	Average	High	Low
NE	\$ 21.35	\$ 38.00	\$ 12.50
Chesapeake	\$ 21.13	\$ 28.00	\$ 12.00
SE	\$ 18.78	\$ 34.95	\$ 12.00
Florida	\$ 17.50	\$ 18.00	\$ 17.00
Cleveland	\$ 25.56	\$ 36.25	\$ 14.00
Iowa	\$ 32.50	\$ 40.00	\$ 25.00
Minneapolis	\$ 26.00	\$ 35.00	\$ 20.00
Texas	\$ 16.19	\$ 27.00	\$ 9.00
Denver	\$ 18.74	\$ 25.00	\$ 12.48
Phoenix	\$ 17.61	\$ 22.95	\$ 10.00
Northwest	\$ 19.00	\$ 35.00	\$ 7.50
SF-Bay	\$ 18.14	\$ 30.00	\$ 8.00
SoCal	\$ 20.50	\$ 50.00	\$ 6.00

Colored wood mulch	Average	High	Low
NE	\$ 28.00	\$ 28.00	\$ 28.00
Chesapeake	\$ 28.67	\$ 33.00	\$ 25.00
SE	\$ 27.13	\$ 42.00	\$ 15.00
Florida	\$ 20.33	\$ 22.00	\$ 19.00
Cleveland	\$ 24.87	\$ 28.99	\$ 21.95
Iowa	\$ 30.00	\$ 30.00	\$ 30.00
Minneapolis	\$ 36.80	\$ 49.00	\$ 30.00
Texas	\$ 26.08	\$ 32.50	\$ 18.00
Denver	\$ 33.28	\$ 33.28	\$ 33.28
Northwest	\$ 35.00	\$ 35.00	\$ 35.00
SF-Bay	\$ 34.00	\$ 36.00	\$ 28.00
SoCal	\$ 32.50	\$ 35.00	\$ 30.00

Bulk wholesale (yard)

Yard waste compost	Average	High	Low
NE	\$ 21.50	\$ 48.00	\$ 11.00
Chesapeake	\$ 13.39	\$ 16.00	\$ 8.00
SE	\$ 16.66	\$ 25.00	\$ 8.65
Florida	\$ 9.75	\$ 13.00	\$ 8.00
Cleveland	\$ 12.50	\$ 15.00	\$ 10.00
Iowa	\$ 14.00	\$ 19.00	\$ 8.00
Minneapolis	\$ 12.00	\$ 17.00	\$ 7.00
Texas	\$ 17.25	\$ 24.00	\$ 9.00
Denver	\$ 13.05	\$ 14.10	\$ 12.00
Northwest	\$ 14.79	\$ 35.00	\$ 7.50
SF-Bay	\$ 13.71	\$ 22.00	\$ 7.00
SoCal	\$ 7.33	\$ 10.00	\$ 6.00

Food waste compost	Average	High	Low
NE	\$ 25.79	\$ 48.00	\$ 11.00
Chesapeake	\$ 10.50	\$ 15.00	\$ 8.00
SE	\$ 20.65	\$ 30.00	\$ 15.00
Florida	\$ 10.50	\$ 13.00	\$ 8.00
Iowa	\$ 13.40	\$ 20.00	\$ 10.00
Minneapolis	\$ 12.00	\$ 12.00	\$ 12.00
Texas	\$ 17.50	\$ 24.00	\$ 8.50
Denver	\$ 11.33	\$ 15.00	\$ 7.00
Northwest	\$ 17.25	\$ 20.00	\$ 15.00
SF-Bay	\$ 12.67	\$ 26.00	\$ 5.00

Composted biosolids	Average	High	Low
NE	\$ 15.33	\$ 20.00	\$ 10.00
Chesapeake	\$ 9.31	\$ 15.00	\$ 5.00
SE	\$ 10.93	\$ 15.00	\$ 5.00
Florida	\$ 10.50	\$ 13.00	\$ 8.00
Texas	\$ 15.99	\$ 20.00	\$ 9.00

Denver	\$ 13.00	\$ 13.00	\$ 13.00
Northwest	\$ 16.75	\$ 21.00	\$ 12.00
SoCal	\$ 10.50	\$ 17.00	\$ 3.00

Composted cow manure	Average	High	Low
NE	\$ 36.00	\$ 36.00	\$ 36.00
SE	\$ 21.38	\$ 31.50	\$ 7.00
Iowa	\$ 35.00	\$ 35.00	\$ 35.00
Texas	\$ 25.00	\$ 25.00	\$ 25.00
Denver	\$ 12.05	\$ 14.10	\$ 10.00
Northwest	\$ 22.00	\$ 22.00	\$ 22.00
SF-Bay	\$ 34.25	\$ 34.50	\$ 34.00
SoCal	\$ 5.00	\$ 6.00	\$ 4.00

Wood waste mulch	Average	High	Low
NE	\$ 15.75	\$ 33.00	\$ 8.00
Chesapeake	\$ 15.80	\$ 17.00	\$ 13.00
SE	\$ 14.60	\$ 24.95	\$ 5.00
Florida	\$ 14.00	\$ 15.00	\$ 13.00
Iowa	\$ 30.00	\$ 40.00	\$ 20.00
Minneapolis	\$ 18.50	\$ 20.00	\$ 17.00
Texas	\$ 10.83	\$ 14.00	\$ 8.00
Denver	\$ 7.66	\$ 8.32	\$ 7.00
Northwest	\$ 15.00	\$ 15.00	\$ 15.00
SF-Bay	\$ 12.33	\$ 14.00	\$ 9.00
SoCal	\$ 9.25	\$ 15.00	\$ 5.00

Colored wood mulch	Average	High	Low
NE	\$ 22.00	\$ 22.00	\$ 22.00
Chesapeake	\$ 20.50	\$ 22.00	\$ 19.00
SE	\$ 19.00	\$ 25.00	\$ 15.00
Florida	\$ 16.00	\$ 16.00	\$ 16.00
Iowa	\$ 25.00	\$ 25.00	\$ 25.00
Minneapolis	\$ 27.00	\$ 35.00	\$ 19.00
Texas	\$ 20.67	\$ 24.00	\$ 18.00
Denver	\$ 17.66	\$ 21.32	\$ 14.00
Northwest	\$ 22.00	\$ 22.00	\$ 22.00
SF-Bay	\$ 21.00	\$ 22.00	\$ 19.00
SoCal	\$ 22.50	\$ 25.00	\$ 20.00

Bag Retail

Compost (40# bag)	Average	High	Low
NE	\$ 6.87	\$ 8.00	\$ 4.50
Chesapeake	\$ 3.73	\$ 5.49	\$ 2.15
SE	\$ 4.00	\$ 4.00	\$ 4.00
Iowa	\$ 1.99	\$ 1.99	\$ 1.99
Cleveland	\$ 2.45	\$ 2.99	\$ 2.10
Iowa	\$ 3.12	\$ 7.99	\$ 1.50
Texas	\$ 4.25	\$ 6.99	\$ 1.99
Denver	\$ 3.59	\$ 4.75	\$ 1.73
Phoenix	\$ 4.71	\$ 5.99	\$ 2.77
Northwest	\$ 4.29	\$ 5.99	\$ 2.99
SoCal	\$ 5.39	\$ 6.25	\$ 3.90

Composted cow manure(40#bag)	Average	High	Low
NE	\$ 6.53	\$ 9.87	\$ 3.85
Chesapeake	\$ 5.97	\$ 7.95	\$ 3.99
SE	\$ 5.16	\$ 6.97	\$ 3.34
Florida	\$ 1.98	\$ 1.99	\$ 1.97
Cleveland	\$ 3.27	\$ 3.99	\$ 2.49
Iowa	\$ 2.18	\$ 2.49	\$ 1.75
Minneapolis	\$ 3.70	\$ 7.00	\$ 1.99
Texas	\$ 4.59	\$ 6.99	\$ 1.99
Phoenix	\$ 2.99	\$ 3.99	\$ 2.49
Northwest	\$ 3.99	\$ 3.99	\$ 3.99
SF-Bay	\$ 7.00	\$ 7.00	\$ 7.00

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Food waste

New York

From page 5

initial mandate, followed by consideration of how best to initiate effective recycling in the commercial sector (already established for several materials),” the letter said. “The city’s commitment to a parallel structure for conventional recycling - similar rules for both commercial and residential - should be the same standard as organics diversion programs are developed and expanded.”

The Department of Sanitation said food scraps and other organics make up more than a third of all commercial waste in the city. Diverting organics from landfills to use as compost or as an energy source in aerobic and anaerobic digesters is a key component of the city’s goal of sending zero waste to landfills by 2030.

The department, before submitting



its proposal to expand mandatory organics diversion, said there is sufficient organics processing capacity to allow for the increase.

Asked to comment about the trade associations’ letter, sanitation department spokeswoman Belinda Mager emailed, “The Department of Sanitation is in the process of reviewing the comments received from a variety of stakeholders on the proposed commercial organics rules. We will take these comments into account as we finalize these rules. We look forward to continuing to work with a range of stakeholders to help meet our goal of sending zero waste to landfills by

2030.”

Kendall Christiansen, representing New Yorkers for Responsible Waste Management, said a “key council member” was to have discussed the issue with the sanitation commissioner about the matter, but he didn’t know the outcome of that discussion.

Digester project teams college, farm energy companies

Under the terms of a recently signed agreement, Vanguard Renewables, Wellesley, Mass., will construct, own and operate an anaerobic digester at Goodrich Family Farm, in Vermont that will combine cow manure and food waste to produce

(See Farm, page 13)

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Web: www.grindercrusherscreen.com
Email: rick@grindercrusherscreen.com
Contact: Rick Cohen

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Fax: 920-897-2142
Contact: Curtis Tisler
Web: www.patzcorp.com
Email: curtistisler@patzcorp.com

Education



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Phone: 800-689-0714
Fax: 815-438-7028
Email: info@midwestbiosystems.com
www.aeromasterequipment.com
www.midwestbiosystems.com
Contact: Cary Richardson

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Contact: Regional Sales Manager



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Web: www.colorbiotics.basf.us
Contact: Kent Rotert



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Contact: Jami Bestgen
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Screening Systems & Trommels



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Contact: Rick Cohen



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10855 Dover Street Ste 1000
Westminster, CO 80021
Ph: 720.890.9090
Fax: 720.890.5907
EMail:
b.lapsys@komptechamericas.com
Web: www.komptechamericas.com
Contact: Brandon Lapsys

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Email: rick@screenusa.net
Contact: Rick Cohen



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Email: sales@armorhog.com
Web: www.armorhog.com
Contact: Brian Bergman



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Web: www.dynahog.com
Contact: Jason Haug



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Web: www.hogzilla.com
Contact: Tim Wenger,
Vice President & Sales Manager

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Contact: Wayne Brown



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 Phone: 208.585.2929
 Fax: 208.585.2112
 Email:
 kevin.mayhugh@rulesteel.com
 Web: www.diamondz.com
 Contact: Kevin Mayhugh



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 ind.sales@duratechindustries.net
 Web: www.duratechindustries.net
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 785.284.3454
 Fax: 785.284.3601
 Email: hogzilla@cwmill.com
 Web: www.hogzilla.com
 Contact: Tim Wenger,
 Vice President & Sales Manager



Komptech Americas LLC
 10855 Dover Street Ste 1000
 Westminster, CO 80021
 Ph: 720.890.9090
 Fax: 720.890.5907
 Email:
 b.lapsys@komptechamericas.com
 Web: www.komptechamericas.com
 Contact: Brandon Lapsys



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 Eugene, OR 97404
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 Phone: 541.689.6520
 Fax: 541.689.0804
 E. peterson@petersoncorp.com
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Food waste

Farm

From page 8

renewable natural gas (RNG).

Gas produced by the anaerobic digester will travel by pipeline to the main power plant at Middlebury College, in Middlebury, Vt. The college has agreed to purchase the bulk of the facility's output.

"We are constantly looking at new ways to make our energy sources more sustainable and diverse, and the digester project is a great opportunity to do that," said David Provost, executive vice president for finance and administration at Middlebury College.

The Goodrich Family Farm anaerobic digester will produce the largest amount of energy or RNG of any digester in Vermont. It will process



100 tons of manure from the farm and 165 tons of organic food waste per day. Vanguard plans to source the organic food waste from local and Vermont-based food manufacturers including Cabot Creamery.

Beyond the renewable energy produced by the digester, the facility will create high-quality, liquid fertilizer that will reduce the farm's reliance on chemical fertilizers. The farm also will benefit from lower energy costs, free heat for farm use, fewer greenhouse gas emissions and an annual lease

payment for hosting the anaerobic digester facility.

Located on more than 2,200 acres, the Goodrich Family Farm is a generational dairy farm with 900 milking cows.

"The digester offers help with many of the challenges we face as farmers," said Chase Goodrich, who is among the fourth generation of his family to operate the farm. "We want to diversify our income sources and find new ways to be environmentally friendly. Here in the Champlain Valley, we're particularly aware of efforts to reduce phosphorus runoff into Lake Champlain."

The digester project is currently in the permitting phase. Once permits are in place, Vanguard will begin construction on the digester and Vermont Gas will start work on a five

(See Farm, page 15)



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Food waste

Farm

From page 13

mile pipeline that connects the farm with the company's pipeline network in Addison County.

Once the digester is operating, the college will use oil at its heating plant only as a back-up energy source during extreme cold weather or other emergency situations.

Lakeshore Recycling starts digester at Illinois landfill

Lakeshore Recycling Systems (LRS), a Chicago-based independent recycling and waste diversion services provider, said it is the first privately-held company in

the U.S. to introduce the use of an aerobic digester to process collected organic waste into a fertilizer byproduct. Launched in collaboration with Morton Grove, Ill.-based EcoloCap Solutions, a pioneer in organic waste recycling, the digester will divert food scraps from landfills, lowering the risk of water pollution and the emission of methane gas and odor into the environment.

The digester can convert 15 tons of continuous fruits and vegetables into a high-grade compost and organic fertilizer.

When deposited in landfills, organic waste runs the risk of contaminating water, and emits odorous hydrogen sulfide gas and methane gas. LRS' organic recycling operations will convert organic waste into a high-grade compost and organic fertilizer that is ready to ship to local companies for mixing and distribution. The process delivers an end-product that is reduced in weight and volume by 70 percent.

The technology is ideal for urban environments as it can operate on a small footprint, needs little labor and overhead and its process and output are odorless.

"Our technology helps companies in all industries reduce their waste costs and become more sustainable for the long term," said EcoloCap CEO James Kwak. "We are thrilled to join forces with LRS and look forward to seeing our technology divert organic waste from landfills, reducing its size and form, and finding new uses for it in the environmental and industrial ecosystem."

Organic farming

Healthy

From page 1

Animal experiments suggest that identically composed feed from organic or conventional production

(See *Healthy*, page 17)

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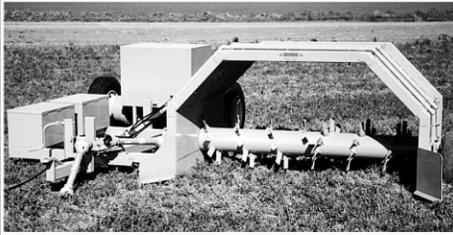
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Organic farming

Healthy

From page 15

impacts in different ways on growth and development. In organic agriculture, the use of pesticides is restricted, while residues in conventional fruits and vegetables

constitute the main source of human pesticide exposures. Epidemiological studies have reported adverse effects of certain pesticides on children's cognitive development at current levels of exposure, but these data have so far not been applied in formal risk assessments of individual pesticides.

The full report can be viewed at <http://tinyurl.com/y92kjye6>.



Read the full report here.

Biochar

SEER, Biochar Now join forces

Strategic Environmental & Energy Resources Inc. (SEER), a provider of environmental, renewable fuels and industrial waste stream management services, is partnering with Biochar Now (BCN), an engineer and manufacturer of high-quality biochar.

SEER said BCN, and its patented production technology, is emerging as one of the nation's premier producer of biochar. The BCN product also has large potential for landfill soil remediation, improving soil quality in agriculture and removing various pollutants and unwanted components from water, such as phosphorous, mercury, arsenic and pesticides.



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Rotochopper RotoLink

Rotochopper introduces remote monitoring system

Rotochopper Inc.'s 2017 Demo Day featured the introduction of its RotoLink second generation remote monitoring system with live connection to the grinder controller and Rotochopper customer service.

The system allows an operator to work in real-time with Rotochopper customer support to view machine settings and troubleshoot issues. Using RotoLink, multiple users can work together through live connection on smart phones or computers to monitor and adjust critical machine settings from anywhere in the world.

Monitoring capabilities include maintenance life, vibration and bearing temperatures, engine data and production data. When granted access, factory service techs have a direct connection to the display and with permission can change machine settings.

Operators set up email and/or text message alarms to alert multiple users immediately when a fault alarm occurs. Alarms can be customized by the user depending on individual operational roles.

RotoLink can be simply connected to a grinder through a cell modem,

ethernet or WiFi. Data logged during operation and diagnostics is available to machine owners for the life of the machine.

“For owners, this means more uptime and predictive maintenance by allowing them to monitor critical machine parts like the engine and rotor,” said Doug (Spike) Meyer, director of customer service.

Customers can choose to receive weekly or monthly reports of their machine health.

RotoLink is available for both diesel and electric horizontal grinders.

For more information, visit www.rotochopper.com.

A better way to process organics

West Salem Machinery Co. (WSM) offers a better way to process high volumes of organics, such as food waste, green waste and mixed waste with organics, the company said.

West Salem's stationary organics processing systems to process organics for conversion into compost, soil amendments, biogas or biofuels can eliminate costly, maintenance prone portable machines, the company said.

A typical system starts with West Salem's chain metering bin with a loading hopper for bulk loading and



West Salem Machinery

metered feed to the severe-duty Titan trommel screen for heavy fraction separation. WSM's massive Titan vertical and horizontal feed electric grinders allow you to get rid of costly diesel engines while processing materials at rates ranging from 50 to 500 cubic yards per hour. WSM's light fraction separator removes plastics and light fractions during processing.

With WSM's focused approach you get more than just the machine – you get WSM's unique combination of continuous product innovation, application experience, technical and testing services, with optional system integration and project management, the company said.

To learn more, visit www.westsalem.com.

Bandit Industries renews partnership with NJPA

The National Joint Powers Alliance (NJPA) has awarded Bandit Industries Inc. a four-year NJPA Landscape and Grounds Maintenance contract. The contract allows governments, schools and non-profits to leverage the power of cooperative contracts to purchase Bandit equipment without undergoing an expensive and time-intensive bidding process.

This contract celebrates the continuing partnership between NJPA and Bandit Industries. NJPA members can purchase equipment from Bandit's complete equipment lineup, saving money and time while getting the equipment they need. That equipment includes disc- or drum-style hand-fed chippers, stump grinders, skid-steer attachments, whole tree chippers, and The Beast® horizontal grinders.

NJPA works by creating national cooperative contract purchasing solutions on behalf of its member agencies, which include all government, education and non-profit agencies in the U.S. and in Canada. These cooperative contract opportunities save NJPA members both time and money by consolidating the efforts of numerous individually

prepared solicitations to one national, cooperatively shared process.

“Our municipal customers who own Bandit equipment know their true value – unbeatable power and reliability, dedicated factory and dealer support, and long-lasting durability,” said Bandit Industries Sales Manager Jason Morey. “These customers know they’re always going to buy Bandit equipment, and our NJPA contract means they can cut straight to the chase and get the equipment they need at the best value.”

In the nearly four years Bandit has been an NJPA partner, more than 200 municipal customers have been able to get the equipment they desire by choosing based on quality and local support.

“NJPA is pleased to announce Bandit has been re-awarded a four-year contract through our competitive solicitation process. Our members now have the convenience of using their contract to access Bandit’s full line of equipment,” said Scott Carr, Bandit’s NJPA contract manager.

(Continued on next page)

Backed by over 220 dealer locations across the U.S. and Canada and a dedicated team of professionals eager to provide customer service and support, every customer can be at ease in the knowledge that their Bandit machine is a wise investment.

Learn more about Bandit’s complete lineup of wood processing machines at www.banditchippers.com or by calling 1-800-952-0178.

Morbark acquires Rayco

Morbark LLC this month completed its acquisition of Rayco Manufacturing Inc. Morbark will operate Rayco as a new division maintaining its brand identity.

Morbark said the transaction represents the first addition since affiliates of the private equity firm Stellex Capital Management LP acquired Morbark in 2016. The purchase of Rayco represents a significant move towards the

company’s strategic focus on broadening the range of tree care and industrial equipment, aftermarket parts and service offered to Morbark’s customers, the company said.

Rayco was founded in 1978 in Wooster, Ohio, by John M. Bowling, who as the owner of a tree care service, identified the unique needs of the tree and landscape industry and began to build equipment to meet and surpass those needs. Today the company is dedicated to the design and production of an incredibly innovative line of environmental equipment, Morbark said.

“We are thrilled to welcome Rayco to the Morbark portfolio of companies,” said Dave Herr, Morbark’s CEO. “Rayco is a company that our senior management team has admired for a long time. We value the long-standing success of Rayco and are committed to providing the Bowling family and their dedicated employees the resources they need to continue the success they have built.”

The current range of Rayco products includes stump cutters, crawler trucks, forestry mulchers, multi-tool carriers, attachments, brush chippers and the all-new AT71 aerial trimmer.

“Our family is very proud of the legacy we have established and nurtured over the past 39 years,” said John Bowling, CEO of Rayco. “As a family run and owned business, we view today’s transaction as an opportunity to continue growing our business while joining an even larger family.”

Bowling will continue his work with the team to develop new products and help improve the company’s existing product lines. He will continue to have an economic interest in the combined business and will be a member of Morbark’s board of directors.

Morbark said the transaction is a positive, strategic fit for both companies. Rayco brings a lineup of innovative equipment into the Morbark family across multiple product categories. In particular, Rayco stump cutters, aerial trimmers, forestry mulchers and crawler trucks

will enhance and complement the existing Morbark family of products.

Rayco’s experienced management team will continue to manage its operations. Teams from each company will work together to determine how to be more efficient and leverage each other’s strengths.

“Rayco has a well-deserved reputation for providing customers with the equipment and service they demand and the value they deserve,” Herr said. “That product innovation and dedication will continue without interruption. We are excited by what we can bring to Rayco in the way of our experiences, our dealer network and products to complement current Rayco equipment owners.”

Morbark is based in Winn, Mich.

Komptech Topturn X4500 receives Red Dot

Komptech’s Topturn X4500 was recently recognized and awarded the Red Dot Award for product design, the company said. Late last year, Komptech introduced the Topturn X4500, the smallest compost turner in their product line. Komptech built the Topturn X4500 with the same pioneering design, and high-performance qualities of their larger models.

According to Komptech, Red Dot said, “Its concisely formed, sturdy frame gives the Topturn X4500 an autonomous appearance; it also impresses with extremely functional detail solutions, for example, the retractable cabin.”

For more information, visit www.komptechamericas.com.



Komptech Topturn X4500



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