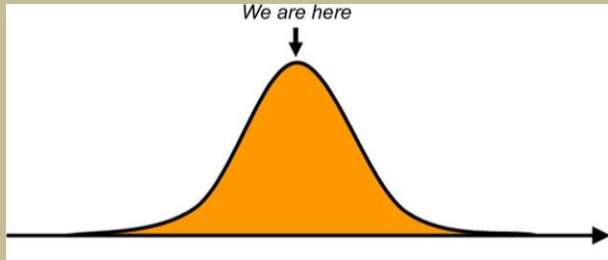




Chloe Wieland, Ben Braaten, Laurel Valchuis, Ellen Ross, Jarrod Szydlowski

The Compost Power Network

Spreading the Jean-Pain method to address:



Peak Oil



Soil Quality



Energy Efficiency

Compost Power in Context

- VT ranked 6th in U.S. for heating requirements
- Short growing season: 120-180 days per year

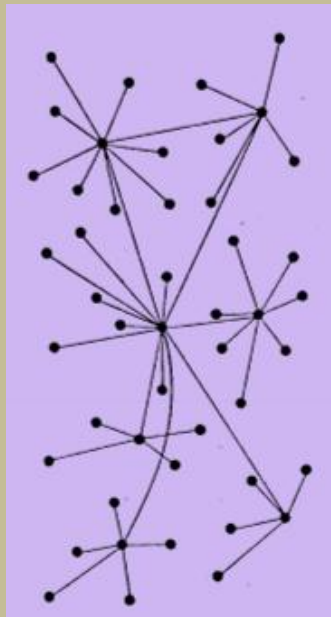
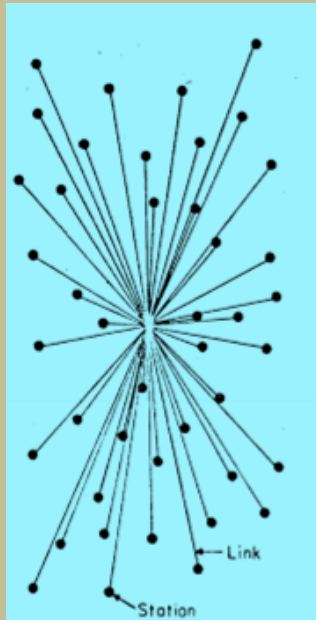


The Compost Power Network:

From the “Big Picture” to the Details

Establishing Legitimacy and Viability

- **Awareness & Education**

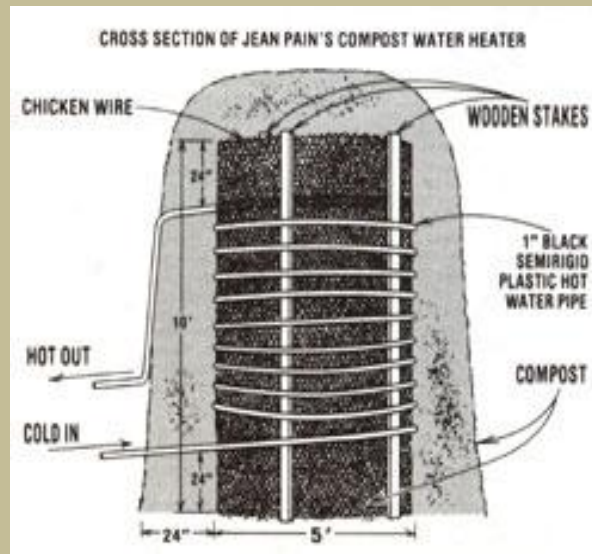


Expanding the Network

- **Finding and identifying interested hosts**
- **Establishing a self-perpetuating model?**

Jean Pain Method

- Jean Pain was a farmer/forester in southern France who developed a compost technique to generate high-value compost, heat and methane.
 - Building Time
 - » One day with 4 – 6 people
 - Construction
 - » Cost \$700-\$2000
 - » Piping
 - » Pumps
 - » Woody Biomass
 - Heat
 - » Lasts a season
 - » 140-160 degrees.
 - » Greenhouses, etc.



A Jean Pain mound can heat water to 140°F

Who's interested?

Online survey was used to gauge interest in Compost Power

- Purpose:
 - Educate MRV community members about C-P
 - Gauge interest and understand barriers
- Method:
 - Online survey tool (Zoomerang) sent out by email to 53 farmers in the MRV
 - Ten questions asked about:
 - Heating needs
 - Barriers to adopting the Jean Pain Method
 - Motives for interest in C-P



Survey shows interest in Compost Power

- Results:
 - 6 respondents, all expressed interest
 - Interest points:
 - Organic compost for use on-farm (4)
 - Relative cost (3)
 - Environmentally responsible alternative (3)
 - Barriers:
 - Time (3)
 - Need to know more about the technology (3)

Compost Power

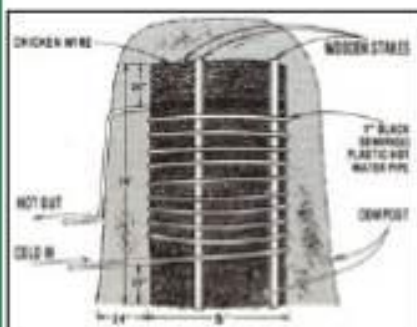
Who We Are

Compost Power includes experts in forestry, permaculture, compost science, renewable energy, biogas engineering and local economic development. We are dedicated to building a regenerative, waste-free model that addresses the enormous challenges posed by peak oil, soil depletion and energy scarcity.

The Jean Pain Method

Jean Pain (1930 – 1981) was a farmer and forester in southern France who developed ways to generate high-value compost, heat and methane through specially designed compost mounds.

How It Works: Chipped and shredded brushwood is formed into a mound. Multiple levels of spiraled plastic piping act as a heat exchanger; cold water enters at the bottom and hot leaves out the top. Within 2-3 weeks, the temperature rises to 110-155°F, providing a continuous stream of hot water.



dust and manure is a convenient alternative to shredded bark-mulch due to availability on most farms. This mixture was used by 2011 Compost Power project at Hartshorn Farm in Waitsfield (pictured on the far right). Building the mound requires a single day of labor, including the use of a tractor or backhoe for heavy lifting.



Steurn is visible coming off top of mound



Benefits of a Compost Mound

- **Generates Heat!** A small system can produce around 15,000 btus/hour. That's 65 million btus over a 6 month period, equivalent to 700 gallons of propane.
- **Creates soil!** The byproduct of a Jean Pain Mound is quality organic compost.
- **Produces NO Pollution or Emissions!** Digestion puts out energy just like combustion, but unlike combustion it leaves no waste.

Consider Hosting a Jean Pain Mound

Any interested party can host a mound. There are two options: the host pays a \$600 minimum project fee to Compost Power, or the host can assemble 6-10 students who will each pay \$100 for the one-day training program.

The project manager and the host will meet at least a month prior to construction to discuss design and acquire materials. The manager will lead the construction of the mound while teaching the course. Prospective hosts should contact CPN with details about their site and goals.

Contact Us!

Compost Power Network
PO Box 1121
Waitsfield, VT 05673

info@CompostPower.org
www.CompostPower.org



Mounds reach up to 155°F

Interested?

Do more with Compost Power!

Compost Power Network

- A loose network of motivated people
- Charges small fees to cover project costs
- Does this because it's an awesome idea!

How you can get involved:

- Volunteer to host a mound or view a demo
- Continue refining the idea by building and monitoring mounds
- Be part of a Train the Trainers web

Contact Compost Power Network:

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