



# Insulation Research Request for Sponsorship

***Presented to the Ulster County legislators - Tues.  
Mar. 21, 2023 (v1.2)***

# The Governor has a Statewide Plan

[Gov. Hochul, Exec. Order No. 22:](#)



[Climate Leadership & Community Protection Act](#)



# The County Executive asked for a Decarbonization Plan

[Exec. Metzger \(Ulster Co.\) Climate Order 1](#)

**Ulster County Climate Plan**



**Pending  
Legislative  
Resolutions?**

# Insulation is a Critical First Step (Est. \$11,000/home)

## **12.1 State of the Sector, Buildings (Climate Leadership and Community Protection Act):**

... for an older single-family home ... for a heat pump... paired with an air sealing and insulation upgrade is estimated to be about \$21,000. ... , as compared with roughly \$10,000 or less to replace a fossil fuel boiler/furnace ... (with no envelope work).

# New Material - Hemp-Lime is now in Building Code

- **April 2022**, ICC Mtg.  
Rochester, NY. The US Hemp Building Association presented proposal RB 316-22 (hemp-lime as wall in-fill for residential buildings)
- **September 2022 Done**,  
Hemp-lime recommended for approval, providing a pathway for using hemp as insulation in buildings.

## Hemp-lime IRC Proposal Recommended for Approval

Codes | 0 comments



This week in New York, the International Code Council (ICC) *approved* Hemp-lime (Hempcrete), [Proposal\\_RB316-22](#) for the International Residential Code (IRC). This is the **first step** toward the ICC's formal *adoption* of hempcrete as an



# Hemp Insulation can be grown and processed locally!



# Whereas good insulation has proven to save energy...

- Whereas air sealing and insulation provide a return on investment resulting in energy savings;
- Whereas the state of New York est. cost to air seal and insulate a residence is \$11,000; and
- Whereas the Executive requires an energy saving plan; now, therefore, be it...

# Resolve to test energy savings solutions...

**Resolved**, that the Ulster County Legislators:

1. Direct the Executive to create a project management office (funding methods is the Executive's discretion ie. surplus with matching fund repayment, etc.);
2. Require testing typical and novel insulation solutions/materials as soon as possible; and
3. Publish a report of findings by July 2023.



# Who We Are

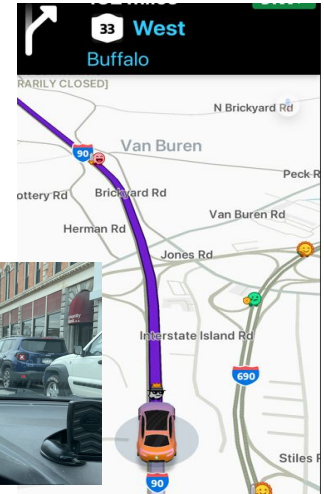
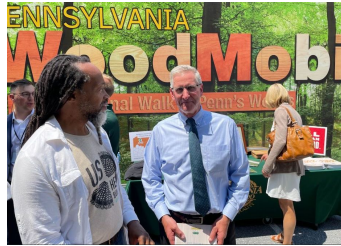
Build Green Now, An Eco Entrepreneurial enterprise centered on community health and wellbeing through farming and processing Industrial Hemp to create environmentally regenerative insulation for homes.



# What We Do - Connect Communities w/ Opportunities



We research Industrial Hemp, providing: industry updates, market insights, national plans and a shared vision with NY Ag/Mkts., the NY Hemp Grain/Fiber Roundtable and Ulster County Legislators.



# What We Do - Project Management Services

## Turning Purpose into People with Plans:



### Grow & Harvest Industrial Hemp in New York

#### Contracts



#### Training



#### Support



[www.BuildGreenNow.net](http://www.BuildGreenNow.net)

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### New Products made in Ulster Co. (2024?)

#### Hemp Insulation



Material Warehouse  
Hemp Insulation Panels Hem...

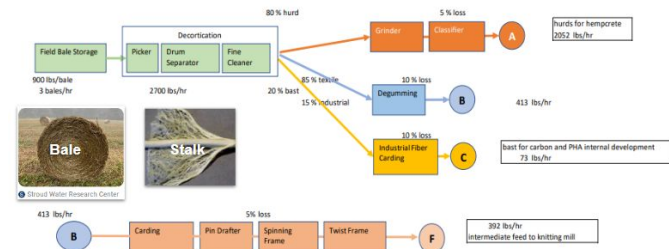


#### Hemp Thread, cloth and paper



Hemp Benchmarks  
Bringing Hemp Paper Back into the Fold ...

### Transport, Store & Process Hemp in New York



# Why We Do It

## **Community health and wellbeing drive our efforts:**

- We see that affordable and healthy housing is kept out of reach for most
- We hear from vulnerable members of communities about lack of follow through
- We study reports on the issues, work on solutions and share them
- We have borrowed from our children and must repay our debts

# References

- **Carbon Capture:** According to a Cambridge University researcher, a hectare of hemp can absorb between 8 – 15 tonnes of CO2. In comparison, forests capture 2 – 6 tonnes  
<https://carboncredits.com/hemp-carbon-credits/>
- **Hemp-lime (Hempcrete) Approved for US Residential Building Codes!**  
<https://www.linkedin.com/pulse/hempcrete-approved-us-residential-building-/>
- **Hemp Insulation and Hemp Fiber** Market Video  
[https://www.youtube.com/watch?v=e6w3jd-ZB\\_o&t=1494s](https://www.youtube.com/watch?v=e6w3jd-ZB_o&t=1494s)
- **Industrial Hemp Market Worth \$ 27.72 Billion**, Globally, by 2028 (25.17% compound annual growth rate)  
<https://www.globenewswire.com/news-release/2021/03/08/2188902/0/en/Industrial-Hemp-Market-Worth-27-72-Billion-Globally-by-2028-at-25-17-CAGR-Verified-Market-Research.html>