

Jenna Kay

From: Monica Zazueta <zazuetamonica0813@gmail.com>
Sent: Wednesday, August 28, 2024 8:29 PM
To: Jenna Kay; Amy Koski; Ben Duncan; sylvia@mosaicresolutions.com; Dana Hellman; Harrison Husting; Nicole Metildi; tlunsford@parametrix.com
Subject: Ideas for green house gas reduction

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- <https://www.familyhandyman.com/list/underground-homes/>

- 3D printing homes on Earth, someday the moon | 60 Minutes
22 minutes 27 second video

https://youtu.be/dXUX6dv2_Yo?si=T8EI28RvRgYFKGq-

- NEW TECHNOLOGY CAN HEAT AND COOL YOUR HOUSE USING NOTHING BUT AIR

With energy prices rising rapidly, a new startup could have the answer - technology that harnesses energy from fluctuations in humidity to cool and heat buildings at half the current price. July 6th 2022

<https://www.israel21c.org/new-technology-can-heat-and-cool-your-house-using-nothing-but-air/>

- Transparent Solar Panels | Michigan State University
Turn solar farms into solar cities

3 minute 31 second video

https://youtu.be/qMhdpWMDp04?si=_Qnl-JZAhAfvUCx

- Building with Cob - A Natural & Affordable Way to Build a House

<https://youtu.be/CWuHQOvNRDw?si=Jx1INEvmwogW60p8>

Here is a concise summary of the key points from the video:

Cob is an incredibly versatile, sustainable, and durable building material made from a simple mixture of clay, sand, and straw. Unlike conventional construction materials, cob is entirely natural and non-toxic, making it a healthy building option.

Cob structures can be extremely strong and long-lasting - some cob houses have stood for over 10,000 years. The straw in the mixture acts as a binding agent, giving the walls tensile strength and preventing cracking. Cob is also termite-proof and fireproof.

Natural building with cob provides a much more hands-on, creative, and environmentally-friendly approach compared to modern construction methods. It allows people to use locally-sourced, inexpensive materials to build unique, custom structures.

However, the flexible, freeform nature of cob construction poses challenges in the highly standardized modern building industry. Advocates like the Cob Cottage Company in Oregon have been working to revive interest in this ancient building technique.

<https://www.cobworks.com/>

The video highlights the perspective of a third-generation cob builder, Bryce, who discovered cob building as a teenager and has dedicated himself to teaching others about its benefits and techniques. Cob aligns with his values of using natural, sustainable materials to create healthy living spaces.

<http://www.dreamweaverscollective.org>

••••• We are 85% powered by ancient sunlight which is finite and we're treating it as if it were interest, but it's principle.

Reduction in the energy surplus would mitigate the level of overshoot.

- We need to change our narrative from a human-centered narrative to an earth-centered narrative.
- Instead of creating money without no reference to ecosystem services or non-renewable energy materials, we would create money with some biosphere tether. It would have some relationship to productive capital, productive capacity and the ecosystem health.
- Synthropic technology refers to a concept that combines principles of synthetic biology and ecological sustainability. It emphasizes the creation of systems that are not only technologically advanced but also harmoniously integrated with natural processes. The goal is to develop solutions that mimic or enhance natural ecosystems, promoting resilience, efficiency, and sustainability.

Key aspects of synthropic technology include:

1. ****Biomimicry****: Designing systems and products that imitate the models, systems, and elements of nature to solve human challenges.
2. ****Sustainable Practices****: Focusing on methods that reduce environmental impact and promote the health of ecosystems.

3. **Interdisciplinary Approach**: Integrating knowledge from biology, ecology, engineering, and technology to create innovative solutions.

4. **Resilience**: Building systems that can adapt to changes and withstand challenges, much like natural ecosystems do.

Overall, synthropic technology aims to create a sustainable future by leveraging the wisdom of nature.

••••• Multiple grant writers now so that everyone can access resources and achieve goals.