

Earth Day



HOW TO MAKE THE EARTH HAPPY



recycle or reuse items



walk, bike, or carpool when you can



Turn off lights, fans, and water
when you leave a room.



Buy things secondhand



Reduce or end your use of AI,
especially generative AI



THE ORIGINS OF EARTH DAY

It was a book that steamrolled Earth Day into action. There were 500,000 copies of this book sold in 24 countries. The book is called *Silent Spring*. It was written by Rachel Carson in 1962. It raised awareness for the environment and people's health. Senator Gaylord Nelson of Wisconsin was inspired by the student anti-war movement and the tragedy of the 1969 Santa Barbara oil spill to do a teach-in on college campuses for the media. Senator Nelson recruited a man named Denis Hayes to reach more people. Hayes ended up building a national staff of 85 people to promote events. They changed the name to Earth Day. It inspired 10% of Americans - 20 million people to demonstrate against environmental issues.

Twin Flowers

I see you here, on the right
Yes you two blooming there



Neighbors nodding side by side
A matching golden pair

You've both spread your petals wide
Both beaming towards the sky

To thrive, you require the same
Water, soil, and light



Yet neither one lives in want;
These drops of life you share,

Each one nourished just enough
To keep his colors bright.

You twins see the truth,
The truth that man does not:

When two souls spring from just one stem
Neither lives alone



A Moment of Winter

The melodic crunch of snow beneath my boots
The seeping cold as it melts above my ankles
The crisp touch of wind across my cheeks
The metallic bite as it freezes in my nostrils
The golden sparkle of sun on the frosty expanse
My reluctant retreat as it slips below the horizon



3D PRINTING HOMES WITH

3d printing homes overview

- Homes are first designed and planned on a computer
- Either a gantry style or robotic arm style 3D printer is than used
- Traditional home printing materials are a mixture of concrete powder, water, and sand
- Homes can either be:
 - Printed on site
 - Printed in a factory and then shipped to the build site
- Printed wall are only 20-25% of the total structure
- The printed portion of a home can take 1-3 weeks to print
- After printing the walls; wiring, plumbing and heating/cooling still have to be installed
- Typically roofs also have to built using traditional materials
- The average cost of a 3D printed home is \$160,000 - \$450,000
- On-site 3D printers require a fossil fuel based generator to power them

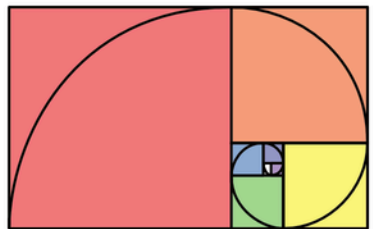
Eco-friendly printing materials

- Clay/soil
- Bamboo paste (Bamboo fibers blended with adhesives or polymers)
- Bioplastics (Derived from cornstarch or algae)
- Hempcrete (Hemp, water, and a lime-based binder)
- Wood flour (Sawdust mixed with a corn-based binder)

Printing using Eco-friendly materials

Pros:

- 👍 Cuts waste
- 👍 Most materials can be recycled
- 👍 Reduces greenhouse gases



ECO-FRIENDLY MATERIALS

Cons:

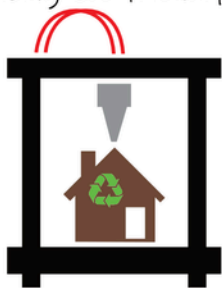
- ❑ Vastly considered experimental in 3D printed home building
- ❑ Building knowledge is limited compared to more common materials
- ❑ Harder to get a home certified
- ❑ Still more expensive than using "common" 3D printed home materials

Writer's conclusion

3D printing homes is already a niche and has limited builders with that expertise. Builders that possess the knowledge with using Eco-friendly materials is even more limited. The same concept applies to certifying homes in some areas depending on their building codes.

Through my research, I found most companies that specialize in 3D printing homes only tell half-truths. For example, they might say, "We printed a home in 8 hours." What they don't say is that those 8 hours were over the course of a week and only the walls were printed. As for the claims of a high cost savings, that comes with a big asterisk. The savings is there, but try to find a 3D printed home builder in your area and hope that home can legally be built.

3D printing homes is considered a new concept and has yet proven to be reliable. Until the science of 3D printing homes becomes more widely accepted, then using Eco-friendly materials can become more of a focus.



Credits

Cassie - Front + pages 1-2

Sarah - pages 3-4



Britt - Back + pages 5-6

April 2026

= Meetings

- ★ ♦ Apr 2, 2026 @ 3:30 p.m.
- ♦ Apr 9, 2026 @ 3:30 p.m.
- ♦ Apr 23, 2026 @ 3:30 p.m.
- ♦ Apr 30, 2026 @ 3:30 p.m.

