

Deconstruction - salvaging entire buildings

Deconstruction is an alternative to demolition. It means **carefully dismantling the constructed components of a house (or other building) so the materials can be salvaged and reused**. Materials are typically removed in the opposite order in which they were installed, to maximize reuse.

A solarpunk society may have many reasons to disassemble a building. Generally reuse of existing structures (perhaps with retrofits for insulation, solar, etc) is much better than destruction but that's not always the case:

- The building may be part of car infrastructure which can't be easily repurposed, such as a parking garage. In this case, the building's footprint may be far more useful than its current structure.
- The building may be structurally unsound and unsuitable enough for repurposing that it's hard to justify investing resources into repairs. Some buildings are just built incredibly cheaply and may not be designed to last more than a decade without a serious overhaul. McMansions and other 'builder grade' new houses are infamous for their cheap construction, but strip malls and other commercial buildings can be similarly unsustainable.
- The location may be poor. Perhaps the building has been built on what used to be a train line which society is looking to return to use. Perhaps it's on a flood plain, a landslide-prone cliff, or recurrent wildfire area where it's likely to be destroyed anyways. Or perhaps society is just taking on a new shape - in present day, car-reliant exurban/rural areas, many residential buildings have been built an impractical distance from anything else. If cars become less practical and people rely more on trains and live in denser villages, these outlying buildings may eventually be abandoned.
 - The longer they're left abandoned, the more they'll degrade. The structures will become unsafe, the materials will rot or break, or become inaccessible, and in some cases, they'll pose environmental risks as fuel tanks rust out, chemicals escape their storage, or damaged structures catch fire (even with the powerlines cut upstream, abandoned solar panels or poorly-isolated generators backfeeding into the grid might allow for damage to an abandoned house to cause a fire). This is especially true with modern buildings, particularly the kind of cheap new houses and McMansions with their heavy reliance on petro-products like "structural" foam columns and facades, which will go up like a struck match.
 - Weather, encroaching water, mold, ice, and animals can all cause compounding damage to empty buildings surprisingly fast.

There's tons of embodied carbon stored in those structures. In their carefully-refined materials, their transportation, and in the act of construction. Some of those materials might be very difficult to produce for a society that carefully watches its externalities and seeks to do as little harm as possible.

By carefully disassembling these structures and providing the recovered materials to their communities, solarpunk societies can build for a much lower overall cost (both environmentally and in resources harvested from the world) while removing potential toxin or fire threats. And by filling in the buildings' cellarholes and replanting, they can rewild once-developed land, build better habitats, and restore their local ecosystems.

A deconstruction site will look much like a modern construction site in reverse. Different crews work on the building in stages:

- Safety inspectors will review the building and identify potential hazards. This will inform how (or

if) subsequent teams perform their work.

- A deconstruction site prep team will empty the building, inside and out, of furniture, homegoods, electronics, tools, hardware and other *stuff* left behind onsite. They'll work with their local library networks etc to find homes for the items they take out.
 - This stuff will pass through salvage networks that inspect and clean it, so it can be returned safely to use, allowing society to meet its needs without producing new items.
- Construction crews will begin working in reverse order. For a stick-frame building this may involve removing fixtures (sinks, toilets, doors, etc), interior cladding like sheetrock, plumbing and electrical, exterior siding, flooring, roofing, and eventually the frame itself. Once the foundation is the only thing left, it may even be cut up to recover the concrete.

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Last update: **2026/04/08 20:40**

