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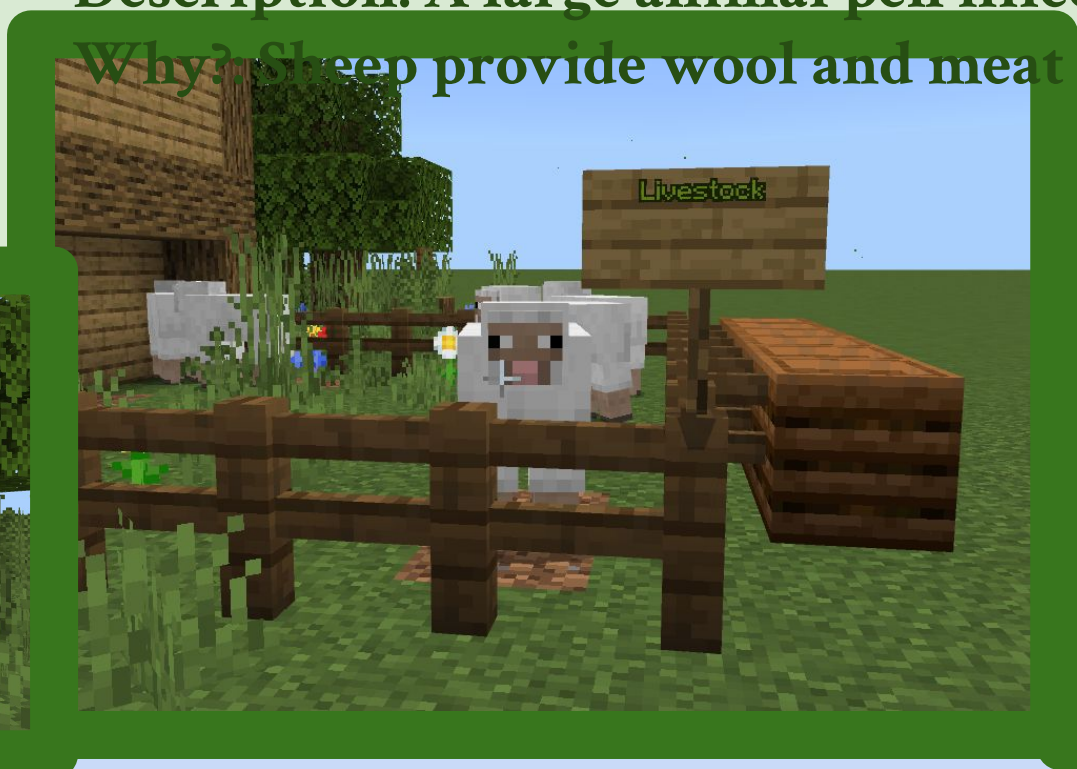
### Lumber Mill - Outside

Description: A group of trees behind the house to provide passive production of natural resources  
Why?: A Lumber mill allows us to produce natural resources to add on to the house. This is sustainable because you no longer have to buy products from a lumber production mill.



### Livestock & Compost Production - Outside

Description: A large animal pen filled with sheep. Compost bins close by.  
Why?: Sheep provide wool and meat and waste from the animals can be moved to the compost production so the farmland can be fertile and healthy.



### Vegetable Farm - Outside

Description: A plot of farmland filled with crops. The farm is irrigated by the greywater system  
Why?: A small vegetable garden/farm will produce food in bigger quantities. This also allows for the production of local products for others. Lots of options for food as well. (Potatoes, Wheat, Beetroot, etc.)



### Synthetic Wetland - Greywater

Description: Water from the greywater storage area drips down into a man made wetland. This wetland filters out chemicals naturally,  
Why?: A synthetic wetland is an organic way to remove toxic pollutants from the water.



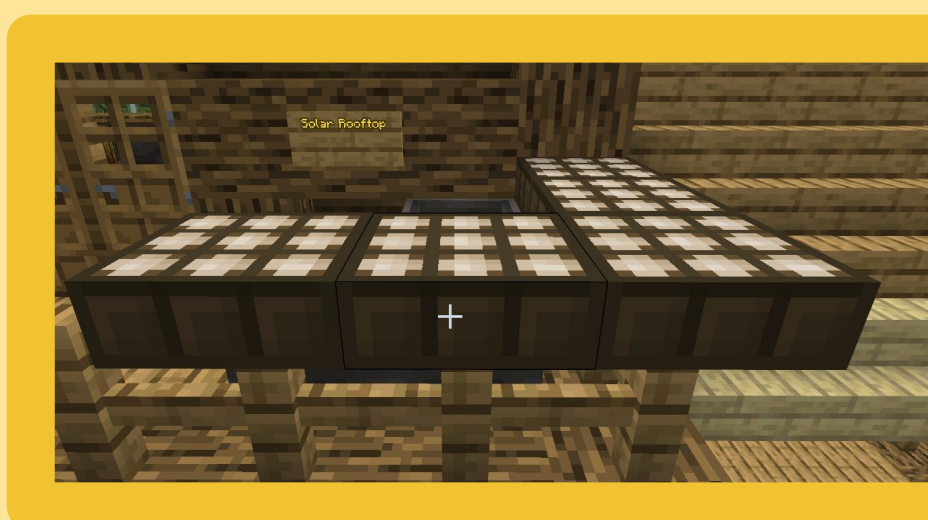
### Sewage Overflow, Water Filter, & Greywater Storage

Description: Water used from the rest of the house flows through the sewage overflow pipes and through the filter. After that, it will go through the natural synthetic wetland to remove pollution, then it is stored in the greywater storage area to be used in the rest of the house  
Why?: This allows water to be reused in an energy efficient way and doesn't waste any water.



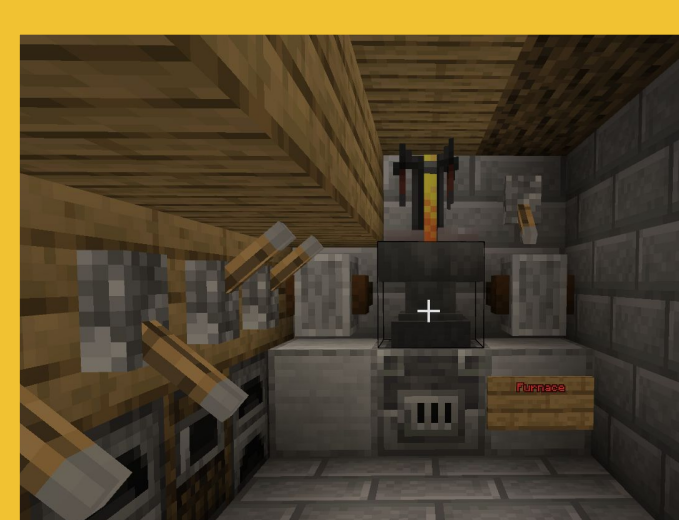
### Solar Rooftop - Energy

Description: Flat brown plates that absorb energy through solar radiation.  
Why?: These plates produce a passive energy collection to power the rest of the house.



### Furnace & Rain Collection - Energy

Description: A Furnace to heat up the house in the winter with natural energy. Passive rainwater collection for the greywater system.  
Why?: 2 Natural resources to sustain the houses energy and heat while also providing for the greywater system



### Geothermal - Energy

Description: During the winter, underground is much hotter than the surface. Using glycol and water, the geothermal well pulls energy from underground.  
Why?: This is a natural source of energy to heat up the house. When the furnace's heat is not enough. This is sustainable because instead of using a normal heater, it will provide heat with no maintenance costs.



### Ventilation & Insulation

Description: Ventilation allows air to travel throughout the house which is a super efficient way to heat or cool the house. Insulation is a fluffy piece in between the walls.  
Why?: Ventilation is an efficient way to transfer heat and the insulation keeps it in the house.



### Smart Blinds & Windows

Description: Windows allow heat to escape quickly so these blinds use the outside temp to decide whether to close or open.  
Why?: This allows heat to travel freely or to be captured in the inside based on you!



### Crop Rotation & Compost Toilet

Description: Rotation of out of season crops and in season crops. Compost toilet takes waste & add compost production  
Why?: The crop rotation allows for the vegetable garden to be useful in all seasons & the compost toilet wastes less water while also making the farm more fertile

