Autonomous house

3D PRINTED, SMART, MODULAR HOME IS FULLY POWERED BY SOLAR

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PassivDom is a Ukrainian startup that has designed a fully autonomous house, requiring no plumbing or pipes and that generates its own electricity and power.

A completely passive building, requiring no external structures like foundations, plumbing and water tanks, the PassivDom zero carbon emission, autonomous home is 3D printed in modules. Using proprietary window technology that eliminates nearly all heat loss, the windows are almost as warm as walls, allowing the home to be flooded with light, whatever the weather or climate. Solar panels provide all energy needs, with extra capacity stored in a battery.

The modular design allows the home to be built in a variety of sizes and shapes, and its carbon and fiber glass frame makes it strong yet lightweight. A PassivDom home can be set up in one day and comes equipped with all furnishings and appliances for immediate move-in. Every appliance in the home is connected to the Internet of Things and is controlled via the owner's smartphone. This allows the home to not only run extremely efficiently, it learns the habits and preferences of residents as time goes by, allowing for increasingly smart functioning across the entire building.

Modular design is helping citizens around the world make more of limited space, which is particularly useful as urban dwelling continues to increase. A mechatronic, dynamic furniture design doubles the live-work space in these homes. And another example of mobile living making beautiful, sustainable design more accessible are these smart, square homes that allow owners to sell excess power back

to the grid. Are property laws now in need of an urgent update to better accommodate the variety of new mobile living options?

1st March 2017
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