

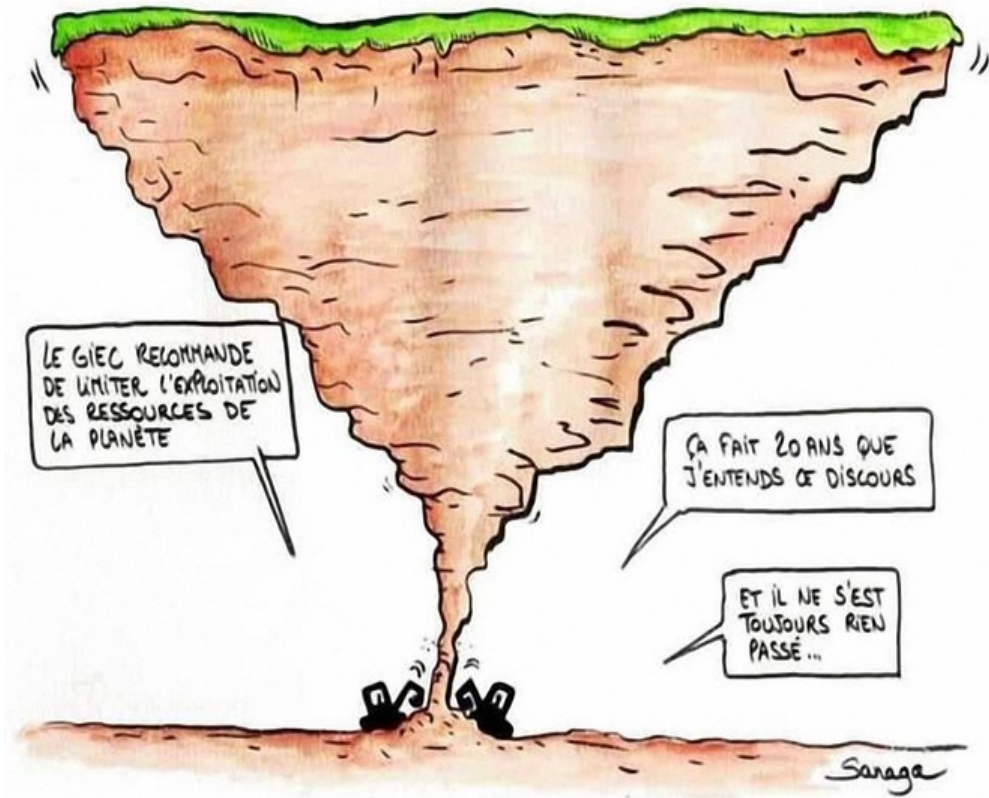


Low-Carbon and Low-Energy consumption Houses

*Positive energy Solution
commercialized in
September 2022*



It's High Time!



What about construction?

Here is what we consume in France per year:

314 million tonnes of aggregate (sand and gravel),

183 million tonnes of cement, not even mentioning polluted water for manufacturing and washing.

4.5 million m³ of timber per year knowing that to produce 1m³ of exploitable timber, it is necessary to cut 10m³ of wood in the forest.

4 million tons of tiles and bricks.

It requires 20 million truckloads.



The automotive industry is planning to eliminate thermal engines in 15 years, the building industry has not planned anything yet.

The CO² emission in the building and construction is unfortunately catastrophic.

Current mainstream houses

90 % of traditional constructions (concrete blocks or bricks)



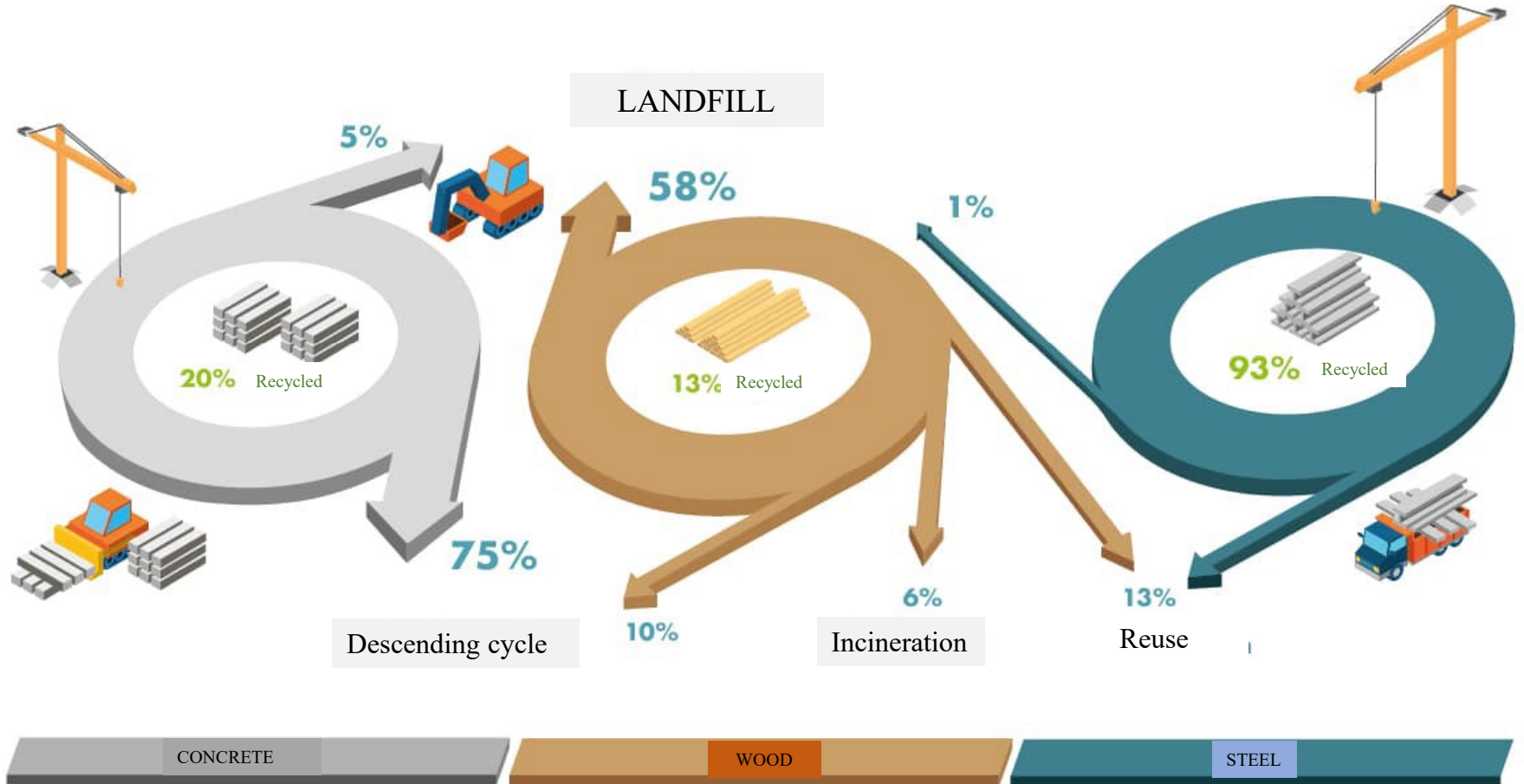
MOASTEEL HOUSES FOR BETTER EFFICIENCY

	Concrete	Wood	MOASTEEL House
Materials weight	150 T	60 T	15 T
Transportation	20 trucks	3 trucks	1 truck
Construction time	18 months	8 months	6 months
CO2 emissions	600 kg/m2	450 kg/m2	300 kg/m2
Structural calcs	None by default	Temperate areas	Seismic + Cyclonic
Calorific value	Medium	High	Low
Effort to reach PEH (positive energy house)	Very high	Very high	Minimal

9 % of Wood



Recycle Cycle





MOASTEEL
HOUSE

An ecological new way of construction for residential houses





MOASTEEL
HOUSE

LA TECHNIQUE MOASTEEL HOUSE



- 1. Supporting Steel structure.**
- 2. Double insulation :** - Exterior : with prefabricated insulation boards.
- Interior : with classic lining.
- 3. Insulation of the slabs with a projected foam.**
- 4. Thermal bridges: 2 patents filed to remove them.**
- 5. Consumption: only 150 euros of heating per year for 100m².**
- 6. Maintenance: 30 years warranty on the exterior coating.**
- 7. Foundations: screw-in metal piles on all types of soil without the use of concrete.**
- 8. Integration: photovoltaic panels in roof and facades.**
- 9. Vegetated roof: to improve summer comfort.**
- 10. Implantation: possible on foundations of existing houses.**



DETACHED HOUSE MARKET



The single-family home market in France represents 125,000 buildings per year in 2019.

The single-family home market in Europe represents 865,000 buildings per year in 2019.

Since the beginning of the health crisis, many urban dwellers have been planning to leave the city to enjoy a greener environment.

This trend in the housing market, which began at the end of 2018, is accentuated by the confinement and development of tele-work.



MOASTEEL
HOUSE

DEVELOPMENT PERSPECTIVE



Our houses are currently produced individually and tailor-made.

We hope to be able to scale-up the production of our system to reduce costs.

Our system allows us to completely rethink the way we do individual homes.

It is necessary to produce in the factory a central core which includes the equipped kitchen, the bathroom, the toilet the technical room with a laundry area for the washing machine and the dryer.

This transportable assembly on a road gauge is directly mounted in the center of the house and serves as a stable base for the entire structure of the house.

All electrical wiring is on hold in the central module before being deployed along walls and floors.

From this central module, the different parts will be assembled according to the customer's choice of volumes and exterior finishes.

We also hope to improve the digitization of the commercial part by allowing our customers to choose and design their home in 3D.

Labeled by « Solar Impulse Efficient Solution »



Habitat individuel

1^{er} Prix
Trophées Bâtiments Résilients 2020

Concours organisé par



Avec le soutien de



***Brevets enregistrés INPI**
N°09-02104 et N° 11-60756





JOIN US !

Avenir Acier (MOASTEEL HOUSE)

16 rue Rayet Liénart

51420 Witry lès Reims

Tel : 03.26.08.07.37

contact@moasteelhouse.fr

www.moasteelhouse.fr

