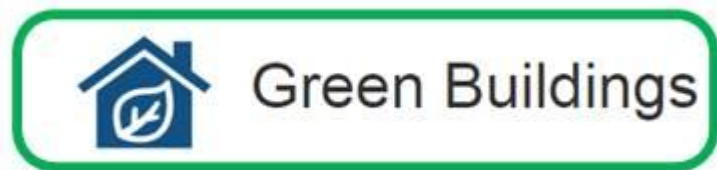




Case Study



Case 4 France → Paris: Vertical Forest (Houses)

Vertical Forest vision for Paris





CASE STUDIES

Case 4 France → Paris: Vertical Forest (Houses)

Problem to resolve: Urban Heat Islands; Global warming through CO2 emissions

Means: Transformation of urban CO2 Emissions into O2 molecules through vertical plant cover of building surfaces.



Secondary Tool: Photo Osmosis through plants incorporated in Buildings

Case 1 Paris, France:

Visions for a Paris – Green and Sustainable

Description:

Paris, France: Proposed “Forest Tower” Tao Zhu Yin Yuan Shall Help Reduce CO2 and Air Pollution



Vincent Callebaut Architectures www.vincent.callebaut.org

<http://app.eltiempo.com/multimedia/fotos/internacional18/el-imponente-edificio-bosque-que-servira-para-combatir-la-contaminacion/16816541>

Description:

The architects Vincent Callebaut's presented their vision of a green, sustainable Paris is so gorgeous, it makes the glorious French capital looking even more magical. The 2050 Paris Smart City project was commissioned by Paris's City Hall, as it looks at ways to reduce the capital's greenhouse gas emissions by 75 per cent by 2050. With input from engineering firm Setec Bâtiment, Vincent Callebaut envision great residential towers featuring photovoltaic and thermal shields, producing electricity and heating water. Rainwater would be collected

for "reversible hydro-electrical" pumps too for generating power cleanly. Other mad ideas include vertical parks with "algae bioreactors", bamboo towers with vegetable gardens and bridges that seem inspired by jellyfish. It's a drastic overhaul of the city, and one that is unlikely to ever approach reality, at least in our lifetimes. But with the designs also supporting increased population numbers, such designs will increasingly have to be taken into consideration by future city planners.



Source: Lynch, G. 2016. Paris as a Green and Sustainable Future City Is Even More Beautiful. *Gizmodo*. 19 January. <http://gizmodo.com/paris-as-a-green-and-sustainable-future-city-is-even-mo-1680372218>