

Research content for the short video Forest City_ Utopia 2023

"Imagine a FUTURE where cities are FORESTS ... with organic surfaces producing green ENERGY"

Student Statement: "This video depicts the fusion of Graz with nature through various innovative developments and technologies, including sustainable energy production and vertical farming."

Forest City

Nature and the city will no longer be mutually exclusive in the future. People are already aware that regeneration and health are to be sought in nature and that urban environments, as we know them today, tend to lead to stress and also health side effects. Green cities, or nature cities, can be thought of as forests in which nature and especially trees are given a very large space.

Furthermore, it is about area-wide organic, bioactive & energy-active surfaces (soils, facades, roofs, traffic routes) instead of sealed and passive surfaces. Here energy, food & oxygen is produced as well as water is stored.

CO2 sequestration is one function that the Nature City fulfills. The other is that of a city in which people feel comfortable because innovative and natural surfaces have a climatizing effect and produce oxygen. There are no more heat islands and the city is a CO2 sponge.

Energy efficiency and energy production including intelligent storage and distribution is part of the natural city. Food can also be produced directly in the city. On roofs and facades, in public spaces and through vertical farming, integrated into the other use functions of a city.

Nature is once again becoming a part of the reality of life for residents, and a sense of it is also being rekindled in schools. This additionally leads to more awareness for the protection of nature.

Research from the Valley:

[Institute for Architecture and Landscape TU Graz](#)

[Institute for Urban Design TU Graz](#)

[Breathe Earth Collective](#)