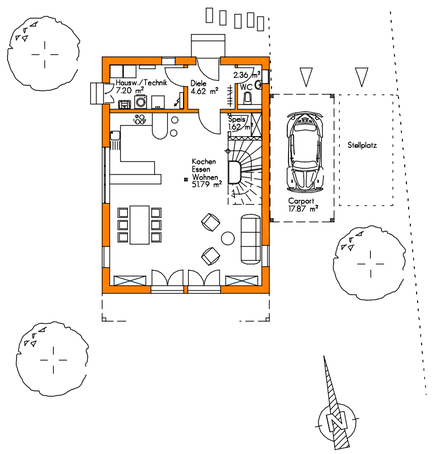
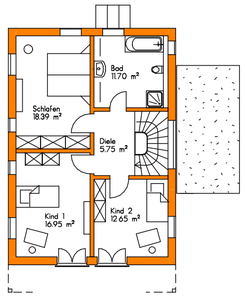
the Plushouse

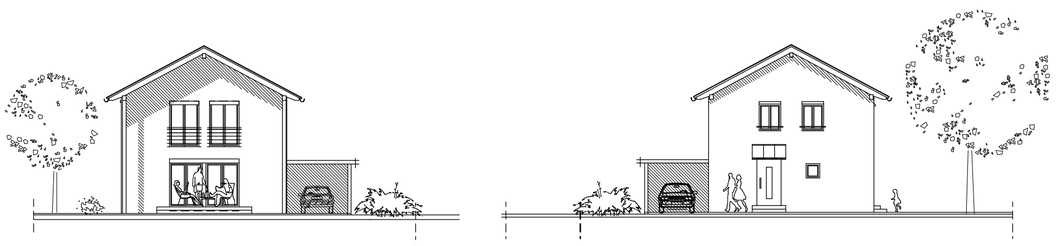
BUILDINGS OF THE FUTURE ARE NOT CONSUMING ENERGY, THEY ARE PRODUCING ENERGY

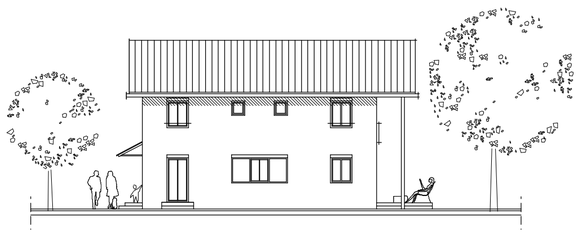


Ground Floor



First Floor





Views

Intelligent building and house keeping permits wastefulness with relish

Conditions:

Thermal insulation is far better than the minimum requirements for insulation set by EnEV.
Energy for heating demands approx 15 kWh/m²,
Primary energy demands <40kWh/m²/a.

This low residual heat is produced by regenerative energies
(biogas, solar energy, wind energy, wood stove, heat pump etc.)

Example: a one-family house with approx 130m² living area

A small heat pump needs approx 1,100 kWh/a electricity
and produces approx 3,300 kWh/a of thermal heat and hot water.
The aeration with "Wärmerückgewinnung" and solar installation needs approx 900 k Wh/a electricity.
There is also an additional 3.000 kWh/a for other electricity needs.
= 5.000 kWh/a total electrical demand.
This demand is covered by a pholtaic installation on the roof with approx 50m² and 6 kWpi power.
Output: ca. 5.700 kW/a, this is 700 kW/a PLUS!