1. Are schools renovated for the sake of children or to please the eye?

2. Do we need banks rather than healthy schools for our children – what do you think?

3. Must a classroom smell like smelly socks?

4. How much are you willing to pay for your family car and how much for the quality of the school building in which your children go to school?

5. Do you know of any company that made perfect plans for school renewal and then executed the plans just as well?

ARGUMENTS

Energy efficiency

In the sense of nearly zero energy buildings (nZEB), optimal building insulation combined with appropriate energy supply (e.g. photovoltaic, solar thermal and biomass heating systems) substantially reduce energy costs.

High indoor environmental quality

Buildings with a good indoor climate effectively safeguard the health and well-being of teachers and pupils! High indoor air quality via ventilation together with good daylight utilisation via integrated sun protection, pleasant acoustic conditions and thermal comfort dramatically improve the indoor climate.

Existing frontrunners - models for future school renovation!

Different school renovation projects including optimal thermal renovation have paved the way for future developments. Such architectural showpieces receive good media coverage and extensive publicity! Yet, it is crucial to combine an attractive design with the advantages of technology.

Prefabrication

With prefabrication technologies, construction works on site do not take much time: the school renovation can be completed during summer holidays. Thus, pupils do not need to "move" to temporary facilities for their classes. The work on the elements can be done in a safe and weather-independent factory hall. Prefabricated elements allow good access to installations from the outside, which makes repair and maintenance easy.

Sustainable and green – reuse it!

Energy efficient buildings using renewable energy sources (photovoltaics / solar thermal systems / biomass etc.) reduce CO2-emissions and save our resources. Timber protects our climate in two ways:
1. as a building material, it binds carbon over a long period
2. a new tree will replace the one that was cut down and processed (sustainable forest management) – and will again absorb carbon from the atmosphere.

Market positioning – pioneers are in demand!

Architects, civil engineers and developers who focus in their work on school renovation have a big market potential. Well-prepared projects can win them new market shares. To that effect, they need to have specialist knowledge about energy management and building service engineering, indoor climate and building physics, architectural designing, construction methods (e.g. timber constructions) or about specific legal requirements. There is also a good chance of success for different companies that join together to offer integrated renovation concepts.

Timber - a local renewable building material!

Together with renewable insulation materials such as cellulose, hemp, flax or straw, wood preserves the quality of life in rural areas, saves jobs and boosts the local economy.

RENEW SCHOOL

School renovations:

Healthy/Green – Quick – Affordable

MISSION

Our Mission is to significantly downsize the energy use in schools while at the same time, creating comfortable, healthy conditions for the pupils and teachers, through the implementation of technologies that save energy, reduce CO2-emissions and improve indoor air quality. The use of prefabricated timber elements is at the core of the Renew School renovation process, aiming to greatly increase the building quality, while reducing construction costs and time.

1. PREFABRICATION

2. TRANSPORT

3. ASSEMBLY

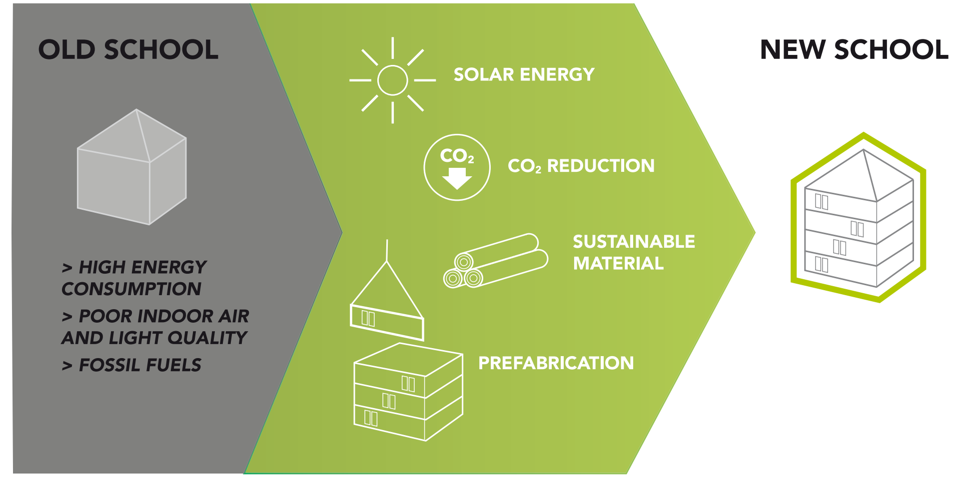
ABOUT THE PROJECT

RENEW SCHOOL project aims at retrofitting a large number of school buildings to Nearly Zero Energy Building (nZEB) standard. The Project assignment is to motivate and to give municipalities, school owners, companies as well as end-users appropriate tools and solutions for renovating existing school buildings to nZEB standard.
The project will promote and increase high-energy performance and prefabricated timber-based renovation of school buildings in Europe.

Integrated and multifunctional solutions are based on:

- Timber prefabrication (integrated facilities)
- Ventilation (indoor air quality)
- Intelligent Daylight / Shading (control)
- Renewables (integrated in heating, DHW)

PROCESS



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If you are interested in the project, contact us!

RENEW SCHOOL

TO:

You can also fill in this questionnaire online on our website www.renew-school.eu.