Serial Renovation
Stefan Oehler
We do not have an energy problem, we have a carbon problem!

Our very easy to understand net-zero Definition:

\[ \text{CO2 Credit} > \text{CO2 Debit} \]
Our Philosophy

minimal-invasive intervention
or
do not disturb the tenants
Our Mission:

Carbon neutral living for all

or

„Volks-Wohnen“
Our Renovation Package

- Facade Elements with Windows and Doors
- Roof Elements with Photovoltaics
- MEP Elements with Ventilation and Heat recovery
- Electric Heatpump
- Basement Elements
- Extension of the Lifecycle
- Ecological Building Material
The First Net Zero Renovation in Germany in 2017
Typical Residential Building Type built 1936 in Neu-Ulm
Energy Plus Renovation

Werner Sobek
Stefan Oehler
2017
Ecoworks First Project in Hamelin 2021
3 Buildings in Hamelin
Built in 1930
2018

Bevor the Renovation
Prefabricated Elements
Each Element was mounted in 20 Minutes
The Façade Elements are including:

- Windows
- Ventilation
- Sunscreens
- Insulation
- Air Tightness
- Cladding
The Facade Elements are sitting on Steel Brackets
The Roof Elements were put on new Purlins
The Buildings are wrapped completely with Insulation
- Airtightness
- Insulation
- Thermal Bridges

Passive House Standard
A New Skin made of Facade- and Roof-Elements
Each window has a ventilation box with heat recovery
The ventilation box (yellow) is as wide as the window
Heatpump and water tanks are in a separate building
Water tanks and installation
Heatpump
The Building needs bigger radiators, because they run with only 45°C – like a floor heating.
ecoworks | carbon neutral living for all.
Thank you for your attention

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