

HOF8

THE “PLUS-ENERGY” FARMSTEAD IN THE TAUBER VALLEY



The demolition was already decided when the builder was able to buy the property, thereby saving one of the last contiguous farmsteads of the village. Formerly used for agricultural purposes, the building complex consists of an L-shaped combination of a stable, a barn and a shed, accompanied by a detached dwelling house. A high level of liveliness is ensured because the different parts of the buildings are used for different purposes: the farmhouse for the planning office, the former stable for a midwife practice, the shed for apartments and the remaining barn sections for different general purposes including a small farmyard museum, an office exposition, theater rehearsals etc. Serving as an energy source, the former water well also represents a new meeting point for the approximately 50 residents and users of HOF8.

HOF8 proves that a refurbished farmstead can produce more energy than it consumes – at the highest level of convenience and using latest technology. Themed “Be born – go to work – get old”, HOF8 demonstrates how local development, demographic change, energy transition, renewable energies and modern building culture can be merged to form a powerful symbiosis in historic buildings.



Hof



ENERGY

Energy is exclusively obtained from renewable sources at HOF8. The energetic concept encompasses photovoltaic arrays, small wind turbines, a local heat network including groundwater and air/water heat pumps, a ventilation system with heat recovery, charging stations for electric vehicles and an LED-based lighting concept. The PV array with a total of 550 square meters and a power of approximately 81kWp is installed on the three roofs (east, south and west). It supplies electricity to all the buildings, the charging stations and the heat pumps. Excessive electricity is fed into the grid. Two small wind turbines will complement the electricity supply especially at night and in time with little sunshine. Traveling to work also becomes sustainable because all employees can charge their vehicles for free at the charging stations. The local heat network consisting of the groundwater heat pump and thermally insulated feed and return pipes supplies heat to the office, the midwife practice and the two apartments. The farmstead's former water well was rehabilitated for this purpose. The ventilation system featuring heat recovery supplies fresh air to the office building without generating any noticeable heat losses.

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THE AWARDS



Klärle GmbH has received eight awards for HOF8:

- Exemplary Building Main-Tauber-Kreis - 2010 - 2017
- Architectural Award Building-Integrated Solar Technology - 2017
- Hugo Häring Award of BDA Heilbronn-Franken - 2017
- European Architectural Award "Energy + Architecture" - 2015
- Regional Award in the Contest "Haus.Häuser.Quartiere // Wohnen nachhaltig gestalten" - 2014
- European Solar Award - 2014
- Demographic Excellence Award Baden-Württemberg - 2014
- German Sustainability Award (Special Award 'Sustainable Construction') - 2014

The awards demonstrate that reasonable, structure-enhancing sustainability projects with the ability to serve as a role model for the region and Germany as a whole can be successfully implemented even in regions with a high degree of agriculture that are particularly affected by the demographic change.



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KLÄRLE - GESELLSCHAFT FÜR LANDMANAGEMENT UND UMWELT MBH . TEL. 07934.99288-0
HOF8 . DER PLUSENERGIEHOF . BACHGASSE 8 . 97990 WEIKERSHEIM . INFO@KLAERLE.DE