



sector:	housing
project:	Résidences Avenir 1,2 & 4, 5, Limpertsberg, LU
total area	10.940 m ²
Study start date:	May 2014
completion date	December 2017
nature of work	Construction: study and following up MEP
cost techniques	€ 4.435.990,00 VAT excluded
client	Consorts Avenir, 44, rue Ziggy vu Lëtzebuerg, Luxembourg, LU
architect	Danielle Weidert, 3 r. de l'Ecole, L-6235 Beidweiler, LU

description

Winner Green Solutions Awards 2019 – Luxemburg Low Carbon

Winner Green Solutions Awards 2019 – Luxemburg Energy & Temperate Climate

Residence 'Avenir' consists of two 4-storey buildings which are connected underground with each other through a common basement 2 levels including parking for 32 apartments.

Heating is provided by 2 high-quality heat pumps that extract energy from the geothermal storage underneath the building. The heat pumps supply the underfloor heating of the apartments. Solar collectors on the roof utilize solar energy during the summer months.

D The production of hot water is provided by the heat pump capable of extracting energy from the gray water recycling system (wastewater from showers, baths, sinks and dishwashers)

Ventilation occurs using a double flux ventilation system with energy recovery using high efficiency plate heat exchangers

sustainable

Energy class : AAA

E Level: -

Certification: Passive

general data

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solar energy



PV panels



geothermal energy



comfort



passive cooling



water management



natural ventilation



green roof



heat recovery



louvres



glazing



insulation