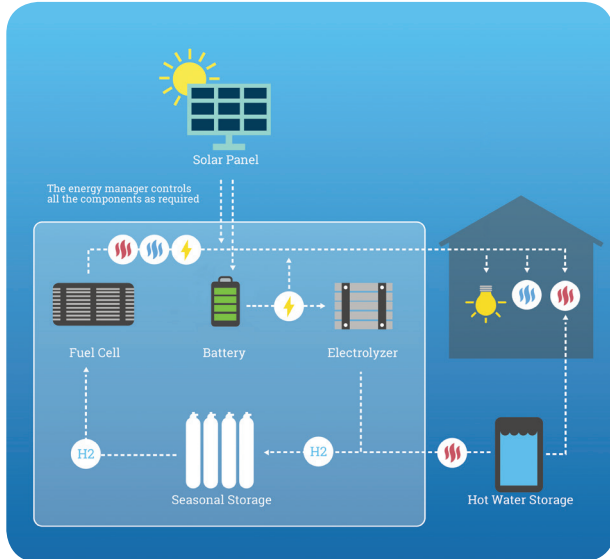


Picea at a glance

Picea: 100% independent and clean energy



Peak electrical output (5s)	kW	20
High electrical output (3h)	kW	8
Continuous electrical output	kW	1.5
Electrical stand-alone grid	V/Hz	230 / 50
Comfortable indoor ventilation	m ²	300
Indoor heat recovery	%	93
Seasonal storage capacity (usable)	kWh _{el+th}	600 – 3,000 ¹
Daily storage capacity (usable)	kWh _{el}	25
Thermal storage tank capacity (usable)	kWh _{th}	20
Emission		H ₂ O
Energy source		Solar energy
Annual CO ₂ reduction ²	kg	2,350 – 3,500
Annual power supply to home	kWh/a	3,000 – 6,000
Indoor space required	m ²	3
Outdoor space required	m ²	3 – 5
Water connection		G ½"
Ventilation connection	DN	100 – 200
Photovoltaic connection	VDC	3 x 250
Communication		MobileAPP

¹ Can be scaled according to location and consumption

² Source: German Federal Environmental Agency; 4-person household consuming 4,000 kWh of power

About HPS Home Power Solutions GmbH (HPS)

HPS develops and produces systems for storing and using solar energy in single and multi-family homes. HPS stands for safety, independence and sustainability in decentralized energy supply. The first system from HPS, Picea, combines energy storage, heating support and indoor ventilation in one compact system. Thanks to its high-performance energy management system, Picea is designed to meet the complete electrical energy needs of a family home. In addition, all waste heat produced is used to provide the house with heat and hot water, thus lowering the cost of heating. Compared to commercially available battery solutions, Picea has a hundred times more storage capacity with twice the output. Picea is energy efficient and provides energy in all seasons. This allows Picea to provide complete energy self-supply and independence from the grid. The energy produced by the photovoltaic installation on sunny days can either be used straightaway, or converted into hydrogen and stored. This energy is then made available at night or during the winter when there is little or no sunshine. The HPS system's fuel cell converts the energy stored as hydrogen back into electrical energy and heat as needed. HPS is based in Berlin. For more information, please visit: www.homepowersolutions.de/en

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