

# multiQ sun-ice | Kalte Nahwärme mit Eisspeicher



## Netzaufbau:

- 34 Häuser im KNW
- 240 kW Heizleistung B0/W35
- Jedes Haus mit eigener WP und eigenem multiQ sun Solarabsorber
- multiQ sun kombinierbar mit PV-Anlage
- Heizen und Kühlen

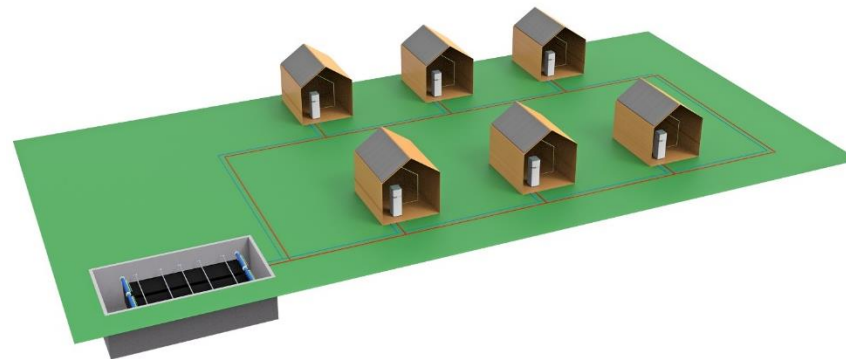
## multiQ Wärmequellensystem:

- Eisspeicher 500 m<sup>3</sup>
- multiQ sun 3-4x1250 je Haus

**JAZ<sub>gesamt</sub> > 5,0**

## Messwerte:

- multiQ sun Ertrag Nov-März: 500 – 750 kWh/m<sup>2</sup>
- multiQ ice 15-20% Quellenergie im Eisspeicher



Nr	Rückspeisung	Q <sub>spez</sub>	Rück/Entzug	Entzug	Quellenbedarf	Anteil Eis	Q <sub>Dach</sub>	Q <sub>spez_Dach</sub>
598	6.628 kWh	276 kWh/m <sup>2</sup>	4,35	1.522 kWh	12.764 kWh/a	12%	17.870 kWh/a	745 kWh/m <sup>2</sup>
612	3.581 kWh	187 kWh/m <sup>2</sup>	11,02	325 kWh	9.655 kWh/a	3%	12.911 kWh/a	489 kWh/m <sup>2</sup>
595	3.242 kWh	169 kWh/m <sup>2</sup>	1,64	1.979 kWh	12.764 kWh/a	16%	14.027 kWh/a	584 kWh/m <sup>2</sup>
603	2.943 kWh	153 kWh/m <sup>2</sup>	1,11	2.648 kWh	12.764 kWh/a	21%	13.059 kWh/a	680 kWh/m <sup>2</sup>
620	2.123 kWh	111 kWh/m <sup>2</sup>	1,08	1.974 kWh	12.764 kWh/a	15%	12.913 kWh/a	538 kWh/m <sup>2</sup>
594	1.613 kWh	84 kWh/m <sup>2</sup>	0,53	3.059 kWh	12.764 kWh/a	24%	11.318 kWh/a	596 kWh/m <sup>2</sup>
627	1.073 kWh	56 kWh/m <sup>2</sup>	0,29	3.741 kWh	11.127 kWh/a	34%	8.459 kWh/a	325 kWh/m <sup>2</sup>
635	885 kWh	49 kWh/m <sup>2</sup>	0,42	2.093 kWh	9.655 kWh/a	22%	8.447 kWh/a	469 kWh/m <sup>2</sup>
611	561 kWh	29 kWh/m <sup>2</sup>	0,25	2.248 kWh	11.127 kWh/a	20%	9.440 kWh/a	497 kWh/m <sup>2</sup>
626	116 kWh	6 kWh/m <sup>2</sup>	0,07	1.736 kWh	9.655 kWh/a	18%	8.035 kWh/a	335 kWh/m <sup>2</sup>
609	4.573 kWh	238 kWh/m <sup>2</sup>	0,69	6.585 kWh	12.273 kWh/a	54%	10.261 kWh/a	428 kWh/m <sup>2</sup>
622	3.061 kWh	159 kWh/m <sup>2</sup>	0,58	5.239 kWh	12.273 kWh/a	43%	10.095 kWh/a	421 kWh/m <sup>2</sup>
618	1.141 kWh	63 kWh/m <sup>2</sup>	0,23	4.976 kWh	9.818 kWh/a	51%	5.983 kWh/a	332 kWh/m <sup>2</sup>
623	1.121 kWh	58 kWh/m <sup>2</sup>	0,71	1.582 kWh	9.818 kWh/a	16%	9.357 kWh/a	520 kWh/m <sup>2</sup>
624	273 kWh	14 kWh/m <sup>2</sup>	0,06	4.809 kWh	7.364 kWh/a	65%	2.828 kWh/a	149 kWh/m <sup>2</sup>



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