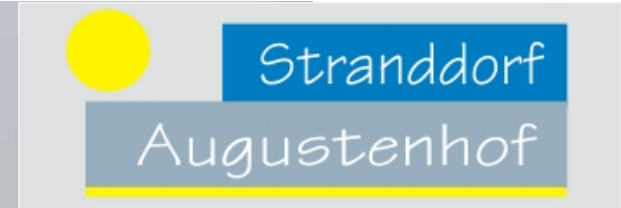




Experiences with a 100% renewable heat supply of the holiday residence “Augustenhof”

Residence area „Stranddorf“



Residence area „Stranddorf“



A small but beautiful „village“ with 15 residence flats and one „com-munity“ house based on an eco-logical concept directly at the baltic sea coast:

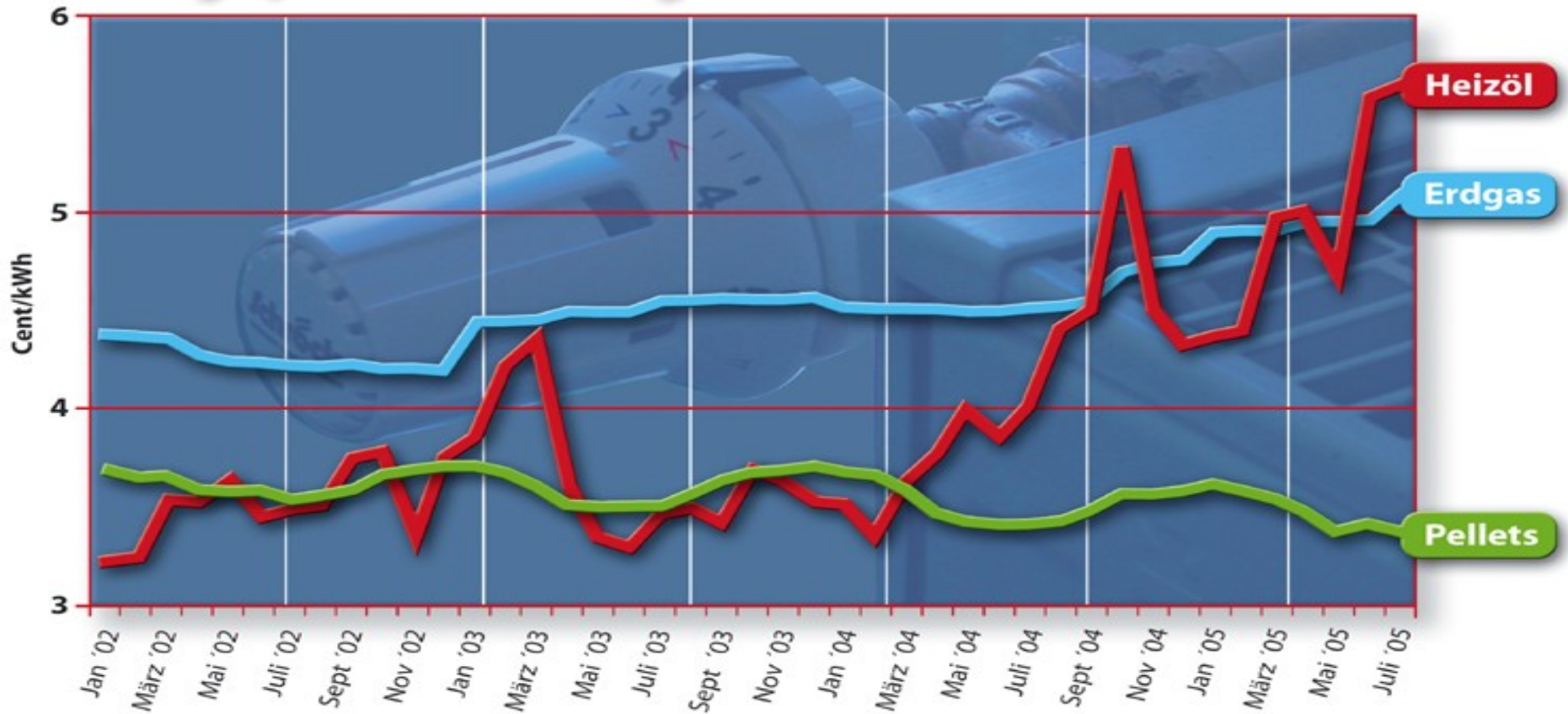
- Low energy demand in all houses
- Ecological materials were used (wood, clay)
- Innovative, efficient technologies



Motivation and project idea



Energiepreisentwicklung in Deutschland



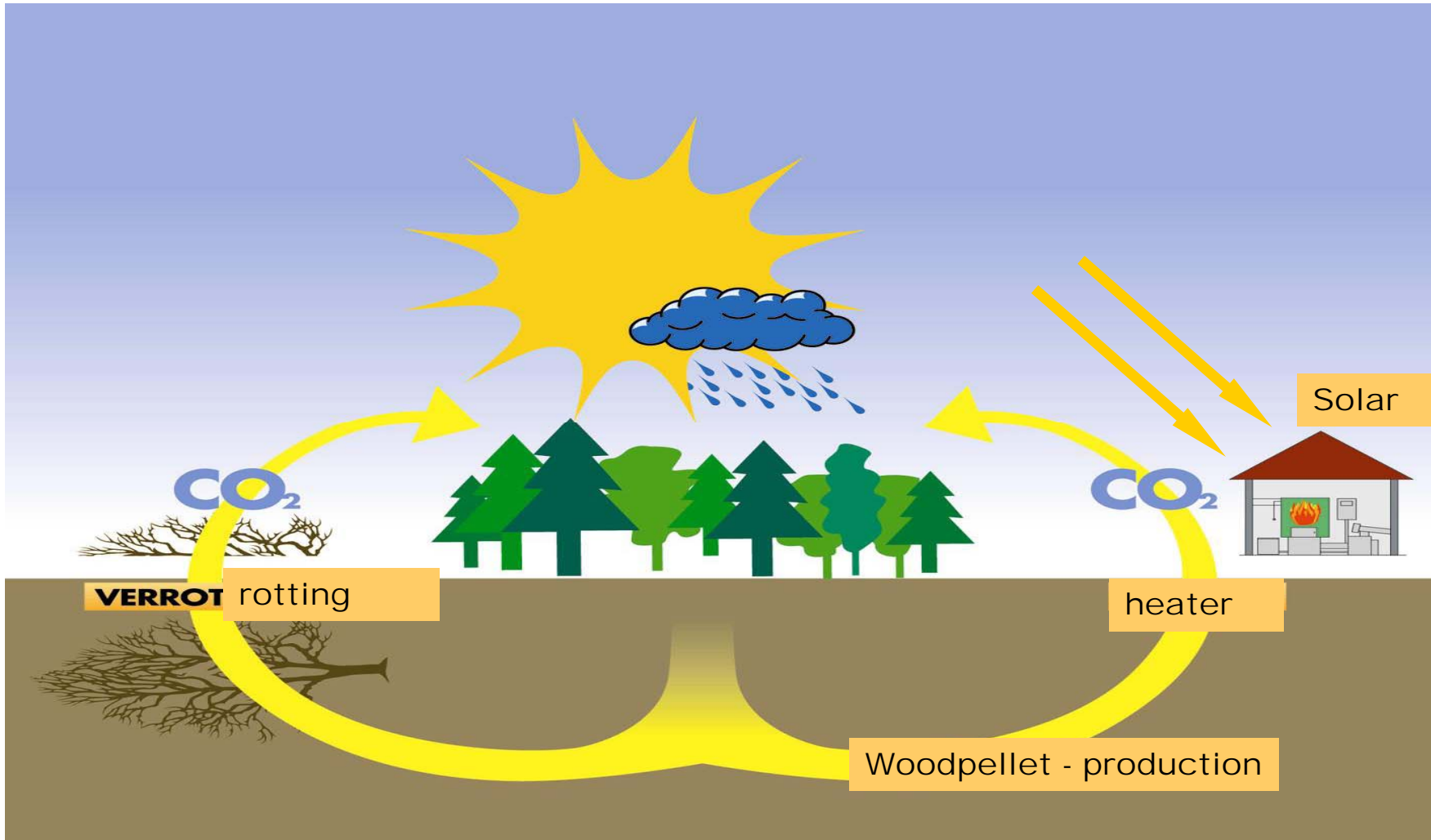
Quelle: Pelletspreise = Deutscher Energie-Pellet-Verband e.V. / Solar Promotion GmbH
Heizöl- und Erdgaspreise = Brennstoffspiegel

Basis: Verbraucherpreise für die Abnahmen von 3.000 l Heizöl,
33.540 kWh Gas bzw. 6 t Pellets (inkl. MwSt. und sonstigen Kosten)

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Motivation and project idea



Installed technology



47,5 sqm collector area



Installed technology



32 kW pellet boiler



6,2 t fuel storage tank



Installed technology



4 tanks with 700 l water for heating and warmwater



Installed technology



All 15 houses are connected with the central Solar-Pellet heating system

Furthermore in the 15 houses are installed pellet ovens as „fire places“ for additional heating and a warm „feeling“



First experiences



- **Since summer 2004 in operation**
- **At the beginning some problems with the controlling adjustments**
- **After the optimization a comfortable and trouble-free heating supply**
- **High interest by the visitors of the hotel residence and external visitors**
- **2nd award of the IDUNA-environmental competition (= good marketing)**



Conclusion



The Solar-pellet-hybrid solution is a good possibility for an economical and ecological heat supply!

Thank you for your attention!

