

Drying of herbs

Research Project “SolSorpDry”

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2022

AEE - Institute for Sustainable Technologies was founded in 1988 as a non-university research institute. It is today one of the leading institutions in the field of renewable energy and resource efficiency.



1988



In the world of renewable energy and resource efficiency we transform ideas into reality through:





Our Team



75
Staff Members

10-15
Master Students

4
PhD Students

10
Different Nationalities

Our Organisational Structure



Our Main Research Topics

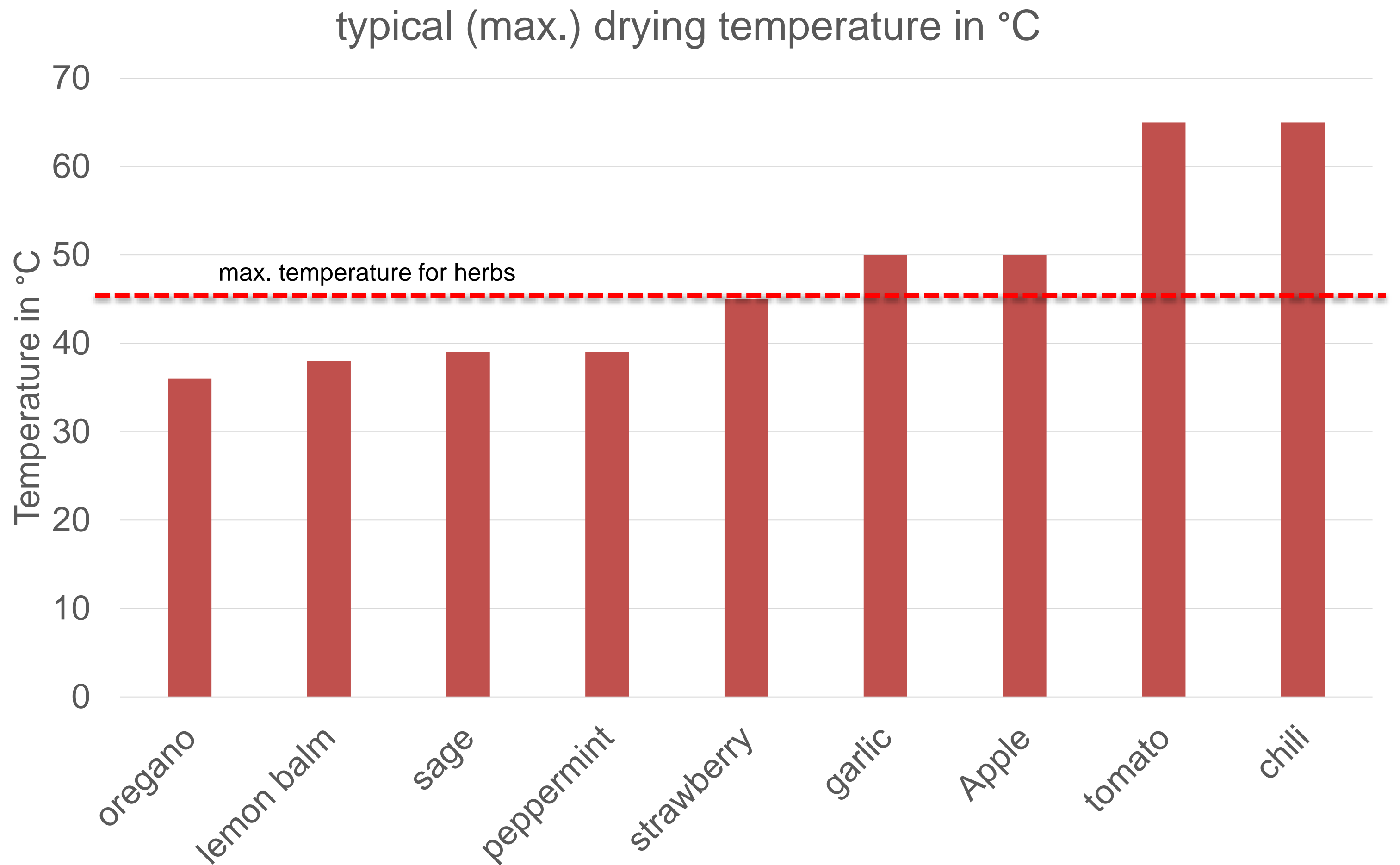


SolSorpDry Project Summary

- National Funded Project: Future Fund Styria 2022 - „GREEN TECH X“
 - Development of a mobile and fossil-free drying facility
- Project Partner: BEST - Bioenergy and Sustainable Technologies GmbH
 - System-Modeling
- Cooperation Partner: Styrian experimental station for speciality crops
- Aim: mobile drying facility using 100% renewable energy for herbs
 - Cornflower
 - Basil
 - Peppermint
 - Thyme
 - Lemon balm
 - Garlic



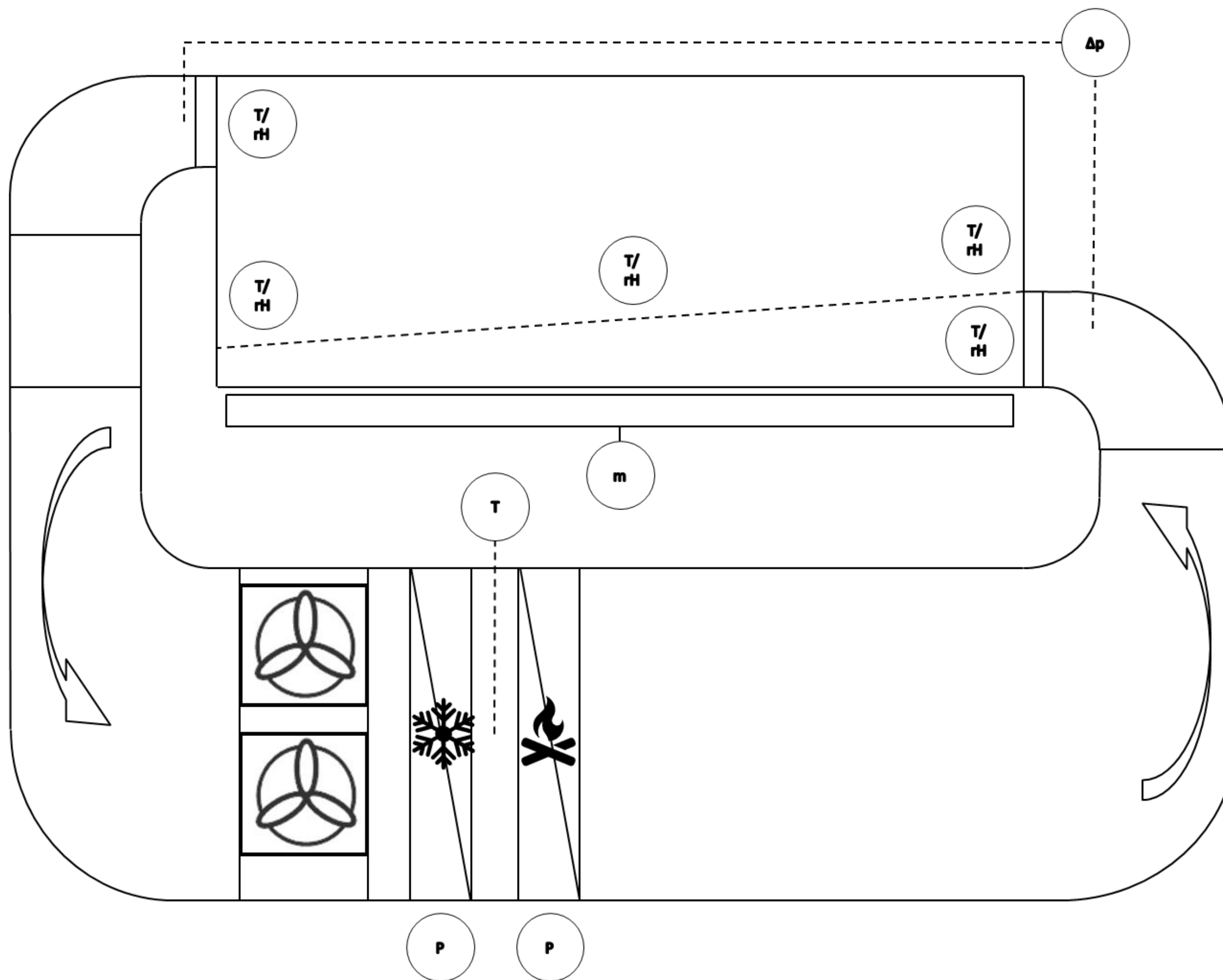
Temperature sensitivity of herbs



Prototype Drying Facility



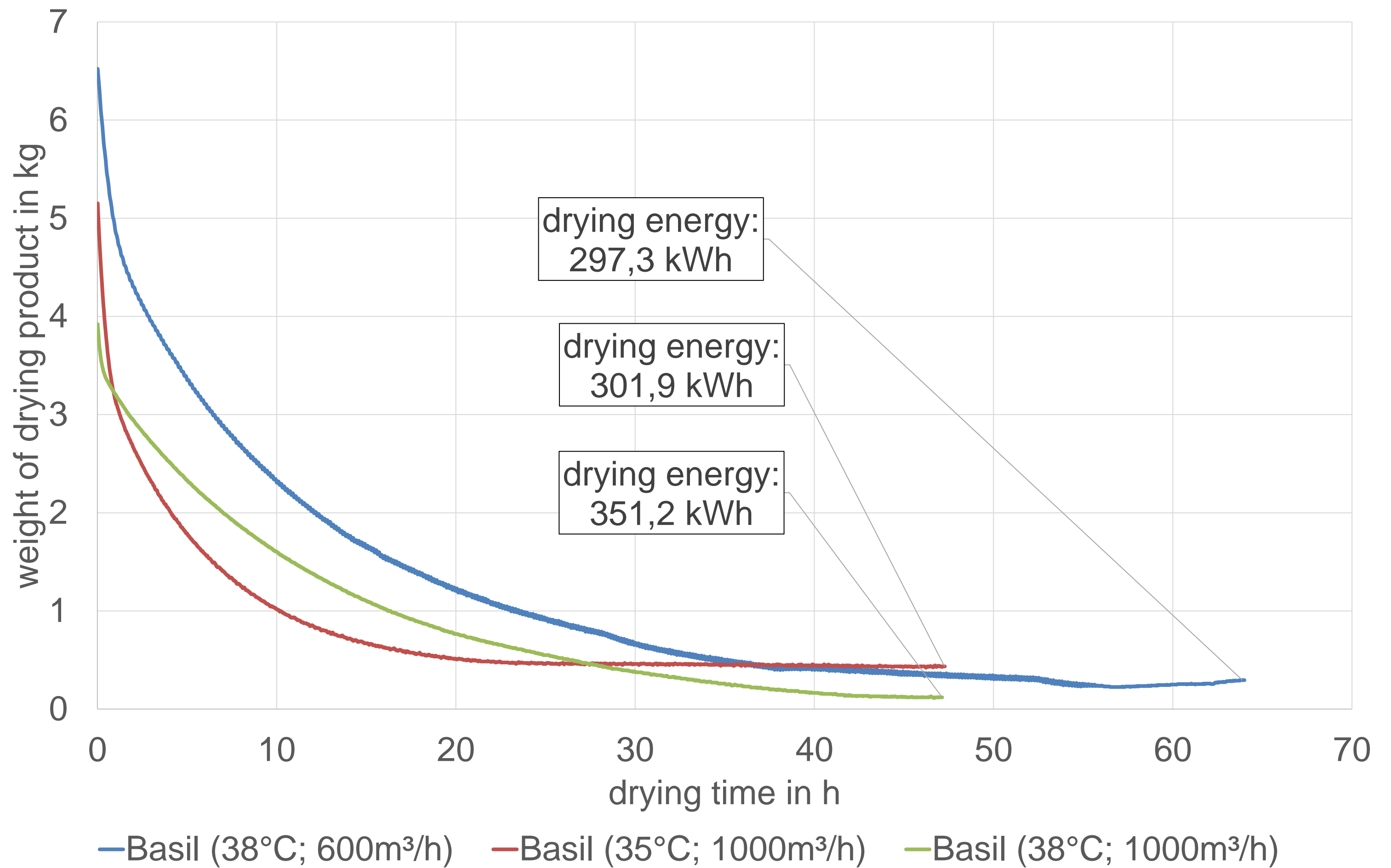
Scheme of the facility



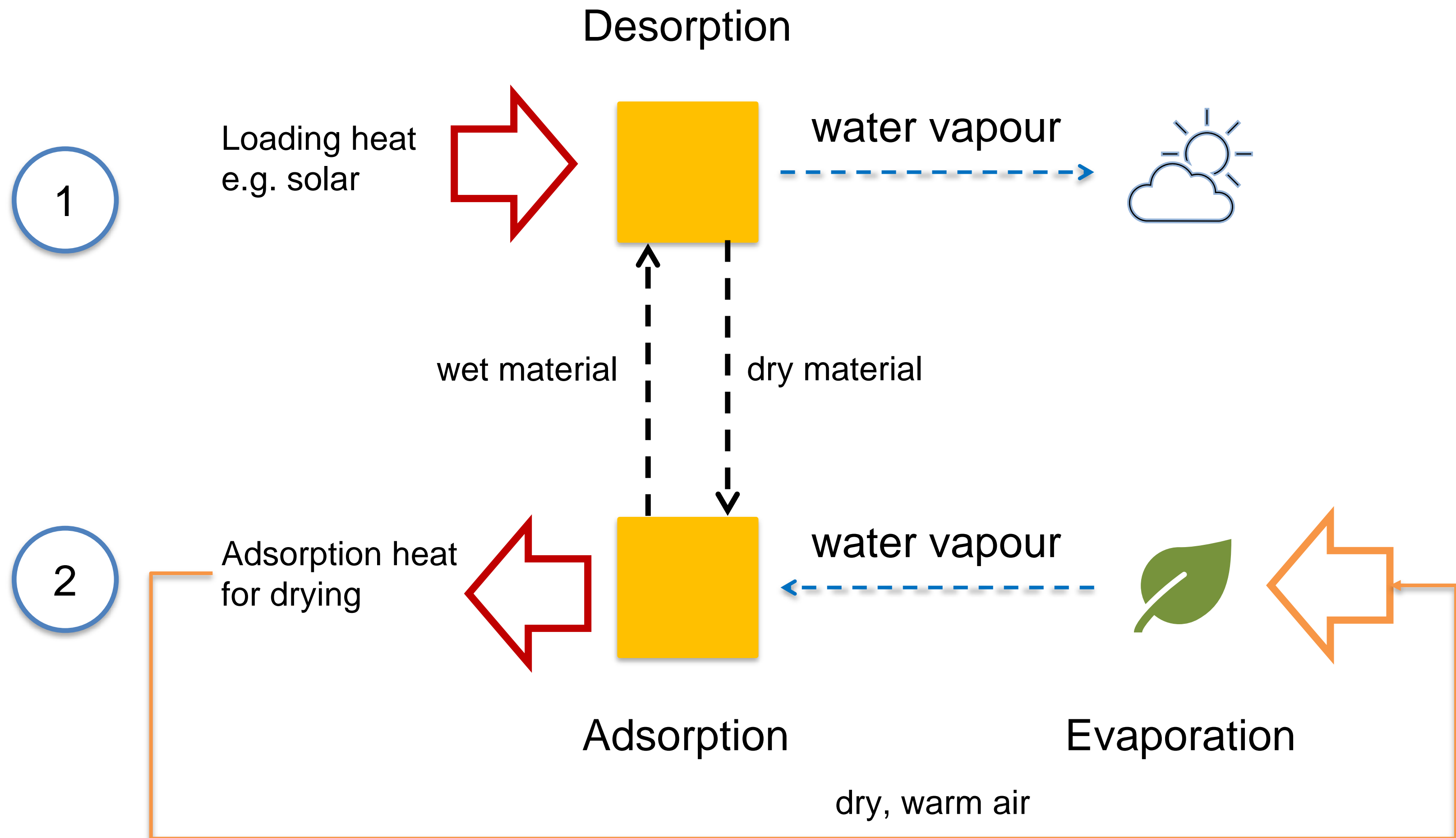
Drying Process of Basil



Drying curves of Basil

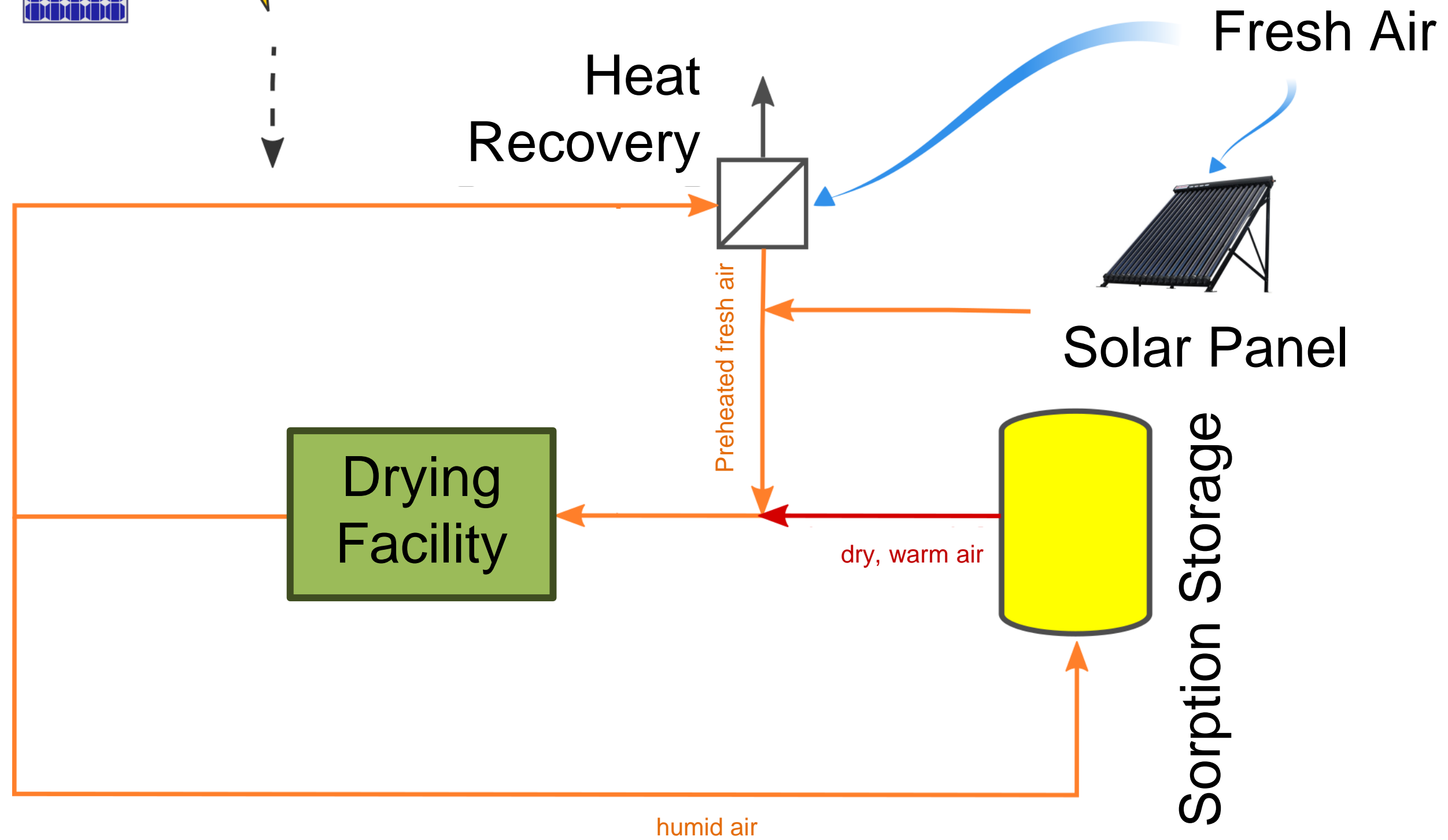
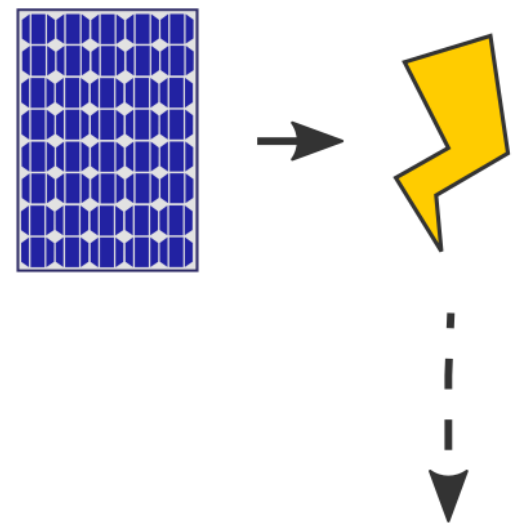


Principle of sorption for drying process



Outlook: Concept in Development

Photovoltaic
Panel





AEE INTEC

IDEA TO ACTION

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<https://www.aee-intec.at/solsorpdry-development-of-a-mobile-and-fossil-free-sorption-drying-plant-p352>

