

Drying of Food Ingredients
NEFI Technology Talk, October 12th, 2023



FOOD DRYING: A MATER OF TASTE AND WASTE



Preservation
WHY?
Storage
Quality
Safety

Energy Consumption

Costs

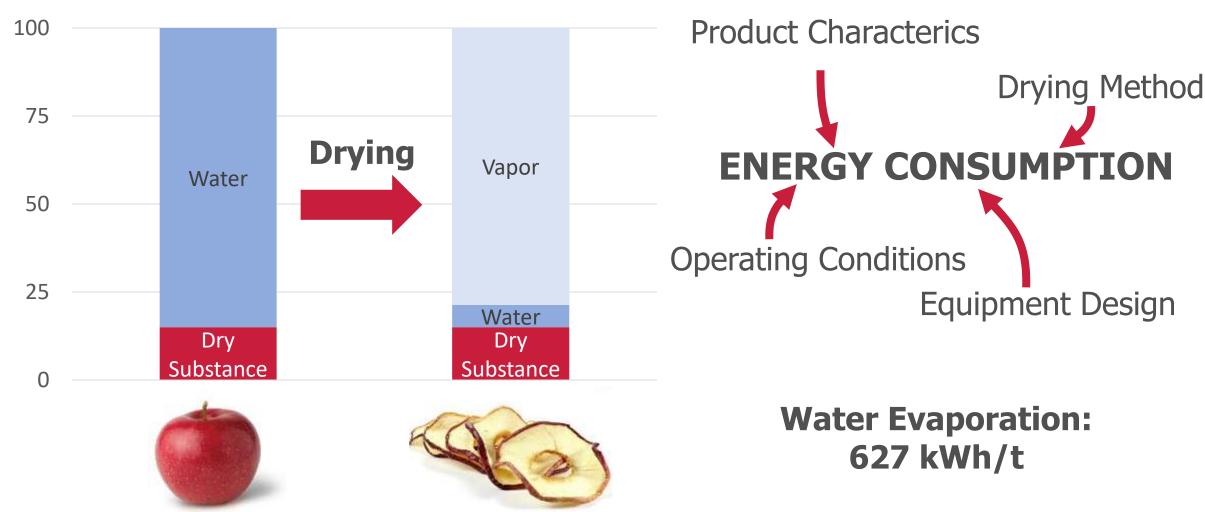
CHALLENGES?

Consistency

Decarbonization



ENERGY CONSUMPTION: WATT YOU NEED NO NOW





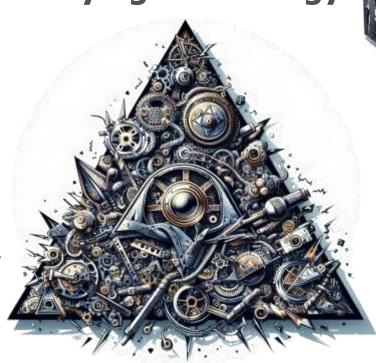
REDUCING ENERGY DEMAND: TRIANGULATING THE OPTIONS

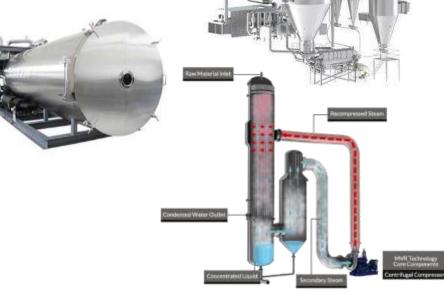




Heat Recovery & Electrical Efficiency





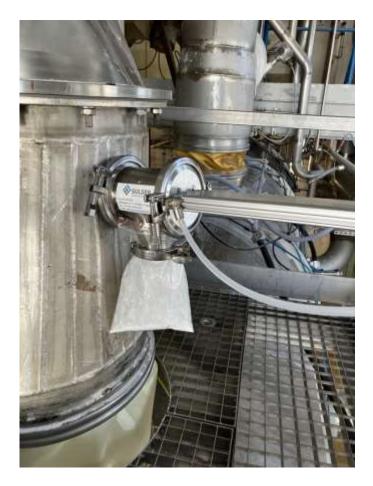


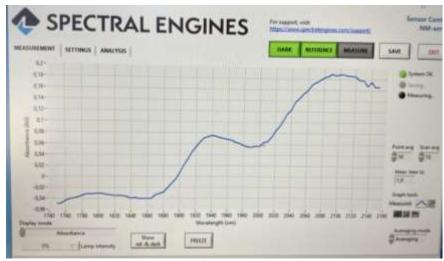
Drying Conditions"EDDY"



EDDY @ AGRANA







- Optimization of energy consumption / water content on an AGRANA spray dryer
- Sensor + Digital Twin in an industrial environment
- AGRANA joined project due to alignment with multiple strategic working fields



DECARBONIZE @ AGRANA: THE BIGGER PICTURE

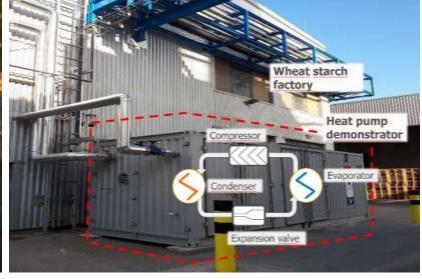
- AGRANA Group Emissions:
 ~0,9 Mio t CO2 per year (Scope 1+2)
- AGRANA Targets:
 Zero CO₂ in 2040 with linear reduction path

Our Toolbox:

- Efficiency incl. advanced processing technologies
- Renewable Energy incl. energetic side stream utilization
- Electrification incl. heat pumps









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