Qualitative impact of investigated models and use cases depending on packing size and storage size

	Single blow operation		Hold (stand-by)		Cyclic operation		Annual simulation		
Storage size → Particle size ↓									
Variable fluid properties		Med Low	Med Low	Low	Low	Low	Low	Low	Low
Effective conductivity		Low Med	Low	Low High	Med High	Low	Low	Low Med	Low
Wall losses		Low	Low	Low	Low	Low	Low	Low	Low
Single-phase model		Low	Low	Low	_ Low	Low	_ Low	Low	Low
Bidisperse model		High -	Med _	Low -	Low –	Med _	High -	Med -	Med -