

**SHAPING the FUTURE -  
how ADES & CALstore are rewriting the global energy game!**



Colloquium talk  
by

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The global energy transition is accelerating, yet stability, scalability, and reliability remain unresolved. This talk presents a disruptive two-pillar architecture: ADES (Accelerator-Driven Energy Source) and CALstore, a modular high-temperature molten-salt storage system. ADES enables subcritical, controllable thorium-based power generation, while CALstore converts surplus renewable electricity into dispatchable heat up to 550 °C. Together, they deliver clean baseload power, industrial heat-on-demand, and grid resilience. This integrated system outperforms fossil and conventional solutions in efficiency, safety, and economics—positioning Europe, especially Austria’s Green Tech Valley, at the forefront of next-generation energy innovation.



 Tuesday, 5 May, 16:30

 HS C, Victor-Franz-Hess-Haus

**Organizers:** Katrin Erath-Dulitz, Francine Marleau, Hanns-Christoph Nägerl