HESS Project Meeting Agenda (22.06.2026)

Room 26 – ground floor

8.30	**Open meeting and welcome by ITPE**
8.35-8.40	Hybrid Energy Storage System (HESS) Project: objectives, scope and key assumptions – ITPE
8.40-8.50	Evaluation of post-mining infrastructure in Poland for the implementation of a Hybrid Energy Storage System considering Compressed Gas Energy Storage requirement – SUT
8.50-9.00	Assessment of the suitability of polish post-mining infrastructure for the implementation of HESS in terms of the requirements of a Pumped-Storage Hydropower System – KOMAG
9.00-9.15	Thermodynamic analysis of CAES and CCES systems: operating parameters and equipment characteristics – SUT
9.15-9.30	Research on thermal energy storage in single-phase materials. TES tank characterization taking into account technological parameters and device characteristics – SUT
9.30-9.45	Studies on thermal energy storage in single-phase materials and phase change materials – ITPE
9.45-9.55	Numerical modelling of latent heat storage systems – ITPE
9.55-10.05	**Coffee break**
10.05-10.20	Technical parameters of the example underground water reservoir model – SUT
10.20-10.35	Pumped-Storage Hydropower system in mine shafts: technological parameters and equipment characteristics – KOMAG
10.35-10.50	Selection of lining materials for sealing mine shafts in HESS applications and assessment of their gas permeability properties – SUT
10.50-11.05	Durability and transport properties of concrete and protective coatings for HESS – ITPE
11.05-11.20	Analysis of the CO_2 compression and purification for the CCES system – ITPE
11.20-11.30	**Coffee break**
11.30-11.45	Mine shaft adaptation for HESS: baseline requirements and key technical challenges – SUT
11.45-11.55	Energy router software – KOMAG
11.55-12.05	Integration of particular components of the HESS – ITPE
12.05-12.20	Techno-economic assessment of hybrid energy storage technology in post-mining infrastructure – ITPE
12.20-13.15	**Lunch break**
13.15-13.30	Life cycle assessment of the HESS – ITPE
13.30-13.40	Feasibility of HESS technology implementation in the Czech Republic – VSB
13.40-13.50	Assessment of the feasibility of HESS implementation in Velenje, Slovenia – PV
13.50-14.00	SWOT analysis – PV
14.00-15.00	**Technical tour**
15.00-16.00	Current Issues and Actions Related to Project Completion