

Istituto per la BioEconomia

## BIOnrgSTORE Workshop 5th-6th October 2022

Bio-based phase change materials in lignocellulose matrix for energy store in buildings



CNR - IBE 5<sup>th</sup> / 6<sup>th</sup> October

Venue : CNR Research area of Firenze Via Madonna del Piano 10 Sesto Fiorentino – Firenze

## **Project Consortium**



Karadeniz Technical University



CNR-IBE Sesto Fiorentino



Salzburg University of Applied Sciences



Swedish University of Agricultural Sciences

## Program Overview 5<sup>th</sup> October

	Activities	Theme
09:00	Welcome	
10:00	Speakers: Hermann Huber - Thomas Schnabel Salzburg University of Applied Sciences Kuchl, Austria (SUAS)	Timber constructions in Austria and possible use cases for PCM
11:00	Speaker: Meysam Nazari Swedish University of Agricultural Sciences, Uppsala, Sweden (SLU)	Biological phase change materials (BPCMs) incorporated in wood as building envelops
11:30	Speaker: Mohamed Jebrane Swedish University of Agricultural Sciences, Uppsala, Sweden (SLU)	Challenges of making wood composites containing biological phase change materials (BPCMs)
12:30	Lunch CNR Canteen	
14:00	Speaker: Andrea Atena Laboratorio Biodegradazione e Preservazione, Sesto Fiorentino, Italy (CNR-IBE)	Report on mechanical and physical tests performed on solid wood treated with BPCM
14:30	Speaker: Sabrina Palanti Laboratorio Biodegradazione e Preservazione Sesto Fiorentino, Italy (CNR-IBE)	Report on decay fungi, blu-stain fungi, termites and coleoptera tests performed on solid wood treated with BPCMs
15.00	Speaker: Ali Temiz Karadeniz Technical University Trabzon, Turkey (KTU)	Remote presentation  Wood impregnated with bio-based PCMs for thermal energy storage
15.30	Speaker: Ali Temiz Karadeniz Technical University Trabzon, Turkey (KTU)	Remote presentation Wood/PCM composites for enhancing thermal properties
16:00	Visit to CNR IBE laboratory (Wood technology UNIT)	

## Program Overview (only project participants) 6<sup>th</sup> October

	Activities	Theme
09:00	Welcome	
10:00	Speaker: Jakub Grzybek Salzburg University of Applied Sciences Kuchl Austria (SUAS)	Remote presentation  Box for thermal test
11:00	Kuchl, Austria (SUAS)  Speaker: KTU	Remote presentation
11.00	Speaker. Tero	Wood impregnated with bio-based PCMs for thermal energy storage
11:30	Speaker: KTU	Remote presentation Wood/PCM composites for enhancing thermal properties
12:30	Lunch CNR Canteen	