

WOTIM

Wood-based thermal insulation materials

Objectives

- 1) Develop a high performance wood-based cellulosic thermal insulation panel material manufactured by foam forming to replace the oil-based insulation materials
- 2) Develop a new bio-based in-situ spray-on thermal insulation foam based on (nano)cellulose to replace traditional spray-on synthetic insulation foams

Consortium

VTT: Coordinator, development of thermal insulation panel and spray-on foam, **Innventia**: Fibre processing, **FCBA**: Economic, ecological and health evaluations, **Holmen**: Fibre supplier, fibre processing, **Soprema**: Insulation material manufacturer, performance evaluations, **Stora Enso**: Fibre supplier, fibre processing, **Ekovilla**: Insulation material manufacturer, **Neovo Solutions**: Insulation material manufacturer, **Interenergy**: Fire retardant chemicals supplier

Budget: 1,46 milj. Eur

Schedule: 1.2.2014 – 31.12.2016



Technical work packages

- WP2 Raw material selection and fibre processing (Leader: Innventia)
- WP3 Development of foam formed thermal insulation materials (Leader: VTT)
- WP4 Development of cellulosic in-situ spray-on materials (Leader: VTT)
- WP5 Insulation material performance (Leader: Soprema)
- WP6 Economic, ecological and health evaluation (Leader: FCBA)