Europe has a large potential of underexploited agro- and forest biomass side streams, mainly due to their diversity, seasonality and dispersion. The MOBILE FLIP project aims to enhance their usage through the demonstration of flexible and mobile conversion units based on several technologies: pelletizing, torrefaction, slow pyrolysis, hydrothermal carbonization and hydrothermal treatment for saccharification that aim at converting the biomass raw materials into biobased products.

One major challenge is to evaluate the suitability of the biomass sources for the various process lines, one criterion being the end product quality. This includes optimization of the process operating conditions. More than 15 diverse biomass resources among the most available ones in Europe have been extensively characterized and tested in several laboratory- and pilot scale units.

Feasible technology lines were identified for each of the biomass types despite of their compositional diversity regarding density, chemical composition, ash content and presence of detrimental minor elements. The optimal raw material clearly depends on the process and target product. For instance, willow hydrochar is particularly promising as soil amendment and corn residues and wheat straw are promising candidates for saccharification. Several of the biomass raw materials performed well as components in particle boards, either as such or after thermal treatment.

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2nd Demonstration Technical Meeting & Open Seminar
MOBILE FLIP project
26th-28th June 2017 – Paris (France)

First announcement

Monday 26th June
• 13h00 – 18h00 (Beauvais)
  - Bus trip from Paris (Plaine Saint-Denis) to Beauvais
  - On-site demonstration of thermochemical conversion at ETIA facilities
  - Bus trip from Beauvais to Paris (Plaine Saint-Denis)

Tuesday 27th June
• 8h00 – 12h00 (To be decided)
  - Bus trip from Paris (Plaine Saint-Denis)
  - In-field demonstration of agricultural biomass production
  - Visit of an industrial site processing agricultural biomasses
• 14h00 – 18h00 (Paris - Plaine Saint-Denis)
  - Open Mobile Flip project seminar
• 20h30 (Paris downtown)
  - Dinner

Wednesday 28th June
• 8h00 – 18h00 (La-Brosse-Montceaux)
  - Bus trip from Roissy to La-Brosse-Montceaux
  - Demonstration of short and very short rotation coppices biomass production with a prototype mobile harvester (to be confirmed)
  - Demonstration of a miscanthus biomass production
  - Demonstration of forest wood chips biomass production
  - Bus trip from La-Brosse-Montceaux to Paris (Plaine Saint-Denis)

More details will be soon available on the project website (www.mobileflip.eu).

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This is the 2/4 workshop on mobile and flexible processing of biomass.