

# German-Chilean cooperation in the area of biomass research

December 2015

## Workshop Sustainable Bio- mass Use in Chile

On November 25th 2015, the Workshop on “Sustainable biomass use in Chile” took place in conjunction with the Latin-American Biorefineries Congress in Concepción, Chile. With roughly 45 participants, the workshop was a big success and great opportunity to discuss about current sustainability challenges of biomass use and foster German-Chilean cooperation in the field of biomass research. The talks addressed assessment issues of sustainable biomass potentials, current and emerging conversion technologies as well as use concepts. Moreover, future research topics, such as the social dimension of biomass use and the current German-Chilean project ‘SeMoBioEnergy’ have been presented to the international audience.



Picture : Workshop Sustainable Use of Biomass in Chile

## Project start ‘SeMoBioEnergy’

The German-Chilean research project ‘Semi-Mobile Bioenergy from Agricultural and Forest Residues in Chile and beyond’ - short ‘SeMoBioEnergy’, funded by the German Federal Ministry of Education and Research (BMBF), has started in September 2015. ‘SeMoBioEnergy’ aims at developing feasible concepts for regional bioenergy chains using residues from agriculture and forest plantations. The central idea is to use mobile pre-treatment units (see picture) to densify biomass resources directly at the harvesting site. Through this innovative process, it will become possible to use residues more efficiently for energy production while increasing local value creation and reducing Chile’s dependency on energy imports.

More information on  
‘SeMoBioEnergy’ is available at:  
<http://www.iip.kit.edu/eng->

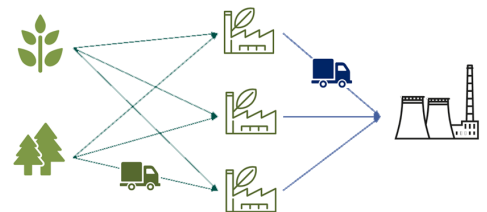


Picture: semi-mobile pelletization unit (UDT)

## Former project ‘ChilNaNuKo’ as starting point

The project ‘SeMoBioEnergy’ emerged from a long history of German-Chilean research cooperation and in particular from the preceding project with the acronym ‘ChilNaNuKo’. ‘ChilNaNuKo’ was also funded by the BMBF and focused on the development of regional biomass utilization concepts by means of a location and transportation planning model. An analysis, evaluation and optimization of various biomass chains has been conducted, which now provides a good starting point for the current project ‘SeMoBioEnergy’.

More information on ‘ChilNaNuKo’ is available at: [http://www.iip.kit.edu/english/1064\\_3050.php](http://www.iip.kit.edu/english/1064_3050.php)



Picture: : Model for the assessment of bioenergy value chains

## Initiation of a stakeholder process on biomass use in Chile

Besides technical aspects, the consortium of 'SeMoBioEnergy' further aims at intensifying the discussion on sustainable use of biomass in Chile and beyond. Therefore a stakeholder process with local interest groups and experts in Chile will be initiated by the researchers. A first step will be an empirical network analysis based on interviews with experts from the biomass sector. Subsequently, several workshops will take place, which will be open to interested stakeholders. Besides information about the project progress, the workshops will be a platform for feedback and incorporation of the diverse views of multiple stakeholder groups.

## Facts and figures 'SeMoBioEnergy'

Funding: By the German Federal Ministry of Education and Research (BMBF)

Duration: September 2015 – August 2018

Project coordination: Institute for Industrial Production (IIP), Karlsruhe Institute of Technology (KIT) ([www.iip.kit.edu](http://www.iip.kit.edu))

Project partners:

- Institute for Industrial Production (IIP), Karlsruhe Institute of Technology (KIT)
- Chair of Supply Chain Management, University of Kassel
- Fraunhofer Institute for Environment, Safety, and Energy Technology UMSICHT
- Instituto Bosque y Sociedad (IBOS), Universidad Austral de Chile (UACH)
- Universidad de Concepción (UdeC), Unidad de Desarrollo Tecnológico (UDT)
- Technische Universität Bergakademie Freiberg



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