

Bibliographic Overview of Posters-IEA Bioenergy Conference 2015

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: Local bio resources identification for biofuels production in Algeria</p> <p>Author(s) / Institute(s) / Country: Majda Amina Aziza¹, Ourdia Bouzid¹, Amina Allouache¹, Mohamed Amouri¹ ¹ Centre de Développement des Energies Renouvelables (Algeria)</p>	#Biomass Resources	Majda Amina Aziza
<p>Title: LIFE and energy sustainability</p> <p>Author(s) / Institute(s) / Country: Panos Fetsis The LIFE programme (EU's funding tool for the environment), NEEMO EEIG – AEIDL (Belgium)</p>	#Biomass Resources	Panos Fetsis
<p>Title: Biomass crop residue research and development for bioprocessing opportunities in Canada</p> <p>Author(s) / Institute(s) / Country: Charles Lalonde¹, Craig Drury², Jingyi Yang², Patrick Girouard³, Hicham Bencharki⁴, Maria Wellisch⁵ ¹ Ontario Federation of Agriculture Crop Residue Project (Canada), ² Soil Management & Biochemistry, Agriculture and Agri-Food Canada, ³ Renewable Energy & Bioproducts, La Coop federee (Canada), ⁴ Agri-environment, La Coop federee (Canada), ⁵ Strategic Policy Branch, Agriculture and Agri-Food Canada</p>	Biomass Resources - Agricultural residues	Maria Wellisch
<p>Title: Perspectives of bioenergy production from agricultural waste: Evaluating the performance of ethanol production from green coffee processing waste materials in Latin America</p> <p>Author(s) / Institute(s) / Country: Foluke Quist-Wessel¹, Hans Langeveld² ¹ AgriQuest (Netherlands), ² Biomass Research (NL)</p>	Biomass Resources - Agricultural residues	Hans Langeveld
<p>Title: The UKs existing forest and woodland resources: A potential bioenergy feedstock source</p> <p>Author(s) / Institute(s) / Country: Douglas Phillips¹, Jenny Jones¹ ¹ Energy Research Institute, SCAPE, Leeds University (UK)</p>	Biomass Resources - Conversion Forestry	Douglas Phillips

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: Amaranth – a sustainable energy crop Author(s) / Institute(s) / Country: Veronika Eberl Technology and Support Centre in the Centre of Excellence for Renewable Resources (TFZ) (Germany)</p>	Biomass Resources - Dedicated crops	Klaus Thuneke
<p>Title: Cultivation of maize undersown by forage crop mixtures for energy crop production Author(s) / Institute(s) / Country: Michael Grieb¹, Daniela Zander¹, Maendy Fritz¹, Christine Riedel²; Dorothea Hofmann² ¹ Technology and Support Centre in the Centre of Excellence for Renewable Resources (TFZ) (Germany); ² Bavarian State Research Center for Agriculture (Germany)</p>	Biomass Resources - Dedicated crops	Klaus Thuneke
<p>Title: Developing Miscanthus x giganteus as a crop for biogas production Author(s) / Institute(s) / Country: Andreas Kiesel¹, Iris Lewandowski¹ ¹ University of Hohenheim, Dept. Biobased Products and Energy Crops</p>	Biomass Resources - Dedicated crops	Andreas Kiesel
<p>Title: The EVA-Project: Development and comparison of optimized cultivation systems for the agricultural production of energy crops under different local conditions within Germany Author(s) / Institute(s) / Country: Julia Lindner¹, Katharina Winter¹, Torsten Graf¹ ¹ Thüringer Landesanstalt für Landwirtschaft (Germany)</p>	Biomass Resources - Dedicated crops	Julia Lindner
<p>Title: Overall assessment of the energy crop rotations examined within the EVA project Author(s) / Institute(s) / Country: Katharina Winter¹, Jens Eckner¹, Torsten Graf¹, Michael Glemnitz², Joachim Aurbacher³, Monika Heiermann⁴ ¹ Thüringer Landesanstalt für Landwirtschaft (Germany) ² Leibniz-Zentrum für Agrarlandschafts- und Landnutzungsforschung (ZALF) e.V. ³ Justus-Liebig-Universität Gießen ⁴ Leibniz-Institut für Agrartechnik Potsdam-Bornim e.V.</p>	Biomass Resources - Dedicated crops	Julia Lindner

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: Cultivation of winter rye undersown by forage crop mixtures for energy crop production</p> <p>Author(s) / Institute(s) / Country: Daniela Zander¹, Michael Grieb¹, Maendy Fritz¹</p> <p>¹ Technology and Support Centre in the Centre of Excellence for Renewable Resources (TFZ) (Germany)</p>	Biomass Resources - Dedicated crops	Klaus Thuneke
<p>Title: Food waste to energy in western New York, USA</p> <p>Author(s) / Institute(s) / Country: Jeff Lodge¹, Rebecca Clontz¹</p> <p>¹ Thomas Gosnell School of Life Sciences (USA)</p>	Biomass Resources - Industrial waste	Jeff Lodge
<p>Title: Short rotation woody crops for local supply chains and heat use in Europe</p> <p>Author(s) / Institute(s) / Country: Dominik Rutz¹, Rita Mergner¹, Rainer Janssen¹, Stefan Hinterreiter², Ioannis Eleftheriadis³, Linda Drukmane⁴, Biljana Kulišić⁵, Željka Fištrek⁵, Tomas Perutka⁶, Dagnija Lazdina⁷, Naumche Toskovski⁸, Gordana Toskovska⁸, Jannis Dimitriou⁹</p> <p>¹ WIP – Renewables Energies (Germany), ² Biomassehof Achental (Germany), ³ Centre for Renewable Energy Sources and Saving (Greece), ⁴ EKODOMA (Latvia), ⁵ Energy Institute Hrvoje Požar (Croatia), ⁶ Energy Agency of the Zlín region (Czech Republic), ⁷ Latvian State Forest Research Institute Silava (Latvia), ⁸ Secondary School Car Samoil – Resen (Macedonia), ⁹ Swedish University of Agricultural Scienen)</p>	Biomass Resources - Short rotation forestry	Dominik Rutz
<p>Title: Effect of anthropogenic substances on the biogas production and the inhibition monitoring by on-line dialyses ion chromatography</p> <p>Author(s) / Institute(s) / Country: Matthias Balsam¹, Astrid Rehorek¹</p> <p>¹ Faculty of Applied Natural Science, TH-Köln - Technology, Arts, Science (Germany)</p>	Conversion - Biochemical	Matthias Balsam
<p>Title: MEMS based infrared spectrometry for measuring biogas composition</p> <p>Author(s) / Institute(s) / Country: Robin Eccleston¹, Christian Wolf¹, Michael Bongards¹</p> <p>¹ Faculty of Automation and Industrial IT, TH Köln (Germany)</p>	Conversion - Biochemical	Robin Eccleston

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: Optimized biogas digestate application in energy crop rotations</p> <p>Author(s) / Institute(s) / Country: Jonas Haag¹, Maendy Fritz¹</p> <p>¹ Technology and Support Centre in the Centre of Excellence for Renewable Resources (TFZ) (Germany)</p>	Conversion - Biochemical	Klaus Thuneke
<p>Title: Thermophilic anaerobic digestion of restaurant wastes in a novel digester featuring uncoupled solid and liquid retention times</p> <p>Author(s) / Institute(s) / Country: Mark McCormick¹, Belén Fernandez², Marc Viñas², Vicente Pastor², Jean-Bernard Michel¹, Michel Aragno¹, Rémy Dufresne¹, Simon Crelier¹, Nadia Zoppi¹, François-Régis Mahrer³, David Weissbrodt^{4, a}</p> <p>¹ HES-SO University of Applied Sciences Western Switzerland (Switzerland), ² GIRO Joint Research Unit IRTA-UPC (Spain), ³ Digesto SA (Switzerland), ⁴ ETH Zürich and Eawag (Switzerland), ^a Present address: Delft University of Technology (The Netherlands) and Aalborg University (Denmark).</p>	Conversion - Biochemical	Mark McCormick
<p>Title: Evaluating dilute phosphoric acid pretreated wheat bran for ethanol and edible fugal biomass production</p> <p>Author(s) / Institute(s) / Country: Ramkumar B. Nair¹, Patrik R. Lennartsson¹, Mohammad J. Taherzadeh¹</p> <p>¹ Swedish Centre for Resource Recovery, University of Borås (Sweden)</p>	Conversion - Biochemical	Ramkumar B. Nair
<p>Title: Enzymatic pretreatment of the biogas substrate – Inducer and enzymatic activity</p> <p>Author(s) / Institute(s) / Country: Katja Stahl¹, Christina Schmitt¹, Andreas Wilke¹</p> <p>¹ University of Applied Sciences Offenburg (Germany)</p>	Conversion - Biochemical	Katja Stahl
<p>Title: Biomass and aromatic models for methanolic catalytic conversion in one-pot supercritical reaction using Nb/Cu-metal oxide from hydrotalcite as catalyst for methanol dehydrogenation.</p> <p>Author(s) / Institute(s) / Country: Mauricio Boscol¹, Peter Ford²</p> <p>¹ Universidade Estadual Paulista-IBILCE/UNESP (Brazil), ² University of California at Santa Barbara-UCSB. Department of Chemistry and Biochemistry (USA)</p>	Conversion - Physical/Chemical process	Mauricio Boscolo

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: A novel approach for high temperature producer gas cleaning and application on small scale biomass-fuelled CHP units</p> <p>Author(s) / Institute(s) / Country: Dimitris Mertzis¹, Zissis Samaras¹ ¹ Aristotele University of Thessaloniki, Dept. of Mechanical Engineering, Lab of Applied Thermodynamic (Greece)</p>	Conversion - Physical/Chemical process	Dimitris Mertzis
<p>Title: Catalysts and microchannel reactors for supercritical heterogeneously catalysed biodiesel production</p> <p>Author(s) / Institute(s) / Country: Jochen Schürer¹, Daniel Bersch¹, Athanassios Ziogas¹, Gunther Kolb¹ ¹ Fraunhofer ICT-IMM (Germany)</p>	Conversion - Physical/Chemical process	Jochen Schürer
<p>Title: Power production from wood chips via heat exchanger and Stirling engine</p> <p>Author(s) / Institute(s) / Country: Werner Siemers CUTECH Institut GmbH (Germany)</p>	Conversion - Physical/Chemical process	Werner Siemers
<p>Title: Load change behaviour of biomass steam gasification with in-situ CO₂ capture in a 200 kW_{th} pilot plant</p> <p>Author(s) / Institute(s) / Country: Marcel Beirow¹, Daniel Schweitzer¹, Andreas Gredinger¹, Gebhard Waizmann¹, Heiko Dieter¹, Günter Scheffknecht¹ ¹ Institute of Combustion and Power Plant Technology (IFK), University of Stuttgart (Germany)</p>	Conversion - Thermochemical	Marcel Beirow
<p>Title: Investigation of the potential for thermal liquefaction of Australian bagasse and microalgae</p> <p>Author(s) / Institute(s) / Country: Jana Kosinkova¹, Thomas J. Rainey¹, Zoran D. Ristovski², Richard Brown³, Farhad M. Hossain¹, Jerome Ramirez¹, Amar Doshi⁴, Juliette Maire⁵ ¹ International Laboratory for Air Quality and Health; School of Chemistry, Physics and Mechanical, Engineering (CPME); Queensland University of Technology (QUT) (Australia); ² International Laboratory for Air Quality and Health; QUT (Australia); ³ Biofuel Engine Research Facility; QUT (Australia); ⁴ QUT Business School; ⁵ Ecole Nationale Supérieure d'Agronomie et des Industries Alimentaires (France)</p>	Conversion - Thermochemical	Jana Adamovska (née Kosinkova)

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: Ablative fast pyrolysis of straw – Improved applicability by staged condensation Author(s) / Institute(s) / Country: Tim Schulzke¹, Stefan Conrad¹, Jan Westermeyer¹ ¹Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT, Division Processes, Department Biorefinery & Biofuels (Germany)</p>	Conversion - Thermochemical	Tim Schulzke
<p>Title: Design of multifunctional bench-scale device for thermochemical processes Author(s) / Institute(s) / Country: Ekaterina Sermyagina¹, Markku Nikku¹, Jussi Saari¹, Juha Kaikko¹, Esa Vakkilainen¹ ¹Lappeenranta University of Technology (Finland)</p>	Conversion - Thermochemical	Ekaterina Sermyagina
<p>Title: A methodological approach for the assessment and optimization of wood-based biorefinery concepts Author(s) / Institute(s) / Country: Roy Nitzsche¹, Maik Budzinski¹ ¹DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH (Germany)</p>	Conversion/End Product - Biorefining	Roy Nitzsche
<p>Title: Synthesis processes for a flexible energy system Author(s) / Institute(s) / Country: Stefan Rönsch¹, Jens Schneider¹, Sebastian Dietrich¹ ¹DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH (Germany)</p>	End Product - Heat & Electricity	Jens Schneider
<p>Title: Biomass handling – dust layer ignition risks Author(s) / Institute(s) / Country: Yee Sing Chin¹, Jenny M. Jones¹, Leilani I. Darvell¹, Amanda R. Lea-Langton¹, Alan Williams¹ ¹Energy Research Institute, School of Chemical and Process Engineering University of Leeds</p>	End Product - Heat & Electricity	Yee Sing Chin
<p>Title: Demand driven power supply by biogas plants as a balancing option for power distribution networks Author(s) / Institute(s) / Country: Marcus Trommler¹, Felix Kilian¹, Tino Barchmann¹, Martin Dotzauer¹ ¹Deutsches Biomasseforschungszentrum gemeinnützige GmbH (DPFZ) (Germany)</p>	End Product - Heat & Electricity	Marcus Trommler

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: The effect of mineral impurities added to bale of sugar cane straw for solid biofuels</p> <p>Author(s) / Institute(s) / Country: Fabio Minoru Yamaji¹, Gabriela Tami Nakashima¹, Ana Larissa Hansted¹, Carlos Roberto Sette Junior², Jose Claudio Caraschi³, Hiroyuki Yamamoto⁴ ¹UFSCar-Federal University of Sao Carlos (Brazil), ²UFG-Federal University of Goias (Brazil), ³Universidade Estadual Paulista “Júlio de Mesquita Filho” (Brazil), ⁴Nagoya University (Japan)</p>	End Product - Solid fuels	Fabio Minoru Yamaji
<p>Title: Biofuels for today and tomorrow’s automotive industry</p> <p>Author(s) / Institute(s) / Country: Arthur Ragauskas Department of Chemical and Biomolecular Engineering, Department of Forestry, Wildlife, and Fisheries, The University of Tennessee-Knoxville (USA)</p>	End Product - Transportation fuels	Arthur Ragauskas
<p>Title: New vegetable oil compatible tractors to increase sustainability in agriculture – case study Bavaria</p> <p>Author(s) / Institute(s) / Country: Klaus Thuneke¹, Edgar Remmele¹, Peter Emberger¹ ¹Technology and Support Centre in the Centre of Excellence for Renewable Resources (TFZ) (Germany)</p>	End Product - Transportation fuels	Klaus Thuneke
<p>Title: Research and development in alternative aviation fuels: Preliminary results of the CORE-JetFuel assessment of promising bio-jet value chains</p> <p>Author(s) / Institute(s) / Country: Johannes Michel¹, Arne Roth², María de la Rica Jiménez³, Alain Quignard⁴, Isabelle Lamboert-Valot⁵ Rainer Janssen⁶ ¹Fachagentur Nachwachsende Rohstoffe e.V. (Germany), ²Bauhaus Luftfahrt e.V. (Germany), ³Servicios y Estudios para la Navegación Aérea y la Seguridad Aeronáutica (Spain) ⁴IFPEN – IFP Energies Nouvelles (France), ⁵Airbus Group Innovations (France), ⁶WIP Renewable Energies (Germany)</p>	End Product - Transportation fuels	Johannes Michel

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: Handling uncertainty in bioenergy policy design – A case study analysis of UK and German bioelectricity policy instruments</p> <p>Author(s) / Institute(s) / Country: Alexandra Purkus¹, Mirjam Röder², Erik Gawel^{1,3}, Daniela Thrän^{1,4}, Patricia Thornley² ¹ Helmholtz Centre for Environmental Research – UFZ (Germany), ² Tyndall Centre for Climate Change Research, The University of Manchester (UK), ³ Institute for Infrastructure and Resources Management, University of Leipzig (Germany), ⁴ DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH (Germany)</p>	Integrated research - Deployment (barriers/bridges)	Mirjam Röder
<p>Title: Slash and stump harvest has a minor long-term impact on soil and tree biomass C pools in eight spruce and pine stands in Sweden</p> <p>Author(s) / Institute(s) / Country: Arnis Jurevics¹, Matthias Peichl¹, Bengt Olsson², Monika Strömgren³, Gustaf Egnell¹ ¹ Department of Forest Ecology and Management, Swedish University of Agricultural Sciences (Sweden); ² Department of Ecology, Swedish University of Agricultural Sciences; ³ Department of Soil and Environment</p>	Integrated research - Economic sustainability	Arnis Jurevics
<p>Title: Sustainability evaluation of agricultural residues for energy in Denmark – based on the GBEP framework</p> <p>Author(s) / Institute(s) / Country: Nicolas Scott Bentsen¹, Inge Stupak¹, Johannes Ravn Jørgensen² ¹ University of Copenhagen, Department of Geosciences and Natural Resource Management (Denmark), ² Aarhus University, Department of Agroecology (Denmark)</p>	Integrated research - Environmental sustainability	Nicolas Scott Bentsen
<p>Title: Understanding indirect effects: Evaluating and improving science-based practices for ILUC assessment</p> <p>Author(s) / Institute(s) / Country: Keith L. Kline¹, Hans Langeveld², Virginia H. Dale³, Rebecca A. Efroymson³ ¹ Climate Change Science Institute and Center for BioEnergy Sustainability Oak Ridge National Laboratory (ORNL) (USA), ² Biomass Research (Netherlands), ³ Environmental Sciences Division, ORNL (USA)</p>	Integrated research - Environmental sustainability	Keith L. Kline
<p>Title: An alternative approach for assessing Indirect Land Use Change (ILUC) effects: Linking biomass availability, land cover and cropping intensity</p> <p>Author(s) / Institute(s) / Country: Hans Langeveld¹, Foluke Quist-Wessel² ¹ Biomass Research (Netherlands), ² AgriQuest (NL)</p>	Integrated research - Environmental sustainability	Hans Langeveld

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: Environmental implications of using 'underutilised agricultural land' for future bioenergy crop production</p> <p>Author(s) / Institute(s) / Country: Saori Miyake¹, Ann Peterson¹, Carl Smith¹, Clive McAlpine¹, Marguerite Renouf¹</p> <p>¹The University of Queensland (Australia)</p>	Integrated research - Environmental sustainability	Saori Miyake
<p>Title: Environmental impact metrics and the role of bioenergy in a 2050 low carbon energy system: a case study of United Kingdom</p> <p>Author(s) / Institute(s) / Country: Nagore Sabio</p> <p>UCL Energy Institute, Bartlett School of Environment, Energy and Resources (BSEER), University College London (UCL)</p>	Integrated research - Environmental sustainability	Nagore Sabio
<p>Title: Greenhouse gas emissions in agricultural production of energy crop within the EVA project</p> <p>Author(s) / Institute(s) / Country: Jens Eckner¹, Christiane Peter², Julia Lindner¹, Torsten Graf¹</p> <p>¹Thüringer Landesanstalt für Landwirtschaft (Germany); ²Leibniz-Zentrum für Agrarlandschafts- und Landnutzungsforschung (ZALF) e.V.</p>	Integrated research - GHG balance	Julia Lindner
<p>Title: The climate change mitigation potential of forest biomass production and its utilization in Finland</p> <p>Author(s) / Institute(s) / Country: Antti Kilpeläinen¹, Heli Peltola¹, Johanna Routa², Antti Asikainen²</p> <p>¹ University of Eastern Finland, School of Forest Sciences (Finland)</p> <p>² Natural Resources Institute Finland</p>	Integrated research - GHG balance	Antti Kilpeläinen

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: Greenhouse-gas-savings of maize-based biogas systems: Comparison of calculated and measured GHG-emissions</p> <p>Author(s) / Institute(s) / Country: Heinz Stichnothe: Thünen Institute of Agricultural Technology (Germany)¹ Birthe Bogunovic¹, Gawan Heintze², Sebastian Fiedler³, Marcus Rohwer⁵, Achim Seidel⁵, Ulrike Hagemann⁴, Jürgen Augustin⁴ ² University of Applied Sciences Weihenstephan-Triesdorf (Germany) ³ University of Rostock (Germany) ⁴ Leibniz-Centre for Agricultural Landscape Research (ZALF) (Germany) ⁵ Christian-Albrechts- University of Kiel (Germany)</p>	Integrated research - GHG balance	Heinz Stichnothe
<p>Title: Life cycle assessment of biogas production: Impact of regional factors</p> <p>Author(s) / Institute(s) / Country: Funda Cansu Ertem¹, Peter Neubauer¹, Stefan Junne¹ ¹ Bioprocess Engineering, Department of Biotechnology, Technische Universität Berlin (TU-Berlin)</p>	Integrated research - LCA	Funda Cansu Ertem
<p>Title: How certain are greenhouse gas reductions from bioenergy? Life cycle assessment and uncertainty analysis of a forest residue-to-electricity supply chain</p> <p>Author(s) / Institute(s) / Country: Mirjam Röder¹, Carly Whittaker², Patricia Thornley¹ ¹ Tyndall Centre for Climate Change Research, Pariser Building, The University of Manchester (UK); ² Agroecology Department, Rothamsted Research (UK)</p>	Integrated research - LCA	Mirjam Röder
<p>Title: Optimal use of biomass in Denmark in the current energy system and under future energy scenarios</p> <p>Author(s) / Institute(s) / Country: Carl Vadenbo¹ Davide Tonini², Stefanie Hellweg¹, Thomas F. Astrup² ¹ ETH Zürich, Institute for Environmental Engineering (Germany) ² Technical University of Denmark, Department of Environmental Engineering (Denmark)</p>	Integrated research - LCA/System studies	Carl Vadenbo

Author(s) and Title of poster presentations	Category ⁱ	Poster presented by:
<p>Title: Large Finnish public-private research consortium paves the way for future sustainable bioenergy business by solving three critical and cross-cutting challenges</p> <p>Author(s) / Institute(s) / Country: Kaisu Leppänen¹, Antti Arasto², Saija Rasi³, Lauri Sikanen³ ¹ Spinverse Ltd. (Finland), ² VTT Technical Research Centre of Finland Ltd, ³ Natural Resources Institute Finland</p>	Integrated research - System studies	Kaisu Leppänen
<p>Title: Cooking and heating energy consumption pattern at household level in rural areas of Nepal</p> <p>Author(s) / Institute(s) / Country: Narayan Prasad Adhikari Department of Ecology and Natural Resources Management/ Center for Development Research (Germany)</p>	Integrated research - System studies	Integrated research - System studies
<p>Title: Bioenergy data</p> <p>Author(s) / Institute(s) / Country: Janet Witt¹, Jaqueline Daniel-Gromke¹, Jan Liebetrau¹, Daniela Thrän^{1,2} ¹ DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH (Germany) ² Helmholtz-Zentrum für Umweltforschung GmbH - UFZ</p>	Integrated research - System studies	Integrated research - System studies
<p>Title: Determining optimal removal rate and regional supply of corn stover in Ontario, Canada</p> <p>Author(s) / Institute(s) / Country: Jianbang Gan¹, Maria Wellisch², Charles Lalonde³, Tat Smith⁴, Craig Drury⁵, Jingyi Yang⁶ ¹ Department of Ecosystem Science and Management, Texas A&M University (USA); ² Bioeconomy Policy; Strategic Policy Branch; Agriculture and Agri-Food Canada (Canada); ³ Ontario Federation of Agriculture, Guelph, Ontario (Canada); ⁴ University of Toronto (Canada); ⁵ Soil Management & Biochemistry, Agriculture and Agri-Food Canada; ⁶ Greenhouse & Processing Crops Research Centre, Agriculture and Agri-Food Canada</p>	Supply Systems - Harvesting	Supply Systems - Harvesting

IEA-BE Topics	IEA-BE Topics
#Biomass Resources	#Integrated research
Biomass Resources - Conversion Forestry	Integrated research - Environmental sustainability
Biomass Resources - Short rotation forestry	Integrated research - Economic sustainability
Biomass Resources - Agricultural residues	Integrated research - System studies
Biomass Resources - Dedicated crops	Integrated research - Fuel standards
Biomass Resources - Municipal solid waste	Integrated research - GHG balance
Biomass Resources - Industrial waste	Integrated research - LCA
Biomass Resources - Algae	Integrated research - Deployment (barriers/bridges)
#Supply Systems	Integrated research - Management decision support systems
Supply Systems - Harvesting	Integrated research - Health
Supply Systems - Collection	Integrated research - Safety standards
Supply Systems - Handling	
Supply Systems - Storage	
Supply Systems - Trade	
#Conversion	
Conversion - Biochemical	
Conversion - Thermochemical	
Conversion - Physical/Chemical process	
Conversion/End Product - Biorefining	
#End Product	
End Product - Transportation fuels	
End Product - Heat & Electricity	
End Product - Solid fuels	
End Product/Conversion - Biorefining	