

Technologies available	Partner (Acronym)	Location	Ref No.
Biomass characterisation	Åbo Akademi University (AAU)	Åbo, Finland	AAU1
Pyrolysis, fluid bed	Åbo Akademi University (AAU)	Åbo, Finland	AAU2
Analysis, GC, MS, GPC, TGA	Aston University Bioenergy Research Group (ASTON)	Birmingham, UK	AST1
Autoclave	Aston University Bioenergy Research Group (ASTON)	Birmingham, UK	AST2
Biomass characterisation	Aston University Bioenergy Research Group (ASTON)	Birmingham, UK	AST3
Bio-oil upgrading	Aston University Bioenergy Research Group (ASTON)	Birmingham, UK	AST4
Gasification, allothermal, fluid bed, fixed bed	Aston University Bioenergy Research Group (ASTON)	Birmingham, UK	AST5
Micro-reactor, pressure, Fischer Tropsch	Aston University Bioenergy Research Group (ASTON)	Birmingham, UK	AST6
Pyrolysis, fast, 4 fluid beds, +/- catalysts	Aston University Bioenergy Research Group (ASTON)	Birmingham, UK	AST7
Pyroprobe with GCMS-FID	Aston University Bioenergy Research Group (ASTON)	Birmingham, UK	AST8
Aerosol measurement, high temperature	BIOENERGY 2020+ (BE2020+)	Graz, Austria	BET1
Analysis - TGA, DTG, DSC, MS	BIOENERGY 2020+ (BE2020+)	Graz, Austria	BET2
Combustion, fixed-bed, drop tube	BIOENERGY 2020+ (BE2020+)	Graz, Austria	BET3
Combustion, fixed-bed, pilot scale	BIOENERGY 2020+ (BE2020+)	Graz, Austria	BET4
Combustion, fixed-bed, batch	BIOENERGY 2020+ (BE2020+)	Graz, Austria	BET5
Fast pyrolysis, catalytic, fluid bed	Centre for Research and Technology (CERTH)	Thessaloniki, Greece	CER1
FCC (Fluid Catalytic Cracking) pilot plant	Centre for Research and Technology (CERTH)	Thessaloniki, Greece	CER2
HDS, Fischer Tropsch wax hydrocracking unit	Centre for Research and Technology (CERTH)	Thessaloniki, Greece	CER3
Synthesis reactor, pressure	Centre for Research and Technology (CERTH)	Thessaloniki, Greece	CER4
Combustion, optical, high pressure, high temperature, 2 MW	Cardiff University (CU)	Cardiff, UK	CFU1
Combustion, sector, high pressure, high temperature, 2 MW	Cardiff University (CU)	Cardiff, UK	CFU2
Combustion, turbine simulator, high pressure & temperature	Cardiff University (CU)	Cardiff, UK	CFU3
Spray cell, high pressure, high temperature	Cardiff University (CU)	Cardiff, UK	CFU4
Gasification, fluid bed, 3 MWt	CIUDEN	Ponferrada, Spain	CIU1
Combustion, entrained flow	Technical University of Denmark (DTU)	Kongens Lyngby, Denmark	DTU1
Gasifier, entrained flow	Technical University of Denmark (DTU)	Kongens Lyngby, Denmark	DTU2
Combustion, fluid bed	Energy research Centre of the Netherlands (ECN)	Petten, Netherlands	ECN1
Gasification, fluid bed	Energy research Centre of the Netherlands (ECN)	Petten, Netherlands	ECN2
Pyrolysis, fluid bed	Energy research Centre of the Netherlands (ECN)	Petten, Netherlands	ECN3
Gasification, circulating fluid bed, 500 kWth	ENEA	Rotondella, Italy	ENA1
Gasification, updraft, 200 kWth	ENEA	Rotondella, Italy	ENA2
Hydrogen enrichment modules for syngas	ENEA	Rotondella, Italy	ENA3
Gasification, internal circulating fluid bed, 10 kWth	ENEA	Rotondella, Italy	ENA4
Gasification, entrained flow, pressure	SP Energy Technology Centre (previously known as ETC)	Piteå, Sweden	ETC1
Combustion, entrained flow, atmospheric	SP Energy Technology Centre (previously known as ETC)	Piteå, Sweden	ETC2
Gasification, downdraft	International Flame Research Foundation (IFRF)	Pisa, Italy	IFR1
Solid fuel characterisation	International Flame Research Foundation (IFRF)	Pisa, Italy	IFR2
Tar cracking	International Flame Research Foundation (IFRF)	Pisa, Italy	IFR3

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Combustion, high pressure, catalytic	Royal Institute of Technology (KTH)	Stockholm, Sweden	KTH1
Combustion, high temperature, air	Royal Institute of Technology (KTH)	Stockholm, Sweden	KTH2
Gasification, fluid bed	Royal Institute of Technology (KTH)	Stockholm, Sweden	KTH3
Gasification, high temperature, air and steam	Royal Institute of Technology (KTH)	Stockholm, Sweden	KTH4
Catalytic synfuel production laboratory	Norwegian University of Science and Technology (NTNU)	Trondheim, Norway	NTN1
Analysis - GC/SCD, GC-ICP/MS	Paul Scherrer Institute (PSI)	Villigen, Switzerland	PSI1
Gasification, fluid bed	Paul Scherrer Institute (PSI)	Villigen, Switzerland	PSI1
Methanation, fluid bed	Paul Scherrer Institute (PSI)	Villigen, Switzerland	PSI2
Hydrothermal processing	Paul Scherrer Institute (PSI)	Villigen, Switzerland	PSI3
Catalyst screening	SINTEF	Oslo, Norway	STF1
Pyrolysis, catalytic	SINTEF	Oslo, Norway	STF2
Gas conditioning, catalytic conversion	SINTEF	Trondheim, Norway	STF2
Bio-oil hydrotreatment, characterisation	SINTEF	Trondheim, Norway	STF2
Gasification, downdraft fixed bed	TUBITAK, Marmara Research Centre (TUBITAK)	Gebze, Turkey	TBK1
Gasification, fixed bed	TUBITAK, Marmara Research Centre (TUBITAK)	Gebze, Turkey	TBK2
Gasification, fluid bed	TUBITAK, Marmara Research Centre (TUBITAK)	Gebze, Turkey	TBK3
Combustion, fluid bed	TUBITAK, Marmara Research Centre (TUBITAK)	Gebze, Turkey	TBK4
FLEXFLOX (flameless combustion furnace)	Delft University of Technology (TUD)	Delft, Netherlands	TUD1
BiG-CU: Circulating fluidized bed gasification with integrated hot gas filtration	Delft University of Technology (TUD)	Delft, Netherlands	TUD2
Fuel Cell Lab (solid oxide fuel cell test facilities)	Delft University of Technology (TUD)	Delft, Netherlands	TUD3
Combustion, entrained flow	Technical University of Munich (TUM)	Garching/Munich, Germany	TUM1
Gasification, entrained flow, high temperature & pressure	Technical University of Munich (TUM)	Garching/Munich, Germany	TUM3
Gasification, entrained flow, high temperature	Technical University of Munich (TUM)	Garching/Munich, Germany	TUM4
Fischer Tropsch synthesis	Vienna University of Technology (TUW)	Vienna, Austria	TUW1
Gasification, fluid bed, high pressure	Vienna University of Technology (TUW)	Vienna Austria	TUW2
Pyrolysis, isothermal packed bed	University of Naples Federico II (UNA)	Naples, Italy	UNA1
Gasification, downdraft - commercial	University of Zaragoza (UNIZAR)	Zaragoza, Spain	UZR1
Gasification, fluid bed - pilot	University of Zaragoza (UNIZAR)	Zaragoza, Spain	UZR2
Hydrothermal processing	University of Zaragoza (UNIZAR)	Zaragoza, Spain	UZR3
Analysis - TGA, DSC, FTIR	Wroclaw University of Technology (WROC)	Wroclaw, Poland	WRC1
Combustion, entrained flow	Wroclaw University of Technology (WROC)	Wroclaw, Poland	WRC2