An integrated network on thermal biomass conversion for power, heat and transport fuels

ThermalNet

Supported by

Intelligent Energy – Europe
Programme of the European Community

and IEA Bioenergy for PyNe

Structure

ThermalNet

=

CombNet (Combustion **Net**work)

+

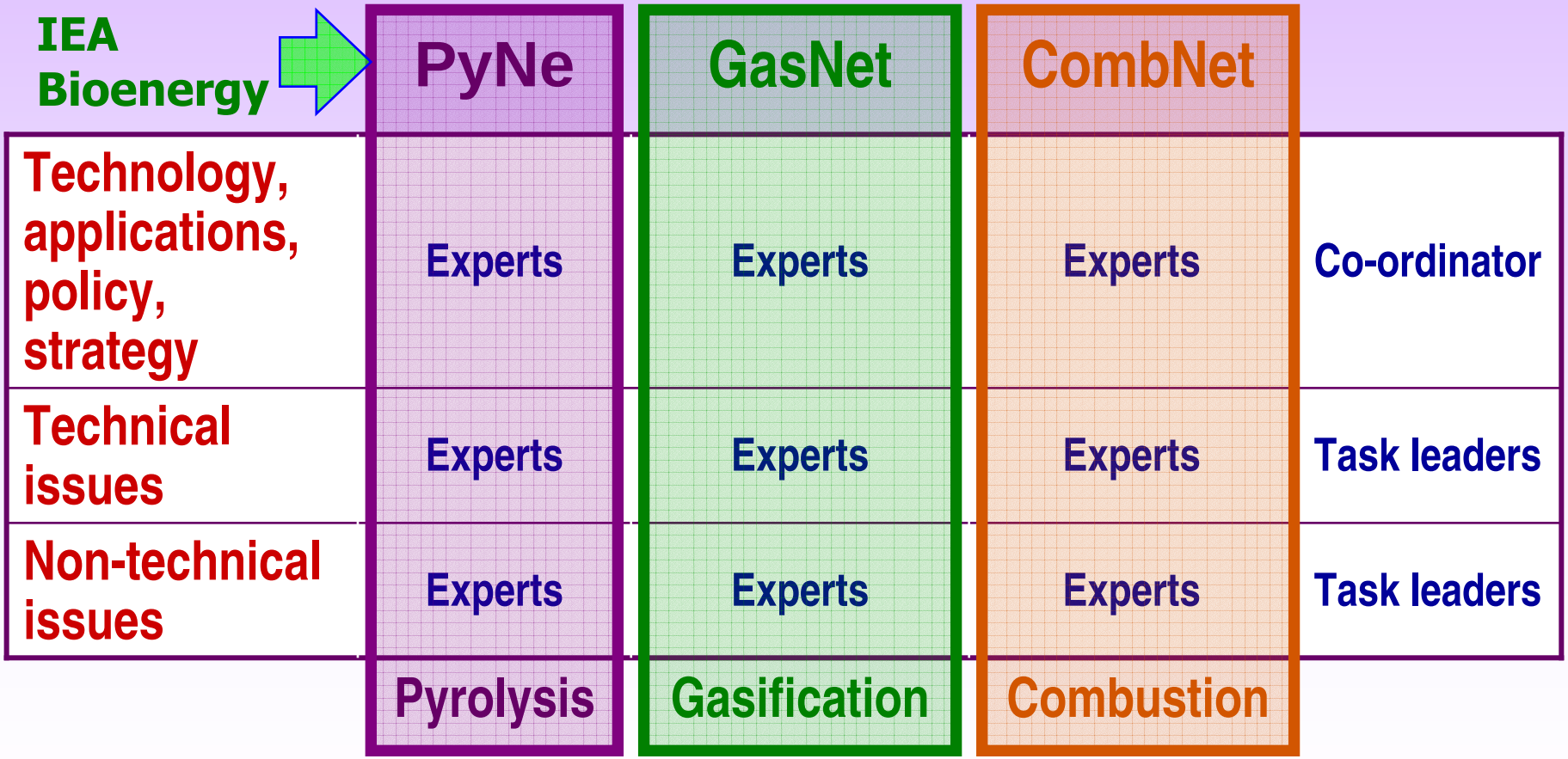
GasNet (Gasification **Net**work)

+

PyNe (Pyrolysis **Ne**twork)

ThermalNet activities

An integrated matrix of 3 conversion technologies and 12 tasks



Tasks

TECHNICAL ISSUES	NON-TECHNICAL ISSUES
Characterisation & analysis	Barriers (T&NTB)
Co-processing & co-firing	Education and training
Feedstocks	Economics
Fouling, corrosion, erosion	Environment health & safety
Gas treatment	
Science and modelling	
Transport fuels	
Biorefinery	

ThermalNet

	PyNe	GasNet	CombNet	
TECHNOLOGY				
Technology, applications, policy and strategy	T Bridgwater	H Hofbauer	S van Loo	
TECHNICAL TASKS				
Characterisation & analysis	Experts	Experts	Experts	A Oasmaa
Co-processing and co-firing	Experts	Experts	Experts	G Brem
Feedstocks and standards	Experts	Experts	Experts	M Doran
Fouling, corrosion, erosion	Experts	Experts	Experts	W Livingston
Gas treatment	Experts	Experts	Experts	R Padban
Science and modelling	Experts	Experts	Experts	C Di Blasi
Transport fuels	Experts	Experts		H Boerrigter
Biorefinery (IEA)	Experts			D Elliott
NON-TECHNICAL TASKS				
Barriers	Experts	Experts	Experts	P Thornley
Economics	Experts	Experts	Experts	M Lauer
Education and training	Experts	Experts	Experts	D Chiaramonti
Environment, health & safety	Experts	Experts	Experts	P Girard#

New Experts

WELCOME TO:

- Janina Ilmurzynska – Institute of Power Engineering, Warsaw, Poland
- Pavel Kolat – Technical University of Ostrava, Czech Republic
- Wieslaw Rybak – PWR, Wroclaw, Poland
- Jozef Viglasky – Technical University of Slovenia, Slovenia
- Wojciech Nowak – Czestochowa University of Technology, Poland (*APOLOGIES*)

Aims

- To support more effective implementation of thermal biomass conversion technologies by addressing technical, non-technical and commercialisation issues of the whole bioenergy chain.

Expected results

- A comprehensive trans-European forum that covers all the issues necessary to establish a successful European thermal bio-energy industry will be established, in which the matrix of 3 technologies and 12 tasks provide a high level of interaction between common issues.
- Every effort will be made to ensure that the emerging bioenergy industry sector can contribute to and benefit from the Network.
- The forum will disseminate its activities and outputs through the medium of technology focussed newsletters, websites, reports and conference proceedings.

Outputs

- Website – www.thermalnet.co.uk
- Newsletter – One newsletter, twice a year, with news on:
  - General topics,
  - Combustion,
  - Gasification
  - Pyrolysis
- Technical reports
- Conferences, workshops, seminars
- Interactions with EubioNetII, Bioenergy NoE, IEA Bioenergy tasks, and other networks and organisations

Programme for Lille

Monday 3 April 2006	
12.30	Lunch
14.00	**Welcome** Conference, Newsletter, Website, Task Reports, Next Meeting
14.10	**Combustion, Gasification and Pyrolysis** Review of Work Packages
15.30	Break
16.00	**Workshop: Characterisation and Analysis** Anja Oasmaa & Dietrich Meier
18.00-22.00	ThermalNet **Steering Committee** Meeting and Dinner
20.00	Delegates Dinner - own arrangements

Tuesday 4 April 2006				
09.00	**Workshop: Modelling** Columba Di Blasi and Invited Speakers			
10.30	Break			
11.00	Modelling workshop continued			
12.30	Lunch			
14.00	**Summary of modelling workshop**			
14.10	**Workshop: Gas Treatment** Thomas Kaberger and Invited Speakers			
15.30	Break			
16.00 to 18.00	***Informal Task Meetings***			
	Short Meeting with new experts	***Barriers*** P Thornley & W Prins	***Education & Training*** D Chiaramonti	***Economics & Transport Fuels*** M Lauer & H Boerrigter
19.30	**ThermalNet Group Dinner at hotel**			

	Wednesday 5 April 2006
09.00	**Workshop: Economics and MCDA** - Max Lauer
11.00	Break
11.30	**Workshop: Co-processing -** Gerrit Brem
13.00	Review of WP plans and goals Close of ThermalNet Meeting
13.00	Lunch
14.00-18.00	**Technology:** Pytec – S Schöll; BTG – W Prins; D Honsbein **Workshop: Pyrolysis Technical Barriers–** P Thornley+W Prins **Lignin Pyrolysis Round Robin** – D Meier + D Elliott
19.30	**PyNe Dinner**
	Thursday 6 April 2006
09.00-12.00	**Biorefineries** - Doug Elliott **TEA for biorefineries** – Max Lauer
12.00	Lunch

Domestic aspects

- Vegetarians
- Monday dinner on own EXCEPT Steering Committee – meet at 18.00 in here with dinner together afterwards
- Hotel bills must be settled before you leave

PyNe meeting

Crowne Plaza Hotel, Lille, France. Monday 3 April– Thursday 6 April 2006

Wednesday 5 April 2006	
14.00- 18.00	**Pyrolysis Technology 1** – T Bridgwater BTG – Wolter Prins Pytec – Stefan Schöll **Workshop Pyrolysis Technical Barriers –** P Thornley + W Prins **Lignin Pyrolysis Round Robin** – D Meier + D Elliott
19.30	**PyNe Dinner**
Thursday 6 April 2006	
09.00- 12.00	**Pyrolysis Technology 2** – T Bridgwater Rodim chemicals – Dagmar Honsbein FZK – Andreas Hornung **Biorefineries** - Doug Elliott Review **TEA for biorefineries** – Max Lauer Discussion **Study tours: USA + Canada; Europe** **Review and closure**