

TASK 36

Integrating Energy Recovery into Solid Waste Management Systems

Progress Report

**ExCo77
Rome, Italy**

17 - 19 May 2016

**Prepared by:
Inge Johansson, Task Leader
Pat Howes and Kathryn Warren, Co-Task Leaders**

**Checked by:
Åsa Forsum, Operating Agent**



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IEA Bioenergy

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Administrative task information

Operating Agent Åsa Forsum, Swedish Energy Agency, SE
Task Leader: Inge Johansson
Assistant task leaders: Pat Howes
 Kathryn Warren
National Team Leaders: Elisabeth Poncolet (France)
 Giovanni Ciceri (Italy)
 Dieter Stapf (Germany)

Annual budget

	USD
Contributions to be received from 4 Member Countries for 2016	61 600
Retention ExCo Strategic fund	6 160
Sub total budget 2016	55 440
Credit carried forward from 2015	2 434
Committed costs carried forward from 2015	19 800
Deficit carried forward from 2015 to be handled during 2016-2018	17 366

Budget break down - triennium

Category	Sub-categories	No hrs/year	Rate [\$/hr]	Budget 2016-2018	Spent as of 31/3/2016
Administration					
Task Management	Salaries TL (Inge Johansson)	95.3	170	48 615	2 465
	Co-TL (Pat Howes)	22.5	186	4 185 ¹	3 000 ²
	Co-TL (Kathryn Warren)	19.6	135	2 640 ¹	
Support Services	Accounting				
	Overhead cost				
	Banking fees				
	Auditing			6 000	1 400 ³
	ExCo retention			18 480	
Other expenditure	Postal Fees				
	etc.				
Travel cost	TL			21 000	
	Co-TL			1 000	
	Secretary				
	NTL				
Meeting cost	Room rent, meals, etc.			26 480	
Newsletter					
Website				9 000	
Projects	Title			47 400	3 400 ³
TOTAL				184 800	10 265

¹ Anticipated cost for task leading support after 31/3/2016

² Most expenses related to last triennium (final triennium report, work programme for new period)

³ All related to the last triennium

Significant achievements since last EXCO Meeting

Targets reached and deliverables since last reporting

Since the last ExCo meeting in Berlin Task 36 has:

- Organised its sixth task meeting during the period 2013-2015. This meeting was held in Berlin in October 2015.
- Arranged a workshop together with the International Solid Waste Association (ISWA) working group on Energy recovery. During the workshop the aim and work of Task 36 was presented as well as a presentation of the work on small scale Energy from Waste that was performed in the task. In addition moderated discussion around the role of Waste to Energy in a Circular economy was performed. The workshop was well attended and was a good start on both discussions on the role of WtE in circular economy and collaborations between IEA Bioenergy and ISWA.
- A report has been produced on Small scale Energy from waste - drivers and barriers.
- Continued work on the work programme of the new triennium 2016-2018.
- Due to the uncertainties of the UK participation, the task leadership has been turned over to Inge Johansson with Åsa Forsum as operating agent. Pat Howes and Kathryn Warren are assisting Inge in the task management during the first six months.
- The first meeting (with associated workshop) for the new triennium is under planning and will be held in Rome, Italy the same week as ExCo 77.
- Continued discussions with The National Environment Agency of Singapore together with an invitation to the task meeting and workshop in Rome.
- All deliverables from last triennium successfully delivered.

From 1st January 2015 to March 2016 there were 56,775 visits from 28,763 unique visitors. The total number of pages viewed was 977,602. Visits per month were relatively stable to October 2015 at between 4000-6000 per month, but dropped off markedly by the end of the year. Most visitors were from the UK and the rest of Europe, followed by the United States and China. Other countries accessing the web site included Russia, South Korea, Australia, UAE and Turkey. Most visits accessed publications and the gallery of photos. Publications from 2001-2012 were accessed. Most time was spent on the gallery page followed by the home page and publications.

Problems, Delays, additional funding, and cooperation

Problems:

The last triennium generated a deficit of USD 17 366 which needs to be remedied during the new triennium. This deficit resulted from a number of sources:

- Cumulative deficits over the preceding two triennium
- Additional costs for the last triennium, resulting from a combination of factors such as higher than expected costs for the Berlin meeting, higher than expected costs to achieve the Task aims and objectives and the cost of developing the strategic proposal for Waste management strategies within a Circular BioEconomy.

Remedying this deficit needs to be done on an already very sparse budget due to the fact that at present only 4 nations take part in Task 36. There are some different possibilities to remedy the deficit:

- Additional countries joining the task. There need to be an expansion of the task so this is a priority during the current triennium. Hopefully both UK and Norway can re-enter as well as new additions from other countries. This would give more possibilities to both remedy the deficit and do more work in the task.
- Find other funding to some of the intended work or sponsoring of meetings to save costs related to those.
- Reduce the work (and thereby costs) that is to be performed during the period. This includes the participation at ExCo meetings and the triennium conference as well as the work proposed as contribution to the strategic project on fuel pre-treatment for biomass residues.

The different options will be discussed during the first task meeting in Rome, May 16-17. The budget will also be reviewed and revised to reflect those changes.


Additional funding

Co-operation

Further co-operation is planned with ISWA and their working groups on energy recovery and resource efficiency.

The National Environment Agency is granted observer status and will be invited to participate in meetings and workshops during 2016. A discussion about further commitment from them will also be discussed during 2016.

Work plan

 Progress to date

Deliverable		2016				2017				2018			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
WS Co-firing challenging fuels (A1)WS	Planned	*											
	Actually												
SR Use of Solid recovered fuels (A2)	Planned			*									
	Actually												
EfW in the Circular economy (B1)	Planned												
	Actually												
WS Advanced thermal conversion (C1)	Planned					*							
	Actually												
SR Trends in Advanced conversion (C2)	Planned												
	Actually												
WS Transboundary shipment of waste (D1)	Planned							*					
	Actually												
SR International policy & other drivers (D2)	Only if more members join the task												
TR EfW in developing countries (E1)	Only if more members join the task												
CP EfW in developing countries (E2)	Only if more members join the task												
End of Triennium conference (M6)	Planned												
	Actually												
End of Task report													⊗
													□
Task meetings (M1-5)		⊗		⊗		⊗		⊗		⊗			⊗
		□		□		□		□		□			□
ExCo meetings Task administration			⊗		⊗		⊗		⊗		⊗		⊗