



Project Summary

Innovative demonstrations for the next generation of biomass and waste combustion plants for energy recovery and renewable electricity production

NextGenBioWaste

Action Line: Cost-effective supply of renewable energies

Contract Type: Integrated projects

Activity area: Biomass

Coordinator:

Organisation: SINTEF Energiforskning AS
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Project details

Reference:	BioEn/019809/2005	Start Date:	24/02/2006
Status:	Execution	End Date:	24/02/2010
Project Cost (€):	29.017.555	Duration (months):	48
Project Funding (€):	11.532.000		

Summary

NextGenBioWaste is targeting to perform innovative demonstrations of improvements to energy recovery and renewable electricity production from waste materials and other commonly used biomass feedstocks.

17 legal entities have agreed to establish NextGenBioWaste. The consortium encompasses 8 European utility companies, 2 technology providers, 6 RTD providers, and 1 consultant/engineering company.

NextGenBioWaste deals with waste and biomass feedstocks and covers the supply chain from fuel preparation, via conversion and residue handling, up to wholesale of energy. The objective of the NextGenBioWaste project is to improve the electric efficiency, reliability, performance and environmental compliance of waste and biomass combustion plants which produce heat and electric power, and to reduce costs at a competitive level.

NextGenBioWaste is organised as an integrated project (IP). The demonstration and RTD activities are structured in 4 sub-projects that respond to the objectives of the work programme:

SP1 Innovative fuel preparation and mixing
SP 2 Conversion
SP 3 Residue handling and use
SP 4 Dissemination

NextGenBioWaste will, in compliance with the stated objectives of the WP:

- deliver results aimed at accelerating the market penetration of a new generation of biomass and waste combustion plants with particular emphasis on 2010 energy policy objectives.

-- consist mainly of integrated demonstration actions with a research component of approximately 20% as a support for the planning, understanding and further improvement of the demonstrated technologies.

-- demonstrate reduction in the costs associated with implementation of new technologies and demonstrate how the technological solutions can be integrated under full-scale operating conditions. NextGenBioWaste will perform several large-scale demonstrations of different innovative concepts for the energy supply chain



Partners

1	SINTEF Energiforskning AS	NO
2	Vattenfall Utveckling AB	SE
3	Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek	NL
4	Joint Research Centre	BE
5	KEMA Nederland BV	NL
6	Vattenfall Europe Waste to Energy GmbH	DE
7	Keppel Seghers Belgium	BE
8	Max-Planck-Institut für Eisenforschung GmbH	DE
9	SVUM a.s., PRAGUE	CZ
10	GKS-Gemeinschaftskraftwerk Schweinfurt GmbH	DE
11	Trondheim Energiverk Fjernvarme AS	NO
12	Afval Energie Bedrijf, Amsterdam	NL
13	Vattenfall AB Business unit Nordic Heat	SE
14	N.V. Afvalverwerking Rijnmond	NL
15		FR
16	ASM BRESCIA SPA	IT
17		DE