Annex I

ACTIVITIES IMPLEMENTED JOINTLY REVISED UNIFORM REPORTING FORMAT (URF 01)

A. Governmental acceptance, approval or endorsement

- Date of this report: 31/03/2006
- This report is a (*please underline*):
 - First report
 - Interim report
 - Final report

• Please indicate here which sections were modified since the last report (*e.g. B.2, E.2.4, F.2*):

B. Summary of AIJ project

B.1 Title of project:

Limbazi, Combined installation of a new biofuel fired boiler and energy efficiency measures

B.2 Participants

Please describe briefly the role(s) of the main participating organization(s) and provide detailed contact information in annex 1:

B.3 Activity summary

- B.3.1 General description: Limbazi is a middle-size town situated in north-west Latvia. There is one main network with two mazout fired boiler plants. One of the two is located in the middle of the town and shall be closed. A new boiler house just outside the town has been built. The annual heat production in the town is 37 700 MWh.
- B.3.2 Type of activity : A new boiler plant for biofuels firing *Please use project type descriptors contained in annex 2.*
- B.3.3 Location (e.g. city, region, state): Limbazi town Limbazi region Latvia
- B.3.4 Stage of activity (*Please <u>underline</u> the appropriate option*):
- Pre-feasibility study completed
- Feasibility study completed
- In start-up or construction phase (e.g. ensuring financing, construction of site, purchase of land, installation of new equipment)

- B.3.4 Stage of activity (continued)
- In operation (e.g. new windmill plant is connected, converted boiler reconnected, etc. and real, measurable and long-term GHG emission reductions or removals by sinks are generated)
- <u>Completed</u>

 (AIJ project activity no longer generates GHG reductions or removals by sinks or has been terminated)

 Suspended
 - (Please indicate date when AIJ project activity is expected to resume, and give brief explanation of reasons for suspension (up to half a page)):

B.3.5 Lifetime of AIJ project activity:

- Approval date: August 18, 1997 (Date at which the AIJ project activity was mutually approved by designated national authorities of **all** Parties involved.)
- Starting date: September 1998 (Date at which real, measurable and long-term GHG reductions or removals by sinks will begin or began to be generated.)
- Ending date (expected): Loan expire date 31 March 2007 (Date at which AIJ project activity is expected to no longer generate GHG reductions or removals by sinks.)
- Ending date (actual):in operation (Date at which AIJ project no longer generated GHG reductions or removals by sinks or was terminated.)

• Ending of the operational life of the project if different from the ending date of the AIJ project activity: Expected technical lifetime is 25 years which means that the plant is expected to be in operation till 2022.

• Reasons for the choice of lifetime dates (*Describe briefly (up to half a page*)):

The lifetime criteria have been arranged in different groups depending on type of implemented activities. This classification assumes a level of operation and maintenance, which is normal in western countries.

Heat production plants (bio fuel)

25 years	New installation of all main equipment parts (fuel handling system, firing equipment and boiler) and modernisation of secondary equipment.
15 years	Conversion of existing boiler but new installation fuel handling system and firing equipment. Modernisation of secondary equipment.
10 years	Limited installation of new equipment (only one part of the three main parts, normally the firing equipment). Modernisation of other equipment.

Heat distribution systems and sub-stations

25 years	Pre-fabricated pipes and installations using certified contractors and supervisor according to EN norms and applicable district heating practise
15 years	Pre-fabricated pipes and installations without using certified contractors and supervisor

10 years information of existing pipes.	10 years	Modernisation of existing pipes.
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Energy efficiency in buildings

25 years	Additional insulation roofs walls etc. with Scandinavian technology.
	New installed heating systems.
15 years	Renovation and balancing of heating systems including thermostat valves.
10 years	Weather stripping windows, doors etc.

* if a combination of measures is done a reasonable lifetime for the project have to be calculated.

B.4 Determination of the baseline

- B.4.1 Date of completing the baseline determination: 1999 first report
- B.4.2 Carried out by (name): STEM/ÅF-International (*Please provide detailed contact information in annex 1*)
- B.4.3 Type of baseline methodology applied and described in detail in section E.1 (*Please underline the appropriate option(s)*)
- Project-specific by:
 - I. simulating a likely situation that would have existed without the project
 - II. taking an actual reference case project
 - III. other (Please specify (insert lines as needed)):
- Multi-project by using (please specify briefly):
- B.4.4 Describe the scope of the project boundary (*Please summarize briefly the related information provided in section E. 2*): Installation of a new boiler plant fired with biofuels. The new boiler will have the capacity of 4 MW. Automatic fuel storage and flue gas cleaning equipment is also included in the project. A new pre-insulated pipeline will be installed to connect the boiler house with the network. The annual heat production amounts to 14 600 MWh from the bio boiler and 23 100 MWh from mazout
- B.4.5 Describe the degree of aggregation of the multi-project baseline (*Please summarize* briefly the related information provided in section E. 1):

C. General compatibility with and supportiveness of national economic development and socioeconomic and environment priorities and strategies

Describe briefly, to the extent that information is available (up to one page) and refer to documents, decisions and laws, as appropriate:

The Swedish side considers that the project meets the following objectives in the Latvian Energy Law: - Efficient use of energy resources;

 Creation and use of energy efficient technologies, fuel/energy consuming and diagnostic equipment, construction and insulation materials; energy flow metering and control devices, automated energy consumption control systems;

Latvia became a Party of the United nations Framework Convention on Climate Change (UNFCCC) in 1992.

In accordance with Kyoto Protocol to the UN FCCC on 10 December 1997, Latvia individually o jointly should ensure, that its aggregate anthropogenic CO_2 equivalent emissions of CO_2 , CH_4 , N_2O , HFCs, PFCs and SF_6 in 2008 - 2012 should be 8% below the 1990 level.

D. Environmental, economic and social and cultural impacts

D.1 Environmental impact (positive and/or negative)

Annual emissions reduction based upon the 14,600 MWh of biofuels:

- 5,800 ton CO₂
- \circ 19 ton SO₂
- $\circ \quad 3.2 \text{ ton } NO_x$

Boiler plant is firing sawmill waste, which earlier was taken to forest

D.2 Economic impact (positive and/or negative)

Decreased fuel costs approx. 4 USD/MWh

D.3 Social and cultural impact (positive and/or negative)

- More stable energy supply.
- Improved working conditions, increased motivation.
- The boiler plant can use the waste from sawmills in neighbourhood.
- Improved trade balance

E. Calculation of real, measurable and long-term environmental benefits related to the mitigation of climatic change, that would not have occurred otherwise

E.1 Assumptions and characteristics of the baseline

E.1.1 Assumptions of the baseline

(Describe (up to 1 page)):

The project based status quo baseline had been assumed to be static for the project. The key parameters for the used baseline are:

- Baseline fuel light oil;
- Baseline efficiency of the fossil fuel boilers is 73%;
- Total heat production of the boiler plant before boiler conversion 37700MWh

It has been assumed that these parameters used for baseline will not change during whole period. The numerical data are presented in section E.1.4.

E.1.2 Describe the baseline

(Please describe the baseline as well as leakage effects (up to 1 page)):

Present data reflect emission reductions using status quo (emissions in the period before the conversion to renewable fuel) for the baseline case. Calculations, according to the top-down method, for emissions from different types of projects in the baseline case are being made. The changed calculation method will result in a change in emission reduction. The new data will be introduced as soon as available

E.1.3 Reasons for selecting a baseline and its methodology (*Describe (up to 1 page)*):

The project specific baseline as status quo case has been initially selected to start reporting on AIJ with the future plans to re-evaluate chosen baseline at pre-determined intervals in order to account for developments in the heating sector and indirect effects.

E.1.4 Calculation of values reported in 'Baseline scenario' in table E.5.1 column (A):

Calculation of values reported in 'Baseline scenario' in table E.5.1 column (A): CO_2 emissons values are calculated according the IPCC guidelines (1966).Carbon Emission Factor (CEF) are used to CO2 emitted during fuel combustion. Calculate CO₂ emission (M_{co2}). Formula for this calculation as follows:

$$M_{CO2} = Q_{fb*} q_{co2} * 100/\eta_b$$

Were,

Q_{fb}- boiler(s) heat production, MWh/year,

 K_c - fraction of carbon oxidised,

 q_{c} - carbon emission factor, tC/TJ,

 η_b - annual efficiency of boiler(s), i.e. baseline efficiency of fossil fuel boilers.

Documentation box (Please provide numerical data referred to in this section):

The following data are used for calculation of the baseline scenario CO₂ emission reductions:

Total heat production of the boiler plant before boiler conversion -37700 MWh/y Baseline efficiency of the fossil fuel boilers -73%Carbon emission factor for heavy fuel oil -0.274 CO₂/MWh

E.2 Assumptions and characteristics of the project scenario

E.3.1 Assumptions for the AIJ project activity and its boundary

E.3.2 Describe the project scenario

(Please describe the project scenario as well as effects occurring outside the project boundary (up to 1 page)):

Emission reductions are calculated using the IPCC Guidelines, using the Carbon Emission Factor (CEF) for different types of fuel, using actual system efficiency. For boiler conversion, the decrease in emissions is calculated in relation to the amount of fossil fuel replaced (status quo). For energy efficiency project the decrease in emissions reflects the amount of fuel that is saved through the project. In the case that the system uses renewable fuels, the reduction is calculated comparing the amount of fossil fuels that was used before the conversion to renewable fuels.

E.3.3 Please explain why the AIJ project activity would not have taken place anyway *(Describe (up to 1 page))*:

As a party to the Climate Convention, Latvia has started to facilitate the transformation toward an ecologically sustainable energy system as subject to the conditions of the Convention. Several factors have been restrained implementation AIJ projects:

- Lack of investment capital for renewable energy sources and energy efficiency projects, allowing financing at reasonable costs as long-term loans at reasonable interest rates;
- Lack of sufficient institutional responsibility for implementation AIJ projects;
- A weak local tradition using wood waste from industry and from forest as a fuel in the boiler plants and applying an up to date technology for energy saving. The local technology for the wood fuels firing has largely been missing;

• Lack of wood fuels firing know-how.

During the implementation of the EAES Programme in Estonia these barriers have been over-come by transfer reliable wood fuels firing technology and know-how.

E.3.4 Calculation of values reported in 'Project scenario' in table E.5.1, column (B)

Documentation box (Please provide numerical data referred to in this section):

E.3 Revision of the baseline for the project

- E.3.1 Baseline revisions are planned (please <u>underline</u>): Yes/ No *If yes, please complete the remainder of section E.3.*
- E.3.2 Revisions are planned at regular intervals (please <u>underline</u>): Yes/ No
- If yes, please specify date of first planned revision and the length of the intervals:
- If no, please explain revision schedule (*up to half a page*):
- E.3.3 Information on revisions
- If a baseline (and/or the project scenario) revision is covered by this report, describe briefly the nature of this revision, including parameters changed in the revision as well as the calculation of the new set of values in the column 'Baseline scenario' in a revision of table E.5.1, column (A): *(up to one page)*
- Date of last baseline revision: *(DD/MM/YYYY)*
- Date of next baseline revision: (DD/MM/YYYY)

Documentation box (Please provide numerical data referred to in this section):

E.4 Scope and performance of the actual project

Provide actual project data (E.5.2. Column B) and the calculations of the actual real, measurable and long-term emission reductions and/or removals as measured against the relevant (original/revised) baseline scenario values

Year	Year 1 =1998	Year 2 =1999	Year 3 =2000	Year 4 =2001	Year 5 =2002	Year 6 =2003	Year 7 =2004	Year 8 =2005	 Year 25
Heat production	7300	14600	14600	14600	17666	18689	16987	17790	14600

Documentation box (Please provide numerical data referred to in this section):

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Projected real, measurable and long-term GHG emission reductions or removals by sinks E.5.1

Projected real, measurable and long-term GHG emission reductions or removals by sinks over the lifetime of the AIJ activity (*Please underline and fill, as appropriate*: This is the initial table or this is revision _____ of this table) (in metric tons of CO₂ equivalent^a)

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	-	Baseline scenario ^b (A)	e scenario (A)	٩		Project 6	Project scenario ^b (B)	٩	Project long	Projected real, measurable and long-term GHG emission	measura HG emis	ıble and ssion
		-	×			-	<		reduc	reductions (-) or removals by sinks (+) ((B)-(A))	sinks (+) sinks (+) ((B)-(A))	vals by
Year	CO_2	$\mathrm{CH_4}^{\mathrm{a}}$	N_2O^a	Other ^a	CO_2	$\mathrm{CH_4}^{\mathrm{a}}$	N_2O^a	Other ^a	CO_2	CH4	N_2O	Other
1998	2900				0				-2900			
1999	5800				0				-5800			
2000	5800				0				-5800			
2001	5800				0				-5800			
2002	5800				0				-5800			
2003	5800				0				-5800			
2004	5800				0				-5800			
2005	5800				0				-5800			
:												
2022	5800				0				-5800			
TOTAL												

^b Including effects occurring outside the project boundary (leakage) as described in sections E.1.4, and E.2.4, as applicable

E.5.2 Actual real, measurable and long-term GHG emission reductions or removals by sinks

Actual real, measurable and long-term GHG emission reductions or removals by sinks of the AIJ activity (in metric tons of CO₂ equivalent^a)

Please insert values assessed ex post i.e. after measurement. Insert rows as needed.

Baseline scenario ^{b c} Actual project ^{b c} (A) (B)		Baseline scenar (A)	(f)			Actual 1	Actual project ^{b c} (B)		Actual long-i reductů	real, n term G ons (-) sink ((B))	Actual real, measurable and long-term GHG emission reductions (-) or removals by sinks (+) ((B)-(A))	le and ssion vals by	Values indicated are assessed independently (Yes/No)
Year	CO_2	$\mathrm{CH_4}^{\mathrm{a}}$	N_2O^a	Other ^a	CO_2	$\mathrm{CH_4}^{\mathrm{a}}$	N_2O^a	Other ^a	CO ₂	CH_4	N_2O	Other	
1998	2 130				0				-2130				
1999	5 790				0				-5790				
2000	6 550				0				-6550				
2001	7 479				0				-7479				
2002	6 672				0				-6 672				
2003	7 062				0				-7 062				
2004	6 420				0				-6 420				
2005	6 712				0				-6 712				
:													
2022	6102*				0				-6102				
TOTAL	48 815				0				-48 815				
^{a} Please convert values into global warming potentials, referring to annex 3 for conversion factors. ^{b} Including effects occurring outside the project boundary (leakage) as described in sections E.I.4,	vert value. Ifects occi	s into glo. trring ou	bal warm tside the	iing poten project bc	ttials, ref oundary (erring to (leakage)	annex 3] as descr	for conver ibed in se	rsion facto ctions E.I.	ırs. .4, E.2.	4, E.3.4	and E.4,	a Please convert values into global warming potentials, referring to annex 3 for conversion factors. b Including effects occurring outside the project boundary (leakage) as described in sections E.1.4, E.2.4, E.3.4 and E.4, as applicable.

Including effects occurring outside the project boundary (leakage) as described in sections $^{\circ}$ Values that differ from those in table E.5.1 should be marked in **bold**.

* - Average figure for previous full years of operation

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E.6 Mutually agreed assessment procedures

If the AIJ activity provides for mutually agreed assessment procedures, please fill subsections E.6.1 or E.6.2, as applicable.

E.6.1 Assessment procedures that use all or one of the following steps:

E.6.1.1 Initial independent assessment of the project activity:

- Has the project design been subject to such an assessment? (*Please <u>underline</u>*): Yes/No
- If yes, what organization(s) is/are involved: (*Please indicate the type of organization(s) (consultancy, accredited certification body, government body, university, etc.) and provide their detailed contact information in annex 1 to this report).*

E.6.1.2 Monitoring

- Does the project have a monitoring plan? (*Please <u>underline</u>*): Yes / No
- Summarize briefly the key elements of the monitoring plan (*i.e. which parameters are being monitored, with what frequency, providing sampling intensities if appropriate, methods and equipment; associated uncertainties, etc.) (not more than 1 page):*

STEM has continued its assistance in monitoring and reporting the projects in the host countries. Experts from STEM, as well as the Swedish consultancy company ÅF-International provided guidance in methodology. For the regular follow-up activities a special format has been developed to collect performance data from each plant for each heating season. The monitoring activities have continued by local experts for preparing Swedish AIJ reports.

The following monthly data are collected and monitored:

- Heat production on bio fuels;
- Heat production on fossil fuels;
- Total heat production of the boiler house;
- Bio fuels consumption;
- Fossil fuels consumption.
 - Is the monitoring conducted by project proponents? (*Please <u>underline</u>*): Yes / No
 - If no, which organization(s) is/are involved: (*Kindly indicate the type of organization(s) (consultancy, accredited certification body, government body, university, etc.) and provide their detailed contact information in annex 1 to this report).*

E.6.1.3 Independent assessment of the project performance

- Is the activity subject to such an assessment? (*Please <u>underline</u>*): Yes / No
- If no, is such an assessment intended? (*Please <u>underline</u>*): Yes / No
- If yes, what organization(s) is/are involved: (*Please indicate the type of organization(s) (consultancy, accredited certification body, government body, university, etc.), and provide their detailed contact information in annex 1 to this report. Indicate the frequency of the assessments, how many assessments have taken place to date, and whether the assessment report(s) is/are publicly available if requested).*
- Summarize briefly the key elements of the assessment activities: (*Please describe issues such as criteria used; the project design; project implementation; key project*

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parameters being verified; the frequency of assessment/surveillance; sampling approach applied by the assessing organization) (up to one page):

E.6.1.4 Provision of written statement by an independent entity regarding the performance of the project activity

(Please note that such a statement is not a formal requirement under the AIJ pilot phase (see also the note at the beginning of section E.6). If the project has made provision for such a statement, please indicate the name of the independent body and attach a copy of the written statement(s)).

E.6.2 Other form of mutually agreed assessment procedure (*please specify*):

E. 7 Cost (to the extent possible)

- E.7.1 The cost information is *(Please <u>underline</u>)*:
- Provided below
- Not provided because the data are (*Please <u>underline</u>*):
 - Not yet available
 - Classified as confidential

E.7.2 AIJ project activity costs

Country		Limbazi BC	1998	1999	2000	2001	2005
			0	1	2	3	7
	Investmen						
	t	1. Loan/debt to STEM	511000	590920	598922	589898	4117627
		2. Added costs	97574	11089	27725	28667	0
		3.Technical assistance	75000	0	0	0	0
	AIJ/JI	4. Follow up	0	2267	2139	1265	2852
A. Sweden	costs	5. Reporting costs	2000	744	301	282	810
		6. Administration	31000	0	0	0	0
		7. Difference in interest	4%	23636,8	23956,9	23595,9	164705
		8.Accum. costs for AIJ/JI	108000	134648	161045	186189	189851
		9.Total costs	716574	725567	759967	776087	
	Investmen t	1. Investment/amortization	0	28743	19723	37691	0
Latvia	AIJ/JI	2. Reporting costs	0	0	0	0	0
		3. Other osts	0	0	0	0	0
	costs	4. Accum. costs for AIJ/JI	0	0	0	0	0
		5. Total costs	0	28743	48466	86157	
1 USD=	10	SEK					

Please list cost figures per year (insert rows as needed)

^(a) Indicate the total incurred till the date of this report.

F. Financial additionality

Bearing in mind that the financing of AIJ shall be **additional** to financial obligations of Parties included in Annex II to the Convention within the framework of the financial mechanism, as well as to current official development assistance (ODA) flows (decision 5/CP.1):

Please list sources and the purpose:

Source and purpose of the AIJ project activity funding Including pre-feasibility phase (One line for each source)	Amount (in thousand US\$)
Loan from NUTEK/STEM	813 333 USD
Grant from NUTEK/STEM for technical assistance	86666 USD
Loan from the local bank	246000 USD

1 USD = 7,5 SEK

* From 1 January, 1998, the new Swedish National Energy Administration was established – from 1 January 2002 the name in English has been changed to the Swedish Energy Agency - has taken over the responsibility for the Programme for an Environmentally Adapted Energy System in the Baltic region and Eastern Europe (EAES Programme) from NUTEK (Swedish National Board for Industrial and Technical Development.

G. Contribution to capacity building, transfer of environmentally sound technologies and know-how to other Parties, particularly developing country Parties, to enable them to implement the provisions of the Convention. In this process, the developed country Parties shall support the development and enhancement of endogenous capacities and technologies of developing country Parties

G.1 Identification of environmentally sound technology and know-how

- Name of manufacturer: Järnforsen Energy System AB (main contractor of the combustion equipment)
- Place of manufacture *(country)*: Sweden
- Model names and numbers of equipment (*where appropriate*):
- Any other relevant key specific technology characteristics:

capacity 4MW

Boiler hot water Danstoker VVS6

- Where applicable, name and location of provider and nature of training:
- Special training courses for boiler house operators were arranged by the main contractor on operation/
- maintenance of wood fuel burning plant.
- Translation of manuals and safety regulations for boiler operation.
- The staff from the boiler plant has been invited to different seminars and workshops, documentation for training has been handed over.

G.2 Characteristics of environmentally sound technology

The technology is (<u>underline</u> the option):

- At a research and development stage
- Being tested or demonstrated in similar conditions outside the host country
- At the initial stage of introduction into the world market
- At the initial stage of introduction into the host market
- Commercially available and deployed in the world market
- Commercially available and deployed in the host market
- Not characterized by the above options. *Please describe:*

G.3 Impact of the AIJ project on capacity-building and transfer of environmentally sound technology and know-how (up to two pages):

Systematically, the capacity building and transfer of know-how have involved the following activities over time and have taken place through:

i) Technology transfer through NUTEK/ STEMs technical specialist during the implementation of the project.

Technology transfer has taken place through NUTEK /STEMs technical specialist support to the local project leader and municipality as well as boiler plant staff.

ii) Technology transfer through cooperation between foreign supplier and local partner

Local companies took part in the project implementation phase (ground works, building, civil engineering works), the main contractor for the equipment delivery has been company Järnforsen Energy Systems (Sweden)

iii) Conferences, seminars, documentation and training.

Special training courses for boiler house operators were arranged by the main contractor on operation/ maintenance of wood fuel burning plant.

Translation of manuals and safety regulations for boiler operation.

The staff from the boiler plant has been invited to different seminars and workshops, documentation for training has been handed over. The following seminars in Latvia have been organized by support from STEM:

- "Environmentally Adapted Energy Systems in Baltic States and Eastern Europe", Cesis, 23 November, 1994;
- "Prospects for small boiler conversion to biofuel in Latvia", Rauna, March, 1996
- "Possibilities for wood fuel utilization in Latvia", Broceni, 17 April, 1997;
- "Waste wood for boiler houses", Liepa municipality, 5 June, 1998

Presentation of book translated from Swedish to Latvian "Environmentally adapted local energy systems", author Niels Moe (STEM), seminars in Balvi, Jelgava, Saldus, 6-8 May, 1998

iv) Stimulate "net-working" for the exchange of experience between plant owners with similar problems, e. g. "bio-clubs"

Specialists of other boiler houses have visited the boiler plant, the staff has an exchange of experience with other boiler plants. The management was active in the "bio-club" established in 1994 and is now member of Bioenergy Association.

H. Additional comments

Complete as appropriate:

1) Any practical experience gained:

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This is the first project where completely new boiler house has been constructed. Boiler house operators got new knowledge about burning of wood fuel. Place is used as demonstration plant.

2) Technical difficulties:

Some social problems and resistance at the very first stage of the project, because many people were against the building of a new boiler house. After commissioning these people were proud of the new and clean heat source.

3) Effects encountered:

The project realization gave:

- ♦ Reduced fuel costs;
- Improved environment;
- New working places for fuel supply, and plant operation;
- Reduced dependence from the imported fuel;
- Better economy for the local regional level;
- Cooperation between Baltic and Nordic countries;
- Involvement of local companies for project implementation;
- Ideas for new fuel conversion projects.

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• Annex 1 to the revised uniform reporting format (URF 01)

PARTICIPANTS' CONTACT INFORMATION

Please provide contact information for <u>each</u> organization. Add rows as required (by copying and pasting)

Name	Address ^a	Voice/Fax/E-mail
Organization(s) ^b : Swedish Ene		
Function(s) within activity^c: Fi	inancing/Project development	
Officer responsible:	The System Analysis Department, Climate Change Division Kungsgatan 43 BOX 310 S-63104 Eskilstuna SWEDEN <u>http://www.stem.se</u>	Tel: +46 16 544 20 81 Fax: +46 16 544 22 64 E-mail: bengt.bostrom@stem.se
Contact person, if different	Head of Section, Climate	Tel: +46 16 544 20 72
from above:	Investment Programme	Fax:+46 16 544 22 54
Gudrun Knutsson		E-mail:
		Gudrun.Knutsson@stem.se

Name	Address ^a	Voice/Fax/E-mail	
Organization(s) ^b : Ministry of the Environment of the Republic of Latvia			
Function(s) within activity ^c : Designated national authority/reporter			
Officer responsible:	Climate and Renewable Energy Department Peldu str. 25; LV 1494, Riga;	Tel.: 371- 7026508 Fax: 371-7820442 Ingrida.apene@vidm.gov.lv	
Contact person, if different from above: Apene Ingrida	Senior official	Tel.: 371-7026508 Fax: 371-7820442 Ingrida.apene@vidm.gov.lv	

Name	Address ^a	Voice/Fax/E-mail	
Organization(s) ^b : SIA "Ekodoma"			
Function(s) within activity ^c : Local reporter			
Officer responsible:	Noliktavas 3-3;	Tel:371-7323212	
-	LV 1010, Riga, Latvia	Fax:371-7323210	
		E-mail: ekodoma@ekodoma.lv	
Contact person, if different	Local project leader	Tel:371-7323210	
from above:		Fax:371-7323212	
Dagnija Blumberga		E-mail: ekodoma@ekodoma.lv	

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Name	Address ^a	Voice/Fax/E-mail
Organization(s) ^b :	1	
Function(s) within activity ^c :	" Limbazi Heat" Ltd	
Officer responsible:	Sporta Street 10, LV4000,	Tel: +371-40-21 033
-	-	Fax: +371-40-21 033
		E-mail:
Contact person, if different	Director	Voice:
from above: Valentins		Fax: +371 4070514
Tarakanovs		E-mail:

^a Address should include: department; street; postal code; city; country and the Internet address of the organization (if available). ^b Organization includes: institutions, ministries, government agency closely following the activity, companies, non-governmental organizations, etc. involved in the activity.

^c Function within activity: please use the following categories:

Function	Description of function	
Project development	Designing/developing the AIJ project and/or submitting the AIJ project proposal	
Project operator	Implementing and administering the AIJ project activities	
Government regulation/oversight	<i>Ensuring compliance of the project with laws and regulations</i>	
Technical assistance	Providing scientific or other technical guidance or support for the purposes of project development and/or project administration, implementation, training and education activities	
Financing	Serving as a source of funding for the AIJ project	
Initial independent assessment of project activity	Assessing whether the project activity meets a given set of criteria	
Monitoring	Monitoring the environmental and/or socio-economic results of the project in accordance with a monitoring protocol	
Independent assessment of project performance	Assessing the performance (environmental and/or socio- economic) achieved by a project against pre-set criteria	
Providing independent written statement on performance	<i>Providing written assurance that a performance is achieved and/or a set of criteria is met by an activity</i>	
Designated national authority	Entity authorized to officially accept, approve or endorse the AIJ project	
Other (please specify)		

Annex 2 to the revised uniform reporting format (URF 01)

PROJECT TYPE DESCRIPTORS

To describe the type of project activity, please specify the sector(s) <u>and</u> <i>activity(ies). Use a combination from the first column (sector) and one option from the second column (activity):

Sector	Activity	
Energy	Fuel-switching, renewable energy generation, alternative energy generation, improving energy efficiency, reduction of fugitive emissions from fuels, other (please specify)	
Industrial processes (Excluding GHG emissions	Material substitution, process or equipment change, waste treatment, recovery or recycling, other (please specify)	
from energy production)		
Solvent and other product use	Material substitution, process or equipment change, waste treatment, recovery or recycling, other (please specify)	
Agriculture	Livestock productivity management, livestock manure management, crop management, crop-switching, fertilizer management, fertilizer substitution, other (please specify)	
Land-use change and forestry	Afforestation, reforestation, forest preservation, agroforestry, silviculture (forest management), fire management, sustainable harvesting, reduced impact logging, manufacture of durable wood products, other (please specify) ^a	
Transport		
Waste	Solid-waste management, landfill methane recovery, waste- water management, other (please specify)	
Other	Please make a proposal for the sector and activities	

Note: One AIJ project activity may cover several project types.

^a Parties may wish to further revise these activity categories in the light of results of methodological work on land use, land-use change and forestry.

Annex 3 to the revised uniform reporting format (URF 01)

1995 IPCC GLOBAL WARMING POTENTIAL (GWP) VALUES^a BASED ON THE EFFECTS OF GREENHOUSE GASES OVER A 100-YEAR TIME HORIZON

Greenhouse gas	Chemical formula	1995 IPCC GWP
Carbon dioxide	CO ₂	1
Methane	CH ₄	21
Nitrous oxide	N ₂ O	310
Hydrofluorocarbons (HFC	Cs)	
HFC-23	CHF ₃	11700
HFC-32	CH ₂ F ₂	650
HFC-41	CH ₃ F	150
HFC-43-10mee	$C_{5}H_{2}F_{10}$	1300
HFC-125	C ₂ HF ₅	2800
HFC-134	C ₂ H ₂ F ₄ (CHF ₂ CHF ₂)	1000
HFC-134a	C ₂ H ₂ F ₄ (CH ₂ FCF ₃)	1300
HFC-143	$C_2H_3F_3$ (CHF ₂ CH ₂ F)	300
HFC-143a	C ₂ H ₃ F ₃ (CF ₃ CH ₃)	3800
HFC-152a	C ₂ H ₄ F ₂ (CH ₃ CHF ₂)	140
HFC-227ea	C ₃ HF ₇	2900
HFC-236fa	C ₃ H ₂ F ₆	6300
HFC-245ca	C ₃ H ₃ F ₅	560
Perfluorocarbons		
Perfluoromethane	CF ₄	6500
Perfluoroethane	C ₂ F ₆	9200
Perfluoropropane	C 3F8	7000
Perfluorobutane	C ₄ F ₁₀	7000
Perfluorocyclobutane	c-C ₄ F ₈	8700
Perfluoropentane	C ₅ F ₁₂	7500
Perfluorohexane	C ₆ F ₁₄	7400
Sulphur hexafluoride	SF ₆	23900

^a As provided by the IPCC in its Second Assessment Report. Please refer to conclusions of the SBSTA at its fourth session (FCCC/SBSTA/1996/20) and decision 2/CP.3 (FCCC/CP/1997/7/Add.1).

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Annex 4 to the revised uniform reporting format (URF 01)

For the text of the decision adopting the revised URF and requesting Parties to use this format see the report of the eighth sessions of the Conference of the Parties.

Decision 5/CP.1

Activities implemented jointly under the pilot phase

The Conference of the Parties,

Recalling that, in accordance with Article 4.2(d) of the United Nations Framework Convention on Climate Change, the Conference is required to take decisions regarding criteria for joint implementation as indicated in Article 4.2(a),

Noting that the largest share of historical and current global emissions of greenhouse gases has originated in developed countries, that per capita emissions in developing countries are still relatively low and that the share of global emissions originating in developing countries will grow to meet their social and development needs,

Acknowledging that the global nature of climate change calls for the widest possible cooperation by all countries and their participation in an effective and appropriate international response, in accordance with their common but differentiated responsibilities and respective capabilities and their social and economic conditions,

Recognizing that,

(a) According to the provisions of the Convention, the commitments under Article 4.2(a) to adopt national policies and to take corresponding measures on the mitigation of climate change apply only to Parties included in Annex I to the Convention (Annex I Parties), and that Parties not included in Annex I to the Convention (non-Annex I Parties) have no such commitments,

(b) Activities implemented jointly between Annex I Parties and non-Annex I Parties will not be seen as fulfilment of current commitments of Annex I Parties under Article 4.2(b) of the Convention; but they could contribute to the achievement of the objective of the Convention and to the fulfilment of commitments of Annex II Parties under Article 4.5 of the Convention,

(c) Activities implemented jointly under the Convention are supplemental, and should only be treated as a subsidiary means of achieving the objective of the Convention,

(d) Activities implemented jointly in no way modify the commitments of each Party under the Convention,

1. Decides:

(a) To establish a pilot phase for activities implemented jointly among Annex I Parties and, on a voluntary basis, with non-Annex I Parties that so request;

(b) That activities implemented jointly should be compatible with and supportive of national environment and development priorities and strategies, contribute to cost-effectiveness in achieving global benefits and could be conducted in a comprehensive manner covering all relevant sources, sinks and reservoirs of greenhouse gases;

(c) That all activities implemented jointly under this pilot phase require prior acceptance, approval or endorsement by the Governments of the Parties participating in these activities;

(d) That activities implemented jointly should bring about real, measurable and long-term environmental benefits related to the mitigation of climate change that would not have occurred in the absence of such activities;

(e) That the financing of activities implemented jointly shall be additional to the financial obligations of Parties included in Annex II to the Convention within the framework of the financial mechanism as well as to current official development assistance (ODA) flows;

(f) That no credits shall accrue to any Party as a result of greenhouse gas emissions reduced or sequestered during the pilot phase from activities implemented jointly;

2. *Further decides* that during the pilot phase:

(a) The Subsidiary Body for Scientific and Technological Advice will, in coordination with the Subsidiary Body for Implementation, establish a framework for reporting, in a transparent, well-defined and credible fashion, on the possible global benefits and the national economic, social and environmental impacts as well as any practical experience gained or technical difficulties encountered in activities implemented jointly under the pilot phase;

(b) The Parties involved are encouraged to report to the Conference of the Parties through the secretariat using the framework thus established. This reporting shall be distinct from the national communications of Parties;

(c) The Subsidiary Body for Scientific and Technological Advice and the Subsidiary Body for Implementation, with the assistance of the secretariat are requested to prepare a synthesis report for consideration by the Conference of the Parties,

3. *Further decides*:

(a) That the Conference of the Parties shall, at its annual session, review the progress of the pilot phase on the basis of the synthesis report with a view to taking appropriate decisions on the continuation of the pilot phase;

(b) In so doing, the Conference of the Parties shall take into consideration the need for a comprehensive review of the pilot phase in order to take a conclusive decision on the pilot phase and the progression beyond that, no later than the end of the present decade.

7 April 1995

10th plenary meeting

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