



eco-innovation
WHEN BUSINESS MEETS THE ENVIRONMENT

**CIP Eco-innovation
Pilot and market replication projects
Call 2012**

Call Identifier: CIP-EIP-Eco-Innovation-2012

**Progress Report
TV4NEWOOD
Contract ECO/12/333079**

Covering the reporting period from

01/09/2013 to 30/06/2014

Reporting Date

<30/07/2014>

Project coordinator: WDE MASPELL SRL

Project website: <http://www.tv4newood.it/>

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Terminology for reports:

In Grant Agreement:	In Annex I and reporting templates:
Technical progress report	Progress report (PR)
Interim technical implementation report	Interim report (IR)
Interim/final financial statement	Financial report
Final technical implementation report	Final report (FR)

Notes:

In accordance with the relevant provisions in Article I.6.2 of the Grant Agreement and Annex III, the coordinator must provide the EACI with:

- **technical progress reports within 30 calendar days of the end of the reporting period in question.**

The technical progress report, **hereafter named progress report (PR)**, shall contain the necessary information for the EACI to evaluate the state of implementation of the project, the respect of the work plan and how far project's objectives have been achieved. The progress report is **not payment related**, therefore no financial report should be submitted.

The progress reports are not only an administrative or contractual requisite, but are real management and working tools for all beneficiaries involved in an action. They should be clear, concise, meaningful and comprehensive.

- Progress reports *must* be submitted following the schedule *as foreseen in Article I.6.2 and in the final version of the Annex I attached to the Grant Agreement*, unless modified with agreement of the EACI.
- A PR would normally contain 5-10 pages. Please use font Times New Roman 12 or equivalent.
- The PR should contain a concise statement of the tasks undertaken and a forecast for the next reporting period. Any problems encountered during the period and possible deviations from project plans must be covered.
- **The PR must also contain in an annex:**
 - **an updated version of the publishable project information sheet (template downloadable from the website http://ec.europa.eu/environment/eco-innovation/managing-projects/contract-finance/index_en.htm);**
 - **copy of the deliverables produced during the reporting period, excluding those already sent with the previous report.**
- The coordinator shall submit the report in English, in 2 originals and 1 electronic format.
- Fyi: every beneficiary should keep time sheets; these can be requested by the EACI at random. You can use the timesheet model available on our website http://ec.europa.eu/environment/eco-innovation/managing-projects/contract-finance/index_en.htm

Please indicate the contract number and acronym in the header/footer of each page.

REQUIRED STRUCTURE

1 Progress of work plan in the period

1.1 General progress (max half page) - Summarise the objectives and the achievements, deviations, important problems and difficulties met.

The overall work plan for the first 10 months activities and achievements was completed coherently. With reference to each WPs these are the main activities, objectives, achievements and related comments:

WP1 – kick-off meeting was performed few day after the project start, with the participation of all the partners. The meeting has included the sharing of signed “Contract Agreement” for consortium management, including rules and decision making process; IPR and commercial management; confidentiality agreement and management for background and foregrounds. Work plan for the first 3 months was issued (and updated at every meeting) and internal documented procedures for purchasing, communication fairs and seminar participation were explained and agreed. Moreover internal audit plan (operational and administrative) were firstly approved and performed accordingly.

WP2 – Task 1 -First stage of Market Analysis were concluded. The second stage of the market analysis is already started and includes data collection from questionnaires, feedback from fairs and workshop, which are (and will be) under processing. Further data will be collected by demonstration actions foreseen in work package 5. CSLS partner was mainly involved in market analysis and questionnaires design, but all partners have contributed concretely both for market analysis and questionnaires design. Task 2 - The first Thermovacuum machine was re-designed (by WDE), built and at the end installed at ECW partner site. One month of delay due to the weather conditions in Monistrol (ECW site in France) that didn't allowed the drying of the concrete base for machine commissioning on time. Plant official inauguration after training period was performed in June during the Energy Day participation. Patent extensions were made as foreseen in UE, USA, China, Canada, Brasil and India. Task 3 and 4: first production of TVW were initiated (at ECW) for process data collection and quality assessment for product (CNR). Test are still ongoing. ECW partner has purchased the equipment (machine) with regular operating leasing.

WP3 – CNR is still collecting production data for mass /energy balance and calculation of environmental indicators. CNR has spent hours in preparation activity. The following elements are under process:

- Objectives of LCA;
- Functional unit and reference flow;
- System boundary: definition of lower level process;
- LCA phases;
- Set-up of LCA second phase: Life Cycle Inventory input e output, flowchart.

Criticality: Thermovacuum is an innovative process and for this reason it is probably not possible to use only specific primary data coming only from direct information from the partners. It's probably needed to use secondary and/or generic data. Due the installation delay, the data collection is consequently delayed of about one month compared with the initial schedule. Due the summer holydays the work plan will re-start on September. A work and test plan revision is foreseen at the beginning of September among partners ECW, CNR and SLU.

WP4 – Coordinator WDE has spent some hours for first TVW production at ECW site, for personnel training and machine set up. Work plan suspended for summer holidays, will restart in September coherently. CNR made activity for facilities set-up, including the organization of spaces and logistic in the laboratory for the management of tests, the set-up of machines in the wood shop laboratory for the machining of small specimens. Started the activity for WP4.1: a series of explorative pre-tests (treatment and post characterisation) have been performed on wooden boards with the following objectives: a) to design the methods and possible cooperation with other laboratories for the VOC analysis and to explore the VOC characteristics of TVT also compared with the competitors; b) to solve a problem of final quality (due to the occurrence of internal cracks) affecting oak

WP5 – Activities substantially not initiated yet, despite of communication and marketing plan are ongoing and TVW production for end users is under detailed scheduling. With reference to the task 5.5.4 consortium has participated at Madexpo and Xylexpo in Milan (with seminar and presentation of technology and project), at Nautec in Carrara presenting the project (see the video on the website) and has organised a workshop in Monistrol at ECW site in June, taking the chance of Thermovacuumwood machine official inauguration and Energy Day participation (see video on Youtube linked at the project website and a short newsletter downloadable through the project website). Consortium has actively participated at many others seminars and fairs for presenting project, technology and TVW product, in particular CNR has attended:

- the European conferences ECWM7 (The Seventh European Conference on Wood Modification) in Lisbon on 10-12 March 2014. Presented a paper.
- the COST FP0904 (Thermo-Hygro-Mechanical Wood Behaviour and Processing) Conference in Skellefteå, Sweden May 19-21. Presented a paper

Moreover CNR has actively participated at the exhibit “WOOD” at MUSE Science Museum in Trento (www.muse.it/en/Esplora/mostre-temporanee/Archivio/Pages/Wood_legno_edilizia_e_tecnologia.aspx). The MUSE collect about 40.000 visitors/months, the WOOD temporary exhibit have been inaugurated on May 16th 2014 and it will last until the end of the year. The TV4NEWOOD project has a relevant part in the area of the exhibit where interactive tools and demo-products made of TVW illustrates the activities and expected results of the project.

WP6 – Business Plan is working progress, first two sections were prepared with the subcontractor IGC and WDE. Thanks to the first market analysis is nowadays ongoing the competitive positioning analysis. Some partners were involved (SLU, CSLS; ECW) too for data e information collection regarding competitors, alternative products, and related brand and communication strategies adopted.

WP7 – with reference to the task 6, website is on since December 2013, it is 5 languages, and it is linked at Facebook and Google+ social network and partner websites. Revision of Social Network Marketing Campaign is under Consortium approvals. A slight delay is due because partners are not familiar with social networks (some of them have not company website yet), because the SNM activities foreseen were addressed to product (TVW) for which at the moment we have not all the information available for a robust communication plan. We started with the dissemination related to the process and project activities, maintenance and positioning thanks to SEO and SEM (supplied by WDE) techniques are applied. Main contributions were by WDE (coordination, collection, supervision and publication on the website), CNR and CSLS partners (for technical support specially in questionnaire design). Other dissemination activities were performed: Paper on Sherwood (an Italian forestry Journal);

Interview for the Italian radio network RADIO24 in the scientific section Moebius
www.radio24.ilsole24ore.com/programma/moebius/2013-08-04/danze-cretesi-fusione-fredda-124603.php?idpuntata=gSLA5f3rT&date=2013-08-04; papers on different technical French And Sweden magazines.

Del. N° ¹	Deliverable name ¹	Type ¹	WP N° ¹	Delivery date from Annex I ¹	Delivered (yes/no) and status (draft/final)	Submission with report ²	Forecasted delivery date	Comments on progress
D1.1	Kickoff Meeting Report	Text / Plan	01	Month 01	Yes / Final	PR1	30.09.13	NONE
D7.1	Project Information Sheet	Text	07	Month 01 and together with reports	Yes / Final	PR1	30.09.13 30.07.14	NONE
D1.5	Internal Audit	Report	01	12 (every 3 rd month)	YES / Final	PR1	30.11.13 28.02.14 31.05.14	NONE
D1.6	Meeting Report	Report	01	12 (every 3 rd month)	YES / Final	PR1	30.11.13 28.02.14 31.05.14	NONE
D2.2	Technical report containing information and data for the redesign of the plant and editing of the user manual	Report	02	Month 03	YES / Final	PR1	30.11.13	NONE
D2.3	Machine Lay Out and first Drawings	Drawings	02	Month 03	YES / Final	PR1	30.11.13	NONE
D2.1	List of End User to which send the questionnaires	File List	02	Month 05	YES / Draft	PR1	31.01.14	Deliverable could be considered completed since more than 2000 questionnaires were sent (almost 3000) but we are

								intended to update our database of addresses
D2.4	1 Thermovacuum Machine Installed	Machine	02	Month 06	YES / Final	PR1	28.02.14	NONE
D7.6	Project Website	website	07	Month 06	YES / Draft	PR1	28.02.14	Website continuously updated
D2.5	Manual for the standard production of the treated wood for the certification procedure	Manual	02	Month 07	YES / Draft	PR1	31.03.14	We intend to update it with completion of deliverables D2.7 – D2.16 – D4.7
D6.1	Business Summary	Section of Document	06	Month 08	YES / Draft	PR1	30.04.14	As foreseen in List of Deliverable in Annex I of Grant Agreement the document will be reviewed once a year
D6.2	Management Summary	Section of document	06	Month 08	YES / Draft	PR1	30.04.14	As foreseen in List of Deliverable in Annex I of Grant Agreement the document will be reviewed once a year
D6.3	Market Analysis	Section of document + chart	06	Month 09 + 15	YES / Draft	PR1	31.05.14 + 31.10.14	Feedback and data collection from questionnaires ongoing. As foreseen in List of Deliverable in Annex I of Grant Agreement the document will be reviewed on

								month 15 th
D5.15	Marketing Campaign (Social Network Marketing)	Marketing Plan	05	Month 10	YES / Draft	PR1	30.06.14	First issue of marketing plan, we intend to update it every 6 months

¹ This information must be identical with your List of Deliverables in Annex I of your Grant Agreement.

² Please indicate the report with which you have submitted the deliverable (PR1, IR, PR2,...).

Please upload all due deliverables with public dissemination level (PU) at your project website for public download. Note: Deliverables uploaded at an internal website area are not considered as being uploaded for public download. Please ensure that the reference to EACI funding, the Eco-Innovation logo and the legal disclaimer are indicated in your published deliverables.

1.2 Identified deviations, problems and corrective actions taken in the period – *If any, identify the nature and the reason for the deviation or encountered problems (technical, financial or organisational), identify partners involved, clarify impacts on the activities and deliverables, present the strategy to overcome them; in case of deviations described in the last report describe how you have managed to get back on track.*

At the moment no specific and heavy deviations occurred. In WP2 tasks, Marketing analysis took a longer period to be ended but without hours overtime. That was an organisational problem due to the amount of data available and the difficulty (at this stage) to match / benchmark the tropical wood characteristics compared with the Thermovacuumwood (TVW) ones. The benchmark of wood characteristics was necessary for identifying which tropical woods could have been substituted and for which use (applications) with the TVW ones. Without this analysis, market segments and potential applications couldn't be investigated appropriately. For this reason we have waited for preliminary CNR general characterisation of different wood species treated with Thermovacuum process. The delay in market analysis delivery has slightly impacted on business plan preparation (WP6) and in marketing action and communication plan (WP5). In our opinion despite of the first stage of market analysis is finished, an important contribute to the market analysis fine tuning, will results from questionnaires responses, end users feedback, workshops feedback, specially after product certification ended.

Another slight delay (almost 2 months) was occurred for technical problems in machine installation, due to the adverse weather conditions that didn't allowed the concrete base drying on time (ECW production site is on the mountain on open air; the snow and the cold temperature didn't allowed the casting of concrete and its drying). Re-engineering and design activities were coherently made, and building up of device was on time; information about how to prepare concrete base for machine positioning were issued on time, but unexpected bad weather conditions had delayed the delivery and commissioning to avoid any future risk during the production. This has influenced consequently the production of different wood TVW essences, and related data collection. On the other hand, the delay has had some positive effects, because in the meantime, the market analysis and the tropical / TVW benchmarking has evidenced the opportunity to change the essences previously identified for testing, avoiding the use of no more helpful essences. The new set of essences to be tested for

matching the most appealing tropical woods, require a revision of test plan and a new purchasing plan to avoid any loss of time and money waste. The new plan will be ready for the beginning of September, so that will be possible to recover time lost in performing tasks 3 and 4 of WP2.

With reference to WP7, task 6, a revision of the Communication Plan including social network marketing plan and related budget is ongoing for next meeting approving. This is due to prepare a communication plan accordingly to the WP5 requirements for Market replication strategy and business plan. Moreover considering the over consuming of hours respect the budgeted one's (for the first 10 months) for website start up and social network marketing organisation, a more careful plan have to be prepared to improve efficiency specially during the next 12 months of implementation of market penetration strategy.

1.3 Progress regarding performance indicators – *Assess performance indicators listed in Annex I of the Grant Agreement against impacts of the action achieved so far. Please update the excel table of the Annex II attached to the Grant Agreement.*

Production / process data were gathered since the machine start up, thanks the initial commissioning tests. Some other tests / production lots were made to initially compare laboratory results with the industrial process conditions, but at this stage of project, due the above mentioned delay in machine start up, there is not a systematic data collection allowing us to update the environmental natural resources performance indicator. In fact the methodical and systematic data collection process (for LCA and process / product certification will restart in September)

Some important results were achieved anyway from the environmental point of view: with reference to the CNR report related to the VOC analysis (Volatile Organic Compound that is the parameter through which the “odour” is measured) the results are enthusiastic in absolute terms and compared with the most performing competitors, in fact, textually *“These results indicate a higher VOCs emission from Thermowood respect to Thermovacuum process. In addition, wood treated with the Thermovacuum technology seems to have a VOC emission close to not treated samples, and therefore much lower than that emitted by Thermowood samples”*. That certifies that the TVW has no emission in the air as well non treated wood has.

The production reports at the moment available, are confirming the benefits for better use of natural resources (water consumption; energy consumption) compared with the baseline, but we prefer to collect more data (extend the base of experiences) before update the performance indicators listed in Annex I of the Grant Agreement.

With reference to the Economic and Market replication indicators, instead, we can assess with much satisfaction that thanks to the initial dissemination activities, fair and workshop, several potential customers are interested in buying the Thermovacuum machine, and that at the moment there are already running 02 plant (02 in EU in France and one in Norway) and 01 will be delivered by the end of December 2014 in USA for testing American essences. For that reason the performance indicator of European Countries using the new technology can be updated at level 02.

Respect the performance indicator “Patent” we successfully achieved the objective having extended it internationally in EU/Usa/Canada/Brasil/China/ India and Eurasia.

The updated excel table of Annex II is attached at the end of this PR1.

2 Progress regarding market uptake and exploitation – *remember that Eco-Innovation aims to multiply the impacts of the projects' solutions and mobilise a wide market uptake, reaching a critical mass during the project and in the short to medium term. Describe here your progress to achieve these objectives.*

As above mentioned, the intense participation at fairs and the organisation of seminars and one workshop, has stimulated the market attention, for instance IKEA has requested test for process qualification (first stage of test performed at the end of May), and one of the most important luxury boat manufacturers worldwide has expressed interest in TVW for furniture and claddings. At the moment the impact is virtually positive since some potential customers appear interested in buying Thermovacuum technology. Results are under their real potentials, many important prospective customers are waiting for product characterisation and certification for specific purposes / applications (for instance durability) before to make a purchase. For that reason process homologation and product certification, are considered critical factors for success to be coped during next months. Anyway at the moment results are over project estimated objectives, since were sold 03 plant (02 in EU and 01 in USA), the first in France at ECW, the second in Norway will start up at the end of July and the third for the USA will be running for the end of December 2014.

3 Work plan for the next period (max 1 page)

3.1 Planned activities in the next period – *Give an outlook on planned activities for the period until the next report (on-going work packages, tasks per partner, due deliverables), consider any strategy developed in section 1.3)*

For convenience the following explanation is split in WPs:

WP1 – There are no different activities respect that ones foreseen into the project time frame. Internal audit will be performed every three months as planned, and will be concentrated on partner more involved in scheduled tasks.

WP2 – From September production for different wood essences will re-start. Some essences will be changed compared to the that initially indicated in the Annex I. Time frame is intended to be respected and tasks 2.3 and 2.4 should be finished by the end of 2014.

WP3 – During test phase foreseen in tasks 2.3 and 2.4 will be collected data for Mass / Energy balance and cost benefits analysis, as per Tasks 3.1 and 3.2. Data collected will be enough to calculate performance indicators too.

WP4 – This WP will be the most challenging and engaging for ECW, CNR and SLU. For ECW, where the Thermovacuum machine works, the work plan foresees strong investments (one more staff and wood purchasing) that in addition with the leasing payment, will represent an extraordinary risky financial effort. Our intention is to shorten as possible that period and catch the goals required by the project to avoid time and money loss and reduce the risk. Our intention is to set up the work plan related to tasks 4.1, 4.2 and 4.5 to achieve the objectives by the end of month 16 about. To reduce cash flow, a special attention will be paid during the wood purchasing process (quantities needed; purchasing costs; date of payment). A very accurate planning and scheduling is forecast at the beginning of September for Task 4.1

Laboratory Test for process optimisation and Task 4.2 for product characterisation in charge to CNR and SLU. In the meantime data collection and elaboration will be possible for WDE, by mean of plc installed into the machine.

WP5 – To shorten the above mentioned time frame, an amount of the TVW for end users, at the beginning will be produced by using the good lots obtained while producing the TVW for laboratory tests.

Marketing action and communication plan is ongoing and under review, its approval is foreseen for next meeting in September 2014.

WP6 – Business Plan is ongoing in parallel with Market Analysis and Marketing action / Communication plan; its first (complete) release is foreseen for October 2014 at the latest.

WP7 – Consortium has agreed to anticipate the Call for Brand Award for reasons related to the protection of trademarks and patents and to implement the marketing and Communication Plan in advance compared with the initial scheduling. Social networking strategy implementation is ongoing and by September will be opened a dedicated Youtube Channel and a LinkedIn profile for project and technology presentation. For the product TVW will be open a Pinterest profile, for Facebook technology contents will be dismissed and instead a new profile dedicated to the product will be opened; a new profile for product TVW will be opened on LinkedIn in order to get in touch with target groups of potential final users. A page of Thermovacuum description and TVW product will be open on Wikipedia.

3.2 Planned meetings, activities related to market uptake and dissemination activities – *Give an overview on your planned project meetings (date, location, main topic, etc.), planned activities to foster the market uptake, and dissemination activities (date, location and main topics of fairs, conferences, etc.), at least for the period until the next report.*

Project meetings are foreseen quarterly, as well internal audits, to keep under control project implementation. First project meeting is forecasted in September at CNR, its main topics will be:

- Project Work Plan review:

- Test Plan & Scheduling review / approval
- Wood purchasing plan
- Data collection procedures approval for LCA
- Marketing Plan first release and review of related Communication and Dissemination Plan, which include:
 - Demonstration Plan (TVW supplied for end user test / application) for target groups
 - General brochure
 - Sustainability brochure and Environmental Information

- Wood warranty draft
- Text approval for Call Brand Award release including Brand Guideline draft
- Work plan approval for process and product homologation / certification
 - TVW Distributor Guideline for homologation draft

Second project meeting is forecasted in December at WDE, its main topics will be:

- Project Work Plan follow up:
 - Test results analysis discussion
 - Process standardisation and product characterisation results
 - Non toxic statement
 - Material safety data sheet
 - Technical data sheet
 - Product (TVW) certification
 - Performances indicator approval for public release / dissemination
 - Follow up from demonstration activities
 - Marketing Plan implementation follow up
 - Communication and dissemination plan follow up

To foster the market uptake we are intended to shorten the time frame for demonstration activities, using part of the lots produced for laboratory testing. That is due to reduce the wood wasted and to make available small lots of TVW of a specific essence for end user application. At this first stage and as per project, special and time limited commercial bids will be made available for test application, for limited and selected target groups. Thank to this approach we intend to reach a both technical and commercial feedback from selected but representative end users sample, with the aim to fine tuning further production of lots and review communication strategies, for a subsequent wider scale demonstration plan.

First demo applications will be addressed to the following segments:

- building sector (windows, doors, external cladding) for German, French and Swiss markets
- furnishings sector for Italian market
- parquet for Swiss, Netherland and Swedish markets

Dissemination Plan will be approved during the first project meeting, and will be coherent with the demonstration plan results, so that positive results and dedicated communication strategies could be used during fairs and seminars.

4 Other issues (max 1 page) - *If any, indicate other issues*

5 Overview on hours spent (template downloadable from our website http://ec.europa.eu/environment/eco-innovation/managing-projects/contract-finance/index_en.htm)

Please see next page.

Please note that details on partners hours - although recommendable - are optional.
You may report only the total hours per Work Package

Project Hours (Partner / Workpackage)

Project Number and Acronym	ECO712/33079 - TV4NEWOOD
Reporting period (M1 to MX)	M1 to M10
Deliverable (FR, IR, etc)	PR1

Total Project Hours:	27.818,0
Total Spent Project hours:	8.976,0

Hours x Partners	WP1		WP2		WP3		WP4		WP5		WP6		WP7		WP8		WP9		Total hours x Partner			
	Annex I*	Spent**	Annex I*	Spent**	Annex I*	Spent**	Annex I*	Spent**	Annex I*	Spent**	Annex I*	Spent**	Annex I*	Spent**	Annex I*	Spent**	Annex I*	Spent**	Annex I*	Spent**		
Partner 1 (WDE)	1.192,0	414,0	2.542,0	2.584,0	72,0	24,0	184,0	40,0	984,0	24,0	324,0	48,0	824,0	391,0							6.122,0	3.625,0
Partner 2 (CNR)	176,0	57,0	1.008,0	861,5	1.164,0	224,4	3.504,0	329,6	424,0	30,0	288,0	0,0	296,0	250,0							6.840,0	1.752,5
Partner 3 (CSLS)	76,0	64,0	1.640,0	1.644,0	80,0	0,0	988,0	60,0	1.672,0	0,0	8,0	2,0	244,0	232,5							4.888,0	2.002,5
Partner 4 (SLU)	160,0	24,0	624,0	296,0	84,0	0,0	1.852,0	141,0	72,0	0,0	100,0	0,0	8,0	0,0							2.900,0	461,0
Partner 5 (ECW)	72,0	50,0	1.784,0	1.036,0	40,0	4,0	156,0	10,0	1.704,0	40,0	40,0	8,0	40,0	20,0							3.836,0	1.170,0
Partner 6 (ARM)	48,0	32,0	24,0	24,0		0,0		0,0	3.352,0	0,0	8,0	0,0		8,0							3.432,0	64,0
Partner 7 (optional)																					0,0	0,0
Partner 8 (optional)																					0,0	0,0
Partner 9 (optional)																					0,0	0,0
Partner 10 (optional)																					0,0	0,0
Partner 11 (optional)																					0,0	0,0
Partner 12 (optional)																					0,0	0,0
Total hours x WP	1.724,0	641,0	7.622,0	6.447,5	1.440,0	262,4	6.664,0	680,6	8.208,0	94,0	748,0	58,0	1.412,0	901,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

% Project Hours already spent x WP (as compared to Annex I)

	WP1	WP2	WP3	WP4	WP5	WP6	WP7	WP8	WP9
Partner 1 (WDE)	34,7%	101,7%	33,3%	21,7%	2,4%	14,0%	47,5%		
Partner 2 (CNR)	32,4%	85,5%	19,3%	9,4%	7,1%	0,0%	84,5%		
Partner 3 (CSLS)	84,2%	100,2%	0,0%	6,2%	0,0%	25,0%	95,3%		
Partner 4 (SLU)	15,0%	47,4%	0,0%	7,8%	0,0%	0,0%	0,0%		
Partner 5 (ECW)	69,4%	59,2%	10,0%	6,4%	2,3%	20,0%	50,0%		
Partner 6 (ARM)	66,7%	100,0%			0,0%	0,0%			
Partner 7 (optional)									
Partner 8 (optional)									
Partner 9 (optional)									
Partner 10 (optional)									
Partner 11 (optional)									
Partner 12 (optional)									
Total % x WP	37,2%	84,6%	17,5%	8,7%	1,1%	7,8%	63,8%		

* As originally proposed
** From M1 to the time of reporting.

to reflects the

Updated excel table of Annex II

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Executive Agency for Competitiveness and Innovation					
CIP Eco-innovation first application and Market Replication Projects Call 2012					
Call Identifier: CIP-EIP-Eco-Innovation 2012					
INDICATORS			TV4NEWOOD		
At the end of the project					
Objective	Indicators	Absolute Impact	Relative Impact	Comment	
Improved Environmental Performance	Greenhouse gas emissions	CO ₂	470	-1 % change to baseline	RESPECT THE AMOUNT OF TROPICAL TIMBER IMPORTED IN UE
		Methane	tons / year	in % change to baseline	
	Air quality	Particulate matters	in ppm		
			1.950.000	- 90% to BAT	m3 of steam used for chilling wood
	Reduction / substitution of dangerous substances	Irritant / Corrosive			
		Mutagenic / Carcinogenic			
		Toxic			
		Persistent / Bioaccumulative			
	Waste management	Prevention	tons / year	in % change to baseline	
		Waste minimization	tons / year	in % change to baseline	
		Reuse of waste / Substance recovery	tons / year	in % change to baseline	
		Material recycling	tons / year	in % change to baseline	
		Waste diverted from landfills	tons / year	in % change to baseline	
Hazardous waste		tons / year	in % change to baseline		
Better use of natural resources	Reduced resource consumption (excluding energy)		14.000	in % change to baseline	SUBSTITUTION OF TROPICAL TIMBER WITH LOCAL TRATED WOOD
	Water	Reduced water consumption	980.000	- 99 % change to baseline	
	Energy	Energy from RES	kwh / year	in % change to baseline	
		Reduced energy consumption	620000 KWh	- 60 % change to baseline	
Economic Performance / Market Replication	Business development / Market replication	Thermovacuum plant running for wood treatment	IN FRANCE + TWO ONGOING COMMISSIONIN	not applicable	10 forecasted at the end of project
	Market potential	market size in million Euros	2,800,000-4,000,000	not applicable	2,800,000 for machines / 4,000,000 for Thermovacuum treated wood
		market size in number of customers	3 PLANTS (ONE INSTALLED)	not applicable	8 IS RELATED TO THE POTENTIAL CUSTOMERS FOR THEROVACUUM PLANT INSTALLATION / 25 MILLION PEOPLE IS RELATED TO EUROPEAN END USERS OF FINISHED PRODUCT
	Entry in new transnational markets	European Countries using NEW Technology	FRANCE / NORWAY / USA	not applicable	BETWEEN France, Spain, Italy, Portugal, Greece, UK, Netherland, Germany Poland
	Entry into different sectors	Areas of application	5 new sectors	not applicable	Indoor parquets / Naval furnishing and cladding / cladding / house restructuring / external joinery
	Reduction of cost per unit or process		in Euros / M3	FROM 40 UP TO 350 % change to baseline	Compared to the BAT
	Payback Time	capital invested / net income	2,3 / 3	not applicable	FOR TVW PRODUCERS (THIRD PARTY TREATMENT) / for WDE PARTNER
Patents	INTERNATIONAL	EUROPE / USA / CANADA / BRASIL / CHINA / INDIA / EURASIA	not applicable	EXTENSION OF PENDING PATENT in UE/CHINA/USA/CANADA/BRASIL	
Others	Prodcut certification	INTERNATIONAL	7		BASED ON CEN/TS 15679:2007
	Process certification	EUROPEAN	1	1	
	REGISTRED MARK	EUROPEAN	1	1	