Deliverable D1.3
Progress Report 6
Month 39 - 44

RESCOOP MECISE
Mobilizing European Citizens to Invest in Sustainable Energy

Full title of the project	REScoop – Mobilizing European Citizens to Invest in Sustainable Energy
Acronym of the project	REScoop MECISE
Contract number	H2020-EE-2014-4-PDA- 649767
Conception and contents	REScoop MECISE consortium
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Project Partners	Ecopower – REScoop.eu – Somenergia – Enercoop – Courant d'Air – Energy4All
More information	www.REScoop.eu

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6-monthly
Performance Monitoring Update

valid for MLEI & PDA projects

Project acronym and contract number:	REScoop MECISE - 649767
Report date:	**03/08/2018 – (Period May 2018 – October 2018)**

Project co-ordinator:	Ecopower
Project start date:	01/03/2015
Project end date:	28/02/2019

1 Key achievements and progress in the past 6 months

#	WP	Key achievements and progress
1	WP1	- **Task 1.2** – As usual meetings of the EC (executive committee) between Ecopower and REScoop.eu took place every now and then, typically on a 3-weekly basis, ad hoc when needed. - **Task 1.3** –The 8th consortium meeting took place in Milan on 23 June 2018. The location and date allowed efficient combination with the annual GA of REScoop.eu federation, bringing together European REScoops anyway. - On 11 October 2018 the mutual was formally founded in Brussels, requesting the presence of official representative(s) of every founding party. At this occasion a half day meeting was organized in view of planning the next steps of the mutual. - **Task 1.4** – Communication was mostly bi-lateral between Ecopower as co-ordinator and the other partners. Main topics : follow-up of progress on project development, agenda and practicalities consortium meeting Milan, issue related to the REScoop Mutual – founding originally planned at Milan meeting, later postponed due to administrative requirements. - **Task 1.5** – Answering several requests for additional information regarding the 2nd Periodic Report has taken considerable time in this 6 months period. Clarification was mainly needed on administrative and financial issues, such as mistakes made in cost statements, use of exchange rates, evidence on subcontracting costs, etc. Eventually, all additional details were provided. Assessment of PR2 and related payment was received in October 2018. - **Task 1.6** – On June 5th 2018 Ecopower (Fiene and Karel) had a meeting with Kamila Paquel, new PA for the MECISE project, taking over from Bjorn Zapfel
2	WP2	- **Task 2.1** – With the end of the project in sight, the consortium tried to focus on ongoing developments, rather than putting effort in potential new developments. Easily said, but not easily done ! For every ongoing development the outcome is unsure, while new opportunities might not be missed out. This is the never ending challenge for REScoops developing sustainable energy projects every day: correct assessment of project potential at an early stage is crucial for progress, an even for survival…. - BELGIUM: - In **Wallonia**, Courant d'Air teamed up with other local REScoops to get involved in a series of **new hydropower projects**. Together the REScoops acquired the rights to develop, build and operate 4 hydropower sites with a total installed capacity of about 3.4 MW. First realizations could start as early as 2019, all sites to be operational by the end of that year. Total investments of about 12,5 Meuro are needed.

#	WP	Key achievements and progress
		- The fact that REScoops so suddenly got involved in these hydropower developments is directly related to the fact that Walloon REScoops, supported by Ecopower, have successfully participated in the SOFICO tender of 2017, regarding wind turbines next to service stations along Walloon highways. It was the same public authority SOFICO that tendered the hydro sites. When the company that won the hydro site tender, got into financial difficulties, SOFICO suggested to involve the REScoops. In this context it has to be mentioned that the interregional conference held by Courant d'Air in January 2018 largely contributed to create, among public authorities, confidence in REScoops as trustworthy actors in the energy sector. - Further development of wind projects in Wallonia. **Amel and Büllingen** : the project permit was refused by the Walloon authority, main reason being bird protection, in particular the red kite. Impacts on the red kite, other birds – environmental impact in general, have been taken into account to the largest possible extend during the development of the project. Having strong evidence that environmental impacts of the project are largely under regulatory limits, Courant d'Air and Ecopower decided to start the foreseen procedure to appeal against the refusal decision. Both municipalities Amel and Büllingen have formally joined this appeal. Decision is now at level of the Walloon minister, deadline 6 December 2018. - In setting up the appeal against the refusal of the permit, both **municipalities Amel and Büllingen** have showed real initiative in support of the project. It needs to be reminded that the municipalities are set to become 50% owner of the project. For these rural municipalities the participation in this wind project would mean a real start of **the energy transition in their municipality**, reducing CO2-emissions to near to zero by 2030. The returns of the wind participation, in combination with the involvement of their citizens – through REScoop Courant d'Air - would allow developing local district heating systems fuelled by wood chips – forests being abundant in both municipalities. Heating of buildings, now largely depending on heating oil, could then be shifted to a large extend to "green heat" from local wood. - The development on the previous reported wind projects is ongoing. There are no particular events to report. - The PV rooftop projects previously reported have all been realized and put in operation in the course of the past 6 months period. - The realization of an additional wind turbine by Ecopower in **Eeklo** is progressing as foreseen. Earth works to prepare the terrain and access road to the site are finished. Foundation works have started - ready in December 2018. Erection of the turbine in March-April 2019 is confirmed. - In an early stage of the project development, Ecopower had discussed the **REScoop-Municipality-Approach** with the Eeklo city council, offering the city to co-invest in the future turbine in case it could be realized. This offer was also made to the **starting local REScoop Volterra**. These commitments were concretised and formalised lately. Both Volterra as the city got the possibility to participate up to 25% in

#	WP	Key achievements and progress
		the equity needed to realize the new wind turbine. The city council of Eeklo will change profoundly, due to the October 2018 elections in Belgium. For this reason, the decision of Eeklo whether to participate or not, and if so, to what extent, is to be expected only in 2019. However, Volterra has accepted already and administrative and legal aspect for their participation in the project are under preparation. - **Ranst -Rumst** (both sites of AWW-Waterlink – public company for drinking water). As mentioned in the previous 6-monthly, the realization of the site Ranst has been halted just before the start, due to a new appeal against the permit. While legal procedures for repair are ongoing, Ecopower decided to in parallel fully develop the other site – Rumst. The idea is to get to the point that construction on both sites can take place in parallel or consecutively. For the moment, this still looks feasible. In an optimal scenario erection of the wind turbines would start in Ranst in the second half of 2019, followed by realisation of the site in Rumst in the first half of 2020. - Thanks to facilitation by the municipality of **Lanaken,** involving the authorities at provincial level, an agreement was reached with the conflicting development by a private investor (August 2018). As explained in the previous 6-monthly, the optimal development will have 3 wind turbines: One wind turbine will be owned by the private investor, sited on his own property. The two other wind turbines will be jointly owned by REScoops Ecopower and Bronsgroen (starting local REScoop) and the municipality of Lanaken (up to 30% ownership is offered). Work focused on preparing the application file for 3 turbines on the changed siting. Only at the end of the detailed environmental assessments in October 2018, it became obvious that seasonal bird movements are a major concern whether or not the project will be feasible. We hope it will, because this project is another **good example of the REScoop-municipality approach**. Ecopower is particularly eager to realize this project, as already "spin-off" sustainable energy investments in Lanaken popped up. In particular there is a good potential for a district heating project making use of industrial process heat that is now dumped (for years paper mill Sappi is dumping waste heat in the adjacent canal) - **Schoten**: the previous 6-monthy explained that the developments were put on hold - on demand of the municipal council. The elections of October 2018 having past, Ecopower has continued the work for preparing the application of permits. - For a long list of other wind projects by Ecopower in Flanders the development work is continued. Projects mentioned in the inception list or in previous 6-monthly generally still are considered to have best chances for realization in the coming years. For instance it is realistic that the permits for 2 wind turbines in Schelle will be awarded in 2019, in particular because of the municipality being strongly in favour. Regularly new potential wind project are identified. Some of them being "dormant" for many years, and now "getting alive" again, for different reasons (e.g. changed restrictions with regard to radar and

#	WP	Key achievements and progress
		aviation, new possibilities due to technical developments in wind turbine technology, etc.) - **District heating network Eeklo:** technical and economic feasibility studies mentioned in the previous 6-monthly are nearing to completion. Realization of the DH network is planned in 3 phases, the first phase starting second half of 2019, with first heat deliveries 2020. First phase investments are an estimated 10 Meuro, targeting an annual supply of 30 GWh of heat to non-residential buildings and industry. This heat will mostly replace natural gas, the actual main heating energy source. Deadline for the study work is February 2019 when the final result will be presented to the city council of Eeklo. In accordance with the concession agreement between the city and developing consortium Ecopower-Veolia, Eeklo needs to agree with the proposed concept and business plan. The development of the **DH** in Eeklo attracts quite some interest from other cities and municipalities striving to reduce their emissions. In spring 2018 Ecopower was approached by starting REScoop Zuidtrant (Antwerp region) to get involved in a DH project based on dumped industrial process heat. This project looks promising, but it is still in an early stage. Location is in the municipalities of Wilrijk, Edegem and Mortsel, all southern suburbs of the city of **Antwerp**. - Since 2015 Ecopower is operating 4 wind turbines in the municipality of Asse (next to Brussels), and consequently Ecopower is committed to support Asse in its transition plans and actions. This explains why Ecopower got involved in the plans for a **sustainable research park Asse-Zellik**. This research park is located adjacent to the city of Brussels and the Free University of Brussels (VUB) has an important presence on the site. A **district heating network** using waste heat from a data centre is thought to become a key infrastructure towards a sustainable heating for the buildings in the business area. With only low temperature heat available, connecting to a district heating network would imply significant investments in EE measures in buildings. Although still in an early stage, development is expected to concretise quickly, as the university VUB is pushing the project and the province of Vlaams-Brabant is in favour. - UK As explained in previous 6 monthly reports the development efforts in the UK have been concentrated during the first 2 years of the MECISE project. After the support system for renewables in the UK has come to an end, there is hardly any potential for new RE developments left. Consequently no developments can be reported from the past 6 months period. - SPAIN – - In previous 6-monthly was explained that Som Energia regularly gets opportunities to acquire the rights of fully licensed wind and PV

#	WP	Key achievements and progress
		projects, developed years ago, but never realized due to the eradication of feed-inn tariffs. After redevelopment based on actual state-of-the-art technology, Som Energia can realize these projects thanks to their "Generation kWh" financing approach. - In the past 6-months period the ground mounted PV plants of La Matallana (2,3 MW) and Fontivsolar (0,9 MW) have been installed and put in operation. Whereas at the PV plants of Tahal (840 kW)and La Florida (1.5 MW) the installation works are still ongoing, connection to the grid and start of production is realistic before the end of this year. The additional investment in these PV plant totals to about 7 M€. - Som Energia effectively acquired the rights and permits for wind project Era Bella, Tejeria and Penouta in the course of the past 6 months period. The permits of these projects date from over 5 years ago. In the meantime wind turbine technology has changed dramatically making complete redevelopment based on modern wind turbines with larger rotors and higher tower heights necessary. In some cases the existing permits and licenses for the projects can be reconfirmed. In other cases new permits need to be obtained. Consequently, first realisations of these wind projects is only to be expected by 2020. All together 15 wind turbines would be realized in these projects, with a total investment of approximately 45 M€. Pure equity financing through Generation kWh is not considered realistic for this large amount**. It is obvious that financial facilitation through the REScoop mutual could have its first reality check for these projects**. - FRANCE – In the course of 2017 the French electricity market finally became fully liberalized. Any supplier can now conclude PPA with producers, obtaining the feed-inn tariff through ADEME, a governmental organisation, and no longer through former monopolist EDF. In this market situation Enercoop can fully develop its role as "green" supplier in France, offering PPAs to any new development of green power production, while investment vehicle Energie Partagée focusses on securing financial participation of citizens in these developments. This new situation has influenced the further development work of Enercoop throughout the year 2018. - Enercoop has been involved in two small wind projects, of which one has been shelved eventually (St Julien Labrousse). From the other project (Tapies), only one wind turbine has been realized in the meantime. Below an update of the PV developments where Enercoop has been involved in.

#	WP	Key achievements and progress
		*Nantes: 495 kW on a market hall (public building). Technical and economic feasibility being checked, the cooperative MIN'COOP sat up to own and operate the installation, has acquired the company that won the tender for the PV project. Contracting of the works has started in the course of 2018. *Grenoble: the "Solaire d'ici" project targeting PV on 100 roofs. Over 100 kW on 12 roofs is operational, thanks to financing through Energie Partagée. The rest is awaiting a regional subsidy, allowing also a replication. Expected is to realize a total installed capacity of over 1 MW in the course of 2019. *the farmers collective PV project "Lums de Larzac" is operational since summer 2016 (162 kW). *The citizens community project in Aubais (250 kW) is operational since May 2018 *For project "Soleil de Plomb" in Saint Sebastien d'Aigrefeuile: (2 MW) the construction permit is obtained, as well as the feed-inn tariff. For now the project is "on hold". It concerns a historical polluted site. Permit for decontamination works is expected in 2019. *The Forcalquier project is developing slowly, involving local community. It has merged with an collective PV installation project in the village of Lure-Albion. First realizations expected in the course of 2019. *PNR Pré Alpes d'Azur is a small PV project (200 kW) involving the local community living in the area of this "Parc Naturel Régional". In 2017 a new cooperative was created and a first 25 kW installation was realized. Another 3 of this kind of installations are in the planning. *Multi MW ground mounted PV projects in Donnezac (4,5 MW), Bissey-sous-Cruchaud (5,3 MW) and Brittany (2,5 MW,several locations). These are all projects in hands of private developers. Enercoop as supplier of green electricity attempts to involve citizens as clients by trying to settle long term PPA's for the renewable power that will be produced. Such PPA play a role in the bankability of the investments. In parallel, Energie Partagée – the French citizens investment vehicle for renewables in which Enercoop participates – participates financially in the SPVs that are set up to build, own and operate the projects. Both Enercoop as Energie Partagée are involved in developing the projects to the stage that investment decisions can be taken. However, the control is mainly in hands of the private developers. Outcome and timing of these 3 projects are unsure - - **Task 2.2 & 2.3** – EE investments - In **Asse**, the planned EE measures for the "werkliedenloods" – including replacing the oil heating system by a wood chip boiler – did not get the the approval of the municipality council and the project was shelved eventually. - In the course of the past 6 months period, the energy auditing of 12 **schools in Leuven** was performed as far as possible. Additional auditing is done during winter months. Taking into account the strategic partnership with the city of Leuven, Ecopower is preparing a proposal

#	WP	Key achievements and progress
		to these schools to invest as ESCO, combining both EE and RES measures in a long term energy service contract.
3	WP3	As mentioned in the previous 6-monthly, by contracting 5 energy auditors, Ecopower could offer the Ecotraject in the whole of Flanders. During the period April-October 2018 there were over 50 additional quick scans registered, resulting in 5 additional families signing up for an Ecotraject service. Although the period is too short to draw conclusions, we noticed that there is very limited interest for the whole service. Many people have already taken all reasonable measures for insulation of the shell of their house, but not so much the measures regarding the technical appliances, in particular for heating and hot water. As it looks now it would make sense to offer a "slim" version of the Ecotraject, focusing on these technical measures only.
4	WP4	- **Task 4.2 & 4.3** : in this 6 months period Enercoop and REScoop.eu concentrated their efforts on the legal, administrative and operational issues in relation to the future REScoop financing vehicle: Amongst others a notary was selected to prepare all legal and administrative matters necessary for official founding of an SCE in Belgium. - The consortium meeting in June 2018 focused on the operational issues for the future mutual: how it would work in practice, which operational structures would be used, etc. A new date for the founding of the mutual was set (11th October 2018). - Enercoop focussed on the elaboration of the business plan for the mutual. Resulting from a competitive tender, Energie Partagée was selected In September 2018 to prepare the formal business plan needed for the founding of the SCE, to elaborate 2 concrete French projects as test cases leading to procedures and templates for the first investment committee. - Every consortium partner continued the assessment of its actual and upcoming investment projects for their potential as first investments for launching the REScoop Mutual.
5	WP5	- **Task 5.1** – There were no changes regarding the monitoring of the project. The consortium was urged to feed the "progress monitor" on Google Drive.

#	WP	Key achievements and progress
6	WP6	- **<u>Tasks 6.2; 6.2; 6.3</u>** – REScoop.eu has kept the project website up to t date adding new content on projects developed. The website is now quite "static", with a structure based on the work programme in the GA. Specific developments now being available would deserve a much more pronounced visibility on the website. Furthermore, the website should be restructured in view of its continuation as website of the SCE..

2 Milestones

#	Description	Month planned	Month delivered	Explanation in case of delay
MS1	Feasibility study on REScoop financing approach	9	12	**Delivered**: a "European REScoop Fund" similar to Energie Partagée is NOT FEASIBLE/APPROPRIATE Subcontracting of an external consultant to explore other financing approaches
MS2	List with planned RES investments (30 million euro)	12	12	**Delivered**: The total planned investment volume for MECISE was reduced to approximately 170 Meuro. In the past 6 months period for almost 10 Meuro additional investments were realized. It all depends if and when permits for the ongoing wind projects can be obtained whether this target can be reached.
MS3	12 public buildings have been identified for EE measures	12	48	The strategic partnership with Leuven and IRO-contract might allow launching EE measures in many more than 12 public buildings by month 48. The project DH Eeklo inherently includes EE measures in buildings to be connected to the DH system
MS4	1.000 citizens signed up for facilitation programme	12	Not applicable any more	Ecotraject readily developed as a cost covering service, replicable by all REScoops in every member state. Offering Ecotraject to all its members all over Flanders should steadily result in increase in participation from autumn 2018 onwards. Ecopower's "pellet stove action" for "green heat" replacing heat from fossil fuels is to be considered as EE measure. The pellet stove guidance stays available and can be expected to attract citizens to invest year after year

#	Description	Month planned	Month delivered	Explanation in case of delay
MS5	List with planned RES investments (60 million euro)	24	12	**Delivered** - See inception report (D1.1)
MS6	EE measures package for 6 public buildings fully developed	24	48	See explanation MS3
MS7	EE measures package for 500 citizens fully developed	24	48	See explanation MS4

3 Progress update concerning performance indicators

3.1 Investments

#	Category of investments	Initial amount in €	Amount already signed	Amount still expected to be signed	Explanations in case of major variations
1	RES Power generation	137.780.000	56.225.000	44.500.000	1/ Appeal against wind project Waterlink - at least 1 year delay, 2/ license wind Amel-Büllingen rejected
2	RES Heat generation	785.000	34.500		Wood chip heating project Asse is shelved
3	EE in buildings – public - private	31.985.000	130.000	10.000.000	1/ No EE investments in public building as foreseen, 2/ district heat Eeklo realistic investment decision only for phase 1 within the timeframe of the project
4	Retail energy market infrastructure	0	0	0	
	Total amounts	**170.550.000**	**56.389.500**	**54.500.000**	

3.2 Energy impacts

#	Type of impact	Initial	Status at progress update 7 (month 44)	Explanations in case of major variations
1	Avoided GHG emissions (tCO2e/year)	101.118	24 202 (*)	
2	Primary energy savings (MWh/year)	16.000	315	
3	Renewable energy produced (MWh/year)	180.000	82 542	

(*) Country specific CO2-emissions per electrical MWh are used: Belgium: 760 kg/MWh ; UK 409 kg/MWh; Spain 302 kg/MWh. Saving 1 MWh natural gas consumption = 18 kg avoided CO2. For heating oil this figure is 24 kg avoided CO2.

3.3 Employment creation

At Ecopower an additional staff member of the project development team started on 4 November 2018.

4 Evolutions in the schedule of activities

The schedule of the activities have not changed compared to Annex I of the grant agreement

5 ANNEX: investment summary Update – 31/10/2018

Reporting on investments

REScoop MECISE H2020-EE-2014-4-PDA- 649767

CO2 emissions
natural gas 18 kg/MWh
oli heating oil 27 kg/MWh

CO2 emissions per electrical kWh country specific:
Belgium 199 kg/MWh
UK 409 kg/MWh
Spain 302 kg/MWh

#	Municipality/ Project name	Country / Address	Description	Investment in €	Available evidence	Delive-rable ID	CO2 savings		Energy savings		RES production	
							tCO2/year	in %	MWh/year	in %	MW	MWh/year
					(signed contract, invoice…)	*Dx.x*						
1	Eeklo (B)	Industrielaan 1	Boiler house renovation	€ 45 000	invoices	D2.2	2,2		120	15%		
2	Cumbria	Harlock Hill	2x 2,3 MW wind farm High Winds	€ 6 820 000	invoices	D2.1	5112,5				4,6	12500
3	Edinburgh	Scotland	1,5 MW roof mounted PV on 25 public buildings	€ 1 880 000	invoices	D2.1	449,9				1,5	1100
4	several		Schools co-op PV roof mounted 500 kW	€ 820 000	invoices	D2.1	143,2				0,5	350
5	Alcolea del Rio (SP)	Spain - Sevilla Region	PV large scale ground mounted grid connected	€ 2 041 025	invoices	D2.1	1021,7				2,16	3383
6	several	Different warehouse buildings	Marks & Spencer,PV roof mounted, approx 1 MW	€ 1 450 000	invoices	D2.1	347,7				1	850
7	Reading	Reading university	PV roof mounted on 20 buildings	€ 530 000	invoices	D2.1	72,0				0,2	176
8	Kinross		SHP Rumbling Bridge	€ 4 320 000	invoices	D2.1	858,9				0,5	2100
9	Lums de Larzac		PV roof mounted several buildings	€ 480 000	invoices	D2.1					0,24	280
10	several	East Belgium	Collective LED purchase	€ 40 000	orders	D3.1	95,0		125	85%		
11	Asse	Belgium	Biomass boiler	€ 10 000	invoice for energy study	D2.2	2,4				0,05	100
12	Houyet/Falmagne	Belgium	2,3 MW wind turbine	€ 3 500 000	invoices	D2.1	945,25				2,3	4750
13	Walhain	Belgium	2,3 MW wind turbine	€ 3 039 300	orders/invoices	D2.1	1004,95				2,3	5050
14	Waimes	Belgium	EE measures in schools	€ 45 000	invoices	D2.2	11,741		59			
15	Pujalt	Spain	2,35 MW wind turbine	€ 2 800 000	invoices	D2.1	1691,2				2,35	5600
16	Yorkshire Main - Rical	UK - West Yorks	Four Winds co-op 2x 500 kW wind turbines	€ 3 760 000	invoices	D2.1	1056				1	2600
17	Assel Valley	UK - Scotland	1 MW stake in Assel Valley wind farm	€ 1 250 000	invoices	D2,1	1145				1	2800
18	Auchrobert	UK - Scotland	1 MW stake in Auchrobert wind farm	€ 1 250 000	invoices	D2,1	1222				1	2988
19	Killington lake	UK - Cumbria	SHP K-Set hydro scheme, Western Energy co-op	€ 540 000	invoices	D2,1	81,8				0,05	200
20	Ranst	AWW -Waterlink	3x 3 MW class windturbine at drinking water production site	€11 000 000	orders/invoices	D2,1	3383				7,2	17000
21	Pellet stoves	Flanders	7 Pellets stoves - RES replacing fossil fuel heating	€ 24 500	orders/invoices	D3.1	0,2		10,5			
22	several	Wallonia	Roof mounted PV through 3rd party financing	€ 670 000	orders/invoices	D2.1					0,625	615
23	Eeklo (B)	Flanders	2 MW wind turbine	€ 2 500 000	orders/invoices	D2.1	995				2	5000
24	La Matallana	Spain	PV large scale ground mounted grid connected	€ 1 800 000	invoices	D2.1	1057				2,3	3500
25	Fontivsolar	Spain	PV large scale ground mounted grid connected	€ 850 000	invoices	D2.1	513,4				0,99	1700
26	La Florida	Spain	PV large scale ground mounted grid connected	€ 1 400 000	orders/invoices	D2.1	785,2				1,5	2600
27	Tahal	Spain	PV large scale ground mounted grid connected	€ 725 000	invoices	D2.1	453				0,84	1500
28	Viure de l'Aire del Cel	Spain	2,3 MW wind turbine	€ 2 800 000	invoices	D2.1	1751,6				2,3	5800
39												
			Total	**€56 389 825**			**24 202**		**315**		**51**	**82 542**
			RES power	€56 225 325								
			RES heat	€ 34 500								
			EE	€ 130 000								

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1 Key achievements and progress in the past 6 months

#	WP	Key achievements and progress
1	WP1	- **Task 1.2** – Meetings of the EC (executive committee) between Ecopower and REScoop.eu took place regularly on ad hoc basis. - **Task 1.3** – The meeting in Bonn, that took place on Friday 10 November, was an opportunity to bring all consortium members together for an extra review of the draft statutes of the REScoop Mutual. - The 7th consortium meeting took place in the office of coordinator Ecopower in Berchem, close to Antwerp (Belgium) on 26 & 27 February 2018. Deciding on the activities for the last 12 months of the project and agreement on the last steps toward launching the REScoop Mutual were the obvious focus of this consortium meeting. Ecopower was glad to be able to include a study tour to its wood pellets facility, a quite particular investment able to supply cooperative members of Ecopower with "green heat" for their homes by using wood pellets made out of locally sourced wood from sustainable forestry. - **Task 1.4** – In view of the preparation of the 2nd there were many bi-lateral contacts between Ecopower as co-ordinator and the other partners. In addition WP4 and the work related to the REScoop Mutual involved almost weekly contacts by mail, phone and skype between Enercoop, Rescoop.eu and Ecopower. - **Task 1.5** – The 2nd Period Report was prepared during this 6 months period - **Task 1.6** – Ecopower and REScoop.eu participated in the CoM investment Forum on 21 February 2018. As in 2017, Ecopower gave a presentation on the REScoop MECISE PDA project. Ecopower (Fiene and Karel) participated in the contractors meeting on 22 February 2018.
2	WP2	- **Task 2.1** – Further focus on project development of RES and EE investments as mentioned on the inception list, in particular those involving local authorities. BELGIUM: Further development of wind projects. **Amel and Büllingen** : the project permit application was filed early January 2018. There is a 6 months decision period for the Walloon authority. - No news regarding the license for the wind development of **Trois Ponts.** Development of previously reported wind projects of **Burg Reuland, St Vith-Malmedy, Gouvy** and **Bütchenbach** is ongoing - From the **SOFICO** tender two sites were granted to Courant d'Air and the consortium with 6 other Walloon REScoops and Ecopower. This was the first time that Belgian REScoops have formally joined forces in an offer to a tender of a local authority ! With only two sites selected, the success is limited. But it can be considered as a mile-stone that a joint offer from cooperatives alone – not linked with one of the well establish commercial developers ! Development work in order to prepare the demand for licence was initiated for both sites.

#	WP	Key achievements and progress
		- The installation on the roofs of municipal buildings in the municipality of **Welkenraedt** has been realized and put in operation. Courant d'Air continued the focus on PV rooftop projects in the range of 100 kWp. However, investment launched during this 6 months period all concern roofs of private companies No other municipalities have been followed the example of Welkenraedt. - In **Eeklo** the additional wind turbine type was chosen, the supply contract is prepared, grid connection has been ordered. Civil works and foundation are scheduled for realization before the end of 2018. Erection of the wind turbines is for spring 2019. - **Ranst** (one of the sites of AWW-Waterlink – public company for drinking water) The 10 MVA grid connection for 3 wind turbines of the 3 MW class is realized (drilled under canal). Wind turbine brand and type has been selected and the supply and maintenance contract with the supplier have been fully prepared for signature. Unfortunately signing could not take place. A new appeal has blocked one of our permits making it impossible to start the construction phase. Legal action is taken. Implication is a delay of at least one year. - In **Lanaken** it appeared that a development of 2 wind turbines was ongoing on the adjacent industrial site of the company Sappi, a large paper mill In an early stage, Ecopower had taken this site in consideration and contacted Sappi with regard to the development of wind on their site. Sappi however granted the rights to a neighbouring transport company, without informing the municipality of Lanaken. Soon it became obvious that both developments were conflicting and that optimal use of the wind resource in the given zone would allow a maximum of 3 wind turbine. Negotiations between both developers have started, involving the municipality of Lanaken, as well as the provincial authority having a decisive role in the permitting of wind turbines. The fact that development of Ecopower involves as stakeholders both the citizens as the municipality of Lanaken, has been put forward in the negotiations on the division of the total investment potential. - **Schoten**: the application of permits for two wind turbines has been postponed on demand of the municipal council. Opposition against the project has been organized by some opponents to a level that it is feared to impact municipal elections in October 2018. - There is no specific progress to report on the wind developments **Mol**, **Bilzen** and **Mechelen.** Work is continued, slowly but steadily. - **Schelle** and **Alken** were firstly mentioned as new development in the previous 6 monthly. In the past 6 months a lot of development effort has been devoted to both projects. For **Schelle** this resulted in a straight forward preparation of a licence application, including the public information events. Introduction of the licence demand in scheduled before summer 2018. - The development work in **Alken** has revealed several complex issues that cannot be resolved in the short term**.** In principal the project still has good potential. Ecopower continues its development efforts.

#	WP	Key achievements and progress
		- **District heating network Eeklo:** detailed technical and economic feasibility studies were performed during the past 6 months period. Based on the preliminary results a first trajectory of the main root of the DH network has been proposed. All major heat consumers – mainly industry and SME's - along this trajectory have been approached in view of future connection to the DH: information sessions to groups of potential heat consumers, individual talks and visits to assess technical aspects, pre-contracting negotiation, etc. The city of Eeklo has been actively involved in approaching potential heat consumers : inviting to general information sessions hosted by the city, provision of energy data available at the city services, etc. A lot of effort has be devoted in view of contracting the future heat supply by IVM, the waste incineration plant. Although IVM is a public company, owned by 19 municipalities, under which the city of Eeklo itself, long term heat contracting appeared not to be evident at all. - UK As explained in previous 6 monthly reports the development efforts in the UK have been concentrated during the first 2 years of the MECISE project. After the support system for renewables in the UK has come to an end, there is hardly any potential for new RE developments left. Consequently no developments can be reported from the past 6 months period. - SPAIN – - The ground mounted PV projects mentioned in the previous 6 monthly report – each of them multi MWpeak - have been further developed. Investments have partly started already. The actual outlook is that all 4 projects will effectively be realized and put in operation, even before the end of MECISE. Som Energia expects that it will be able to develop more PV projects of this type. Many of these projects have been developed in the past by a diversity of developers, up to the stage of full licensed projects. But when the Spanish government stopped the feed inn support for renewables, profitability of these projects was strongly reduced so investments have never been launched. After many years profitability of these projects has again reached a few percent, thanks to ever falling costs for PV panels. Using the financial approach "Generation kWh" the profitability is sufficient for Som Energia, but not for more traditional investors. For this reason Som Energia can regularly acquire the rights of these fully licensed projects. - Regarding wind projects there is a recent trend of developers putting on the market the rights of their fully licenced wind projects, developed many years ago and profitability increasing only slowly with technology improving and capex per installed MW capacity decreasing. Similar to the ground mounted multi MW PV projects, these wind projects now come in reach for investment by Som Energia, again thanks to the "Generation kWh" approach

#	WP	Key achievements and progress
		- FRANCE – Further development of the PV projects part of the "plan soleil" in Nantes and multi-MW ground-mounted PV projects on brown-field sites. Concrete investment are expected to go into realization thanks to investment by Energie Partagée the investment vehicle set up in the past by Enercoop and several ethical investment funds/banks. - **Task 2.2 & 2.3** – EE investments work continued on the potential EE project mentioned in the previous 6 monthly report. - In previous reporting the strategic partnership between Ecopower, in consortium with Pajopower, another Flemish REScoop, and the city of **Leuven** was explained. Similarly, was mentioned that a consortium of Flemish REScoops won the IRO tender for investing in PV installations on the roofs of catholic schools, giving opportunities to identify at the same time possible EE measures. Combining both aspects led to concrete action in Leuven, where 12 larger schools (~500 pupils) have signed up for energy audits and identified measures to be realized under an energy service contract by the REScoops involved. -
3	WP3	In the past 6-monthy period the activities for supporting EE investments with members of the REScoops Ecopower and Courant d'Air were a continuation of the actions started before. (Pellet stove guidance, Ecotraject). - A total of 5 energy auditors were contracted making by the end of April 2018 the Ecotraject service available in the whole Flemish region. Typically interest for energy measures for private households drops steeply in spring and over summer. Ecopower is now prepared for a larger demand for the Ecotraject service in autumn 2018 - As planned Ecopower and Courant d'Air have been looking in depth if and how Ecotraject can be replicated in the Walloon region, common use of energy audit tools, etc. It became clear that simple replication is not appropriate. The service needs to be adapted to local expectation of citizens, that are quite different in both regions.
4	WP4	- **Task 4.2 & 4.3** –During the Bonn meeting on 10 November 2017 review the lasts remarks regarding the content of the draft statutes were reviewed. Eventually all MECISE partners agreed on a common version and made a choice for the external party to be subcontracted to write the full statutes and prepare the final version for publication. - Each partner presented its actual and upcoming investment project in order to assess their potential as first investments for launching the REScoop Mutual.

#	WP	Key achievements and progress
5	WP5	- **<u>Task 5.1</u>** – Monitoring of the project continued using the tools and systems set up for this purpose mainly the “progress monitor” in Excel, to signalise new developments and to report the progress of ongoing projects. Google Drive is used as web-platform and share point for all common files
6	WP6	- **<u>Tasks 6.2; 6.2; 6.3</u>** – The project website is continuously fed with new content. The platform functionalities mentioned under WP5 were mostly operational by April 2018. However, it became clear that there is still a long way to go before the website will reach its intended functionality.

2 Milestones

#	Description	Month planned	Month delivered	Explanation in case of delay
MS1	Feasibility study on REScoop financing approach	9	12	**Delivered**: a "European REScoop Fund" similar to Energie Partagée is NOT FEASIBLE/APPROPRIATE Subcontracting an external consultant to explore other financing approaches
MS2	List with planned RES investments (30 million euro)	12	12	**Delivered**: The total planned investment volume for MECISE was reduced to approximately 170 Meuro. In the past 6 months period for almost 10 Meuro additional investments were realized. With 24 from 48 months passed it all depends whether an when permits for the ongoing wind projects can be obtained if this target can be reached.
MS3	12 public buildings have been identified for EE measures	12	48	The strategic partnership with Leuven and IRO-contract will allow launching EE measures in many more than 12 public buildings by month 48. Concrete projects with 12 large schools are materializing in spring 2018
MS4	1.000 citizens signed up for facilitation programme	12	Not applicable any more	Ecotraject readily developed as a cost covering service, replicable by all REScoops in every member state. Offering Ecotraject to all its members all over Flanders should steadily result in increase in participation from autumn 2018 onwards. Ecopower's "pellet stove action" for "green heat" replacing heat from fossil fuels is to be considered as EE measure. The pellet stove guidance stays available and can be expected to attract citizens to invest year after year

#	Description	Month planned	Month delivered	Explanation in case of delay
MS5	List with planned RES investments (60 million euro)	24	12	**Delivered** - See inception report (D1.1)
MS6	EE measures package for 6 public buildings fully developed	24	48	See explanation MS3
MS7	EE measures package for 500 citizens fully developed	24	48	See explanation MS4

3 Progress update concerning performance indicators

3.1 Investments

#	Category of investments	Initial amount in €	Amount already signed	Amount still expected to be signed	Explanations in case of major variations
1	RES Power generation	137.780.000	53.425.000	39.355.000	1/ Appeal against wind project Waterlink - at least 1 year delay, 2/ license wind Amel-Büllingen not before mid 2019
2	RES Heat generation	785.000	34.500	750.500	
3	EE in buildings – public - private	31.985.000	130.000	11.770.000	Uncertainty about feasibility of realisation of district heat network in Eeklo within the timeframe of the project
4	Retail energy market infrastructure	0	0		
	Total amounts	**170.550.000**	**53.589.500**	**51.875.500**	

3.2 Energy impacts

#	Type of impact	Initial	Status at progress update 5 (month 30)	Explanations in case of major variations
1	Avoided GHG emissions (tCO2e/year)	101.118	33.717 (*)	
2	Primary energy savings (MWh/year)	16.000	315	
3	Renewable energy produced (MWh/year)	180.000	61.827	

(*) Country specific CO2-emissions per electrical MWh are used: Belgium: 760 kg/MWh ; UK 409 kg/MWh; Spain 302 kg/MWh. Saving 1 MWh natural gas consumption = 18 kg avoided CO2. For heating oil this figure is 24 kg avoided CO2.

3.3 Employment creation

At Ecopower an additional staff member of the project development team started in November 2017.

4 Evolutions in the schedule of activities

The schedule of the activities have not changed compared to Annex I of the grant agreement

5 ANNEX: investment summary Update – 28/02/2018

Reporting on investments
REScoop MECISE H2020-EE-2014-4-PDA- 649767

CO2 emissions
natural gas 18 kg/MWh
oil heating oil 27 kg t/MWh

CO2 emissions per electrical kWh country specific:
Belgium 199 kg/MWh
UK 409 kg/MWh
Spain 302 kg/MWh

#	Municipality	Address	Description	Investment in €	Investment in national currency	Available evidence	Delive-rable ID	Sub-reference	Page number	CO2 savings		Energy savings		RES production	
										tCO2/year	in %	MWh/year	in %	MW	MWh/year
						(signed contract, invoice…)	*Dx.x*	*(if there are several documents in 1 deliverable)*	*(page where the investment amount is specified)*						
1	Eeklo (B)	Industrielaan 1	Boiler house renovation	€ 45 000		invoices	D2.2			2,2		120	15%		
2	Cumbria	Harlock Hill	2x 2,3 MW wind farm High Winds	€ 6 820 000		invoices	D2.1			5112,5				4,6	12500
3	Edinburgh	Scotland	1,5 MW roof mounted PV on 25 public buildings	€ 1 880 000		invoices	D2.1			449,9				1,5	1100
4	several		Schools co-op PV roof mounted 500 kW	€ 820 000		invoices	D2.1			143,2				0,5	350
5	Alcolea del Rio (SP)	Spain - Sevilla Region	PV large scale ground mounted grid connected	€ 2 041 025		invoices	D2.1			1021,7				2,16	3383
6	several	Different warehouse buildings	Marks & Spencer,PV roof mounted, approx 1 MW	€ 1 450 000		invoices	D2.1			347,7				1	850
7	Reading	Reading university	PV roof mounted on 20 buildings	€ 530 000		invoices	D2.1			72,0				0,2	176
8	Kinross		SHP Rumbling Bridge	€ 4 320 000		invoices	D2.1			858,9				0,5	2100
9	Lums de Larzac		PV roof mounted several buildings	€ 480 000		invoices	D2.1							0,24	280
10	several	East Belgium	Collective LED purchase	€ 40 000		orders	D3.1			95,0		125	85%		
11	Asse	Belgium	Biomass boiler	€ 10 000		energy study	D2.2			2,4				0,05	100
12	Houyet/Falmagne	Belgium	2,3 MW wind turbine	€ 3 500 000		invoices	D2.1			945,25				2,3	4750
13	Walhain	Belgium	2,3 MW wind turbine	€ 3 039 300		orders/invoices	D2.1			1004,95				2,3	5050
14	Waimes	Belgium	EE measures in schools	€ 45 000		invoices	D2.2			11,741		59			
15	Pujalt	Spain	2,35 MW wind turbine	€ 2 800 000		invoices	D2.1			1691,2				2,35	5600
16	Yorkshire Main - Rical	UK - West Yorks	Four Winds co-op 2x 500 kW wind turbines	€ 3 760 000		invoices	D2.1			1056				1	2600
17	Assel Valley	UK - Scotland	1 MW stake in Assel Valley wind farm	€ 1 250 000		invoices	D2,1			1145				1	2800
18	Auchrobert	UK - Scotland	1 MW stake in Auchrobert wind farm	€ 1 250 000		invoices	D2,1			1222				1	2988
19	Killington lake	UK - Cumbria	SHP K-Set hydro scheme, Western Energy co-op	€ 540 000		invoices	D2,1			81,8				0,05	200
20	Ranst	AWW -Waterlink	3x 3 MW class windturbine at drinking water production site	€11 000 000		orders/invoices	D2,1			3383				7,2	17000
21	several	Flanders	7 Pellets stoves - RES replacing fossil fuel heating	€ 24 500		orders/invoices	D3.1			0,2		10,5			
22	several	Wallonia	Roof mounted PV through 3rd party financing	€ 670 000		orders/invoices	D2.1							0,625	615
23	Eeklo (B)	Flanders	2 MW wind turbine	€ 2 500 000		orders/invoices	D2.1			995				2	5000
24	La Matallana	Spain	PV large scale ground mounted grid connected	€ 1 800 000		invoices	D2.1			1057				2,3	3500
25	Fontivsolar	Spain	PV large scale ground mounted grid connected	€ 850 000		invoices	D2.1			513,4				0,99	1700
26	La Florida	Spain	PV large scale ground mounted grid connected	€ 1 400 000		orders/invoices	D2.1			785,2				1,5	2600
27	Tahal	Spain	PV large scale ground mounted grid connected	€ 725 000		orders/invoices	D2.1			453				0,84	1500
			Total	**€53 589 825**	**0**					**22 450**		**315**		**36**	**76 742**

RES power	€53 425 325
RES heat	€ 34 500
EE	€ 130 000
	€ 53 589 825

Deliverable D1.3
Progress Report 5
Month 25 - 32

RESCOOP MECISE
Mobilizing European Citizens to Invest in Sustainable Energy

Full title of the project	REScoop – Mobilizing European Citizens to Invest in Sustainable Energy
Acronym of the project	REScoop MECISE
Contract number	H2020-EE-2014-4-PDA- 649767
Conception and contents	REScoop MECISE consortium
Author(s)	REScoop MECISE consortium
Project Coordination	Ecopower cvba Posthoflei 3 bus 3 B-2600 Berchem Belgium Karel.Derveaux@ecopower.be 0032 476 63 04 76
Project Partners	Ecopower – REScoop.eu – Somenergia – Enercoop – Courant d'Air – Energy4All
More information	www.REScoop.eu

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6-monthly
Performance Monitoring Update

valid for MLEI & PDA projects

Project acronym and contract number:	REScoop MECISE - 649767
Report date:	**19/05/2017 – (Period March 2017 – October 2017)**

Project co-ordinator:	Ecopower
Project start date:	01/03/2015
Project end date:	28/02/2019

1 Key achievements and progress in the past 6 months

#	WP	Key achievements and progress
1	WP1	- **Task 1.2** – Meetings of the EC (executive committee) between Ecopower and REScoop.eu regularly took place on an ad hoc basis during this 6 months period. This appeared necessary as there were staff changes and additional staff joining both with REScoop.eu as with Ecopower. (change of communications officer and additional advocacy officer at REScoop.eu; additional project officer at Ecopower). - **Task 1.3** - The 6th project meeting was held in Girona on Tuesday 13 June 2017, hosted by partner Som Energia. A following project meeting was proposed in parallel to the COP25 conference in November in Bonn. - **Task 1.4** – Communication : With summer holidays in this 6-monthly period, there has been no so much communication between members of the consortium. Regular bi-lateral contacts between Ecopower as co-ordinator and the other partners was mainly on organisational matters, issues related to reporting on concrete investments, etc. On the contrary to the communication between all consortium partners, there has been a lot of communication between Enercoop, Rescoop.eu and Ecopower with regard to WP4. - **Task 1.5** – There was no reporting during this 6 months period - **Task 1.6** – No activities on invitation of EASME
2	WP2	- **Task 2.1** – Further focus on project development of RES and EE investments as mentioned on the inception list, in particular those involving local authorities. BELGIUM: Further development of wind projects. **Amel and Büllingen** : environmental impact study (étude d'incidences) needed for the application of permits. It became clear that the presence of a protected bird species (milan rouge) will be the main obstacle for this project. Intensive consultation of private and official organisations in charge of bird protection in Wallonia took place. The municipal administrations have been closely involved facilitating and participating in all the meetings. The environmental study is scheduled to be concluded by the end of 2017. The outcome will determine if and when the project permit applications can be filed or not. - The wind farm **Walhain**, were Courant d'Air has a stake a 49%, was put in operation in spring 2017. - The licensing procedure for the joint wind development of **Trois Ponts** is still ongoing. - Ongoing development of previously reported wind projects of **Burg Reuland, St Vith-Malmedy** and **Gouvy**. - Following the interregional conference of Jan17 Courant d'Air convinced several municipalities to request citizen's participation in any new wind developments on their territory. Concrete new

#	WP	Key achievements and progress
		development of a wind project started in the municipality of **Bütgenbach.** - Courant d'Air has co-ordinated a consortium with 6 other Walloon REScoops and Ecopower to participate in the "SOFICO" public tender. **SOFICO** is the Walloon Agency in charge for the highway infrastructures in Wallonia, including the **service stations** and surrounding terrains along the highways. Project developers were invited to propose the development of wind turbines on all the SOFICO sites next to the service stations. The selection procedure is still ongoing. - A series of PV rooftop projects in the range of 100 kWp each are under development. Partly it concerns roofs of municipal buildings, a.o. in the municipality of **Welkenraedt**. - In **Eeklo** all permits were obtained for the additional wind turbine mentioned in the inception list. For the moment no appeals have been filed against the permits. A legal issue with regard to the land rights still must be settled formally. This project is part of a larger wind farm development along the E34 highway. Therefore the negotiations with the TSO on grid connection and the selection wind turbine supplier will be in collaboration with other developers . - **Ranst** (one of the sites of AWW-Waterlink – public company for drinking water): Ecopower ordered grid connection for 3 wind turbines of the 3 MW class. Wind turbine selection is scheduled for Sept-Oct 2017, ordering before the end of 2017. Site investigation and preparation of the civil works are ongoing. Construction of the wind turbines still is feasible by autumn 2018 - As winners of the tender by municipality of **Lanaken**, Ecopower and local co-operative Bronsgroen had no further barriers for the development of potential wind sites on the territory of Lanaken The development of 2 wind turbines next to a wind farm in operation since 2009 appeared to have best chances on realisation. Principal agreements with land owners are obtained, formal agreements are in sight. All studies necessary for the application of permits are ongoing. - **Schoten**: Ecopower is ready to submit the application of permits for two wind turbines. Ecopower won a tender for three wind turbines, with one of the wind turbines sited in a nature conservation area. Following an environmental impact study, Ecopower found out that distances would be not sufficient to allow wind turbines in protected area. Therefore, Ecopower decided to proceed asking permission for two wind turbines in a first phase. Meanwhile, Ecopower – together with the municipality) works on a solution for the third wind turbine. - Wind developments **Mol**, **Bilzen** and **Mechelen**, all mentioned on the inception list, have progressed to a next stage and development work is continued. - **New developments** not mentioned on the inception list are Schelle and Alken. **Schelle** is a development that dates back from 2009, that has been shelved due to negative advice from the aviation authorities. Recently Ecopower was informed that the project could continue with specific height limitations. The project has to be redeveloped taking

#	WP	Key achievements and progress
		into account actual state of the art of technology. A completely new permit application has to be prepared. The municipality of Schelle still is strongly in favour for this project. Comparable to Lanaken, Ecopower and local REScoop Bronsgroen won a tender by the municipality of **Alken**. It concerns a project with 2 wind turbines of which one on property of the municipality. Land rights for the other wind turbine are obtained. Studies needed for the permit application have recently been ordered. - **District heating network Eeklo**. The consortium Ecopower-Veolia started negotiating the details regarding the concession rights to use the public underground on the territory of the city of Eeklo. Once the concession agreement has been signed, the consortium has the exclusive rights for the development of a district heating network in Eeklo. (see previous 6 monthly report for a brief history of this project). If this project can continue, subject to the outcome of detailed technical and economic feasibility studies, a financial close is realistic by the end of 2018, the first phase of the network entering realisation second half of 2019. The duration of the concession agreement would be 30 years, with 2 times a possibility of extension of 10 years. - UK The two SHP developments mentioned in the previous reports have been built and put in operation. (Kinross, Scotland and Cumbria, England). - To enable the financial participation of citizens, new Community Benefit Societies have been created to purchase a stake in two wind farms of a commercial developer (Falck Renewables). It concerns Assel Valley Wind Farm (24 MW) in South Ayrshire and Auchrobert wind farm (36 MW) in South Lanarkshire. Both wind farms have been put in operation in summer. - SPAIN – The wind turbine in Pujalt (Barcelona province) is under construction and will be in operation within a few weeks– see https://blog.somenergia.coop/destacados/2017/10/comencen-les-obres-de-viure-de-laire-del-cel/ - Developing new wind projects in Spain being nearly impossible in actual circumstances, Som Energia focussed on additional ground mounted PV projects. For La Matallana. a 2MW PV project in Lora del Rio (Sevilla) and Fontivsolar, a 1MW PV project in Avila near Madrid, the construction contracts are signed. The plants will be constructed in 3-4 months from now. For projects La Florida (1,5MW in Lora del Rio, Sevilla area) and Tahal (1 MW in Almeria) the final permits are expected in the coming months. - FRANCE – New possibilities for investments in PV have emerged. The city of Nantes is a pioneer in France with regard to the transition to sustainable energy. Enercoop agreed to become partner with Nantes as part of the “Plan Soleil” that includes the development of

#	WP	Key achievements and progress
		new large-scale PV installations in the region. A 500 kW PV installation on a market hall is under development, aimed for realization in 2018. Other early stage new developments concern multi-MW ground-mounted PV projects on brown-field sites a.o. in the Gironde and Bretagne region. - **Task 2.2 & 2.3** – EE investments The small district heating network in the municipality of **Elsenborn** has been further developed. There is no clear planning when the investment phase could start. - In the municipality of **Asse** detailed engineering services have been tendered regarding the EE measures, boiler house refurbishment and conversion to a wood chip boiler for the buildings hosting the technical services of the municipality. Equipment has been installed to measure energy consumption for heating during the winter 2017-2018. - The city of **Leuven** has ambitious goals to become CO2-neutral by 2030. As result of a public selection procedure, a consortium with Ecopower as leading organisation was selected to become the official strategic partner. This strategic partnership was formally announced as "LICHT Leuven" on 29 July. Activities will concentrate on reducing energy consumption in all buildings (public and private), exploit to the maximum the potential of integrating PV on buildings and develop renewable heating solutions to be applied in the city environment. The approach is based on mobilising building owners, involving them in the identification, development and investment of sustainable energy measures. With several thousands of citizens of Leuven being co-operative member of Ecopower, LICHT is effectively a partnership between citizens and their local authority. - Over summer, IRO, an umbrella organisation of **over 100 catholic schools in Flanders**, has tendered EE measures and PV installations to be realized by 3rd party investors for all its buildings. A consortium with Flemish REScoops, including Ecopower, was selected at the end of October. Negotiations on contractual agreements and possible approaches have just started.
3	WP3	In the previous 6-monthy Ecopower's tool for selecting an appropriate pellet stove was explained. Following the announcement of the tool being developed, already 151 shareholders had registered their interest. Since the tool was launched on the Ecopower web site (pellet stove action). 982 people have completed the guidance by the tool. Ecopower combined the launching of the tool with a promotion on pellets when a pellet stove was ordered before May. In total 5 pellet stoves were ordered before May, 2 more afterwards. This 6-monthly period a lot of efforts were devoted in preparing the "Ecotraject" EE service to be gradually expanded to all members of Ecopower: - Promotion of the Ecotraject in Asse in collaboration with the municipality. Asse selected a district with 700 houses with a lot of potential for the Ecotraject. Ecopower took care of a well-designed information leaflet. Asse wrote a support letter and organised a mail round to post the leaflet together with the support letter. Despite this

#	WP	Key achievements and progress
		serious effort, there have been no quickscans submitted by people from the selected area. - Starting in this small region of Asse, Beersel and neighbouring municipalities gave Ecopower the possibility to benchmark the Ecotraject approach and to learn from the first experiences. Meanwhile, between June and October, 43 shareholders from other regions in Flandres showed their interest in the Ecotraject by submitting a quickscan, even it is stated clearly that we can't yet service other areas. Therefore Ecopower decided to scale up the Ecotraject region to the whole Flemish region. By doing so, Ecopower will be able to reach all their members. o Ecopower decided to collaborate with extra energy auditors, working on a case by case remuneration basis. The call for candidates was published in September. Ecopower received 32 candidacies, of which 14 high quality candidatures. 8 candidates are invited for an interview that takes place in the first half of November. o Ecopower started a collaboration with BAS vzw (a spinoff of REScoop Beauvent with a lot of experience in giving energy advice to households) to perform energy audits for our shareholders in West-Flandres. Actual planning for Ecopower is to offer the Ecotraject in the rest of Flanders from January 2018 onwards. - Between April and October, only two new Ecotrajects have started. Even though it is a paying service, the customers are very happy with the advice they received through the Ecotraject. - The common innovative tool built in collaboration with other organisations (Piixi, BAS Bouwen, Leiedal) is not progressing as foreseen. Ecopower tested a tool developed by Piixi, but the further development into an online tool is lacking behind. Next to that, the tool is very time consuming and too technical to serve the needs of energy auditors in a proper way. There is little chance that Ecopower continues with this tool. - Ecopower is intensifying collaboration with Courant d'Air with regard to the Ecotraject. Courant d'Air has previous experience in energy consulting. A reunion is planned in November to see what we can learn from each other in order to strengthen the Ecotraject approach. One of the topics we will discuss is a tool to perform an energy audit in a standardized way.

#	WP	Key achievements and progress
4	WP4	- **Task 4.2 & 4.3** – REScoop.eu, Enercoop and Ecopower clearly defined the main input for the statutes of the SCE, as new legal entity to serve as REScoop financing vehicle. On request of REScoop.eu draft statutes have been written by Coopburo, the consulting department of the Belgian federation of co-peratives. During this 6 months period meetings between REScoop.eu, Enercoop and Ecopower took place in May (Brussels) and October (Paris). The name of the new legal entity will be "REScoop Mutual for Energy Communities to Invest in a Sustainable Europe" or "REScoop MECISE SCE". From now on the new legal entity will be referred to as "the REScoop Mutual" A meeting with all partners will take place in Bonn on Friday 10 November. Purpose is to review all remarks regarding the content of the draft statutes and agree on a common version. - Next step is to subcontract a specialized legal consultant to write the full statutes and prepare the final version for publication. In parallel: selection of most appropriate investment projects that have been identified for launching the REScoop Mutual. First concrete investment projects will be restricted to projects identified and led by one of the well-established REScoops.
5	WP5	- **Task 5.1** – Data on project development under WP2 and WP3 were still collected using the "progress monitor" in Excel The **web platform** allowing easy reporting by all beneficiaries, swift centralisation and control by Ecopower, in combination with the publishing on a dedicated project website, has been realised and is operational in beta-version. However, a lot of the content still needs to be provided. Up to now, functionalities are only partly activated. -

#	WP	Key achievements and progress
6	WP6	- **<u>Tasks 6.2; 6.2; 6.3</u>** – The project website had been developed, including the platform functionalities mentioned under WP5. The meeting in Bonn will serve to agree on timing for content, translation in multiple languages and launching deadline.

2 Milestones

#	Description	Month planned	Month delivered	Explanation in case of delay
MS1	Feasibility study on REScoop financing approach	9	12	**Delivered**: a "European REScoop Fund" similar to Energie Partagée is NOT FEASIBLE/APPROPRIATE Subcontracting an external consultant to explore other financing approaches
MS2	List with planned RES investments (30 million euro)	12	12	**Delivered**: The total planned investment volume for MECISE was reduced to approximately 170 Meuro. In the past 6 months period for almost 10 Meuro additional investments were realized. With 24 from 48 months passed it all depends whether an when permits for the ongoing wind projects can be obtained if this target can be reached.
MS3	12 public buildings have been identified for EE measures	12	48	The strategic partnership with Leuven and IRO-contract will allow launching EE measure in many more than 12 public buildings by month 48.
MS4	1.000 citizens signed up for facilitation programme	12	Not applicable any more	Ecotraject readily developed as a cost covering service, replicable by all REScoops in every member state. 98 members submitted the quickscan as potential intake for an Ecotraject. Offering Ecotraject to all its members all over Flanders should steadily result in increase in participation from 2018 onwards. Ecopower's "pellet stove action" for "green heat" replacing heat from fossil fuels is to be considered as EE measure. The pellet stove guidance stays available and can be expected to attract citizens to invest year after year

#	Description	Month planned	Month delivered	Explanation in case of delay
MS5	List with planned RES investments (60 million euro)	24	12	**Delivered** - See inception report (D1.1)
MS6	EE measures package for 6 public buildings fully developed	24	48	See explanation MS3
MS7	EE measures package for 500 citizens fully developed	24	48	See explanation MS4

3 Progress update concerning performance indicators

3.1 Investments

#	Category of investments	Initial amount in €	Amount already signed	Amount still expected to be signed	Explanations in case of major variations
1	RES Power generation	137.780.000	45.590.000	92.190.000	
2	RES Heat generation	785.000	35.000	750.000	
3	EE in buildings – public - private	31.985.000	130.000	11.770.000	Uncertainty about feasibility of realisation of district heat network in Eeklo within the timeframe of the project
4	Retail energy market infrastructure	0	0		
	Total amounts	**170.550.000**	**45.755.000**	**104.710.000**	

3.2 Energy impacts

#	Type of impact	Initial	Status at progress update 5 (month 32)	Explanations in case of major variations
1	Avoided GHG emissions (tCO2e/year)	101.118	33.717 (*)	
2	Primary energy savings (MWh/year)	16.000	315	
3	Renewable energy produced (MWh/year)	180.000	61.827	

(*) Country specific CO2-emissions per electrical MWh are used: Belgium: 760 kg/MWh ; UK 409 kg/MWh; Spain 302 kg/MWh. Saving 1 MWh natural gas consumption = 18 kg avoided CO2. For heating oil this figure is 24 kg avoided CO2.

3.3 Employment creation

No additional employment during the past 6-monthly period.

4 Evolutions in the schedule of activities

The schedule of the activities have not changed compared to Annex I of the grant agreement

5 ANNEX: Investment Summary Update – 03/11/2017

Reporting on investments

REScoop MECISE H2020-EE-2014-4-PDA- 649767

CO2 emissions
natural gas 18 kg/MWh
oli heating oil 27 kg t/MWh

CO2 emissions per electrical kWh country specific:
Belgium 199 kg/MWh
UK 409 kg/MWh
Spain 302 kg/MWh

#	Municipality	Address	Description	Investment in €	Investment in national currency	Available evidence	Delive-rable ID	Sub-reference	Page number	CO2 savings		Energy savings		RES production	
										tCO2/year	in %	MWh/year	in %	MW	MWh/year
1						*(signed contract, invoice…)*	*Dx.x*	*(if there are several documents in 1 deliverable)*	*(page where the investment amount is specified)*						
2	Eeklo (B)	Industrielaan 1	Boiler house renovation	€ 45 000		invoices	D2.2			2,2		120	15%		
3	Cumbria	Harlock Hill	2x 2,3 MW wind farm High Winds	€ 6 820 000		invoices	D2.1			5112,5				4,6	12500
4	Edinburgh	Scotland	1,5 MW roof mounted PV on 25 public buildings	€ 1 880 000		invoices	D2.1			449,9				1,5	1100
5	several		Schools co-op PV roof mounted 500 kW	€ 820 000		invoices	D2.1			143,2				0,5	350
6	Alcolea del Rio (SP)	Spain - Sevilla Region	PV large scale ground mounted grid connected	€ 2 041 025		invoices	D2.1			1021,7				2,16	3383
7	several	Different warehouse buildings	Marks & Spencer,PV roof mounted, approx 1 MW	€ 1 450 000		invoices	D2.1			347,7				1	850
8	Reading	Reading university	PV roof mounted on 20 buildings	€ 530 000		invoices	D2.1			72,0				0,2	176
9	Kinross		SHP Rumbling Bridge	€ 4 320 000		invoices	D2.1			858,9				0,5	2100
10	Lums de Larzac		PV roof mounted several buildings	€ 480 000		invoices	D2.1							0,24	280
11	several	East Belgium	Collective LED purchase	€ 40 000		orders	D3.1			95,0		125	85%		
12	Asse	Belgium	Biomass boiler	€ 10 000		energy study	D2.2			2,4				0,05	100
13	Houyet/Falmagne	Belgium	2,3 MW wind turbine	€ 3 500 000		invoices	D2.1			945,25				2,3	4750
14	Walhain	Belgium	2,3 MW wind turbine	€ 3 039 300		orders/invoices	D2.1			1004,95				2,3	5050
15	Waimes	Belgium	EE measures in schools	€ 45 000		invoices	D2.2			11,741		59			
16	Pujalt	Spain	2,35 MW wind turbine	€ 2 800 000		invoices	D2.1			1691,2				2,35	5600
17	Yorkshire Main - Rical	UK - West Yorks	Four Winds co-op 2x 500 kW wind turbines	€ 3 760 000		invoices	D2.1			1056				1	2600
18	Assel Valley	UK - Scotland	1 MW stake in Assel Valley wind farm	€ 1 250 000		invoices	D2,1			1145				1	2800
19	Auchrobert	UK - Scotland	1 MW stake in Auchrobert wind farm	€ 1 250 000		invoices	D2,1			1222				1	2988
20	Killington lake	UK - Cumbria	SHP K-Set hydro scheme, Western Energy co-op	€ 650 000		invoices	D2,1			81,8				0,035	200
21	Ranst	AWW -Waterlink	3x 3 MW class windturbine at drinking water production site	€11 000 000		orders/invoices	D2,1			3383				7,2	17000
22	several	Flanders	7 Pellets stoves - RES replacing fossil fuel heating	€ 24 500		orders/invoices	D3.1			0,2		10,5			
			Total	**€45 754 825**	**0**					**18 647**		**315**		**28**	**61 827**
			RES power	€45 590 325											
			RES heat	€ 34 500											
			EE	€ 130 000											
					€ 45 754 825										

Deliverable D1.3
Progress Report 4
Month 19 - 24

Full title of the project	REScoop – Mobilizing European Citizens to Invest in Sustainable Energy
Acronym of the project	REScoop MECISE
Contract number	H2020-EE-2014-4-PDA- 649767
Conception and contents	REScoop MECISE consortium
Author(s)	REScoop MECISE consortium
Project Coordination	Ecopower cvba Posthoflei 3 bus 3 B-2600 Berchem Belgium Karel.Derveaux@ecopower.be 0032 476 63 04 76
Project Partners	Ecopower – REScoop.eu – Somenergia – Enercoop – Courant d'Air – Energy4All
More information	www.REScoop.eu

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http://ec.europa.eu/programmes/horizon2020/en

Authors: Karel Derveaux – Fiene Biesbrouck [Ecopower]

European Commission | Executive Agency for Small and Medium-sized Enterprises

6-monthly Performance Monitoring Update

valid for MLEI & PDA projects

Project acronym and contract number:	REScoop MECISE - 649767
Report date:	**19/05/2017 – (Period September2016 – February2017)**

Project co-ordinator:	Ecopower
Project start date:	01/03/2015
Project end date:	28/02/2019

6 Key achievements and progress in the past 6 months

#	WP	Key achievements and progress
1	WP1	- **Task 1.2** – Co-ordination with the restricted role of REScoop.eu in project co-ordination and Fiene Biesbrouck of Ecopower actively involved in the co-ordination. Meeting of the EC (executive committee) between Ecopower and REScoop.eu took place on a monthly basis. - **Task 1.3** - The 5th project meeting was held in Eupen on Monday 16 January 2017, hosted by partner Courant d'Air. This day was choosen in order to combine with an interregional conference the next day (details on this conference under point WP6 of this update). - **Task 1.4** – Communication : in this 6-monthly period there has been extensive communication between Ecopower as co-ordinator and the other partners. Main reason was the collection of data for the period report, explanation about form and quantity of content, explanation about the cost statements, use of SygMa, etc. In addition there has been a lot of communication regarding task specific actions. Particular ways to extend EE-actions (e.g. Ecopower fostering use of pellet stoves) , replication of good practices between partners (e.g. LED-lamp Courant d'Air -> Ecopower, Ecotraject Ecopower -> Courant d'Air, LED public lighting Pajopower -> all consortium partners) - **Task 1.5** – Reporting : the 3rd 6-monthly progress report was submitted in December 2016. During this 6-monthly period, the first Periodic Report was prepared. All partners provided updates on the project development work and the progress of their investments. As a result a "progress monitor" table in Excel was elaborated as a simple working tool. The first tab of the progress monitor is an overview table building on the inception list of deliverable D1.1. This table allows a quick review of that state of development of projects, projects that are stranded, new projects that have appeared. A link leads to other tabs of the file with more details per project. - **Task 1.6** – Upon invitation of EASME Ecopower and REScoop.eu participated in the Energy Effiiciency Finance Market Place in Brussels on 18-19 January. The REScoop MECISE project was presented in track 6B in the afternoon of 19 January.
2	WP2	- **Task 2.1** – The project partners develop their RES and EE projects. BELGIUM: Further development of wind projects. A compromis was reached with EDF and the redrawal of their appeal against the wind farm in the municalities of **Amel and Büllingen** was formalised in November 2016. Development work restarted with high priority resulting in the formal public information meeting taking place on 26 January. This public information meeting (Réunion d'Information Public – Bürgerinformationsversammlung) is the first step in the

#	WP	Key achievements and progress
		procedure towards the license for building and operating a wind turbine in the Walloon Region. - The previous 6-monthly update mentioned that both Ecopower (Falmagne) and Courant d'Air (Walhain, Trois Ponts) managed to acquire parts in wind projects of other developers. For Ecopower this concerns one windturbine (2,3 MW) in an extension with 4 windt turbines of the wind farm in Houyet-Falmagne. In 2010 Ecopower has pre-financed the grid connection and later on invested in one turbine in this wind farm (5 turbines) that startet operation in 2012. The foundations for 4 andditional turbines were realised in spring 2016. Ecopower acquiring rights and permits and investing in one of those 4 turbine allowed the project to continue towards completion with adaption of the grid connection and installation of the turbines. The 4 additional turbines were connected to the grid on 25 November 2016. Courant d'Air has take a 49% share in a special purpose company set up by a developer for two wind turbines in **Walhain**. This financial participation allowed the financial close for this project in autumn 2016. Construction works started and grid connection is foreseen before summer 2017. Courant d'Air has a principal agreement for one turbine in a wind farm development in **Trois Ponts**. The licensing procedure for this project is ongoing. It is to be seen if and when the project can be realized. - Previous 6-monthly update reported that Ecopower and Courant d'Air actively encourage municipalities to organise tenders requesting citizens' direct participation through local REScoops, facilitating the municipality to co-invest in the wind project, as a kick-off for further sustainable energy investment . The municipality of **Lanaken** adopted this approach lauching in September 2016 a tender for additional wind turbines on its' territory. The offer made by Ecopower, in collaboration with local start-up REScoop Bronsgroen, was formally selected by the municipal council in December 2016. The offer foresees a co-investment by the municipality up to 30% of the additional wind turbines that can be realized on community owned land. As for Amel-Büllingen in Wallonia, Lanaken is the first concrete development in Flanders were REScoops mobilise local authorities to invest in sustainable energy, fully in line with the MECISE idea. - **District heating network Eeklo**. Previous updates have mentioned activities regarding the realisation of a district heating network in the city of Eeklo. Brief history: the municipal company IVM owned by 19 municipalities, one of them the city of Eeklo, is operating an incineration plant for municipal waste for over 25 years. Originally this plant only incinerated the waste and all heat was dumped. In the late nineties electricity from renewable sources started to receive support following the green electricity EU directive. Shortly after the Flemisch Government issued a decree that energy from municipal waste incineration was considered as renewable (due to the biomass content) for fixed precentage. Consequently IVM invested in an electricity production unit (steam boiler, generator, aerocondensor) allowing approximately 25% of the energy of waste generation to be converted into electricity, receiving support as "green electricity" for

#	WP	Key achievements and progress
		the fixed percentage (actually 46%). Still over 70% of the energy produced (about 15 MW thermal energy) continued to be dumped as "waste heat" (~40°C low temperature heat from the aerocondensor). In 2016 the installation got its' environmental exploitation permit prolonged with another 20 years, under condition that progressively more of the waste heat would be valorised. A feasibility study organised by Ecopower showed that valorisation of the heat through a district heation network for the city of Eeklo would be possible. - In spring 2016 the city council of Eeklo decided that this district heating network should be owned by citizens for at least 35% of the total investment. Consequently Eeklo prepared a tender for a concession regarding the realisation and exploitation of a district heating system using the public domain in the whole territory of the city, including the obligation for at least 35% citizens' participation. Deadline for submission was 22 November 2016 and Ecopower responded in consortium with the company Veolia. The offer appeared to be the only eligible one. In spring 2017, parties entered the negotiation phase towards the formal concession agreement (30 years duration), subject of the outcome of detailed technical and economical feasibility studies. If the project can continue and developments go as hoped, a financial close is realistic by the end of 2018, the first phase of the network entering realisation second half of 2019. - UK As mentioned in previous 6m progress update further wind development are focussing on acquisition of parts of ongoing developments by other developers. For the two SHP developments that were acquired with all permits, the financing was secured through share offers and construction phase has started (Kinross, Scotland and Cumbria, England) - SPAIN – The wind turbine in Pujalt (Barcelona province) received all licenses and financing was secured thanks to Som Energia's "Generation kWh" financing approach. It appeared difficult to get offers from wind turbine suppliers for one single turbine, but recently a turbine supply agreement with supplier Enercon was signed. Realization of the turbines and start of production is foreseen before the end of 2017. As mentioned in previous reports, developing new wind projects in Spain is nearly impossible in actual circumstances. Therefor Som Energia is focussing mainly on additional ground mounted PV projects. Several multi MW projects are actually under development. - FRANCE – No stricting progress to report regarding the PV rooftop developments on the inception list or on the two additional projects identified. - **Task 2.2 & 2.3** – EE investments A series of EE related activities by Courant d'Air 12 school buildings in the municipality of **Waimes** have been reported previously. All started by subcontracting an in depth energy audit and the installation of smart meters. The feasibility of a

#	WP	Key achievements and progress
		small local heating network in the municipality of **Elsenborn** connecting a number of public buildings (some schools, sports facility, municipal house, ...) with a biomass boiler using locally produced wood chips, was further elaborated. Potential equipment suppliers were contacted. After the EE measures in the connected buildings, such heating network becomes technically and economically feasible (small diameter of network pipes, standard boilers of < 100 kW, limited dimensions of heat buffers and fuel storage) making these public building effectively CO2-neutral. - Similarly in Flanders, after feasibility study and guidance by Ecopower, the municipality of **Asse** has decided to invest accordingly in the EE measures proposed for the buildings hosting the technical services, including as final measure replacing the oil boiler by a wood chips heating system. An approach for producing wood chips from local landscape maintenance is being set up (10-annual harvesting of woody landshape elements, natural drying and appropriate storage of wood chips) - .
3	WP3	The collective purchase action on LED lighting as developed and run by Courant d'Air in autumn 2015 is geared for duplication by Ecopower, addressing its 50.000 members. However Ecopower did not find the capacity yet to prepare the action. At the earliest replication can take place in the second half of 2017 or in the course of 2018. More and more members/clients of Ecopower use Energie ID to monitor their energy consumption. On average Ecopower members consume annually 2000 kWh electricity. However, energy consumption for heating – space heating and warm water combined – is on average about 25.000 kWh - 10-fold higher ! Therefore Ecopower lauched in autumn 2016 an action drawing attention to measures for "greening" heating energy demand. A quick way for citizens to reduce their consumption of fossil fuel for heating, is to "replace" fossil heat by renewable heat. In practice this is possible for many citizens by installing a pellet stove. Ecopower developed a tool that will help citizens to make the "right" choice of pellet stove. Through the Ecopower website a quite extensive guidance is made available. This guidance draws the attention to the necessary technical criteria assuring an efficiënt and save operation of a pellet stove, adapted to the situation of the buyer. The number of stoves meeting the technical criteria in the selection tool should still allow a sufficient range of designs for everybody's taste. The tool can be found via pellet stove action. This 6-monthly period a lot of efforts were devoted to prepare the "Ecotraject" EE service to be gradually expanded to all members of Ecopower: - Promotion of the Ecotraject service at any occasion, through the website, newsletter to members, series of 10 information evenings throughout Flanders in October 2016, etc. This resulted in a steady number of new quick scans performed, as potential starting point for new participants in Ecotraject. - From the representative cases and new quick scans several more

#	WP	Key achievements and progress
		Ecotraject guidances have continued, builiding upon the measures identified during the energy audits. In come case part the measures are already realised (or ordered), being mainly measures related to the building skin. For the building techniques the guidance identifies standard exitisting cases and offers a range of standard solutions, taking into account the measures taken or planned for the building skin. (e.g. lower heating capacity when replacing existing heaters by condensing gas heater, including y/n hot water production, combination y/n with solar boiler, similar standard options when choice of heat pump or pellet boiler is possible, etc.). - Collaboration with several other organisations working on guidance for citizens towards EE measures (PIIXI, BAS Bouwen, Leiedal) with the purpose of developing a common innovative audit tool. In short the tool should assure a standardised way to perform the onsite audit, by using an app on a tablet, allowing choosing from a list of situations that offen occurs, easy way to add comments, pictures, IR-scans, etc. with the report being available on a web-platform directly after the audit, possibility to add per Ecotraject appropriate detailed technical information, price offers for measures proposed, etc. - An additional staff member to work on Ecotraject was selected at the end of December 2016 (start April 2017). In addition Ecopower attracted an engineering student to perform his master thesis focussing in dept on the technical aspects of central heating systems (oil, gas, pellet boiler and heat pumps) including warm water production. All info through the Ecopower website https://www.ecopower.be/energiebesparing/ecotraject -

#	WP	Key achievements and progress
4	WP4	- **Task 4.2 & 4.3** – REScoop financing tool - A second workshop was organised in September Paris. On the initiative of subcontractor EY France the European co-operative TAMA as example of recently established European fund was invited. TAMA encounters difficulties to get started, the lack of appropriate and profitable investment projects being the main cause. However the workshop revealed that the legal entity form of a "European Co-operative" would be suitable to serve the purpose of "REScoop financing vehicle" providing dedicated financing options to REScoops individually, as well as pooling of REScoop projects for financing through leverage with existing financial instruments. As a result of this workshop, further work under WP4 was focussing on studying the concrete aspects of setting up a co-operative company in accordance to the ICA-principles with members being REScoops only, later on also public authorities, institutional investors, crowd funding platforms, etc. In a start-up phase main activities would be limited to (co)investment in projects developed by the members. Several concrete approaches for governance of the financing vehicle were investigated and a business plan based on investment volumes up to 50 Meuro was put together. A first draft of statutes was reflected upon. - Indentification of potential investment projects suitable for starting up the REScoop investment vehicle.
5	WP5	- **Task 5.1** – Data on project development under WP2 and WP3 were collected for the periodic report. As interim solution the "progress monitor" in Excel (see described under Task 5.1 of WP1) was decided. The idea of a web platform allowing easy reporting by all beneficiaries, swift centralisation and control by Ecopower, in combination with the publishing on a dedicated project website, was elaborated further. Terms of reference for such a website/platform have been formulated, price offers were asked and a provider has been selected. Partners were instructed to prepare elaborated contect. This project website with content on projects realisedor advancing well, is sheduled to be running before summer 2017. -

#	WP	Key achievements and progress
6	WP6	- **Tasks 6.2; 6.2; 6.3** – The RESCOOP MECISE project is referred to by all beneficiaries in their every day communication whenever this is appropriate. This is in particular the case for REScoop.eu being well presented in energy fora at EU level. Examples during the last 6-monthly period: - 29-30/9/2016: ICLEI meeting Freiburg - 17/1/2017: Interregional conference, Eupen - 19/1/2017: Energy Efficience Finance Market Place, Brussels - **Task 6.4** – As announced in the previous 6–monthy report a REScoop colloqium was organised by REScoop.eu and hosted by Courant d'Air in Eupen (East Belgium). This location is in a "Euregion" close to the border of 4 member states, therefore the colloquim was named "interregional conference". This day was choosen in order to combine with the MECISE project meeting the day before. This conference was set up in collaboration by REScoop.eu and Courant d'Air with a multiple purpose: (1) highlight the importance of sustainable energy investments in meeting climate objectives, (2) showcase the potential of mobilising citizens in community energy initiatives such as REScoops and (3) demonstrate cases of collaboration between REScoops and local authorities. In this context the MECISE project received high visibility, in particular as the development of the wind project Amel-Büllingen is a concrete result of collaboration between REScoops and two municipalities from the German speaking region of Belgium. An important number of the participants were representatives of municipalities from the Euregion. In total there were over 200 participants. Photo's, video's and all presentations are accessible through the following link: http://conference.rescoop.eu/fr/home/ . -

7 Milestones

#	Description	Month planned	Month delivered	Explanation in case of delay
MS1	Feasibility study on REScoop financing approach	9	12	**Delivered**: a "European REScoop Fund" similar to Energie Partagée is NOT FEASIBLE/APPROPRIATE Subcontracting an external consultant to explore other financing approaches
MS2	List with planned RES investments (30 million euro)	12	12	**Delivered**: The total planned investment volume for MECISE was reduced to approximately 170 Meuro. In the past 6 months period for almost 10 Meuro additonal investments have were realized. With 24 from 48 months passed it all depends whether an when permits for the ongoing wind projects can be obtained if this target can be reached.
MS3	12 public buildings have been identified for EE measures	12	-Not applicable any more	Focus shifted mainly to EE facilitation services for citizens, as local authorities often get assistance from other organisations, in particular when they have signed the convenant of mayors
MS4	1.000 citizens signed up for facilitation programme	12	Not applicable any moren	Ecotraject readily developed as a cost covering service, replicable by all REScoops in every member state. To be rolled out in a "consecutive" manner, opposed to the originally planned "batch" manner. This MS is thus no longer appropriate. Numbers of Ecotraject guidances will increase through replication by other REScoops. The LED collective purchase action will be replicated firstly by Ecopower. Ecopower lauched a "pellet stove action" for "green heat" replacing heat from fossil fuels to be considered as EE measure.

#	Description	Month planned	Month delivered	Explanation in case of delay
MS5	List with planned RES investments (60 million euro)	24	12	**Delivered** - See inception report (D1.1)
MS6	EE measures package for 6 public buildings fully developed	24	No longer appropriate	See explanation MS3
MS7	EE measures package for 500 citizens fully developed	24	No longer appropriate	See explanation MS4

8 Progress update concerning performance indicators

8.1 Investments

#	Category of investments	Initial amount in €	Amount already signed	Amount still expected to be signed	Explanations in case of major variations
1	RES Power generation	137.780.000	27.680.000	110.099.000	
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3	EE in buildings – public - private	31.985.000	130.000	11.770.000	Uncertainty about feasibility of realisation of district heat network in Eeklo within the timeframe of the project
4	Retail energy market infrastructure	0	0		
	Total amounts	**170.550.000**	**27.820.000**	**122.644.000**	

8.2 Energy impacts

#	Type of impact	Initial	Status at progress update 3 (month 24)	Explanations in case of major variations
1	Avoided GHG emissions (tCO2e/year)	101.118	17.289 (*)	
2	Primary energy savings (MWh/year)	16.000	304	
3	Renewable energy produced (MWh/year)	180.000	36.239	

(*) Country specific CO2-emissions per electrical MWh are used: Belgium: 760 kg/MWh ; UK 409 kg/MWh; Spain 302 kg/MWh. Saving 1 MWh natural gas consumption = 18 kg avoided CO2. For heating oil this figure is 24 kg avoided CO2.

8.3 Employment creation

Ecopower employed (December 2016, start April 2017) one additonal staff member in order to offer the Ecotraject to all members of Ecopower (WP3).

9 Evolutions in the schedule of activities

The schedule of the activities have not changed compared to Annex I of the grant agreement

Deliverable D1.3
Progress Report
Month 13 - 18

RESCOOP MECISE
Mobilizing European Citizens to Invest in Sustainable Energy

Full title of the project	REScoop – Mobilizing European Citizens to Invest in Sustainable Energy
Acronym of the project	REScoop MECISE
Contract number	H2020-EE-2014-4-PDA- 649767
Conception and contents	REScoop MECISE consortium
Author(s)	REScoop MECISE consortium
Project Coordination	Ecopower cvba Posthoflei 3 bus 3 B-2600 Berchem Belgium Karel.Derveaux@ecopower.be 0032 476 63 04 76
Project Partners	Ecopower – REScoop.eu – Somenergia – Enercoop – Courant d'Air – Energy4All
More information	www.REScoop.eu

The project REScoop MECISE is funded by the Horizon 2020 program of the European Union. More details on the program can be found on:
http://ec.europa.eu/programmes/horizon2020/en

Authors: Karel Derveaux – Fiene Biesbrouck [Ecopower]

6-monthly
Performance Monitoring Update

valid for MLEI & PDA projects

Project acronym and contract number:	REScoop MECISE - 649767
Report date:	**1/12/2016 – (Period March2016 – August2016)**

Project co-ordinator:	Ecopower
Project start date:	01/03/2015
Project end date:	28/02/2019

10 Key achievements and progress in the past 6 months

#	WP	Key achievements and progress
1	WP1	- Task 1.2 – Set up of the internet tool "Base Camp" to facilitate and structure the work of the EC; Re-definition of tasks in the EC. Ecopower will also take care of the administrative co-ordination tasks that were previously delt with by; REScoop.eu. Fiene Biesbrouck as project officer at Ecopower will assist Karel and will be second in line contact person for the project. - Task 1.3 - The 4rd project meeting took place in San Sebastian on Thursday 19 May 2016. The meeting was part of a series of activities and meetings bringing efficiently together several European REScoops and other project partners in the period 18 – 21 May. The following meetings/event took place at the same location: REScoop Plus expert meeting, Nobel Grid dissemination seminar, REScoop.eu General Assembly, Goiener & REScoop.eu community energy seminar. Goiener is a REScoop active in the Bask country. They co-organised all meetings, took care of the hosting in Parque Tecnológico Galarreta, the study visits, etc Thanks to the involvement of Goiener good visibility of REScoop at local authority level was assured. The agenda of the San Sebastian event is enclosed. Three meetings of the EC (Executive Committee) were held. - Task 1.5 – The 2nd 6-monthly Performace Monitoring Update for the period September 2015 – Februari 2016 was submitted in June 2016 -

#	WP	Key achievements and progress
2	WP2	- Task 2.1 – The project partners develop their RES and EE projects. BELGIUM: Development focus in on wind. The development of a wind farm in the municalities of Amel and Büllingen (East Belgium – tender won by Ecopower and Courant d'Air) was halted due to an appeal by EDF against the decision of the municipalities. Parties started negotiation in parallel to the legal procedures. Both Ecopower (Falmagne) and Courant d'Air (Walhain, Trois Ponts) acquired a wind turbine in wind farms under construction – in operation before end 2016. Municipalities are encouraged to organise tenders requesting citizens direct participation. As a result, the municipality of Alken awarded in July the development of 2 WT to Ecopower. Several new wind developments started in Flanders as well as in Wallonia. UK As mentioned in previous 6m progress update project development priorities shifted due to changes in legal framework. Basically all PV ground mounted were put on hold. PV roof mounted and wind projects were accelerated and according share offers were launched. As a result over 10 million GBP was raised. The construction of the High Winds project in Cumbria finalized (2x 2,3 MW) as well as the installation of over 5 MWp PV roof mounted projects (Marks & Spencers, Edinburgh, Reading University, School Co-ops). Further wind development is focussing on acquisition of parts of ongoing developments by other developers. Similarly, there was the acquisition of two SHP developments that are in a near to construction phase (Kinross, Scotland and Cumbria, England) SPAIN – The 2 MWp ground mounted PV installation in Alcolea del Rio (Sevilla) was put in operation. Som Energia's "Generation kWh" financing approach is now focussing on the wind turbine in Pujalt (Barcelona province) were nearly all licenses have been obtained. In spain the system of tender support for RES was started. Large developers win tenders with offers asking no additional support on top of the market electricity price. In these circumstance further RES development in Spain will become nearly impossible for a small player like Som Energia. - FRANCE – realization of the PV rooftop project in Lums de Larsac (25x 9 kWp). Other PV rooftop developments progress steadily and two additional started. - Task 2.2 & 2.3 – EE investments In Waimes (East Belgium) were Ecopower and Courant d'Air have a wind farm in operation since 2012 the planned EE maesures in municipal building were realized (energy audit in 15 buildings, smart meters, energy vizualisation platform, relighting, municipal SEAP. In general support with EE measures is highlighted each time Ecopower and Courant d'Air have contacts with local authorities. The outcomes will be the basis for collaboration models and joint investment schemes for REScoops with local authorities as soon as concrete investment opportunities arise.

#	WP	Key achievements and progress
3	WP3	In autumn 2015 Courant d'Air set up a collective purchase action on LED lighting, making their members aware about the electricity savings potential in lighting and making it more easy and cheaper for them to change existing lighting bulbs by LED lamps. The action was repeated in spring 2016. In total the action resulted in nearly 200 orders (out of +/- 1500 members) of 5000 lamps for an amount of nealy 40.000 euro. https://www.courantdair.be/projets/commande-collective-led/ Ecopower is preparing to replicate this kind of action to its 50.000 members in Flanders. Further fine-tuning of the "Sustainable Energy Facilitation Service" for citizens member of Ecopower. Creation of promotional material explaning the step approach and highlighting the aspect of guidance untill the investment phase and beyond (banner, animated picture movie, webpages, quick scan tool,). The service was baptised "Ecotraject". - With the contractual arrangement with a local service provider in place and an experienced energy auditor hired in as "energy facilitator", Ecopower wanted to test the approach offering a free service to the first 5 representative cases. Members in the municipalities of Asse and Beersel (close to Brussels) were invited to do a "quick scan" of the energy performance of their house through an online tool on Ecopower's website. Lauching the service in these municipalities is explained by the fact that in spring 2015 Ecopower realised windfarms in Asse and Beersel and has committed itself in assisting the municipalities with EE measures on its territory, as part of the SEAP of the municipality. - From the responding citizens' quick scans, 5 representative cases were chooses as winner for a free Ecotraject. Energy audits were performed and reports drafted, giving input to further fine-tuning of the service. For instance: measures with regard to the building skin will be guided further by the local "energy facilitators", while Ecopower will centralise guidance for the "technical measures" (HVAC) all over Flanders (an additional staff member at Ecopower will than be necessary). All info through the Ecopower website https://www.ecopower.be/energiebesparing/ecotraject -

#	WP	Key achievements and progress
4	WP4	- Task 4.1 – Ernst & Young France (EY) was subcontracted for exploring not only the route of a EU REScoop fund, but at the same time investigating the alternative route of a "financial facilitation service" for REScoops (D4.2) and other possible alternatives. REScoop.eu and Enercoop guided the work of E&Y leading to a first workshop on 29 June in Paris. All consortium members had the opportunitiy to share their views and insights based on the reality of working as REScoop in their region. EY made an extensive report available at the end of July triggering some more detailed feed-back from the consortium. - In the previous 6m progress update the Krammer project (105 MW wind in NL) had been mentioned as a concrete example of possible joint investment for REScoops. It has become obvious that there will be more of this kind of large scale investment opportunities, not only new developments, but also acquisitions. Concrete example is the acquisition in August of the 82 MW wind farm in Estinnes (Wallonia) by a Chinese state company. Similar acquisition opportunities are expected to occur in Belgium, but also in France and in Spain. Only when REScoops from all over Europe efficiently pool their expertise and financial resources, this kind of acquisitions will be feasible.
5	WP5	- Task 5.1 – Ongoing collection of data on project development under WP2 and WP3. There a many ideas about procedures, systems and software for efficient monitoring and publishing investment projects under development and realized. However, no concrete decision is made yet on the way to go. Data are kept in a classical manner. Ideally we end up with an approach and a system/technology allowing easy reporting by all beneficiaries, swift centralisation and control by Ecopower, and publishing on a dedicated project website. -

#	WP	Key achievements and progress
6	WP6	- Tasks 6.2; 6.2; 6.3 – The RESCOOP MECISE project is referred to by all beneficiaries in their every day communication whenever this is appropriate. This is in particular the case for REScoop.eu being well presented in energy fora at EU level. - Task 6.4 – Decision to organise a REScoop colloqium in combination with the next project meeting hosted by Courant d'Air in Eupen (East Belgium). This location will be in a "Euregion" close to the border of 4 member states. The event is meant to highlight the importance of sustainalbe energy for municipalities in their engegament for the convenant of mayors and the advantages offered by collaboration with local REScoops. -

11 Milestones

#	Description	Month planned	Month delivered	Explanation in case of delay
MS1	Feasibility study on REScoop financing approach	9	12	**Delivered**: a "European REScoop Fund" similar to Energie Partagée is NOT FEASIBLE/APPROPRIATE Subcontracting an external consultant to explore other financing approaches
MS2	List with planned RES investments (30 million euro)	12	12	**Delivered**: The total planned investment volume for MECISE was reduced to approximately 150 EUR. In the past 6 months period for over 15 Meuro investments have were realized. With 18 from 48 months passed it all depends whether an when permits for the ongoing wind projects can be obtained if this target can be reached.
MS3	12 public buildings have been identified for EE measures	12	-Not applicable any more	Focus shifted mainly to EE facilitation services for citizens, as local authorities often get assistance from other organisations, in particular as they signed the convenant of mayors
MS4	1.000 citizens signed up for facilitation programme	12	Not applicable any moren	Ecotraject readily developed as a cost covering service, replicable by all REScoops in every member state. To be rolled out in a "consecutive" manner, opposed to the originally planned "batch" manner. This MS is thus no longer appropriate. Target for next 6 months' period is guidance of 30 citizens in Flanders. Numbers will increase through replication by other REScoops. The LED collective purchase action taken into consideration, about 200 additional citizens have been convinced to invest in an EE measure

#	Description	Month planned	Month delivered	Explanation in case of delay
MS5	List with planned RES investments (60 million euro)	24	12	**Delivered** - See inception report (D1.1)
MS6	EE measures package for 6 public buildings fully developed	24	No longer appropriate	See explanation MS3
MS7	EE measures package for 500 citizens fully developed	24	No longer appropriate	See explanation MS4

12 Progress update concerning performance indicators

12.1 Investments

#	Category of investments	Initial amount in €	Amount already signed	Amount still expected to be signed	Explanations in case of major variations
1	RES Power generation	137.780.000	18.340.000	119.440.000	
2	RES Heat generation	785.000	10.000	775.000	
3	EE in buildings – public - private	31.985.000	85.000	11.900.000	Uncertainty about feasibility of realisation of district heat network in Eeklo within the timeframe of the project
4	Retail energy market infrastructure	0	0		
	Total amounts	**170.550.000**	**18.435.000**	**132.115.000**	

12.2 Energy impacts

#	Type of impact	Initial	Status at progress update 3 (month 18)	Explanations in case of major variations
1	Avoided GHG emissions (tCO2e/year)	101.118	8.105 (*)	
2	Primary energy savings (MWh/year)	16.000	245	
3	Renewable energy produced (MWh/year)	180.000	20.839	

(*) Country specific CO2-emissions per electrical MWh are used: Belgium: 760 kg/MWh ; UK 409 kg/MWh; Spain 302 kg/MWh. Saving 1 MWh natural gas consumption = 18 kg avoided CO2. For heating oil this figure is 24 kg avoided CO2.

12.3 Employment creation

One person was employed as “Energy Facilitator” by the service provider for Ecotraject (WP3) in region Asse – Beersel (Pajottenland)..

Ecopower and Courant d’Air employed each one additional staff member for developing wind projects. (WP2)

The employment of one additonal staff member by Ecopower is planned when the Ecotraject is rolled out (WP3).

13 Evolutions in the schedule of activities

The schedule of the activities have not changed compared to Annex I of the grant agreement

14 ANNEX: Investment summary update

Reporting on investments

REScoop MECISE H2020-EE-2014-4-PDA- 649767

CO2 emissions per electrical kWh country specific:
Belgium 760 kg/MWh
UK 409 kg/MWh
Spain 302 kg/MWh

#	Municipality	Address	Description	Investment in €	Investment in national currency	Available evidence	Delive-rable ID	Sub-reference	Page number	CO2 savings		Energy savings		RES production	
										tCO2/year	in %	MWh/year	in %	MW	MWh/year
1						*(signed contract, invoice…)*	*Dx.x*	*(if there are several documents in 1 deliverable)*	*(page where the investment amount is specified)*						
2	Eeklo (B)	Industrielaan 1	Boiler house renovation	€ 45.000		invoices	D2.2			2,2		120	15%		
3		S Cumbria	2x 2,3 MW wind farm High Winds	€ 6.820.000		invoices	D2.1			5112,5				4,6	12500
4	Edinburgh	Scotland	1,5 MW roof mounted PV on 25 public buildings	€ 1.880.000		invoices	D2.1			449,9				1,5	1100
5	several		Schools co-op PV roof mounted 500 kW	€ 820.000		invoices	D2.1			143,2				0,5	350
6	Alcolea del Rio (SP)		PV large scale ground mounted grid connected	€ 2.041.025		invoices	D2.1			1021,7				2,16	3383
7	several	Different warehouse buildings	Marks & Spencer,PV roof mounted, approx 1 MW	€ 1.450.000		invoices	D2.1			347,7				1	850
8	Reading	Reading university	PV roof mounted on 20 buildings	€ 530.000		invoices	D2.1			72,0				0,2	176
9	Kinross		SHP Rumbling Bridge	€ 4.320.000		invoices	D2.1			858,9				0,5	2100
10	Lums de Larzac		PV roof mounted several buildings	€ 480.000		invoices	D2.1							0,24	280
11	several	East Belgium	Collective LED purchase	€ 40.000		orders	D3.1			95,0		125	85%		
12	Asse		Biomass boiler	€ 10.000		energy study order	D2.2			2,4				0,05	100
13															
14															
15															
16															
17															
18															
			Total	**€ 18.436.025**	**0**					**8.105**		**245**		**11**	**20.839**

6-monthly
Performance Monitoring Update

PERIOD 2

Project acronym and contract number:	REScoop MECISE - 649767
Report date:	6/06/2016 – (Period Sept2015 – Febr2016)

15 Key achievements and progress in the past 6 months

#	WP	Key achievements and progress
1	WP1	- Task 1.2 - Consortium agreement circulated for comments by all partners. Formal signing at project meeting 3. - Task 1.3 - The 3rd project meeting took place in Paris on 10 & 11 December 2015. Main topic was WP4. Succesfull combination with REScoop-conference at COP21 day before project meeting. High visibility of REScoop at EU level. Combination with COP21 activities of ENERCOOP on the day after the project meeting - Task 1.4 – Use of the developed Dropbox structure to share files and documents with the other beneficiaries. - Task 1.5 – First 6-monthly Performace Monitoring Update was submitted early December - Task 1.6 – 10Dec15: REScoop conference at COP21 in Paris; others events participated with visibility for MECISE
2	WP2	- Task 2.1 – The project partners develop their RES and EE projects. BELGIUM: Courant d'Air and Ecopower won a tender for developing a wind farm in East Belgium. The communities of Amel and Büllingen will participate for 50% in the ownership. This will be the first windfarm in Belgium jointly owned by energy cooperatives and local authorities. Studies for the licensing proces were contracted UK Abrupt changes in project development due to upcoming changes in legal framework (cuts in FITs – Feed Inn Tariffs, reduction of tax reliefs related to investments in RES). Some projects were shelved. Share offers launched resulted in raising over 10 million GBP. SPAIN – Som Energia's action "Generation kWh" allowed to finance with 100% equity an investment in a 2 MW ground mounted PV installation in Sevilla. Building is completed, operation as soon as grid connection is working. - Task 2.2 & 2.3 – EE investments Ecopower, city Eeklo, renovation boiler house municipal building, existing TPF contract adapted to include the additional investment. -
3	WP3	Further development of the planned "Sustainable Energy Facilitation Service" for citizens member of Ecopower. - .Contractual arrangements with a local service provider (Paddebroek vzw) to start the service in the municipalities Asse and Beersel (West of Brussels, region "Pajottenland"). - Recruitement by the service provider of an experienced energy advisor for private houses as "energy facilitator". Selection in collaboration with Ecopower.

#	WP	Key achievements and progress
4	WP4	- Task 4.1 – Detailed review of Energie Partagée in France took place during the last months of 2015. Energie Partagée was created in France by Enercoop and the ethical cooperative bank La Nef as a fund that would allow citizens all over France to invest in renewable energy projects. Energie Partagée is operational over 5 years now and about 8 MEUR of private equity has been collected. The fund can take a participation in renewable energy investements of Enercoop and other developers according to a, quite complex, set of rules and criteria. Amongst others the participation of the fund in concrete investment projects can only be partial and maximum 50%. - The reality of the past years is that Energy Partagée did not allow a significant acceleration of the pace of renewable energy investments of Enercoop. The main reasons for this are related to the situation for renewables in the French context, which is generally unfavourable. Result is that return on investment for citizens participating in the fund is zero the first 5 years. Against this financial back drop the involvement of Enercoop can only convince a very limited number of citizens to invest in the fund. Thus it became obvious that the fund Energie Partagée, as a "financing facilitation tool" for Enercoop did not perform as was hoped in mobilizing French citizens to invest in renewables "en masse". - Reflection on possibilities of transposing the example of Energy Partagée to the European level. The complexity of setting up and running a comparable fund on EU level appeared to be a major obstacle. In addition it was considered not realistic that many EU citizens would participate in fund in another member state, keeping in mind the very limited popularity of Energy Partagée in France alone. - The option "EU REScoop fund" and the above findings were discussed with all partners during the project meeting in Paris in December 2015. As a result we concluded that a EU REScoop fund comparable to Energie Partagée in France would not be an appropriate route to explore further. - However, exploring the possibilities of a fund on EU level, totally apart from the French example, would need external expertise. REScoop.eu and Enercoop decided to draft a tender document in order to select a financial consultant as subcontractor. The tender will ask for assistance for exploring not only the route of a EU REScoop fund, but at the same time investigating the alternative route of a "financial facilitation service" for REScoops (D4.2) and other possible alternatives. - Regarding project Krammer (developing a 105 MW wind project on a dike in the South of the Netherlands): the management of the SPV created for this project informed us that they have signed contracts with a major wind turbine manufacturer that, in return for the supply of all equipment, will participate financially for over 50% and will secure the remaining bank financing for the project as a whole. Financial participation of other European REScoops is no longer taken into consideration.

#	WP	Key achievements and progress
5	WP5	- Task 5.1 – Ongoing collection of data on project development under r WP2 and WP3. Publishing of list of RES projects under development (site, type of RES, installed capacity foreseen). -
6	WP6	- Task 6.2 – Launching of the new website of REScoop.eu in February 2016 with more details on MECISE - https://rescoop.eu/european-project/rescoop-mecise - Task 6.3 – REScoop MECISE logo developped in line with to the visual identity of REScoop. manual (D6.3). Production of the project brochure and project roll-ups (D6.4). - Task 6.4 – REScoop.eu will organise the final seminar in Brussels (D6.6). In close collaboration with Enercoop, a high level international REScoop seminar took place during the COP21 in Paris (Thursday 10 December 2015, see http://www.enercoop.fr/evenements/conference-sur-la-democratie-energetique; https://ec.europa.eu/easme/en/news/cop21-solutions-empowering-citizens-participation-energy-democracy) The importance of setting up collaboration between REScoops and local authorities for mobilising investments in sustainable energy was highlighted by several international panelists, and in the closing remark by French environment minister Segolène Royale -

16 Milestones

#	Description	Month planned	Month delivered	Explanation in case of delay
MS1	Feasibility study on REScoop financing approach	9	12	**Delivered**: a "European REScoop Fund" similar to Energie Partagée is NOT FEASIBLE/APPROPRIATE Subcontracting an external consultant to explore other financing approaches
MS2	List with planned RES investments (30 million euro)	12	12	**Delivered**: The inception report (D1.1) listed already over 170 MEUR of clearly defined sustainable energy investments. In the past 6 months period wind developments in UK generally came to a halt due to changes in legislation. Although additional developments have started, these are mostly in PV with much smaller investments involved. The total planned investment volume for MECISE as a whole is reduced to approximately 150 EUR
MS3	12 public buildings have been identified for EE measures	12	-	Focus shifted mainly to EE facilitation services for citizens, as local authorities often get assistance from other organisations, in particular as they signed the convenant of mayors
MS4	1.000 citizens signed up for facilitation programme	12	-	Citizens were not yet invited to sign in for the EE facilitation service as long as the concept for a cost covering service, replicable by all REScoops in every member state was not sufficiently developped.
MS5	List with planned RES investments (60 million euro)	24		See inception report (D1.1)
MS6	EE measures package for 6 public buildings fully developed	24	-	-

#	Description	Month planned	Month delivered	Explanation in case of delay
MS7	EE measures package for 500 citizens fully developed	24	-	-

17 Progress update concerning performance indicators

17.1 Investments

#	Category of investments	Initial amount in €	Amount already signed	Amount still expected to be signed	Explanations in case of major variations
1	RES Power generation	137.780.000	8.566.000	129.214.000	
2	RES Heat generation	785.000	10.000	775.000	
3	EE in buildings – public - private	31.985.000	85.000	11.900.000	Uncertainty about feasibility of realisation of district heat network in Eeklo within the timeframe of the project
4	Retail energy market infrastructure	0	0		
	Total amounts	**170.550.000**	**8.661.000**	**141.175.000**	

17.2 Energy impacts

#	Type of impact	Initial	Revised	Explanations in case of major variations
1	Avoided GHG emissions (tCO2e/year)	101.118 *	-	These numbers are based on the projects described in the Inception Report (D1.3).
2	Primary energy savings (MWh/year)	16.000	-	
3	Renewable energy produced (MWh/year)	180.000	-	

(*) According to the International Energy Agency 1 TOE corresponds to 11.630 kWh. 194.000.000 kWh corresponds to 16.852,97 toe/year. Figure 4 on the website of the European Environment Agency clearly shows that the average CO2 intensity of the EU Member States represented in the consortium are 6 tonnes per toe. Based on the renewable energy performance of 16.852,97 toe/year we plan to save 101.118 tCO2e/year.

17.3 Employment creation

Recrutement of an “Energy Facilitator” for the Sustainable Energy Facilitation Service set up under WP3.

18 Evolutions in the schedule of activities

The schedule of the activities have not changed compared to Annex I of the grant agreement

6-monthly
Performance Monitoring Update

PERIOD 1

Project acronym and contract number:	REScoop MECISE - 649767
Report date:	31/08/2015

19 Key achievements and progress in the past 6 months

#	WP	Key achievements and progress
1	WP1	- Task 1.1 - We submitted the inception report (D1.1) in June 2015. We would now like EASME to evaluate the current status of our projects and formally accept these as eligible for project development assistance. - Task 1.2 - The legal officer of Ecopower is working on the consortium agreement. The agreement will include the relevant ethics requirements that are listed under task 1.3 and section 1.4 of part A of annex I of the grant agreement. We plan to have the consortium agreement duly signed by the end of September 2015. - Task 1.3 - We had two successful project meetings in Aarschot (Belgium) and Edinburgh (Scotland). REScoop.eu wrote a report about these meetings and shared it with the other beneficiaries (D1.2). The third project meeting will be organised in Paris along with COP21. - Task 1.4 – REScoop.eu developed an effective Dropbox structure to share files and documents with the other beneficiaries. Email, telephone and Skype allow us to stay in contact with each other. We also developed a project planning to closely monitor and evaluate our progress on specific tasks, deliverables and targets. The project planning is available on Dropbox and can be consulted by all the beneficiaries. REScoop.eu also developed a template for the project deliverables. We will keep submitting 6-monhtly progress reports (D1.3). The final report will be submitted by the end of the project duration (D1.4). - Task 1.5 – REScoop.eu developed a timesheet template to record our time working on REScoop MECISE. Each partner has its own template. Once a month the partners are invited to update their timesheets on Dropbox. Every three months they are invited to send their timesheets and financial statements to REScoop.eu for a general check-up. - Task 1.6 – On 28 April 2015 Ecopower and REScoop.eu participated to the public workshop on innovative financing for energy efficiency and renewables. On 21 June 2015 REScoop.eu participated to the coordinator's meeting for EUSEW 2015. We will participate to the Information Day on 21 September 2015 where the new work programme of Horizon 2020 will be presented. We also stay available to contribute to other information and dissemination activities upon request by EASME.

#	WP	Key achievements and progress
2	WP2	- Task 2.1 – The project partners are working on their particular RES and EE projects. As explained in the inception report (D1.1) these projects are in all in a different stage of development. None of these projects is already in a stage where we are looking for ways of financing. - Task 2.2 – The beneficiaries will compose investment schemes with a sound balance between RES and EE investments. - Task 2.4 – The beneficiaries will set up collaboration models between citizens, REScoops and local authorities. - The tasks mentioned above will result in RES (D2.1) and EE investments (D2.2). By means of a google spreadsheet the coordinator will stay informed about the progress of these projects. At the end of the project we will provide a summary of all the investments made during the project duration (D2.4). Our experiences will finally result in a framework for the development of RES and EE projects between REScoops and local authorities (D2.3).

#	WP	Key achievements and progress
3	WP3	- Task 3.1 – Ecopower informed its members to take action on EE at the general assembly in April 2016. The reactions were quite positive. In January 2016 three local authorities will announce the opportunity for local citizens to take action on energy efficiency in their private houses in collaboration with Ecopower. We are talking about 100.000 potential participants. - Task 3.2 – Ecopower already developed a profound business model for the energy renovations in the houses of the members. Ecopower is now looking for collaboration with other REScoops and local contractors. Ecopower expects to start screening the individual needs of the members in 2016. - Task 3.3 – After screening the individual demands, Ecopower will elaborate the technical requirements and investments needed to increase the overall energy efficiency of their private houses. - Task 3.4 – The technical requirements will be presented to the members. They will get a list with the appropriate energy efficiency measures for their particular situation. The members will then sign a contract with Ecopower to engage either Ecopower or an external contractor who meets our quality standards. - Task 3.5 – Ecopower will follow up the investments and provide members with further assistance. Our ambition was to support a total of 1.000 Belgian citizens and have them signed up for the investment programme, corresponding to 10 million euro investments in energy efficiency and renewable energy. We expected that the energy savings would correspond to 10 GWh/year (D3.1). Using the examples of Pajopower and Energent we now realise that these targets might have been too ambitious. We now consider it realistic to support and assist 300 (rather than 1.000) members, corresponding to a total investment of 3 (rather than 10) million euro and resulting in an overall energy saving of 3 (rather than 10) GWh/year. - Task 3.6 – Ecopower will monitor the energy savings through an online platform called "energieID". Ecopower is one of the founding fathers of this data monitoring tool. The past few months we spent a lot of time to get the platform fully operational and to promote it among the members. Today about 3.000 members of Ecopower are using the tool to follow up their daily energy consumption. - Task 3.7 – REScoop.eu will publish relevant information and know-how related to energy efficiency measures in private houses on its website (D3.2). This information will include standardised approaches to enhance replication (D3.3).

#	WP	Key achievements and progress
4	WP4	- Task 4.1 - Ecopower and REScoop.eu had a first meeting to discuss the role of the subcontractor who will make the feasibility study. In the upcoming weeks we will share our thoughts and ideas with Enercoop. The next step will be to write the terms of reference. The outcome of the feasibility study (D4.1) will lead to one valuable option, a route which we will follow in the upcoming years. This means that after executing task 4.1 we will either proceed with task 4.2, with task 4.3 (or another task 4.4). - Task 4.2 – So far we have not yet taken any actions to define the set-up and further elaboration of a REScoop fund (D4.2). - Task 4.3 – So far we have not yet taken any actions to define the set-up and further elaboration of a financial facilitation service for REScoops (D4.2). - In June REScoop.eu and Ecopower had an interesting meeting with the president of Credit Coopératif to discuss the possibility of setting up a revolving fund with the European REScoops. - On April 28 REScoop.eu participated to the public workshop on innovative financing for energy efficiency and renewables organised by ManagEnergy. - Krammer B.V. is developing a 105 MW wind project on a dike in the Netherlands. The management is now looking for proper financing. REScoop.eu and Ecopower had a meeting with the management and suggested to take a financial participation with the European REScoops.
5	WP5	- Task 5.1 - Based on the inception report (D1.1) REScoop.eu developed a google spreadsheet to closely follow up on the RES and EE investments developed under WP2 and WP3. On the website REScoop.eu will soon publish a short description of the projects, including their names, locations, project category, financing mechanism and potential for replication. Every two months the beneficiaries will be invited to give an update about the progress of their projects which will then serve as a tool to update the website (D5.1) and to write the progress reports (D1.3). - Task 5.2 - The google spreadsheet will also allow REScoop.eu to gather aggregated data about the projects comparable to table 2.1a on page 13 of annex I to the grant agreement – part B. Data will include location, type of investment, description of the investment, quantification, surface, energy consumption, energy saving, energy production, payback period, investment. At the end of the project we will make both a quantitative (D5.2) and a qualitative evaluation (D5.3).

#	WP	Key achievements and progress
6	WP6	- Task 6.1 - REScoop.eu already worked on a first draft of the communication plan and the dissemination strategy. The plan will be finalised in the upcoming weeks (D6.1). - Task 6.2 – REScoop.eu circulated the terms of reference to update the project website (D6.2) and selected three outstanding web developers. We planned our first meeting on 17 September 2015. We hope to launch the new website before the end of the year. In the meantime we already included a short description on the REScoop MECISE project. REScoop.eu is currently writing the first news alert. In the upcoming months we will engage a video producer to make a video about WP2, WP3 and WP4. REScoop.eu is also quite active on Twitter and Facebook where we share thoughts and interesting articles about RES and EE. - Task 6.3 – REScoop.eu engaged a designer to develop the REScoop MECISE logo. REScoop is still working on visual identity manual (D6.3). We will soon design a project brochure but already ordered our first project roll-up (D6.4). We think it would be good idea to provide each of the 6 beneficiaries with a roll up for dissemination purposes. REScoop.eu already developed a template for presentations about REScoop MECISE. The template is available for open source software and Microsoft. In June 2015 REScoop won the award of "radical innovator of 2015" which caught the attention of the national newspapers in Belgium. In collaboration with Cooperatives Europe – the European branch of the International Cooperative Alliance – REScoop.eu already launched a joint press release on the Summer Energy Package (D6.5). - Task 6.4 – REScoop.eu will organise the final seminar in Brussels (D6.6). In close collaboration with Enercoop, we are planning to set up a REScoop seminar during the COP21 in Paris where we will highlight the importance of setting up a collaboration between REScoops and local authorities on the issue of energy efficiency. - Task 6.5 – REScoop.eu will write the final publishable report (D6.7). - REScoop.eu and Ecopower participated to the European Sustainable Energy Week (EUSEW) in June 2015 and hosted a successful event on financing EE projects in close collaboration with Cooperatives Europe, Community Power, ICLEI, Climate Alliance, Housing Europe, Energy Cities and Eurocoop.

20 Milestones

#	Description	Month planned	Month delivered	Explanation in case of delay
MS1	Feasibility study on REScoop financing approach	9	-	REScoop.eu had to engage its first employees in June 2016 so we have short delay on MS1. REScoop.eu plans to have a meeting with Ecopower and Enercoop in the upcoming months.
MS2	List with planned RES investments (30 million euro)	12	-	We already provided EASME with the inception report (D1.1). The report gives an overview of the current RES and EE projects that the beneficiaries are working on. There is a good chance that we will include new projects throughout the project duration. This also means that we might have to cancel specific projects if we decide not to proceed with these. The progress reports (D1.3) as well as the website (D5.1) will provide EASME with regular updates of the projects.
MS3	12 public buildings have been identified for EE measures	12	-	-
MS4	1.000 citizens signed up for facilitation programme	12	-	-
MS5	List with planned RES investments (60 million euro)	24	2	Inception report (D1.1)
MS6	EE measures package for 6 public buildings fully developed	24	-	-
MS7	EE measures package for 500 citizens fully developed	24	-	-

21 Progress update concerning performance indicators

21.1 Investments

Hereafter you can find a brief description about the various projects that the beneficiaries are working on. At the end of the progress report we also included an overview of the projects similar to the inception report (D1.3).

3.1.1 Ecopower

Ecopower is developing renewable energy and energy efficiency projects. Ecopower is mainly developing local wind projects in Flanders, although there are also working on a biomass driven wood boiler for heating public buildings. Beside that Ecopower is elaborating a procedure to help both members and local authorities to take energy efficiency measures in their houses and public buildings.

Ecopower is developing a 8 x 3MW wind farm in Mol in the province of Antwerp. There is still an appeal against the permits.

Ecopower is developing a 3 x 2MW wind turbine in Bilzen in the province of Limburg. They already obtained a construction permit but there is an appeal against the environmental license. They are also talking to another private developer to see if they can be bought out of this wind project.

Ecopower is working on a 3 x 2MW wind project in Sint-Truiden in the province of Limburg. Unfortunately there is still an appeal against both the construction permit and the environmental license.

Ecopower requested a construction permit and an environmental license for the construction of 3 x 3MW wind turbines in Ranst, close to Antwerp. For the construction of another 3 x 3 MW wind turbines in Rumst they are still waiting for a positive advise from Belgocontrol, the official public institution in charge of air traffic safety in the Belgian airspace.

In Schoten, close to Antwerp, Ecopower came to a common understanding with the local municipality to erect 3 x 2MW wind turbines. Everything is set to request the first permits in 2016.

Ecopower wants to develop another wind project in Eeklo. The project is only in the first stage of development.

Ecopower is also developing a 3 x 2MW wind project in Malle, close to Antwerp. They are now waiting for an answer from the regional town planning official waiting to see if the project can be supported.

Ecopower is looking into the opportunity of erecting 3 x 2MW wind turbines in Mechelen in the province of Antwerp. The project is only in a start-up phase.

Ecopower is looking into the investment of a 2 MW wind turbine in Sint-Niklaas. The project is still in a start-up phase.

In August 2015 Ecopower conducted an energy audit which clearly identified the need for another heating system in the public building in Asse. The local municipality will probably install a boiler using wood waste. Financing schemes are now being analysed. The boiler won't be installed until 2016.

Ecopower is looking into the opportunity of taking energy efficiency measures in public buildings. The first negotiations with various local municipalities in Flanders are promising and ongoing.

Using Pajopower and EnerGent as an example Ecopower is elaborating a decent business model to help its members to take energy efficiency measures in their private houses. Ecopower is also negotiating with energy experts and contractors who can then execute the work.

The city of Eeklo in the province of East Flanders signed the Covenant of Mayors and recently launched a public tender procedure to set up a local district heating network that uses dump heat of a municipal solid waste incineration plant. In close collaboration with a private partner and a Flemish DSO Ecopower has signed a letter of intent to make an IRR analysis and to do the investment if the project turns out profitable.

3.1.2 Courant d'Air

Courant d'Air is working on RES projects, heat projects and EE projects.

The RES projects compose of three wind projects, 1 biomass project and 1 PV project.

The first wind project is located in Burg-Reuland and composes of 6 x 3 MW wind turbines. 2 wind turbines will be owned by a private developer, another 2 wind turbines will be owned by the local municipality and finally 2 wind turbines will be owned by the local REScoop (Courant d' Air). Courant d'Air already informed the local community about the benefits of the project. So far they circulated 2 leaflets in every house of Burg-Reuland and they gave 6 presentations (1 for the city council, 3 for local organisations and 2 for local citizens). Courant d'Air also mobilized their members to get positive statements as an answer to local opponents. So far there are 1.660 letters against the project and only 615 letters in favour of the project. This influenced of course the negative statement of the city council. There are also some constraints regarding the presence of a local bird, the "red kite". About 20 local authorities have now been invited to give their opinion about the project. The decision will be taken in November 2015.

The second wind project is located in Sankt-Vith and Malmedy. It's a 5 - 7 x 3 MW wind project which has been developed by NPG Energy. The guidelines for wind energy projects in Wallonia reserve a participation for local authorities and citizens for at least 24.99%. Courant d'Air wants to ensure the citizen participation in this project. The two local municipalities have already recognized Courant d'Air as a formal partner. The first meeting with NPG Energy is planned for August 2015. Requests for permits will only be submitted in 2017.

The third wind project is located in Amel and Büllingen where the local municipalities launched a public tender to erect wind turbines on their grounds. Courant d'Air will announce its interest to ensure the participation of local citizens. The entire project is 5 - 7 x 3 MW. Courant d'Air might take a participation of 1 – 2 x 3 MW. Permits will only be requested in 2017.

Courant d'Air is also working on a 10 kW solar project in Bütgenbach - Elsenborn. The solar installation will be installed on the village hall. The latter is owned by the association of local clubs. There is also potential to collaborate with other local (non-profit) organisations that own buildings.

Unfortunately the injection of biogas is still non-existing in Wallonia, the French speaking part of Belgium. Therefor the Walloon government decided to finance 3 pilot projects. Courant d'Air is working on one of them. In collaboration with Mobilae, Courant d'Air is working on a biomass project where slurry and grass will produce 5.500 MWh biogas per year. The feasibility study is now being evaluated by the government. Their decision will be available in January 2016. After that it's time to make an impact study for the environment and to apply for the permits. The construction permit won't be expected until January 2017.

Courant d'Air is also making a technical analysis for the district heating network in Bütgenbach - Elsenborn. Wood pellets would produce enough energy to heat 3 public buildings. The collaboration between Courant d'Air and the local municipality still needs to be discussed.

Finally Courant d'Air is also working on energy efficiency. They invited the local municipality of Waimes (where they already erected 2 wind turbines) to set up a collaboration. Courant d'Air offers the local municipality the opportunity to monitor the current energy consumption of 15 public buildings (local schools) and to make a technical and financial feasibility study for potential EE investments. Courant d'Air will list the potential measures including their price and priority. The current energy consumption will be monitored, using smart meters, an online platform and sensors to measure potential loss of heat. One of the ideas is to replace the old light bulbs by LED technology. Courant d'Air could do the investment and the local municipality would pay for these services (third party financing). The local municipality (Waimes) is now working on a sustainable energy action plan and wants to sign the Covenant of Mayors.

3.1.3 Enercoop

Enercoop is working on 7 projects: 2 wind projects, 4 PV projects and 1 biogas project.

The first wind project is situated in St. Julien Labrouse (Region Rhône-Alpes). The project is supported by the local municipality. It's a project of 2 second hand wind turbines of 500 kW. In June 2015 the local group (Enercoop Rhône-Alpes) submitted the construction permit.

The second wind project is situated in Tapies (Region Languedoc-Roussillon). The project has been developed by local farmers in close collaboration with Enercoop Languedoc-Roussillon. It's a project of 4 wind turbines of 900 kW. Enercoop already obtained a construction permit, but three of these permits are under appeal by local opponents.

The first PV project is called Metro Soleil in Grenoble (Region Rhône-Alpes). The project is developed by Enercoop Rhône-Alpes in close collaboration with the city council of Grenoble, local citizens and local landlords. Enercoop wants to install a 9 kW solar installation on the roof of 100 buildings. They are now looking for roof tops so the project is still in an early stage of development. Citizens will be able to participate. They can buy a share in the local REScoop and buy the electricity from Enercoop. At the end of the year they might also receive a dividend as financial return on their investment. The energy that results from the solar panels will be sold to EDF (there is no other way for producers if they want to benefit from the local feed-in-tariff). The electricity will then be bought back from EDF to supply it to the customers.

The second PV project is called Lums de Larzac and is situated in the region Midi-Pyrénées. The local community there founded a collective management company and chose Enercoop Midi-Pyrénées to support the development of the project. They will also buy a part of the production to supply it their customers. They plan to install a 9 kW solar installations on the roof of 18 houses and a 100 kW installation on top of a local warehouse. The collective management company (Société Civile des Terres du Larzac) and Enercoop Midi-Pyrénées are now conducting a technical and economic feasibility study.

The third PV project is a 250 kW solar installation on the grounds of an old dump site (rehabilitation project) in the region Languedoc-Roussillon. The project has been developed by a group of local citizens (Les Survoltés d'Aubais) with the support of Enercoop Languedoc-Roussillon. Enercoop will buy the electricity directly from the project. This implies that Enercoop won't sell to EDF first and that they won't receive the feed-in-tariff. They have submitted the authorization for exploitation and are now in dialogue with the local municipality about the land rights.

The fourth solar project is situated in St. Sebastien d' Aigrefeuille. The project has been developed by a local developer (VOL-V Solar) in close collaboration with a local group of citizens (Soleil de Plomb). Enercoop is helping the local citizens. It's a 2 MW solar project on the ground of an old dump store (rehabilitation project). There is now an ongoing tender process to get access to the feed-in-tariff and them looking for proper financing.

The biogas project is situated in Cètres (Region Midi-Pyrénées). The project was developed by 25 local farmers, the local municipality and Enercoop Midi-Pyrénées. The 250 kW biogas plant will produce both electricity and heat. The heat will then be used to dry wood and to heat houses. They are now making a feasibility study.

3.1.4 Som Energia

Last month Som Energia launched the Generation kWh as an answer to the lack of support for renewable energy production in Spain. Members of Som Energia are invited to provide the cooperative with a zero interest loan for 25 years. This loan then allows Som Energia to invest in RES installations. The loan (1 share = 100 euro) gives the members the right to consume renewable energy at cost price for a period of 25 years. The RES projects are solar, wind and small hydro power installations. Som Energia already raised 600.000 euro and aims for 1.000.000 euro by the end of July. The members who participate in Generation kWh will pay 0,01 euro/kWh less for their energy than regular members of Som Energia.

The first project is located in Alcolea del Rio, Sevilla. It's a 2.160 kW peak PV installation which will produce electricity for 1.300 houses. The production cost will be 0,035 euro/kWh. That's the amount that participants of Generation kWh will pay. Regular members of Som Energia will pay 0,045 euro/kWh.

The second project is called "Viure Air Cel" and is located in Pujalt (Anoia in the province of Barcelona). It's a 2,7 MW wind project. It's Eolpop SL who will responsible for the promotion and realization of the project. Som Energia will finance 50% of the project which corresponds to 1,8 million euro. The production cost will be 0,044 euro/kWh.

The third project is a small scale hydro power project close to Toledo. It's a 500 kW installation which corresponds to an investment of 2,2 million euro. The production costs will be 0,035 euro/kWh.

3.1.5 Energy4All

Energy4All is a REScoop that develops wind farms in the UK and set up cooperatives in the local communities to finance these wind turbines. Energy4All provides services to the co-ops: they facilitate the fund raising, take care of administration, organise meetings and assemblies, etc.

High Winds is a 2 x 2,3 MW cooperative wind project in the UK. The project is now in stage 4 but we don't see why EASME was critical about accepting this project for REScoop MECISE. High Winds still needed proper financing to make the investment. The operation costs are 5,8 million GBP (8,2 million euro) and so far the cooperative raised 3,9 million GBP (5,5 million euro) of equity from local citizens. The balance will be a loan which is to be commissioned by March 2015.

Four Winds is a 2 x 500 kW cooperative wind project in the UK. The cooperative already raised 3,45 million GBP (4,9 million euro). Another part results from a small social loan. The project is now in stage 3 of development. 1 wind turbine is under appeal for amenity. This means that the reason for the appeal is that erecting a wind turbine might affect and change the current environment. The other wind turbine is in planning stage.

Cnoc Morail is a 5 x 2,3 MW wind farm where the local cooperative will own 1 installation. The project is still in stage 1 of development. The private developer is in discussion with the local community on asset ownership and there are some issues about the grid connection.

Lark Energy – Solar Farm are 3 shared ownership projects for solar energy (12.9 MW). It's currently quite in this project but discussions are ongoing.

Solar Farms – These projects are all in stage 2 of development and they have all been accredited. This means that they have to be built by June 2016.

Retail Chain is a 1.5 MW roof mounted solar project on 25 stores. Energy4all will launch a 2 million GBP (2,8 million euro) share offer.

Edinburgh Solar is a 1.8 MW roof mounted solar project on 25 roofs. Energy4all will launch a 2 million GBP (2,8 million euro) share offer in September 2015. Local citizens are invited to join the coop by providing a loan. The revenues will be used to cover the costs, repay the loan. The rest will be transferred to the community benefit fund. Johanna Carrie explained that the community benefit fund will then be used to tackle fuel poverty and to educate people and communities about renewable energy issues.

Rumbling Bridge is a 1.8 MW hydro power project in stage 3 of development. The project was initially developed by a local developer using the CARES fund. The project will be transferred into a Bencom (an organisation that benefits the community) to raise capital. The share offer will be launched in September 2015.

21.2 Energy impacts

#	Type of impact	Initial	Revised	Explanations in case of major variations
1	Avoided GHG emissions (tCO2e/year)	101.118 *	-	These numbers are based on the projects described in the Inception Report (D1.3). The report gives an overview of the current RES and EE projects that the beneficiaries are working on. There is a good chance that we will include new projects along the road. This also means that we might have to cancel specific projects if we decide not to proceed with them. Both will have an impact on the targets regarding avoided GHG emissions, primary energy savings and renewable energy produced.
2	Primary energy savings (MWh/year)	16.000	-	
3	Renewable energy produced (MWh/year)	180.000	-	

(*) According to the International Energy Agency 1 TOE corresponds to 11.630 kWh. 194.000.000 kWh corresponds to 16.852,97 toe/year. Figure 4 on the website of the European Environment Agency clearly shows that the average CO2 intensity of the EU Member States represented in the consortium are 6 tonnes per toe. Based on the renewable energy performance of 16.852,97 toe/year we plan to save 101.118 tCO2e/year.

21.3 Employment creation

At this stage it is too early to say much about potential employment creation.

22 Evolutions in the schedule of activities

The schedule of the activities have not changed compared to Annex I of the grant agreement.

Annex I – Updated list of investments (based on the Inception Report)

Partner	Location	Country	RES type
Courant d'Air	Sankt-Vith & Malmedy	Belgium	Wind
Courant d'Air	Amel & Büllingen	Belgium	Wind
Courant d'Air	Burg-Rueland	Belgium	Wind
Courant d'Air	Trois-Ponts	Belgium	Wind
Courant d'Air	Elsenborn	Belgium	Solar
Courant d'Air	Elsenborn	Belgium	Biomass
Courant d'Air	Waimes	Belgium	EE measures
Courant d'Air	Wallonia - Belgium	Belgium	EE measures
Ecopower	Mol	Belgium	Wind
Ecopower	Bilzen	Belgium	Wind
Ecopower	Sint-Truiden	Belgium	Wind
Ecopower	AWW	Belgium	Wind
Ecopower	Schoten	Belgium	Wind
Ecopower	Eeklo	Belgium	Wind
Ecopower	Malle	Belgium	Wind
Ecopower	Mechelen	Belgium	Wind
Ecopower	Sint-Niklaas	Belgium	Wind
Ecopower	Asse	Belgium	Biomass
Ecopower	Flanders	Belgium	EE measures
Ecopower	Flanders	Belgium	EE measures
Ecopower	Eeklo	Belgium	Recovery of waste heat
Enercoop	St Julien Labrousse	France	Wind
Enercoop	Tapies	France	Wind
Enercoop	Grenoble	France	Solar
Enercoop	Lums de Larzac	France	Solar
Enercoop	Aubais	France	Solar
Enercoop	Saint Sebastien d'Aigrefeuille	France	Solar
Enercoop	Centrès	France	Biogas & Cogeneration
Energy4all	Cnoc Morail	United Kingdom	Wind
Energy4all	S Cumbria	United Kingdom	Wind
Energy4all	Yorkshire Main, South Yorks	United Kingdom	Wind
Energy4all	Rical, West Yorks	United Kingdom	Wind
Energy4all	Brafield, Northants	United Kingdom	Solar
Energy4all	Sywell, Northants	United Kingdom	Solar
Energy4all	Barnby Moor, Notts	United Kingdom	Solar
Energy4all	Lincolnshire, Kent, Somerset, Wiltshire, Wales	United Kingdom	Solar
Energy4all	Various locations	United Kingdom	Solar
Energy4all	Edinburgh	United Kingdom	Solar

Energy4all	Reading University	United Kingdom	Solar
Energy4all	Various locations	United Kingdom	Solar
Energy4all	Rumbling Bridge	United Kingdom	Hydro
Som Energia	Pujalt (Barcelona Province)	Spain	Wind
Som Energia	Alcolea del Río (Sevilla Province)	Spain	Solar
Som Energia	Alfarràs (Lleida Province)	Spain	Hydro
Som Energia	Toledo (Madrid Province)	Spain	Hydro