



## **WP T3 | ACTIVITY T3.1 | DELIVERABLE T3.1.1**

### **STAKEHOLDER MEETINGS**

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PARTNER RESPONSIBLE: MUNICIPALITY OF APELDOORN

27-12-2018

**Project number:** NWE 588

**Project acronym:** cVPP

**Project full title:** Community-based Virtual Power Plant (cVPP): a novel model of radical decarbonisation based on empowerment of low-carbon community driven energy initiatives

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**WP Leader:** Municipality of Apeldoorn (GA)

**Partners involved:** Eindhoven University of Technology (TU/e), Tipperary Energy Agency (TEA), Foundation Sustainable Projects Loenen (DPL), EnerGent, Municipality of Apeldoorn (GA), Kamp C, Templeberry Renewable energy Supply Limited. T/A Community Renewable energy supply (CRES)

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# 1 INTRODUCTION

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This WP will contribute to sub-objectives Replication of cVPP and MoRe development. It will prepare ground for replication by empowering existing (leading) and stimulating new (follower) low-carbon communities. By the end of the project a minimum of 9 communities will be ready by means of (social) infrastructure and investment to replicate a cVPP and will provide a realisation plan visualising further short and intermediate term steps needed to replicate a cVPP in context. Their experience will have contributed to the MoRe model.

To achieve this, based on stakeholder meetings suitable communities (3 in IR, BE and NL) are being selected by the Replicating Partners (RPs) They will be engaged in communities building processes by using specific action plans. Communities building will comprise of informative meetings to motivate and empower the citizens. Implementing Partners (IPs) will contribute their experience and expertise to the meetings. Furthermore, a competition will be organised to challenge participants to propose a design for (part of) their cVPP. Best proposal per community will be rewarded with a voucher, which will be used to further develop the proposal. The community building process will be concluded by signing of Letters of Intent (LoI) and thus confirming commitment to realising a cVPP and participation in MoRe testing. Afterwards, communities supported by RPs and IPs will create realisation plans for implementing a cVPP during or after project completion. Proposals generated during the competition the revised MoRe model, enriched with context specific lessons from cVPP realisation by 3 IPs, are the basis for creating these plans.

The MoRe team is participating in this WP to learn from the replication process. As baseline and context of communities varies, WP Replication will provide insights into how to implement a cVPP in diverse communities and contexts. Replicating communities will test the enriched model and deliver feedback on the use of the model in interactive sessions. Feedback will be brought together in a comprehensive assessment of the model and will be used by the MoRe team to finalise the model.

## 1.1 MAIN OUTPUTS

Replication of cVPP's by follower communities in partner territories is the third sub-objective of cVPP project. Realisation plans for steps towards cVPP implementation in 9 replicating communities will be created by using the MoRe guidelines. Long-term plans and vision will be developed within WP LT.

## 1.2 TARGET GROUPS

- Local public authority
- Regional public authority
- Infrastructure and (public) service provider
- Interest groups including NGOs
- Other

Target groups are being involved by using the existing network of the replicating partners involved, via associated partners and by organising broad stakeholder meetings at the start of the activities included in this work package. Broad stakeholder meetings, which include local and regional interest groups and public service providers, are meant to identify potential local communities for replication and to form an action plan to motivate, empower and strengthen these communities. Communities where the replication will take place will also have the chance to present themselves to RPs during the stakeholder meetings. Local initiatives will be involved in community meetings to facilitate community building and to educate communities about cVPP, resulting in a competition with the aim to select a realisation plan of a cVPP for each participating community.

## 2 STAKEHOLDER MEETINGS

The first period of WP.T3 was focused on identifying suitable communities which could potentially participate in replication of a cVPP. , In this respect, at least two brainstorm meetings were held per country. This report provides an overview of all stakeholder meetings over the first period. The report will be followed up by deliverable T3.1.2 Community Profiles - describing detailed physical and social characteristics of replicating communities.

All supporting material and documentation in relation to table 1, 2 and 3 is available in project's OneDrive (WP T3 - Replication --> 1. Engaging local stakeholders --> 1.1 Stakeholder meetings --> Cres/Gemeente Apeldoorn/Kamp C --> Proofs Deliverable T3.1.1).

### 2.1 MUNICIPALITY OF APELDOORN

The stakeholder meetings were aimed at locating three best communities within the municipality of Apeldoorn and to inform key organisations about cVPP concept. Five meetings with different stakeholders were held – e.g. local energy initiatives, neighbourhood residents and community level energy consultants. The stakeholder meetings resulted in choosing three most promising communities/neighbourhoods in Apeldoorn. The general feedback was positive and questions were asked with regard to viability of a cVPP in current market conditions.

Table 1: Stakeholder meetings organised by Municipality of Apeldoorn

date	WP Replication	target group	value	type	proof
20/02/2018	Kick-off meeting cVPP	<b>Various stakeholders involved</b>	10	Discussion & Presentation	Notes & Presentation
	The goal of this meeting was to connect various stakeholders. This includes the Municipality of Apeldoorn, Loenen, local energy corporations and community energy consultants.				
7/03/2018	Marjolein Tillema	<b>Community energy consultant</b>	1	Discussion	Notes
	The aim of the meeting was to explore the options in several communities within Apeldoorn. Marjolein Tillema is a resident of one of the neighbourhoods as well as an energy consultant.				
23/03/2018	Energiefabriek	<b>Local initiative</b>	3	Discussion	Notes
	Discussion with three people from the Energiefabriek, a local energy initiative. Main discussion points were aimed at how to connect the municipality with citizens and other organisations.				

<b>4/04/2018</b>	BLOEM	<b>Local Initiative</b>	1	Discussion	Notes
	BLOEM is a community initiative aimed to turn three districts into energy neutral. This meeting was aimed to analyse the viability of these districts for cVPP.				
<b>19/09/2018</b>	Energiecafé	<b>Energy Coaches (voluntary) and community energy consultants</b>	12	Presentation	Pictures & Powerpoint
	A meeting with community energy consultants and energy coaches. It includes a presentation on the generic idea of a cVPP.				

## 2.2 KAMP C

It was both a challenging and exciting start for Kamp C in the Province of Antwerp. More stakeholders meetings were necessary in order to be certain of achieving our target 3 cVPP communities. We have chosen to thoroughly 'plow the field' in Belgium in order for our cVPP seeds to grow.

Kamp C has held many meetings in the Province of Antwerp, with stakeholders such as: the municipalities of Duffel, Lier and Lint, many Sustainability civil servants from different municipalities, 3 energy co-ops (ZuidtrAnt, Zonnewind, Campina), several transition groups (Translab K, Samenlevingsopbouw, Flux50, etc...), POM (a provincial development society) and many more. We are continuing in our effort to reach as many stakeholders as possible and involve them in the cVPP . See full list below.

Table 2: Stakeholder meetings organised by Kamp C

date	WP Replication	target group	value	type	proof
<b>22/01/2018</b>	Exchanging ideas with Kris Mees & Britt Mertens from the Regional Workgroup Province of Antwerp <b>(Kamp C-Westerlo)</b>	<b>municipality</b>	1	discussion	notes   photo
	Discussion providing a good starting overview of stakeholders within the province of Antwerp and insights in regards to policy. How can local stakeholders be brought together (local authorities, cooperatives, interest groups, regional organizations, ...) to work in identifying communities for the replication process to form a cVPP.				
<b>31/01/2018</b>	Exchanging ideas with POM, a provincial development society <b>(Kamp C - Westerlo)</b>	<b>provincial development agency</b>	1	discussion	attendance list   notes

	Are business parks, in conjunction with a residential area, suitable as a location for a cVPP? Conclusion, it is too difficult to start with this target group at the moment, but they want to be informed during later stages of the project.				
<b>13/03/2018</b>	Presentation at 'Climate Consultation' Province of Antwerp for sustainability civil servants ( <b>Antwerpen</b> )	<b>municipality representatives</b>	30	Presentation & discussion	attendance list
	With an informative but also inspirational presentation and brainstorming session, Kamp C reached at least 30 sustainability public servants from different municipalities and inspired and encouraged at least 5 of them to commit to engage their communities by identifying suitable neighbourhoods within their communities and using their influence to engage them. Their input will be followed up.				
<b>22/02/2018</b>	Meeting with IGEMO, the intermunicipal authority of the region of Mechelen: Role as associated-partner ( <b>Mechelen</b> )	<b>regional inter-municipal authority</b>	x	discussion	attendance list   notes
	The purpose of this meeting was to identify communities for a cVPP in the IGEMO region (Mechelen) with input from the policy, from citizens themselves and from the community. As a conclusion of this exchange IGEMO suggested that the Municipality of Duffel is the most suitable and interested municipality for cVPP, possibly taking part with their schools projects.				
<b>19/04/2018</b>	Exploring possibilities with the Municipality of Duffel & IGEMO ( <b>Duffel</b> )	<b>municipality</b>	1	Presentation & discussion	agenda & twitter post   PP presentation
	Conclusion of the meeting: Duffel expressed interest to be involved as a municipality itself or as a district with a good neighbourhood policy. Result further down the line: Duffel has no time at the moment, so close to the elections to be involved in a new project. Kamp C will contact them again in 2019.				
<b>22/05/2018</b>	Exploratory meeting with Leen Smets from Samenlevingsopbouw & Goed Plan ( <b>Kamp C - Westerlo</b> )	<b>civil group for equal rights</b>	1	discussion	attendance list   notes
	The question on the table was, how do we reach the people in poverty to invest in renewable energy and how can we involve them in the project? Potential sought in circular economy involving companies, with municipalities as facilitators.				
<b>28/05/2018</b>	Exploring possibilities with energy cooperative ZuidtrAnt ( <b>Boechout</b> )	<b>energy cooperation</b>	1	discussion	attendance list   notes
	What does ZuidtrAnt do and what are the projects they are working or looking for? Is there a co-creation possible with cVPP? They are interested in the technical know-how. They are also involved with several schools in the south of Antwerp and a project using electrical cars as batteries. Future cooperation is definitely sought.				
<b>29/05/2018</b>	geWOONdoen: Inspiration day for thinkers and doers ( <b>Heist-op-den-Berg</b> )	<b>sustainability civil servants</b>	1	discussion	certificate of participation
	The geWOONtebreker participation methodology (co-development Kamp C) presented to various municipalities interested in influencing and changing the habits and mindset of their citizens. This				

	was a chance to see how different municipalities approach and support the subject of citizens initiatives and informally exhibit and explain the potential of the cVPP concept to interested parties.				
<b>30/05/2018</b>	Translab K (Transition Laboratory Kempen) From fossil to sustainable <b>(Turnhout)</b>	<b>transition groups &amp; NGOs</b>	1	discussion & workshop	confirmation e-mail   notes
	Good examples and networking opportunity. Result/follow-up possibilities with: citizens' organizations Mol, Balen, various representatives from cohousing groups and expert Wouter Cyx, involved in district renovation and how to best involve residents. During the discussion/ideas exchange phase of the evening many contacts were made to be followed-up at a later date.				
<b>6/06/2018</b>	Exploring possibilities with energy cooperative Campina <b>(Turnhout)</b>	<b>energy cooperation</b>	1	discussion	attendance list
	What does Campina do and what are the projects they are working or looking for? Is there a co-creation possible with cVPP? They are interested in the technical know-how and will provide input as experts in the organisation of energy cooperations.				
<b>8/06/2018</b>	Workshop Energieflux presenting cVPP & ideas exchange (StadsLab2050 & Flux50) <b>(Antwerp)</b>	<b>transition group &amp; NGO</b>	2	discussion & workshop	twitter   ideas sheet
	This was a chance to create interest about the cVPP project in the city of Antwerp. It was an important networking chance too, as we came across several interested parties: The neighbourhood transition group of St.Andries, the Housing company of the Port of Antwerp, as well as various representatives from research centres (Energyville, VITO) and representatives of companies involved in the energy transition.				
<b>13/06/2018</b>	Exploring possibilities with energy cooperative Zonnewind <b>(Zandhoven)</b>	<b>energy cooperation</b>	1	discussion	attendance list
	What does Zonnewind do and what are the projects they are working or looking for? Is there a co-creation possible with cVPP? They are interested in the technical know-how. They want to be involved in order to be able to do later steps to create a cVPP.				
<b>26/07/2018</b>	Exploring possibilities with energy cooperative Zonnewind <b>(Zandhoven)</b>	<b>energy cooperation</b>	X	Presentation to the board	attendance list
	As a follow-up to the previous discussion with Zonnewind we presented the cVPP principle to the board. Zonnewind will help us in the future phases by providing access to their citizen's network and stakeholders in the regions they are active.				
<b>26/07/2018</b>	A chance to present the cVPP project to representatives of the municipality of Lier. <b>(Westerlo)</b>	<b>municipality</b>	1	Presentation & discussion	attendance list
	In the small city of Lier there are several cohousing initiatives already being built and some in starting phases of planning. The city of Lier is interested in following the potential of a cVPP in their energy transition plans and in being involved as a facilitator.				

<b>31/07/2018</b>	Exploring possibilities and collaboration with starting energy cooperative Klimaan. <b>(Mechelen)</b>	<b>energy cooperation</b>	1	Presentation & discussion	attendance list
	As a starting cooperative searching for its identity, Klimaan is looking for projects and for ways to involve the public. Is there a co-creation possible with cVPP? They are interested in the technical know-how and the new roles that an energy cooperative can play in the market. Future cooperation is definitely sought.				
<b>21/08/2018</b>	Exploring possibilities and collaboration with IOK, the Intercommunal for the Development of the region Kempen. <b>(Westerlo)</b>	<b>Intercommunal (municipality)</b>	1	Presentation & discussion	attendance list
	IOK has a broad network in the region Kempen and has collaborated in the past closely with Kamp C. Through their Interreg North-Sea Region project 2Impreza they have a large network of schools involved in energy transition actions that they will share with us, so that we can inform them on and engage them in the cVPP project.				
<b>27/08/2018</b>	Energieflux - 2nd co-working day and a chance to exchange ideas with Ecohuis - the 'Kamp C' of the city of Antwerp. <b>(Antwerp)</b>	<b>municipality</b>	1	workshop	e-mail   registration
	This workshop brought Kamp C closer to interested parties of the energy transition and particularly with Ecohuis as a facilitator/link with initiatives from the city of Antwerp. We shared the cVPP concept with several participants, some communicating their interest to be further informed.				
<b>22/08/2018</b>	Possible community in Oud-Berchem neighbourhood. <b>(Antwerp)</b>	<b>citizens' initiative</b>	1	Presentation & discussion	attendance list
	Two citizens from the diverse neighbourhood of Oud-Berchem are interested in forming an initiative and seeking the facilitation of Kamp C to achieve this. They have recently renovated their homes and would like to move towards renewable energy in the difficult setting of a dense city centre. They would like to involve the local cultural centre and church to provide their roof for solar panel, whose energy will be shared within the neighbourhood. Kamp C will be following and facilitating this group.				
<b>04/09/2019</b>	Study day - Collective building and living in Flanders <b>(Gent)</b>	<b>NGO</b>	x	informal discussion	registration   notes
	During this workshop and lecture series, organised by AW (Architectuurwijzer) a cultural organisation focusing on architecture, Kamp C had the chance to learn more about co-housing groups as an interesting and important stakeholder for cVPP. Future follow-up.				
<b>18/09/2018</b>	VEA event: Buy solar panels with your colleagues <b>(Brussels)</b>	<b>interest groups</b>	2	informal discussion	registration   programme

	During this event, organise by VEA (the Flemish Energy Agency) a number of inspirational case studies were shared. Kamp C had the chance to network and inform 2 stakeholders: Zero Emission Solutions and Greenpulse about the cVPP project. Future cooperation follows.				
<b>19/09/2018</b>	Provincial depart. of Housing & Living <b>(Antwerp)</b>	<b>municipality</b>	1	Presentation & discussion	attendance list
	The purpose of this meeting was to inform and influence the head of the department of Housing & Living of the Province of Antwerp to include a participation trajectory for Energy to their current Gewoontenbreker tool. Although they are interested, they did not want to commit to a future cooperation, as they do not believe the need for such a tool. Kamp C will organise this on its own.				
<b>25/09/2018</b>	Meeting Ar-Tur Kempen-Lab / Kamp C / dienst Europa / Samenlevingsopbouw vzw (Antwerpen) <b>(Antwerp)</b>	<b>NGOs: 2 municipality:1</b>	3	Presentation & discussion	attendance list
	Meeting with representatives of a community support non-profit organisation for underprivileged groups, a culture organisation and the department of Europe of the province of Antwerp, to search for ways that a cVPP can offer solutions to energy poverty issues. The city of Turnhout seems to be interested in finding ways to approach energy poverty and Kamp C will follow this route further in the future, adding input from two more organisation pixie and Flux50.				
<b>16/10/2018</b>	Sustainability and climate meeting for the Province of Antwerp <b>(Brecht)</b>	<b>municipality</b>	x	informal discussion	e-mail
	During this event, aimed at sustainability civil servants from different municipalities and organised by the department of Climate of the Province of Antwerp, Kamp C held several informal discussions, especially exchanging ideas with Esther Biermans, the energy agent of the Province of Antwerp, to move towards closer collaboration.				
<b>24/10/2018</b>	Exploring synergies between projects cVPP - DOEN to include warmth networks <b>(Antwerp)</b>	<b>municipality</b>	1	Presentation & discussion	attendance list
	Esther Biermans, the energy agent of the Province of Antwerp via the project DOEN (warmth networks) and Kamp C via the project cVPP are exploring the various areas that these two projects touch and can complement each other. Various ideas and strategies were discussed, opening new areas of interest and new stakeholders for cVPP.				
<b>20/11/2018</b>	Terbekehof project (POM - Condugo) warmth networks <b>(Antwerp)</b>	<b>NGO</b>	1	Presentation & discussion	attendance list
	POM & Condugo (an energy management company) through the facilitation of the energy agent of the Province of Antwerp (see above) presented to Kamp C their project Terbekehof, a consortium of businesses just outside Antwerp involved in the development of type of cVPP (exchanging and storing energy) with warmth networks and solar panels. This could be a possible case-study for cVPP with 'community' taking the form of a business consortium with the potential to involve citizens in future stages. Future collaboration is possible.				
<b>20/11/2018</b>	Samenlevingsopbouw and KampC collaboration talks for cVPP	<b>NGO</b>	x	Presentation & discussion	attendance list

	<b>(Westerlo)</b>				
	Second meeting with representatives of a community support non-profit organisation for underprivileged groups to search for ways that a cVPP can offer solutions to energy poverty issues. The city of Turnhout is interested in finding way to approach energy poverty and Kamp C will follow this route further in the future.				
<b>30/11/2018</b>	Ideas exchange with Samenhuizen vzw – an umbrella organisation of co-housing communities <b>(Westerlo)</b>	<b>NGO</b>	1	Presentation & discussion	attendance list
	Samenhuizen vzw has a very active platform and network, organising events and communicating opportunities with and for their cohousing communities. They were immediately interested in the cVPP potential and have offered suggestions of specific communities to follow up as well as making their network available for communicating over cVPP. This is an important stakeholder for future collaboration and access to already formed communities.				

## 2.3 CRES AND TEA

As a consortium participant in cVPP, CRES and TEA had already identified existing community groups in Ireland who had expressed an interest in the cVPP Interreg project prior to commencement. Hence, the Irish partners are at a different stage of development than other project partners. CRES and TEA's shared experience should help accelerate these partners engagement processes once communities in their jurisdictions have been identified and will also help refine the replication process based on the Irish experience to date.

Several stakeholder meetings have been held in Ireland. The meetings were held to inform the stakeholders about cVPP and CRES involvement in the Interreg project. In total six stakeholder meetings were held and as a result four communities agreed to involvement in the project.

Table 3: Stakeholder meetings organised by CRES/TEA

<b>date</b>	<b>WP Replication</b>	<b>target group</b>	<b>value</b>	<b>type</b>	<b>proof</b>
<b>April</b>	Intro meeting - Presentation	<b>Energy Communities</b>	6	Presentation	Notes and Presentation
	The goal of this meeting was to inform communities about CRES and the role of cVPP in Ireland. To allow communities to ask questions before committing to being involved.				
<b>18<sup>th</sup> May</b>	Key Values for participating communities	<b>Energy Communities</b>	6	Discussion	Sign in sheet
	The goal of this meeting was to identify key values. These values were renewable energy, control, local benefit. From this a structure was drafted.				
<b>28<sup>th</sup> June</b>	Proposed Structure of Community Energy Supply Company	<b>Energy Communities</b>	6	Discussion	Sign in sheet

	Agreement on the name of 'Community Power' was the main topic of discussion. It was agreed that Friends of the Earth would develop a brand concept. A draft structure of Community Power, its possible structure and its relationship with participating communities was presented to the group. Paul, John and Gregg agreed to prepare a 'draft' Memorandum of Understanding (MOU) to be presented to the participating communities for review.				
<b>14<sup>th</sup> August</b>	Community Power Investment Options	<b>Energy Communities</b>	6	Discussion	Sign in sheet
	The communities updated CRES on their work so far with Limerick Co-op feeling they were in a position to sign up to CRES in September. Membership fees and challenges facing businesses who may want to sign up were discussed at length.				
<b>10<sup>th</sup> September</b>	REES and meeting with DCCAE	<b>Energy Communities</b>	6	Discussion	Sign in sheet
	Update from CRES on the appointment of Ultan Technologies for the billing system and delivery timelines. Friends of the earth updated on attendance of three event to promote community power. It was agreed that we approach DCCAE to encourage them to ring fence a small percentage of the overall auction to be held in 2019 for Community projects. Kate (FoE) to lead on this. Following a discussion regarding the MOU all communities agree in principal with the document presented and agreed to move forward on the basis outlined and have it signed off by their community representatives.				
<b>11<sup>th</sup> October</b>	Progress Report and Development Plan	<b>Energy Communities</b>	6	Discussion	Sign in sheet
	There was a discussion about what each community wants and what needs to be done to facilitate that happening. This led to further development of the company structure with customer sign up being the agreed action				

### 3 CONCLUSION

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**GA** is a decently large city in the Netherlands in a more rural region. Many different neighbourhoods have been identified, some of which are clearly ahead of the others in terms of sustainable initiatives. As a result of the stakeholder meetings, three neighbourhoods have been selected, each of them has a community level energy consultant. They will form the connection between the communities/neighbourhoods and the municipality. GA's main challenge is to identify the differences in the neighbourhoods and to find a suitable approach. For now it has been chosen to remain silent on the concept of cVPP and to slowly let the concept of a cVPP and its values grow within a small group of residents in each of the neighbourhoods.

**Kamp C** sees a lot of potential in the Province of Antwerp for new as well as established energy communities wanting to adopt the cVPP concept, but it is clear that they need a strong local support system. This is why we intend to help form a Flemish 'experts and representatives team' consisting of our target groups, that can discuss simultaneously the progress of our Implementation communities and how this affects potential Replication communities. Kamp C will organise a trajectory of Inspirations Days for the next step of deliverables. Implementation Partner EnerGent, as well as other partners, will support us with this approach, as it informs other deliverables and can create significant progress for the Long Term Effects package.

**CRES and TEA** have identified communities willing to participate in dispersed cVPP. These are local energy communities that are established and have already engaged in energy projects with their communities at a local level. With direct access to citizens in their community they can explain the concept of cVPP to relevant stakeholders and encourage engagement and participation locally.

A key outcome of CRES and TEA meetings to date with its dispersed participating communities was to discuss and agree a shared purpose and shared values linked to developing a cVPP in Ireland. This was accomplished by preparing a Memorandum of Understanding (MOU) which was agreed and adopted by each participating community. The MOU has helped to secure buy-in from key influencers within each participating community and will form a central pillar to encourage further community engagement.

The main obstacles faced in developing a dispersed cVPP in Ireland are both legislative and financial issues. The cVPP consortium in Ireland have discussed and identified these core obstacles from a legislative perspective and have taken steps to lobby central government to change the legislation so that real community participation in the energy transition can take place in Ireland. Similarly, the financial challenges faced by communities in 'early stage development' have been identified and the cVPP consortium are lobbying central government to offer financial support to 'de-risk' these aspects of community energy developments by following proven and best practice approaches adopted by other European countries.