

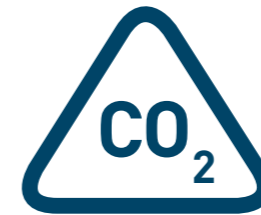




218  
wind turbines



487,100  
families



777,000 tonnes  
avoided CO<sub>2</sub>-emissions/year



560<sub>MW</sub>  
installed capacity



DRIVEN BY WIND, TOGETHER



# FOREWORD

Dear Reader,

We are proud to present this brochure to you. Although we are rather modest by nature, we were - quite frankly - very impressed when these annual results were completed. On the one hand because of the projects which were realised last year, and on the other because of the path we have forged for ourselves since the inception of our company.

We have comfortably surpassed the 200 windmill mark! Thanks to our 218 turbines and our other installations, almost 800,000 fewer tonnes of CO<sub>2</sub> were released into the atmosphere last year. We now produce enough green energy to match the annual consumption needs of almost half a million families in Belgium.

In October 2015, we welcomed 2,200 visitors to our construction site in Bruges, as part of Company Open Day. It was great to see everyone enjoying their visit (for many people especially, stepping into the base of a real wind turbine will remain an unforgettable experience!), and their enthusiasm was infectious.

But the public's significant interest in this event demonstrated above all that there is widespread support for green energy. The numerous conversations we had left us in no doubt: citizens realise that renewable energy is the future, and we all need to undertake joint action on this front.

This burgeoning consensus was apparent at the Climate Conference in Paris last year, but on a worldwide scale. Citizens and politicians are convinced more and more of the urgency of making the step from traditional fossil fuels to sustainable, environmentally friendly energy. And they recognise the importance of specific agreements and measures for the sake of the environment and climate.

Continuing down the path of nuclear energy and re-commissioning nuclear power stations is not the right solution to the problem, in our eyes. It is at odds with our conviction in the importance of renewable energy. We will not solve the energy problem in Belgium by keeping nuclear power stations open for longer, but simply postpone it for another ten years.

A long-term vision for electricity production in our country is therefore vital. Now that the collective consciousness and a sense of responsibility to achieve climate objectives are growing worldwide, we need to make sure that Belgium doesn't fall behind the pack.

Aspiravi already makes a significant contribution towards sustainable solutions - together with our shareholders and cooperants. Our plans for 2016 are also ambitious and promising: we are constructing 37 new wind turbines in Belgium and 5 on the island of Curaçao.

We are aware of the fact that none of this would have been possible without the support of our shareholders (96 municipalities and VEH) and thousands of citizen-cooperants. Their joint efforts and involvement are crucial for our success, but their encouragement also helps us to progress.

We hope that this brochure gives you an informative picture of Aspiravi's activities. We are working towards a sustainable society for future generations!

Rik Van de Walle  
Chief Executive Officer

# THE **ASPIRAVI-GROUP**

Committed and working together  
towards the future.



## Shareholders of the **Aspiravi-group**

### **CREADIV Municipalities**

Begijnendijk, Bekkevoort,  
Chastre, Diest,  
Galmaarden, Geetbets,  
Glabbeek, Gooik,  
Herne, Holsbeek,  
Incourt, Kampenhout,  
Kortenaken, Landen,

Linter, Lubbeek,  
Oud-Heverlee,  
Pepingen, Perwez,  
Steenokkerzeel,  
Tielt-Winge, Tremelo,  
Villers-la-Ville,  
Zoutleeuw

### **EFIN Municipalities**

Diksmuide, Gistel,  
Harelbeke, Hooglede,  
Izegem, Jabbeke,  
Koekelare, Kortemark,

Ledegem, Lendeledede,  
Middelkerke,  
Oudenburg, Torhout,  
Vosselaar, Wevelgem

### **FINEG Municipalities**

Aartselaar, Antwerp,  
Boechout, Essen,  
Grobbendonk,  
Hemiksem,  
Kampenhout,

Kapellen, Laakdal, Niel, Nijlen,  
Stabroek, Steenokkerzeel,  
Vorselaar, Vosselaar,  
Zelzate

### **NUHMA Municipalities**

Alken, As, Beringen,  
Bilzen, Bocholt,  
Borgloon, Bree,  
Diepenbeek,  
Dilsen-Stokkem,  
Genk, Gingelom,  
Halen, Ham,  
Hamont-Achel,  
Hasselt, Hechtel-Eksel,  
Heers, Herk-De-Stad,  
Herstappe, Heusden-  
Zolder, Hoeselt,  
Houthalen-Helchteren,  
Kinrooi, Kortesseem,

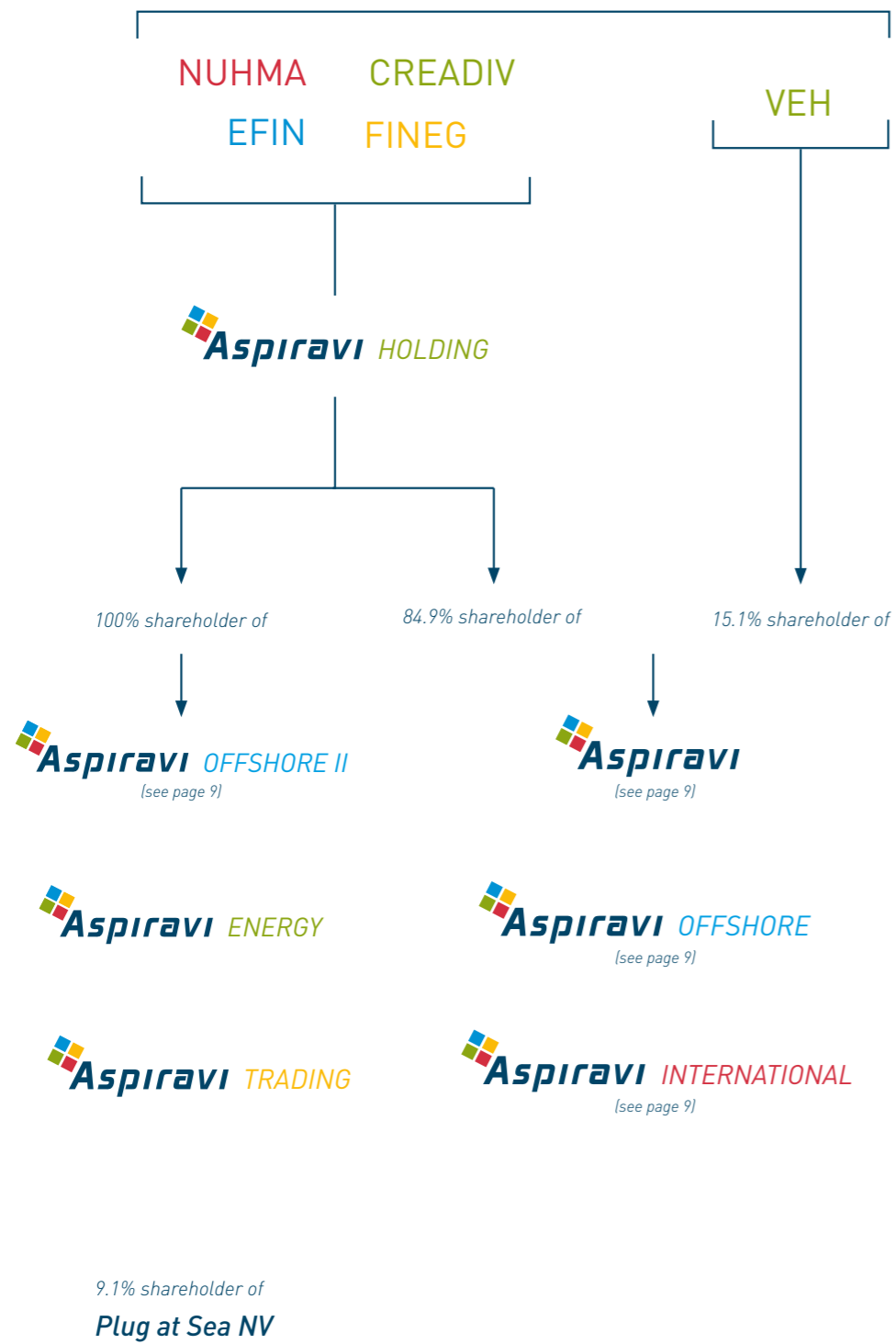
Laakdal, Lanaken,  
Leopoldsburg, Lommel,  
Lummen, Maaseik,  
Maasmechelen,  
Meeuwen-Gruitrode,  
Neerpelt,  
Nieuwerkerken,  
Opplabbeek,  
Overpelt, Peer,  
Riemst, Sint-Truiden,  
Tessenderlo,  
Tongeren, Wellen,  
Zonhoven, Zutendaal

### **VEH shareholders**

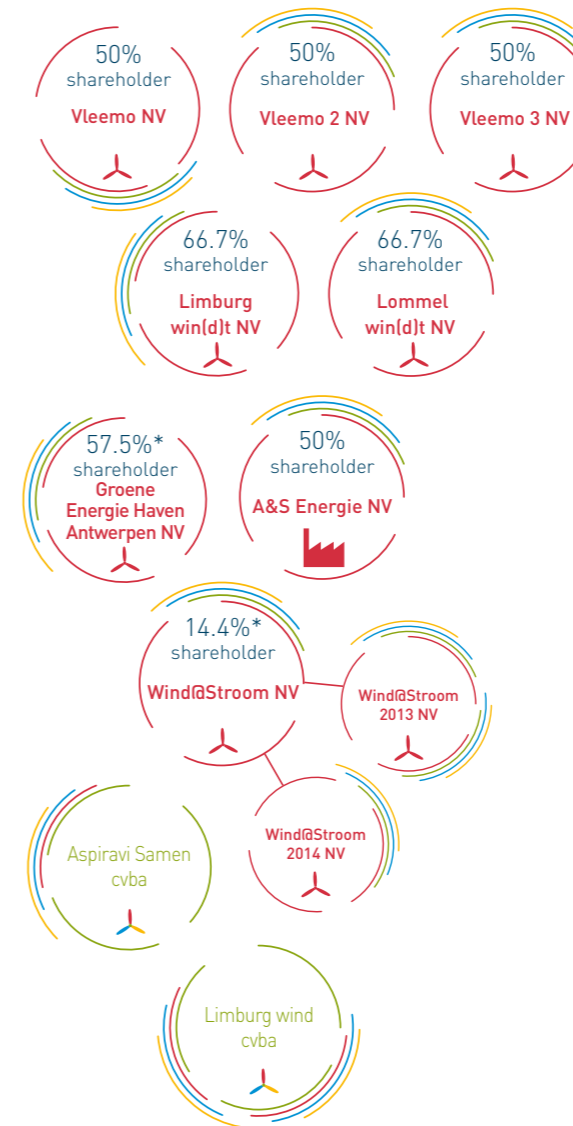
Auxipar, Creadiv,  
Belfius Bank,  
Efin, Ethias, Fineg,

KBC Insurances,  
Nuhma, P&V,  
City of Ghent

# The shareholder structure of the Aspiravi-group

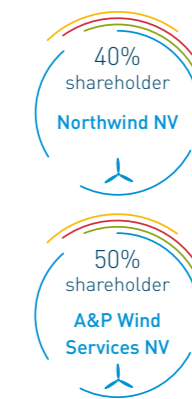


## Aspiravi

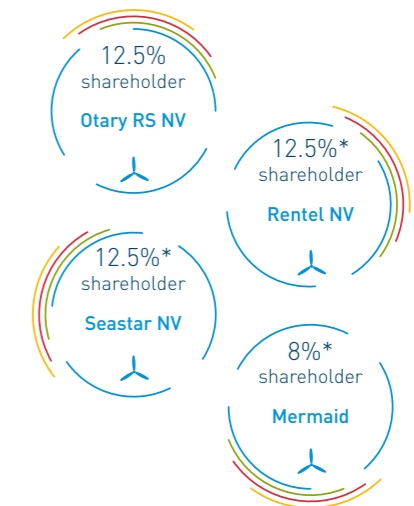


\* direct and/or indirect

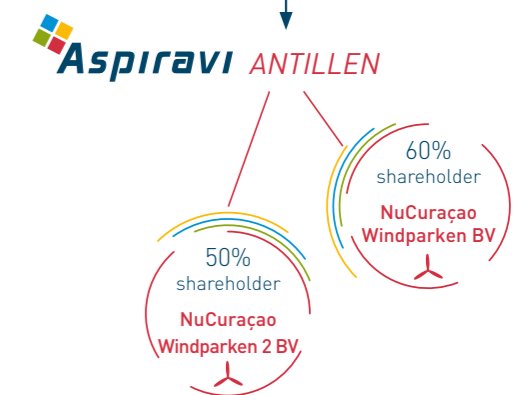
## Aspiravi OFFSHORE



## Aspiravi OFFSHORE II



## Aspiravi INTERNATIONAL



# The Aspiravi-group: sustainable growth ... in Belgium and beyond

Impressive, steady and sustainable growth. This is what has characterised the Aspiravi-group since its inception in 2002.

Our multitude of wind turbines are founded both on land and at sea, at home and abroad. We are also one of the largest **wind energy** producers in Belgium.

Besides the numerous wind turbines, we also operate a biomass plant, biogas engines and hydropower stations. Combined, these installations can produce **green energy** for nearly half a million households, which is one in ten in Belgium.

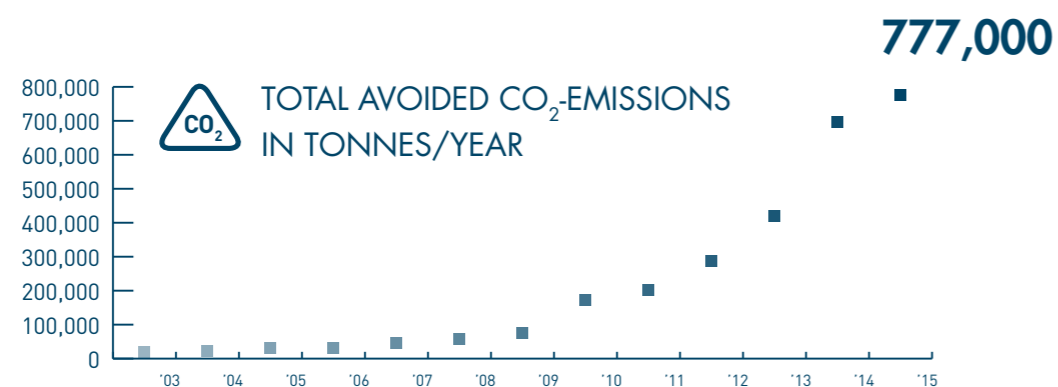
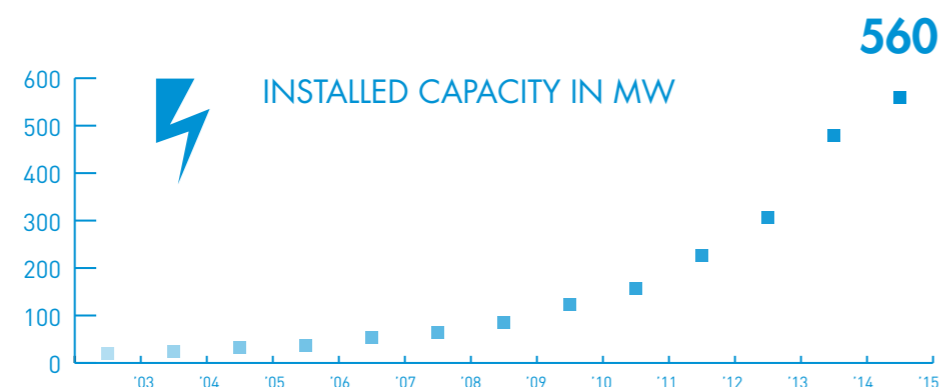
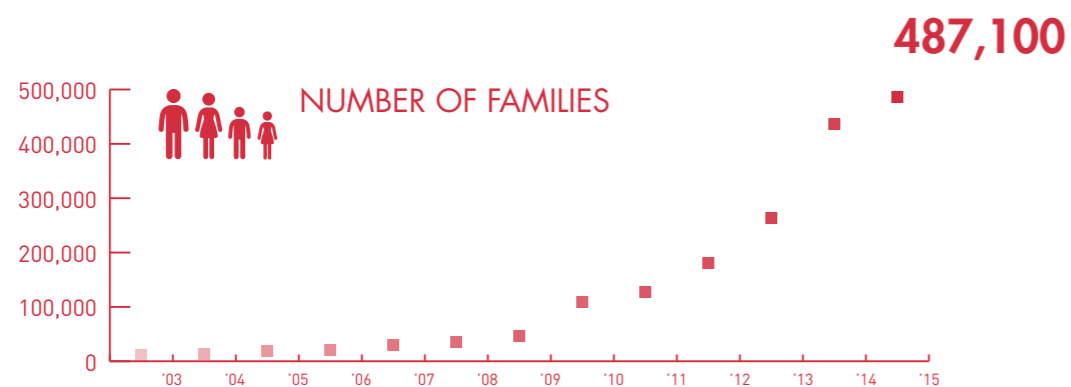
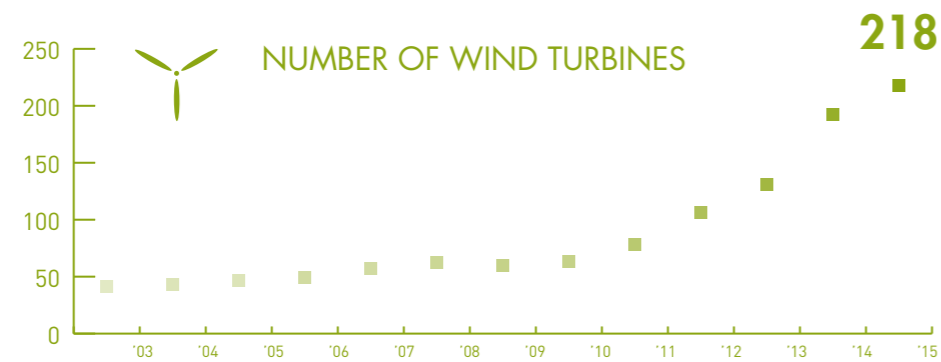
But more important are the CO<sub>2</sub>-emissions which we evade with our renewable energy projects.

Last year this was the equivalent of the annual emissions of around 300,000 cars.

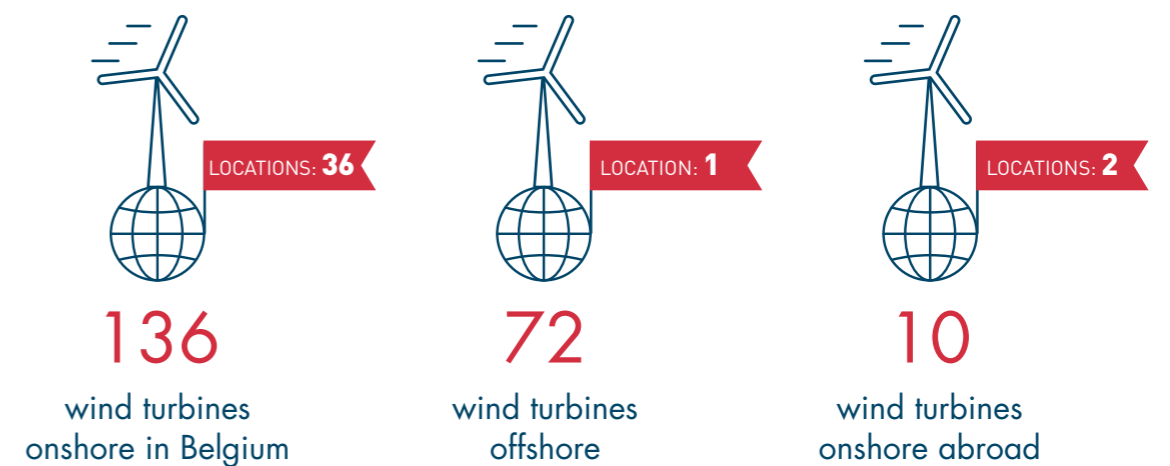
Thanks to our installations, we have been able to save hundreds of thousands of tonnes of **greenhouse gases** since the founding of the company.

Our group profits are well managed: given that 85% is owned by 96 municipalities, a nice return on their investment flows back to them. And therefore **back to citizens**.

For all info regarding the Aspiravi-group: [www.aspiravi.be](http://www.aspiravi.be).



NUMBER OF WIND TURBINES / NUMBER OF LOCATIONS



235 mayors

sustainable society

windmill park

actively cooperate



## THE **MAYORS' COVENANT**

Partners in the European climate policy.

Since 2009, many municipalities have formally signed up to **actively cooperate** in Europe's climate efforts. By signing the Mayors' covenant, they have promised to increase energy efficiency and the use of sustainable energy sources in their territories.

The Mayors' covenant for Climate and Energy is unique in its kind. This decentralised, 'bottom-up' initiative brings **thousands of local and regional authorities** together. With their local activities, they take responsibility for the European (and worldwide) climate policy.

In Belgium, **235 mayors** have already signed the covenant. In concrete terms, they promise to make a 20% reduction in CO<sub>2</sub>-emissions in their territories by 2020. Municipalities decide for themselves how they will achieve this. For example by insulating buildings, through car parks for electric cars or ... with wind turbines.

A **windmill park** is the ideal means of achieving the ambitious climate objectives. A windmill park considerably increases the amount of green energy produced, quickly and easily. Furthermore, citizens can participate in the Aspiravi wind farms. In this way the citizen can also be a partner in the fight against global warming.

This is how we work together, mayors and citizens, towards a **sustainable society**.  
And a pleasant, liveable future for future generations.

Find out more about the covenant: [www.covenantofmayors.eu](http://www.covenantofmayors.eu).





Aspiravi

2710



Cooperation, participation  
and sustainable growth go  
hand in hand at Aspiravi.



We are working towards  
a solid foundation for  
the society of the future.





42  
NEW  
WIND TURBINES





# New construction projects 2016

## 37 wind turbines in Belgium



PORT OF ANTWERP  
RIGHT BANK III

2016 / 2017

18 to be determined

54 MW Vleemo

to be determined Aspiravi



PORT OF ANTWERP  
LEFT BANK II

2016

1 to be determined

3.2 MW Wind@Stroom

to be determined Aspiravi



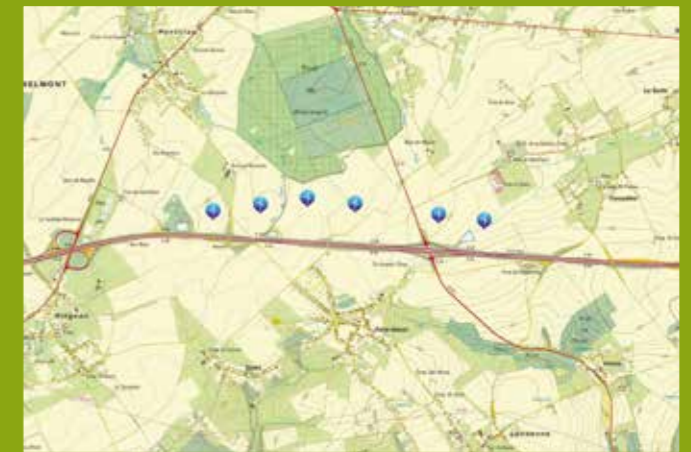
HAM  
ALBERTKANAAL II

2015 / 2016

2 3,679 tonnes / year  
1,565

4.1 MW Limburg win(d)t

2,300 Aspiravi



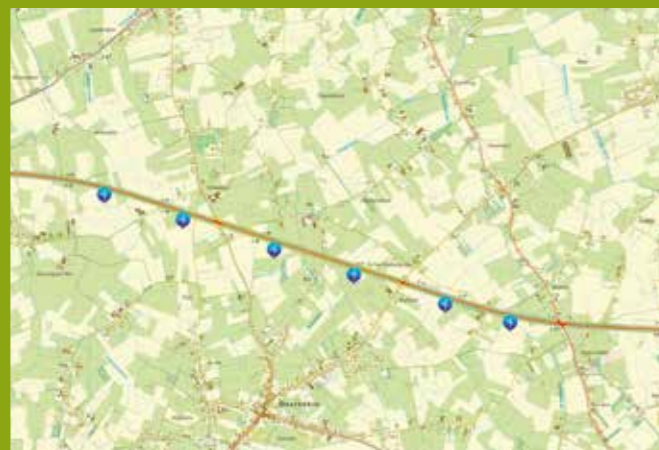
HÉRON FERNELMONT

2016

3 (of 6) 6,398 tonnes / year  
2,722

6 MW Aspiravi

4,000 Aspiravi



ASSENEDE

2015 / 2016

6 12,796 tonnes / year  
5,445

12 MW Aspiravi

8,000 Aspiravi



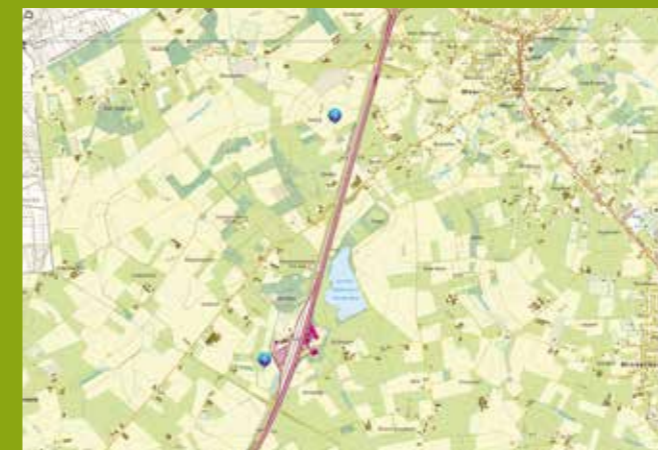
GENK NORTH

2016

2 4,479 tonnes / year  
1,906

4 MW Limburg win(d)t

2,800 Aspiravi



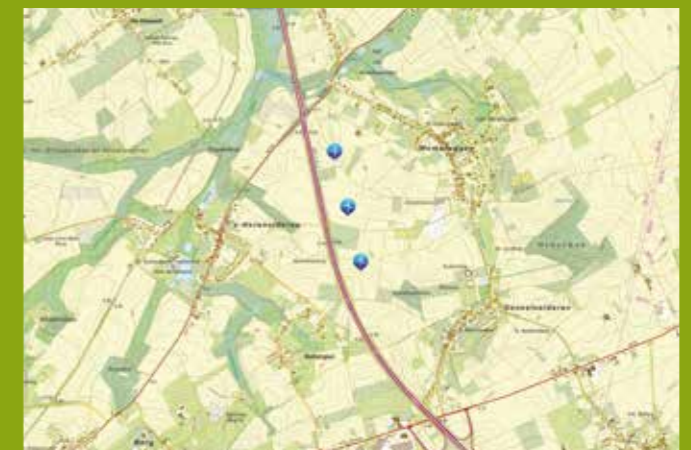
HOOGSTRATEN

2016

2 7,998 tonnes / year  
3,402

6 MW Aspiravi

5,000 Aspiravi



RIEMST

2016

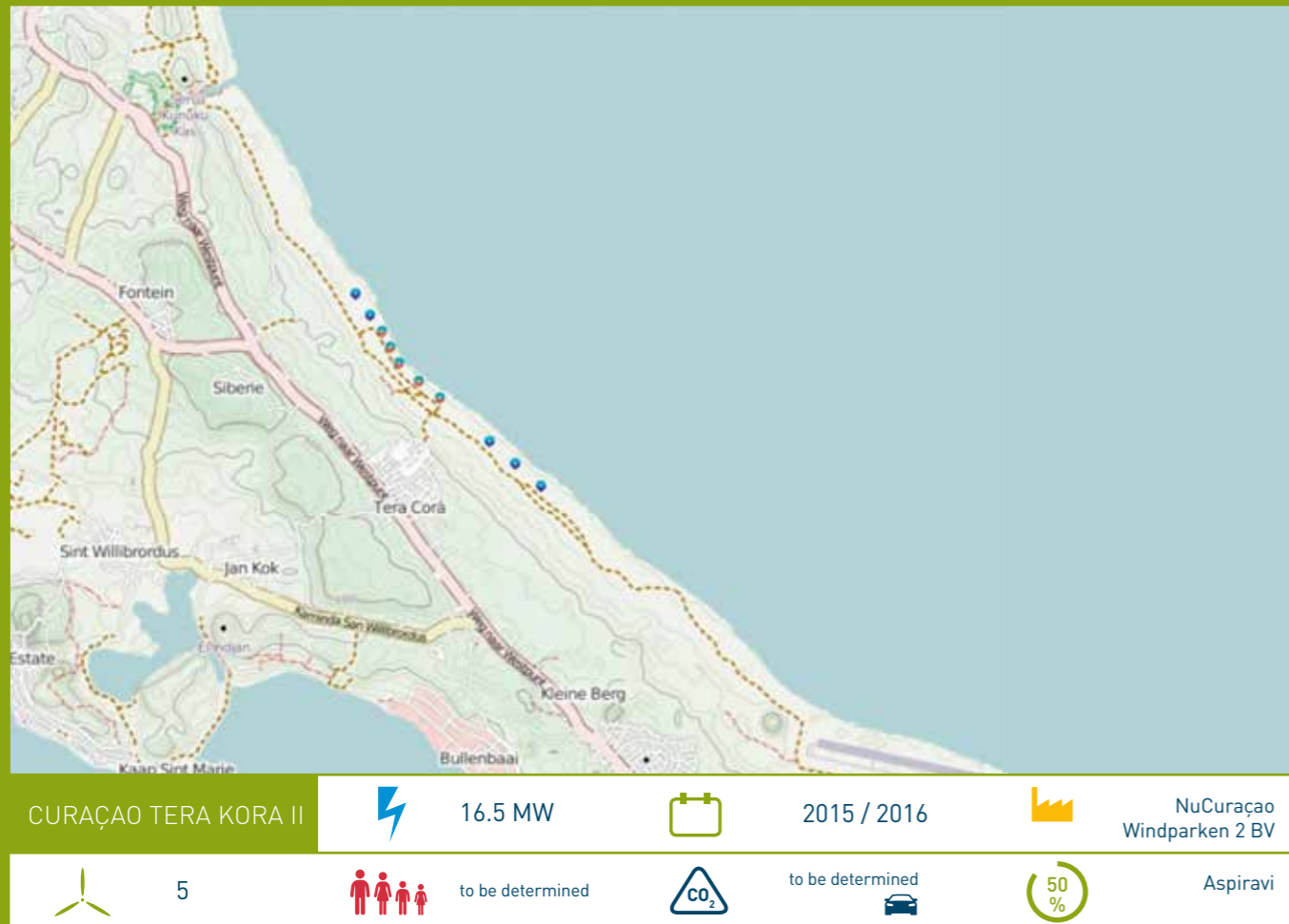
3 11,996 tonnes / year  
5,104

9 MW Limburg win(d)t

7,500 Aspiravi

# New construction projects 2016

## 5 wind turbines abroad



33

























































WIND TURBINES





# Completed projects in 2015

## 33 wind turbines

<b>PORT OF ANTWERP LEFT BANK I</b>		45 MW		2015		Wind@Stroom
	15		35,000		54,840 tonnes / year 23,334 	 14.4% Aspiravi
<b>BRUGES</b>		11.5 MW		2002 & retrofit 2015		Aspiravi
	5		5,000		7,998 tonnes / year 3,403 	 100% Aspiravi
<b>DILSEN-STOKKEM</b>		2 MW		2015		Limburg win(d)t
	1		1,000		1,600 tonnes / year 681 	 66.7% Aspiravi
<b>GENK SOUTH II</b>		8 MW		2015		Limburg win(d)t
	4		4,000		6,398 tonnes / year 2,722 	 66.7% Aspiravi
<b>HAALTERT</b>		9.2 MW		2015 / 2016		Aspiravi
	4		4,600		7,358 tonnes / year 3,131 	 100% Aspiravi
<b>LUMMEN KOLENHAVEN</b>		4 MW		2015		Limburg win(d)t
	2		2,000		3,199 tonnes / year 1,361 	 66.7% Aspiravi
<b>MAASMECHELEN OUDE BUNDERS</b>		4 MW		2015		Limburg win(d)t
	2		2,000		3,199 tonnes / year 1,361 	 66.7% Aspiravi

wind farm NORTHWIND



## OFFSHORE PROJECTS IN THE BELGIAN NORTH SEA

SINCE



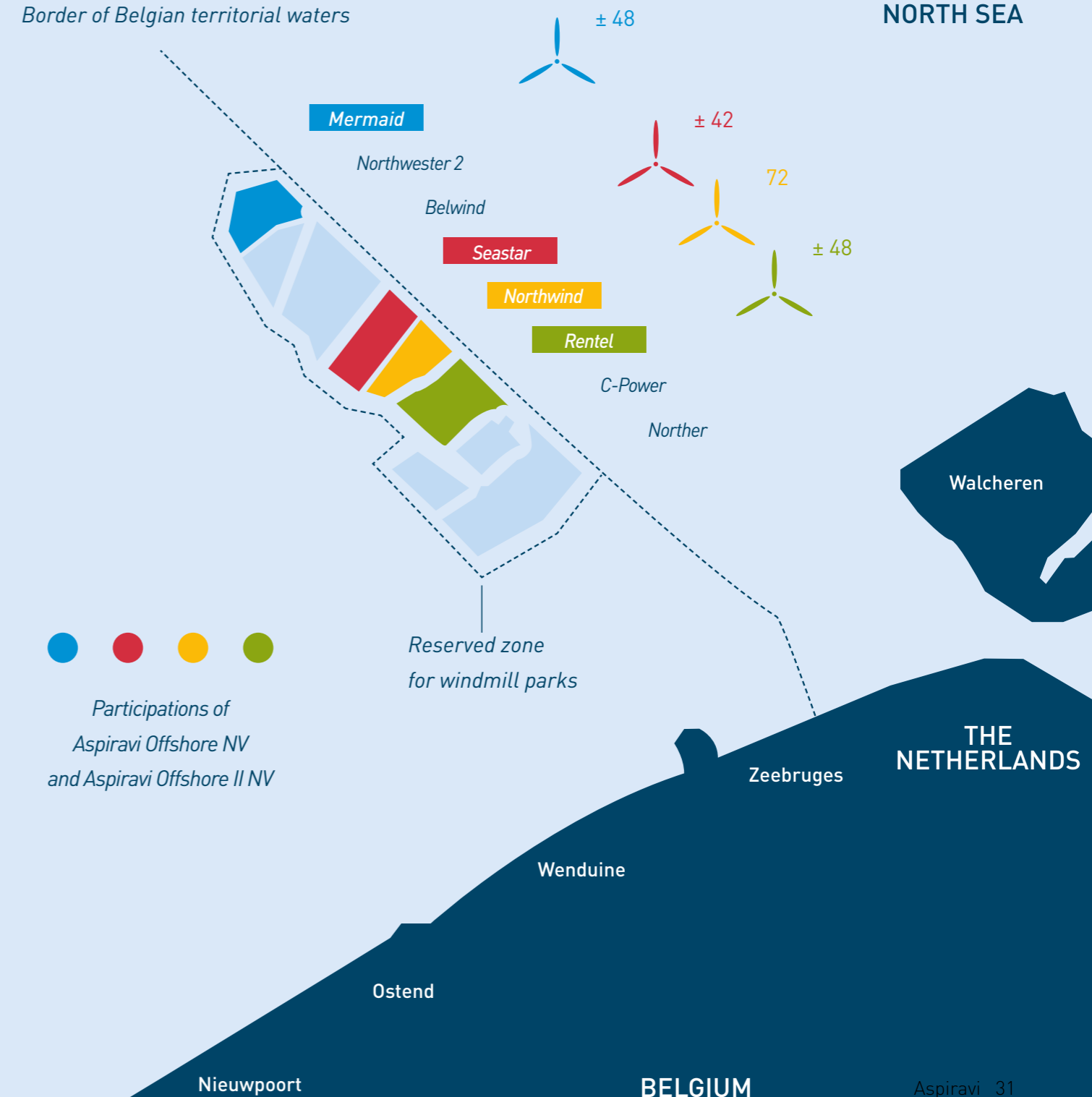
2013

# 72 wind turbines in operation 3 offshore projects in development

NORTHWIND	216 MW	2013 / 2014	Northwind
72	230,000	367,885 tonnes / year 156,531	40% Aspiravi



Border of Belgian territorial waters NORTH SEA



RENTEL	± 288 MW	2017	Rentel
± 48	288,000	460,656 tonnes / year 196,004	12.5%* Aspiravi

MERMAID	± 288 MW	2018	Mermaid
± 48	288,000	460,656 tonnes / year 196,004	8%* Aspiravi

SEASTAR	± 252 MW	2019	Seastar
± 42	252,000	403,074 tonnes / year 171,503	12.5%* Aspiravi

\* direct and/or indirect



wind farm HAM ALBERTKANAAL I



113

WIND TURBINES

BEFORE





# Projects completed before 2015

## 113 wind turbines

<b>PORT OF ANTWERP RIGHT BANK II</b>		11.75 MW		2014		Vleemo
5		10,000		15,995 tonnes / year 6,805		Aspiravi
<b>BERINGEN RAVENSHOUT</b>		2 MW		2014		Limburg win(d)t
1		1,150		1,839 tonnes / year 783		Aspiravi
<b>TESSENDERLO SCHOONHEES</b>		9 MW		2014		Limburg win(d)t
3		5,150		8,397 tonnes / year 3,573		Aspiravi
<b>DENDERMONDE</b>		2 MW		2013		Aspiravi
1		1,150		1,839 tonnes / year 783		Aspiravi
<b>LOMMELE KRISTALPARK</b>		10 MW		2014		Lommel win(d)t
5		5,700		9,117 tonnes / year 3,879		Aspiravi
<b>TESSENDERLO RAVENSHOUT</b>		2 MW		2013		Limburg win(d)t
1		1,150		1,839 tonnes / year 783		Aspiravi

<b>HAM ALBERTKANAAL I</b>		4 MW		2013		Limburg win(d)t
2		2,300		3,679 tonnes / year 1,565		Aspiravi
<b>NOORDERKEMPEN</b>		22.1 MW		2012		Aspiravi
10		13,000		20,792 tonnes / year 8,847		Aspiravi
<b>PERWEZ</b>		6 MW		2012		Aspiravi
3		3,000		4,799 tonnes / year 2,042		Aspiravi
<b>BERINGEN ALBERTKANAAL</b>		4.6 MW		2012		Limburg win(d)t
2		2,000		3,199 tonnes / year 1,361		Aspiravi
<b>HASSELT CENTRALE WERKPLAATSEN</b>		4.6 MW		2012		Limburg win(d)t
2		2,285		3,655 tonnes / year 1,555		Aspiravi
<b>GENK SOUTH I</b>		2.3 MW		2012		Limburg win(d)t
1		1,000		1,600 tonnes / year 681		Aspiravi



# Projects completed before 2015

## 113 wind turbines

<b>CURAÇAO TERA KORA I</b>		15 MW		2012		NuCuraçao Windparken BV
5		16,000		25,592 tonnes / year 10,889		Aspiravi
<b>CURAÇAO PLAYA KANOA</b>		15 MW		2012		NuCuraçao Windparken BV
5		16,000		25,592 tonnes / year 10,889		Aspiravi
<b>HALEN - DIEST</b>		11.5 MW		2011		Limburg win(d)t
5		7,000		11,197 tonnes / year 4,764		Aspiravi
<b>DIEST - BEKKEVOORT</b>		11.5 MW		2011		Aspiravi
5		7,000		11,197 tonnes / year 4,764		Aspiravi
<b>MAASEIK</b>		6 MW		2011		Limburg win(d)t
3		3,000		4,799 tonnes / year 2,042		Aspiravi
<b>IZEGEM MANDEL</b>		4 MW		2011		Aspiravi
2		2,400		3,839 tonnes / year 1,633		Aspiravi

<b>HASSELT GODSHEIDE</b>		4 MW		1999 & retrofit 2010		Aspiravi
2		2,285		3,655 tonnes / year 1,555		Aspiravi
<b>IZEGEM BOSMOLENS</b>		4.6 MW		2009		Aspiravi
2		2,200		3,519 tonnes / year 1,497		Aspiravi
<b>ZEEBRUGES</b>		8.5 MW		1987 & retrofit 2009		Aspiravi
10		5,000		7,998 tonnes / year 3,403		Aspiravi
<b>PORT OF ANTWERP RIGHT BANK I</b>		15 MW		2005, 2008 & 2009		Vleemo
7		10,400		16,635 tonnes / year 7,078		Aspiravi
<b>YPRES</b>		6.9 MW		2009		Aspiravi
3		3,500		5,598 tonnes / year 2,382		Aspiravi
<b>BASTOGNE</b>		6 MW		2009		Aspiravi
3		3,000		4,799 tonnes / year 2,042		Aspiravi

# Biomass & biogas & hydropower

AMEL		10 MW		2008		Aspiravi	
	5		6,000		9,597 tonnes / year 4,083		Aspiravi
LOMDEL		16 MW		2005 & 2007		Aspiravi	
	8		7,500		11,996 tonnes / year 5,104		Aspiravi
GISTEL		9.2 MW		2007		Aspiravi	
	4		5,000		7,998 tonnes / year 3,403		Aspiravi
PUURS		4 MW		2006		Aspiravi	
	2		2,000		3,199 tonnes / year 1,361		Aspiravi
MIDDELKERKE		1.56 MW		1999 & 2003		Aspiravi	
	2		825		1,320 tonnes / year 561		Aspiravi
EEKLO		1.8 MW		2002		Aspiravi	
	1		1,000		1,600 tonnes / year 681		Aspiravi
KAPELLE-OP-DEN-BOS		1.2 MW		2001		Aspiravi	
	3		685		1,096 tonnes / year 466		Aspiravi



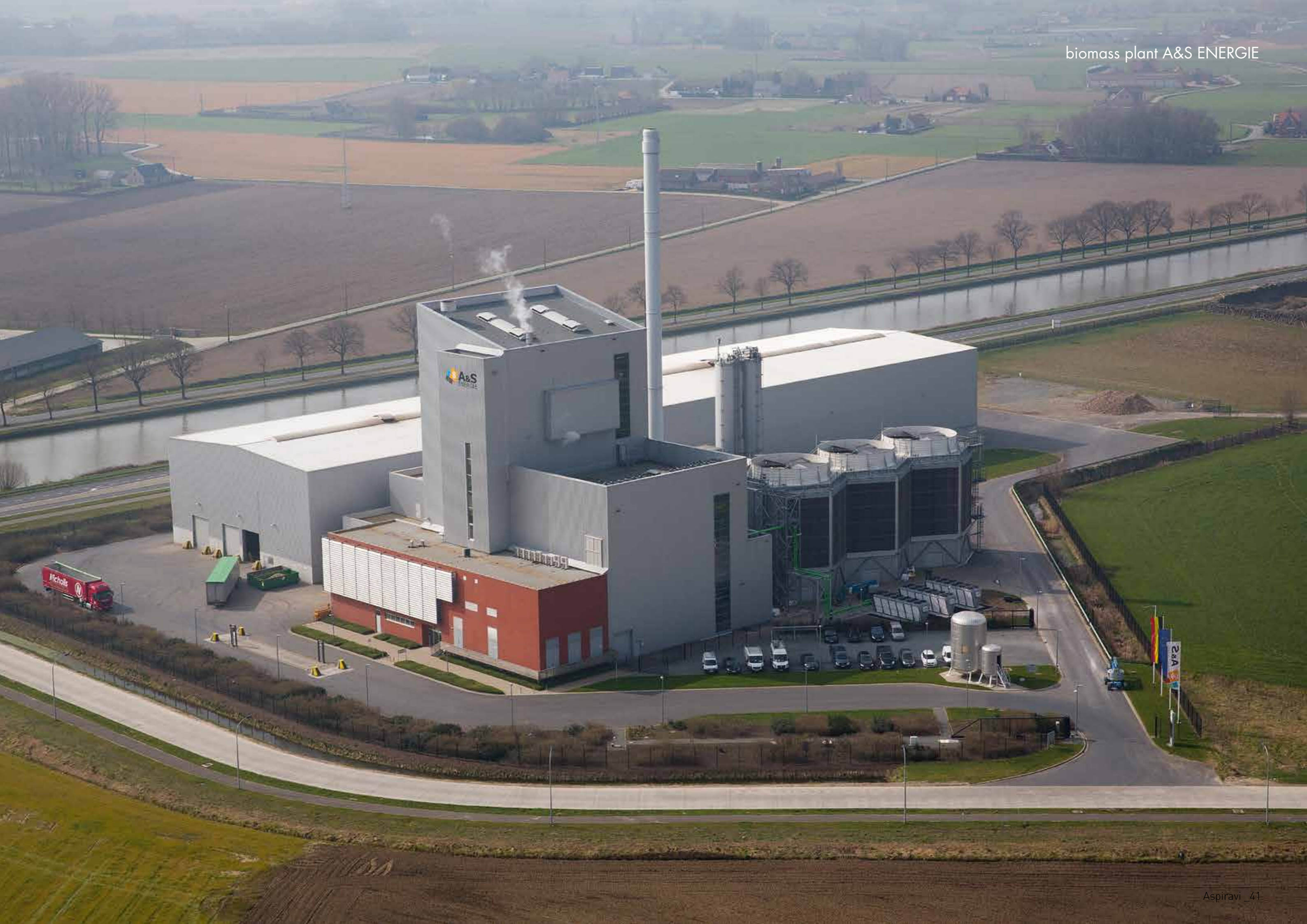
BIOMASS PLANT A&S ENERGIE		25 MW		2010		A&S Energie
		52,000		82,082 tonnes / year 34,925		Aspiravi



4 BIOGAS ENGINES		Aspiravi
Lendeledede - Stevan	400kW	2004
Leuven - AB InBev	1,000kW	2005
Leuven - Pellenberg	200kW	2006
Harelbeke - Agristo	500kW	2007
	total: 3,942 tonnes / year	1,677



2 HYDROPOWER-STATIONS		Aspiravi
Bocholt	60kW	2000
Lozen	100kW	2000
	total: 521 tonnes / year	221

















# ASPIRAVI'S COOPERATIVE COMPANIES

The citizen participates and benefits.

The Aspiravi-group willingly involves **citizens** in its wind energy projects. Anyone can make a contribution, by being a shareholder of the cooperative companies Aspiravi Samen and Limburg wind.

Of course, citizens who **invest** also take a share in the wind energy profits. They receive a nice return on their savings. With the capital obtained by Aspiravi Samen and Limburg wind, we build wind turbines on land.

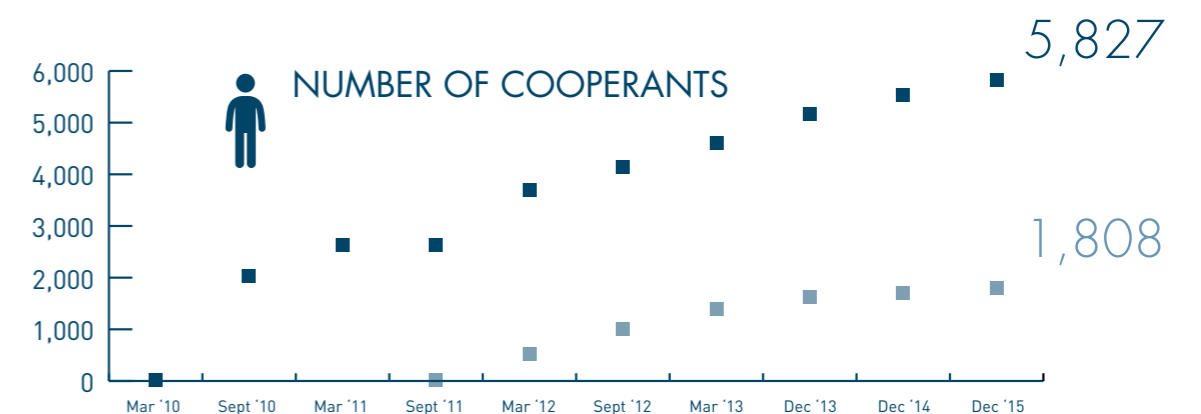
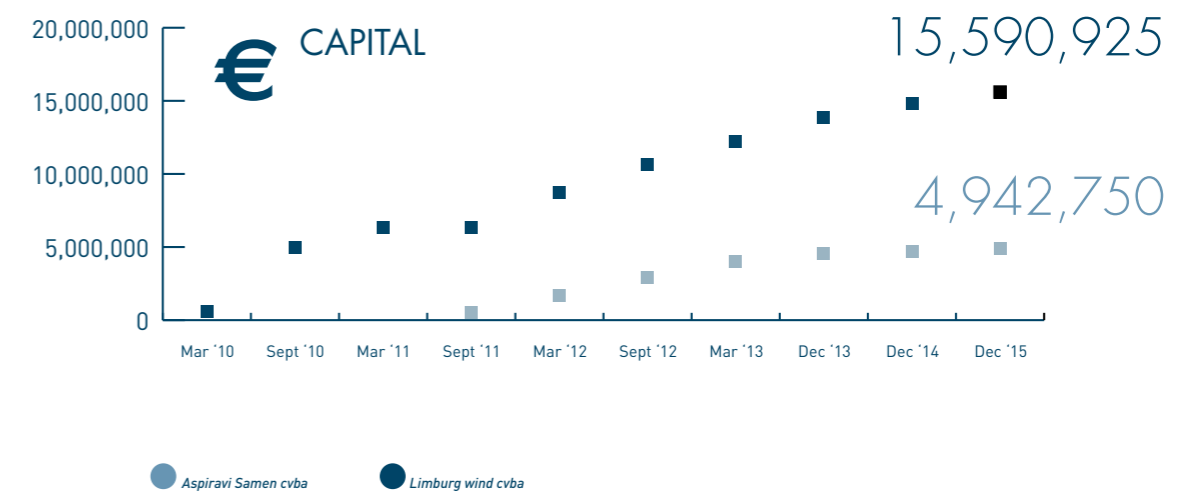
The number of cooperants is growing year on year. Their support adds real **value**; they help to make local, clean energy possible for the wellbeing of everyone. Together we are working towards a sustainable habitat, towards the **future** of our (grand)children and towards a better world.

More info at: [www.aspiravi-samen.be](http://www.aspiravi-samen.be) and [www.limburgwind.be](http://www.limburgwind.be).



Growing together towards sustainability:

since 2010 **7,635 cooperants** have together invested **20.5 million euros** for green energy.



## ASPIRAVI ENERGY

Beneficial green energy  
for whoever participates.

Aspiravi Energy is the youngest company within the Aspiravi-group and a brand new electricity supplier in Flanders. Its customers are predominantly the shareholders of Limburg wind and Aspiravi Samen.

They benefit from - following ownership of four shares - an **advantageous** tariff for **green** energy which they helped to make possible.

Aspiravi Energy has resolutely chosen for **local**, renewable energy sources such as wind, water, sun and biomass. This enables it to not only benefit the environment, but also job creation in the local economy.

Aspiravi Energy offers its customers a unique proposition. On the one hand a long-term advantageous tariff. On the other, customers automatically support a local and **social** project. For every consumed megawatt hour, a portion is allocated to a good cause to alleviate energy- and child poverty.

More info at: [www.aspiravi-energy.be](http://www.aspiravi-energy.be).





Together we are building  
a sustainable world  
for our children.

The citizen participates more  
and more in clean energy for  
the next generations.











DRIVEN BY WIND, TOGETHER

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[www.aspiravi.be](http://www.aspiravi.be)

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design: [www.blauwepeer.be](http://www.blauwepeer.be)

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2015

