



2015-2017 Multi-Year Environmental Plan

Environmental principles for Wageningen UR operational management

Facilities and Services

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1 Introduction

This is the 2015-2017 Multi-Year Environmental Plan 2015-2017 for Wageningen University & Research centre (Wageningen UR). This plan sets out which environment-related subjects Wageningen UR will be focusing on over the coming years.

Wageningen UR has buildings at various locations in the Netherlands. Environmental permits are required for the activities which Wageningen UR performs at these locations. The permits are clustered by location/complex as far as possible. The large (and complex) environmental permits include regulations with regard to the Multi-Year Environmental Plan environmental plan. These have been formulated as follows for the Wageningen Campus complex permit:

Each year, by 1 May at the latest, an annual environmental plan for the current calendar year is submitted to the competent authorities for their cognisance. The annual environmental plan includes data about environmental objectives, actions, environmental measures, studies and activities planned over the current calendar year, including the project WUR-profit, which are taken in order to further reduce the environmental impact caused by the institution and are focused on that end.

This annual plan must also include the long-term objectives for the coming years. When formulating new objectives, these are to be based on the principle of Best Available Techniques (BAT). The annual plan should include anticipated future changes to the operational management in the next year under review, which will or may lead to changes to the environmental permit situation.

Wageningen UR has chosen to formulate the environmental data at the corporate level in the annual environmental plan. Additional details for each Sciences Group are formulated in Appendix 4. In addition to a Multi-Year Environmental Plan, each year Wageningen UR also issues an annual environmental report for the past year. In this way, Wageningen UR provides a full overview of its activities in terms of the environment.

The organisation of this document

The 2015-2017 Multi-Year Environmental Plan environmental plan sets out the environmental policy and the associated objectives (Chapter 2) along with the planning for the various environmental subjects (Chapter 3).

2 Environmental policy and environmental objectives of Wageningen UR

Wageningen UR takes full responsibility for the environmental impact of its operations. The environmental policy of Wageningen UR is focused on:

1. Complying with or exceeding the current legislation and regulations. The statutory framework with which Wageningen UR seeks to and is required to comply is summarised in Appendix 2.
2. The formulated sustainability ambition. In addition to the statutory framework, Wageningen UR has formulated a sustainability ambition. For example, it has chosen to be a 'pioneer' in terms of operational management. This means that Wageningen UR takes an integrated approach to sustainability in its operational management and communicates it to the outside world in an integrated manner; and that sustainability is an integral part of decision-making. This ambition fits in with Wageningen UR's mission of education, research and operational management. Logically, the environment is an important aspect of this ambition.

The following environmental objectives for Wageningen UR follow from its environmental policy:

1. Complying with the current regulations for the environmental permits.
2. Implementing the Wageningen UR 2015-2018 strategic plan.

1. Complying with the regulations for the environmental permits

The environmental permits for Wageningen UR are issued by the competent authorities (municipalities) per complex. The following environmental permits (permits relating to the Dutch Environmental Management Act) have been issued for Wageningen UR:

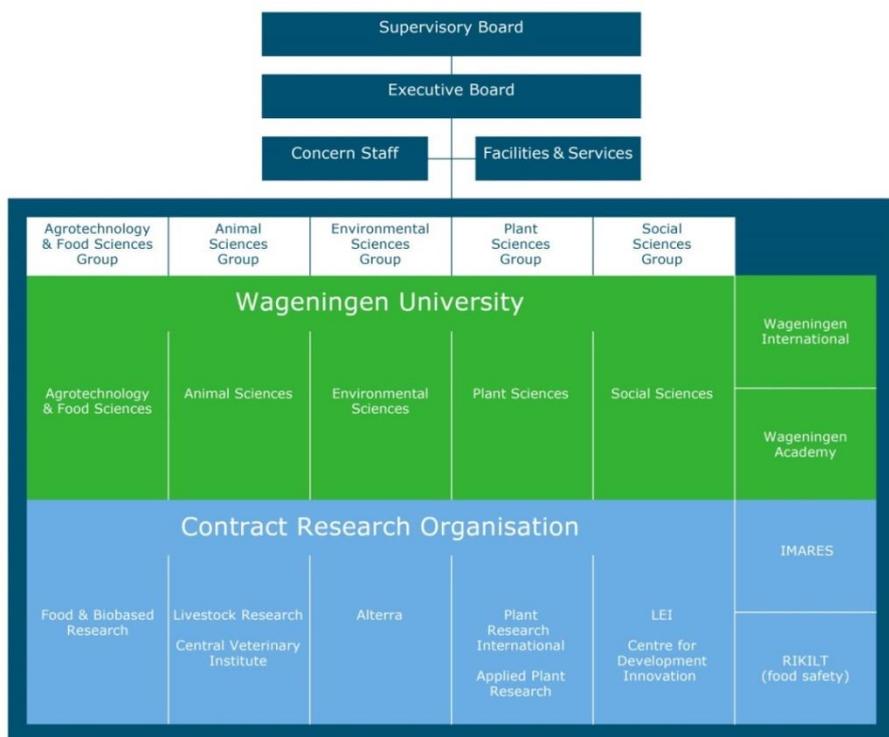
- Wageningen Campus
- De Dreijen Wageningen
- WUR complex Lelystad
- CVI Houtribweg Lelystad

The remaining environmental permits are clustered under:

- Other Wageningen
- Other locations

Wageningen UR consists of various Sciences Groups and components (see figure 1).

Figure 1. Wageningen UR organisation chart



Supplementary to the organisational chart, it should be noted that from 2013, Energy & Exploitation Lelystad (E&EL) is a separate Sciences Group within Wageningen UR.

The various Sciences Groups are distributed across 28 different locations, and clustered in complexes for which environmental permits have been issued (see Table 1).

Table 1. Overview of the Sciences Groups falling under the various complex and other environmental permits as of 1 January 2015

	Wageningen Campus	De Dreijen Wageningen	WUR complex Lelystad	CVI Houtribweg Lelystad	Other Wageningen	Other locations
Agrotechnology & Food Sciences Group (AFSG)	X	X				
Animal Sciences Group (ASG)	X		X	X		X ¹
Environmental Sciences Group (ESG)	X					X ²
Energy & Exploitation Lelystad (E&EL)			X			
Plant Sciences Group (PSG)	X		X			X ¹
Social Sciences Group (SSG)					X ³	X ⁴
Institute for Marine Resources and Ecosystem Studies (IMARES)						X ⁵
RIKILT	X					
Facilities and Services (FB)	X	X	X		X ⁶	X ⁷
Corporate Staff+ (CS+) ¹⁰	X				X ⁸	X ⁹

1. Test facilities
2. Sinderhoeve (Renkum)
3. De Leeuwenborch
4. LEI The Hague and other locations
5. IJmuiden, Yerseke, Den Helder, Texel
6. De Bongerd Sports Centre, Belmonte Botanical Garden, Industrieweg 34 (BSW)
7. Schoutenhoef (Bennekom)
8. Main Auditorium, Achter de Aula, student accommodation in Wageningen (Haarweg and Stadsbrink)
9. Student accommodation in Ede (former barracks) and Bennekom (Beringhem)
10. The Corporate Staff (CS), Wageningen International (WI) and Wageningen Academy (WA) together make up CS+.

2. Implementing the Wageningen UR 2015-2018 strategic plan

Sustainability is an important pillar within the primary process of research and education. This is expressed in the mission, 'To explore the potential of nature to improve the quality of life,' and in the ambition to take a leading role in the area of sustainable operational management. The goal is to be the prime knowledge institute in Europe in the domain 'Healthy Food and Living Environment' by 2020 and to be a prominent partner on a global scale. In short, Wageningen UR stands for sustainability.

Over the past four years, a great deal of energy has been invested in increasing the sustainability of the operational management. The basic principle for sustainable operational management is achieving a balance in the current social, environmental and economic needs without endangering future needs. Wageningen UR has interpreted this basic principle in the 'pioneering' ambition. Put briefly, this means that Wageningen UR acts on and promotes sustainability in its operational management in an integrated way. Sustainability is also an inherent aspect of our decision-making process, and the application of proven sustainability technology is an extension of our goals at this level. In recent years, these

sustainability goals have been applied to the fields of construction, energy, waste, purchasing, catering, mobility and sustainable employees. An overview of the key figures and the goals formulated is given in Table 2. The results of sustainable business operations can be seen in the high scores for the benchmarks as well as in daily practice. For instance, we now have sustainable catering, Wageningen Campus is significantly more sustainable, we keep track of our annual CO₂ footprint and students have taken an active role in Green Office Wageningen.

Table 2. Overview of key figures for sustainable operational management with the corresponding goals

Key figure	Goal
CO ₂ footprint	Reduction compared to reference year 2010
CO ₂ compensation footprint	Increase compared to reference year 2010
Climate neutrality	Increase compared to reference year 2010
Energy	Energy neutrality in 2030: 2% reduction per year, 30% reduction compared to reference year 2005
Waste	Reduction compared to previous year
Sustainable construction	New construction: GreenCalc standard >300 Existing construction: label improvement after renovations >€300,000
Purchasing	50% sustainable purchasing

A new strategic plan for 2015-2018 was drawn up in early 2015. This plan states Wageningen UR's ambitions. One of the eight ambitions formulated in the plan is 'Our operations in terms of corporate social responsibility are even stronger.'

It is in line with our organisation and our domain to set high goals for Corporate Social Responsibility (CSR). We will increase our focus on this in the coming years by formulating a clear and recognisable CSR strategy. The core of this strategy will be to integrate decision-making into our procedures in such a way that scientific, social and economic interests balance each other out and whereby our responsibility is not limited to our own activities. We guarantee our CSR policy in our organisation by means of the ISO 26000 self-declaration. This declaration is supplementary to the quality assessments which are carried out for education and research (accreditations, peer reviews, etc.).

We are currently one of the most sustainable educational institutions in the Netherlands, and we want to at least maintain this position. Both employees and students are intrinsically motivated to contribute to the sustainability of our organisation. We will be energy neutral by 2030. This means that by 2018 we will be less dependent on natural gas: We will reduce our use of it and study whether we can transfer to green energy sources. We will generate 80% of our energy ourselves, using sustainable sources such as solar energy and the Lelystad wind farm.

In the course of 2015, the sustainability group will give concrete shape to the sustainability and CSR aspects of the 2015-2018 strategic plan. The Sustainability group members are the director of Facilities and Services (chair); the director of Corporate Human Resources; the director of Corporate Communications & Marketing; a representative of the directors of operational management, the director of Education, Research & Innovation; representative(s) from the Student Council; and a sustainability policy officer (secretary).

The chair of the Sustainability group is accountable to the Executive Board/Board of Directors.

3 Expected results and schedule for 2015-2017

The expected results and schedule for environment-related subjects may be subdivided into:

- A. Permit regulations
- B. Environmental policy areas
- C. Permit changes
- D. Organisation
- E. Complaints and incidents

3A Permit regulations

The regulations set out in the environmental permits apply to the different activities carried out by the Wageningen UR Sciences Groups. The regulations which apply to the different Sciences Groups are shown in Table 3.

Table 3. Regulations which apply to the different Sciences Groups

	Systems ¹	Environmental logbook ²	Chemical registration ³	Energy and water registration ⁴	Emergency plan ⁵	Maintenance, inspections, checks ⁶
AFSG		X	X	X	X	X
ASG	ISO 9001 ISO 17025	X	X	X	X	X
ESG	ISO 9001 ISO 14001 ISO 17025 ISO 26000	X	X	X	X	X
E&EL		X	X	X	X	X
PSG	ISO 9001	X	X	X	X	X
SSG	ISO 9001			X	X	X
IMARES	ISO 9001 ISO 17025		X	X	X	X
RIKILT	ISO 17025 ISO 17043	X	X	X	X	X
FB		X	X	X	X	X
CS+		X		X	X	X

1. The individual Sciences Groups are free to decide the extent of any environmental or other quality system to be set up. This serves to ensure that environment-related tasks or processes are established and assured. However, Sciences Groups without an established or certified quality system do work in accordance with the statutory guidelines. The specific culture, wishes or expectations of the organisational component's staff, local residents or clients may be decisive in choosing whether to introduce a certified quality system.
2. The environmental logbook contains information about maintenance, measurements, tests, inspections and environmental studies. In recording this information, the existing information sources are used as much as possible, such as GROS (*Gevaarlijke stoffen Registratie- en Opsporingssysteem*, 'hazardous substances registration and investigation system'), Erbis and Planon.
3. Chemicals must be registered at all locations where work involving hazardous substances is performed. At most of those locations, the GROS software package is used for this purpose.
4. Water, gas/heat and electricity use is registered in ERBIS.
5. Each year, the emergency plans of the buildings are assessed and adapted to the current situation where required. The emergency management team is involved in the exercises on location.
6. Periodic checks and tests of the systems are carried out in order to determine environmental emissions and guarantee safe operation. Examples include waste water checks, checks for odour emissions, fume cupboard checks, manure storage checks, Dutch Emission Guidelines for Air (NeR) checks and checks of building-related systems. Inspection reports are recorded in the environmental logbook.

In addition to meeting the above regulations, in 2015-2017 the following corporate results will be achieved:

- The environmental logbook will be complete and up to date.
- Up-to-date diagrams of the sewerage system for Wageningen Campus will be completed.
- The maintenance on the GROS information system will be carried out in accordance with the 2014-2018 GROS Multi-Year Plan. For 2015, this means that:
 - the latest version of GROS, version 3.5, will be implemented and the link to the ChemWatch external database will be made.
 - all employees and students can see safety data sheets for the substances present in the ChemWatch database.

- the safety information in GROS will be updated with an eye to improving the safety reports.

3B Environmental policy areas

In 2015-2017 we will be carrying out regular work activities in relation to soil, air, water and waste water, energy, waste, noise, air, environmentally hazardous substances, transport, purchasing, sustainable construction, flora and fauna, biological safety and external safety.

In 2015-2017, the following corporate results will be achieved:

Energy

Wageningen UR has committed to the third Multi-Year Agreement for energy (MJA-3), will maintain its good relationship with the local competent authority and will comply with the relevant legislation and regulations and the agreements laid down in the MJA-3. Wageningen UR will comply with the commitments which follow from this, leading to the following results:

- a working energy management system
- the implementation of the 2013-2016 energy efficiency plan

The 2013-2017 energy strategy has been established in 2014 and implemented in this period. This strategy consists of the following related ambitions from Wageningen UR's 2030 Energy Vision:

1. Sustainability
 - a) The implementation of measures specified in the 2013-2016 EEP for the achievement of the energy saving target of at least 8% (2% per annum).
 - b) Whenever feasible, both construction and renovation projects will extend to the transition to electric heat pumps for heating and thermal storage for cooling. Natural gas will be avoided whenever possible.
 - c) Wageningen UR shall, pursuant to its sustainable purchasing policy, require potential suppliers of systems to submit a calculation of the energy and maintenance costs. Potential suppliers will also be requested to submit a calculation of the forecast annual impact on CO₂ emissions. The results from both calculations will be taken into account in the assessments.
 - d) Maintenance programmes shall explicitly extend to the identification of profitable energy-saving measures and their immediate implementation. The preparation of a sustainable Multi-Year Maintenance Plan.
 - e) The specifications for the renovation of buildings will include sustainability requirements compatible with the Leading ambition level. A building label (for example, EPA-U) will be made for all major renovation projects (>300,000 euros) and an improvement in the label of at least one level will be achieved.
 - f) The purchasing of green electricity will be continued.
2. Operational reliability
 - a) A new operational reliability inventory will be made and the results will be interpreted in terms of updated policy, protocols and a schedule.
3. Costs
 - a) Energy incentive. In order to give the Sciences Groups insight into their energy consumption and further stimulate energy saving, departments will be made responsible for their own budgets. After the chosen reference year, the departments bear budget responsibility themselves. The reference years have already been established for PSG (2011), ASG (2013), ESG (2013) and SSG (2014). AFSG will follow in 2015, once the accommodation situation has stabilised after the move to Wageningen Campus.
 - b) In principle, sustainable investments are governed by a maximum of an eight-year payback period. However, longer payback periods are acceptable in certain instances.
4. Legislation and regulations
 - a) In addition to meeting the requirements set in the Buildings Decree, new construction must also achieve a GreenCalc+ score above 330 (A+).

Waste

- During the tender process in 2013, suggestions were submitted for improving operational management, waste prevention and waste separation. The Waste Board, consisting of representatives from the various Sciences Groups and the supplier, will evaluate the suggestions on the basis of applicability and feasibility. Feasible suggestions will be worked out and applied in the coming years.
- Key Performance Indicators (KPIs) relating to monitoring supplier performance and communication with stakeholders regarding waste performance have been established and are being monitored.
- The 2016-2019 waste vision for Wageningen UR has been formulated and established.

Noise

- There are frequent changes to the established sources of noise because of new construction, maintenance, replacement and changes to research. Each change is evaluated to see whether it falls within the noise framework of the environmental permit and, in the case of Wageningen Campus, of the noise vision.
- The acoustic model for Wageningen Campus and De Dreijen is regularly updated. The annual environmental report provides yearly insight into the changes, measures and results relating to noise.

Transport

- In consultation with the province and the municipality of Wageningen, the high-speed public transport link (*Hoogwaardig Openbaar Vervoerlijn*, HOV) on Wageningen Campus will be completed in 2015 and will have an extra stop at Forum and the planned Campus Plaza. The sustainable HOV bus runs on natural gas. It is expected that this will further encourage employees and students to travel by public transport.
- In addition, work is being carried out on the construction of attractive bicycle routes, including the express bicycle route to the Ede-Wageningen station and a safer bicycle crossing for Bornsesteeg over Nijenoordallee in Wageningen.
- The Wageningen UR mobility plan has been formulated and established.

Purchasing

- Wageningen UR prepares an annual report on sustainable purchasing by means of its own sustainability scan.
- The sustainability panel will also be called on in the coming years in regards to purchasing procedures, particularly large purchasing procedures, that affect Wageningen UR as a whole.
- The central Dutch government is working on a new tendering act. This act is expected to take effect in early 2016. Wageningen UR will be following the development of the legislative proposals and estimating the consequences for Wageningen UR. It is expected that the new legislation will necessitate updating the Purchasing policy.
- Wageningen UR is continuing the initiative taken in 2014 regarding setting up a plan for Socially Responsible Purchasing (SRP) that is more ambitious than the Netherlands Enterprise Agency's sustainability criteria. This is in line with the ambition levels chosen by the various universities. This plan must also provide for a way to make the SRP figures for each university measurable.

Sustainable construction

- Construction has a direct impact on the environment. In the past several years, a number of large buildings have been added to the building stock and existing buildings have been refurbished. Significant construction work is also planned for 2015, adding another 15,000 m² of usable space at Wageningen Campus. This refers specifically to Helix, a new building for AFSG. The concentration of buildings on Wageningen Campus means that accommodation located elsewhere can be disposed of. This is expected to result in a reduction of approximately 20% of the total building area in 2015 as compared to 2010.
- The new Helix building for the Agrotechnology & Food Sciences Group will be completed. This sustainable building has a compact shape and excellent insulation, it makes use of heat recovery and concrete core activation, and it is connected to the thermal storage system. In addition, the building's electricity is supplied by wind energy which is virtually generated by our own windmills in Lelystad. In part because of these sustainability measures, the building has a GreenCalc score of 520.

- In 2013 the Executive Board approved the 2015 Campus Strategy; and in 2015 the more tactical and operational details of this strategy were laid out. Policy documents and step-by-step plans have been developed for the focus areas vibrancy, hospitality and communication, acquisition and entrepreneurship. The first achievement which deserves mention is the development of Campus Plaza and Plus Ultra. There is also a plan for the layout of that part of the campus that is accessible to all and for the continued improvement of the infrastructure.

As regards accommodations for the primary process, a great deal of attention will be paid to accommodation for education as a result of the sharp increase in the number of students. Initially, the focus will be on finding a way to optimise the use of existing buildings. If this turns out to be insufficient, continued use of De Dreijen may provide a solution. Part of optimising accommodations entails working out the multi-user concept of the buildings in more detail and, where possible, implementing/applying an open and transparent working environment.

Flora and Fauna

- In connection with the proposed demolition of various buildings in the 2015-2017 period, a flora and fauna quick scan will be carried out in 2015. A habitat suitability evaluation was also carried out in the local environment. If it is found that this demolition work causes negative effects and contraventions of the Flora and Fauna Act, further study will be carried out. On the basis of this study, an exemption procedure will be implemented and mitigating measures will be carried out.
- On the basis of the quick scan of the Biotechnion building, further studies were made and in 2015 an exemption procedure will be implemented and mitigating measures will be carried out.
- A supplementary year-round study will be carried out in 2015 for Edelhertweg 15 in Lelystad.
- Felling licences and the obligation to replant: In 2015 an overview will be drawn up of replanted trees as an extension of the requirements in the issued felling licences. This overview will be drawn up on an annual basis and summarised in the annual environmental report.

Extra area of focus within the environment: Asbestos

In 2015 the current asbestos protocol, which describes the procedures which must be followed in relation to asbestos, will be replaced by the asbestos policy.

Part of the asbestos policy entails gaining insight into where asbestos is present in the buildings. In 2015 an overview will be drawn up of those buildings predating 1994 for which there is not yet a complete asbestos inventory, which will then be carried out.

On the basis of these inventories, in the coming years an asbestos or clean-up plan will need to be drawn up and implemented in phases for each building containing asbestos; alternately, a management plan will need to be drawn up for each of these buildings which prevents exposure to asbestos fibres.

High-risk situations or emergencies will be addressed immediately.

3C Changes to permits

In addition to the regular activities, the following applications will be submitted by the Permits Centre in the coming years.

General

- Creation of a record of current environmental regulations per location or activity, in connection with recent changes to environmental legislation.

Wageningen Campus

- Partial revision of noise permit under the Dutch Environmental Permitting (General Provisions) Act for Wageningen Campus (started in 2013, to be completed in 2015).
- Revision of discharge permit under the Dutch Water Act for Wageningen Campus (2015).
- Supervision of permit requests under the Dutch Environmental Permitting (General Provisions) Act in relation to the establishment of a third party within the complex.

Lelystad WUR complex

- Exploring revision of environmental permit under the Dutch Environmental Permitting (General Provisions) Act for WUR complex Lelystad, including discharge permit (primarily a permit under the Pollution of Surface Waters Act [Wvo]). Various other changes, depending on when the Edelhertweg 15 location is vacated.

Other Lelystad

- Upon completion of the planned new construction at CVI Houtribweg 39 in 2016, starting revision of the environmental permit under the Dutch Environmental Permitting (General Provisions) Act for CVI.

Other Wageningen

- Updating permits in connection with the removals of recent years.

Other Netherlands

- For the PPO Bleiswijk location, the permit under the Dutch Environmental Management Act will be extended as requested to include working with genetically modified organisms at level MI-I.
- As a result of the planned relocation of the Ambachtsweg, Besevierenweg and Texel locations to the old marine navigation school, it is necessary to submit a Dutch Activities Decree notification.
- The expansion of Imares's research and other activities at the Spoorhaven location will also necessitate the submission of a Dutch Activities Decree notification.
- The renovation and new construction of the Sterksel pig innovation centre will be overseen.
- Request for exemption from Dutch Livestock Farming and Housing (Ammonia Emissions) Decree for multiple ASG locations. However, this depends on the decision from the Dutch Ministry of Infrastructure and the Environment. As things currently stand, this change is expected for 2015.

3D Organisation

Wageningen UR aims to comply with or exceed the current legislation and regulations.

This means that we are responsible for our own compliance with the legislation and regulations, and that the competent authorities expect that our internal inspections are well-regulated. In this case, the competent authorities can focus on specific inspections, regular inspections within a particular time period (rather than year-round) and carrying out fewer inspections.

Compliance starts with providing insight in context (Multi-Year Environmental Plan, minimal legislative and regulation requirements), up-to-date permits, compliance with permits and audits. Audits fall under the CHECK part of the Deming cycle.

In 2015-2017, Wageningen UR's compliance scan will be set up and implemented within the organisational components in stages. This will ensure that Wageningen UR is in control, supported by visual inspections by a colleague from the Quality, Health & Safety and Environment column in cooperation with Safety and Environment. The results of the compliance scan will then be discussed with management. Wishes in areas such as CSR and ISO standards can be added to the scan. Then concrete actions can be formulated and priorities can be set.

Wageningen UR opened the Permits Centre in 2010. The Permits Centre provides a point of contact for all employees and students of Wageningen UR with regard to legislation and regulations as well as serving as a point of contact for various competent authorities. Setting up the Permits Centre has provided clarity regarding all the permits which Wageningen UR holds. As a result, Wageningen UR now has insight into the risks and permit regulations at a corporate level. Various mandates within Wageningen UR specify that the Sciences Groups are themselves responsible for keeping the permits up to date and for compliance with the regulations. In this regard, the Sciences Groups are dependent on each other and need to be able to trust in one another because environmental permits are issued not per Sciences Group but at the complex level.

In the coming years, more and more permits will be transferred to the Dutch Activities Decree and the Dutch Environment and Planning Act. It is expected that the competent authorities will complete the transition to the Dutch Activities Decree and the Dutch Environment and Planning Act in 2018. An examination of whether and how the current permits relating to safety and the environment can be

transferred to the Dutch Activities Decree and the Dutch Environment and Planning Act will begin in 2015.

3E Complaints and incidents

Complaints and incidents are registered centrally, including the problem analysis, follow-up and reduction/avoidance of direct consequences. This enables Wageningen UR to:

- formulate actions to prevent recurrence.
- carry out internal and external reporting.
- gain insight at the Sciences Group level and at a corporate level.
- ensure archival accuracy.
- report to and gain information from the competent authority.

Environmentally-related complaints and incidents are listed in the annual environmental reports.

Appendix 1. Glossary of terms

Organisation

AFSG	Agrotechnology & Food Sciences Group
ASG	Animal Sciences Group
CS+	Corporate Staff including Wageningen Academy and Wageningen International
CVI	Central Veterinary Institute
E&EL	Energy & Exploitation Lelystad
ESG	Environmental Sciences Group
FB	Facilities and Services
IMARES	Institute for Marine Resources and Ecosystem Studies
PSG	Plant Sciences Group
RIKILT	RIKILT-Institute for Food Safety
RvB	Executive Board
SSG	Social Sciences Group
Wageningen UR	Wageningen University & Research centre
WA	Wageningen Academy
WI	Wageningen International

Terms

EEP	Energy Efficiency Plan
Erbis	Energy registration, management and information system
GROS	<i>Gevaarlijke stoffen Registratie- en Opsporingssysteem</i> ('hazardous substances registration and investigation system')
HOV	High-speed public transport link (<i>Hoogwaardig Openbaar Vervoerlijn</i>)
KAM	Quality, Health & Safety and Environment
CSR	Corporate Social Responsibility
PDCA	Plan, Do, Check, Act
Wabo	Dutch Environmental Permitting (General Provisions) Act
WKO	Thermal storage system
Wm	Dutch Environmental Management Act

Appendix 2. The legal framework relating to the environment for Wageningen UR

Legal framework relating to the environment					
Non-exhaustive, as of December 2014					
	International	Acts	Decrees	Regulations	Other
Administrative law		General Administrative Law Act (<i>Algemene wet bestuursrecht, Awb</i>)			
		Environmental Permitting (General Provisions) Act (<i>Wet algemene bepalingen omgevingsrecht, Wabo</i>)	Environmental Permitting Decree (<i>Besluit omgevingsrecht, Bor</i>)	Ministerial Environmental Regulation (<i>Ministeriële regeling omgevingsrecht, MOR</i>)	
Criminal law		Economic Offences Act (<i>Wet op de economische delicten</i>)			
		Dutch Penal Code (<i>Wetboek van Strafrecht</i>)			
Spatial planning		Spatial Planning Act (<i>Wet ruimtelijke ordening, Wro</i>)	various decrees	various regulations	Municipal and provincial zoning plans
Environmental law		Environmental Management Act (<i>Wet milieubeheer, Wm</i>)			
			General Rules for Establishments (Environmental Management) Decree (<i>Besluit algemene regels voor inrichtingen milieubeheer</i>) (Activities Decree)	General Rules for Establishments (Environmental Management) Regulations (<i>Regeling algemene regels voor inrichtingen milieubeheer</i>)	
			Environmental Impact Assessment Decree 1994 (<i>Besluit milieueffectrapportage 1994, Besluit MER</i>)		
					National, provincial and municipal environmental policy plans, by-laws and programmes
		Council Directive 96/61/EC of 24 September 1996 concerning integrated pollution prevention and control as codified by Directive 2008/1/EC (IPPC Directive)			
		Directive 2004/35/CE on environmental liability with regard to the prevention and remedying of environmental damage			

Appendix 2 (continued) The legal framework relating to the environment for Wageningen UR

	International	Acts	Decrees	Regulations	Other
Noise		Noise Abatement Act (<i>Wet geluidhinder</i> , Wgh)			Wageningen Campus noise vision
			Noise Abatement Decree (<i>Besluit geluidhinder</i>)		
			Environmental Noise Decree (<i>Besluit omgevingslawaai</i>)	Environmental Noise Regulation (<i>Regeling omgevingslawaai</i>)	
				<i>Regeling geluidemissie buitenmaterieel</i> ('Regulation relating to noise emission by equipment for use outdoors')	
					<i>Handleiding meten en rekenen industrielawaai</i> ('Guidebook for measuring and calculating industrial noise')
Waste	Framework Directive on Waste 2006/12/EC			<i>Regeling Europese afvalstoffenlijst</i> ('European Waste Catalogue regulation')	
	Directive 91/689/EEC on hazardous waste				
	European Waste Catalogue (EWC)			<i>Regeling integrale tekst Afvalstoffenlijst</i> ('Regulation on the full text of the Waste Catalogue')	
					2009-2021 National Waste Management Plan (<i>Landelijk afvalbeheerplan 2009-2021, LAP2</i>)
			Waste Substances (Collection) Decree (<i>Besluit inzamelen afvalstoffen</i>)	Regulations governing Transporters, Collectors, Dealers and Brokers of Waste Substances (<i>Regeling inzamelaars, vervoerders, handelaars en bemiddelaars van afvalstoffen, RIA</i>)	
			Notification of Industrial and Hazardous Waste Decree (<i>Besluit melden bedrijfsafvalstoffen en gevaarlijke afvalstoffen</i>)		
			Dumping Locations and Waste Substances (Dumping Ban) Decree (<i>Besluit stortplaatsen en stortverboden afvalstoffen, BSSA</i>)		

Appendix 2 (continued) The legal framework relating to the environment for Wageningen UR

	International	Acts	Decrees	Regulations	Other
Waste (continued)				<i>Regeling scheiden en gescheiden houden van gevaarlijke afvalstoffen</i> ('Regulation on separating hazardous waste and keeping it separated')	
					<i>Programma Gescheiden Inzameling van Bedrijfsafval</i> (GIBA, 'Programme for separate collection of industrial waste')
					<i>'Wegen naar preventie bij bedrijven'</i> guide ('Ways to prevent [waste] in businesses')
Asbestos			Working Conditions Decree (<i>Arbeidsomstandighedenbesluit</i>)		
			Asbestos (Products) Regulation and Asbestos (Products) Decree (<i>Productenregeling en -besluit asbest</i>)		
			Asbestos Removal Decree (<i>Asbestverwijderingsbesluit</i>)		
Water and water quality	Water Framework Directive (2000/60/EC)				
		Water Act (<i>Waterwet, Wtw</i>)	Water decree (<i>Waterbesluit, WaB</i>)		
			Water (Quality Requirements and Monitoring) Decree (<i>Besluit kwaliteitseisen en monitoring water</i>)		
			General Rules for Establishments (Environmental Management) Decree (<i>Besluit algemene regels voor inrichtingen milieubeheer, Barim</i>)	General Rules for Establishments (Environmental Management) Regulations (<i>Regeling algemene regels voor inrichtingen milieubeheer, Rarim</i>)	
Soil		Soil Protection Act (<i>Wet Bodembescherming, Wbb</i>)			
		Soil Clean-up (Interim) Act (<i>Interimwet bodemsanering</i>)			
			General Rules for Establishments (Environmental Management) Decree (<i>Besluit algemene regels voor inrichtingen milieubeheer, Barim</i>)	General Rules for Establishments (Environmental Management) Regulations (<i>Regeling algemene regels voor inrichtingen milieubeheer, Rarim</i>)	

Appendix 2 (continued) The legal framework relating to the environment for Wageningen UR

	International	Acts	Decrees	Regulations	Other
Soil (continued)			Soil Quality Decree (<i>Besluit Bodemkwaliteit</i>)	Soil Quality Regulations (<i>Regeling Bodemkwaliteit</i>)	
					Dutch Soil Protection Guidelines for Business Activities (<i>Nederlandse Richtlijn Bodembescherming bedrijfsmatige activiteiten</i> , NRB)
					AS6700/6701 (replaces CUR/PBV recommendation 44)
					CUR/PBV recommendation 51
Air	Air quality framework directive (96/62/EC)				
		Air Pollution Act (<i>Wet inzake de luchtverontreiniging</i>)			
			<i>Besluit niet in betekende mate bijdragen (luchtkwaliteitseisen)</i> ('Decree regarding not contributing to a significant degree [air quality requirements]')	<i>Regeling niet in betekende mate bijdragen (luchtkwaliteitseisen)</i> ('Regulation regarding not contributing to a significant degree [air quality requirements]')	
			Emission Limits (Combustion Plants) Decree (Environmental Management A) (<i>Besluit emissie-eisen stookinstallaties milieubeheer A, Bees A</i>)		Note: Bees A expires as of 1 January 2016.
			General Rules for Establishments (Environmental Management) Decree (<i>Besluit algemene regels voor inrichtingen milieubeheer, Barim</i>)	General Rules for Establishments (Environmental Management) Regulations (<i>Regeling algemene regels voor inrichtingen milieubeheer, Rarim</i>)	
				<i>Regeling beoordeling luchtkwaliteit</i> ('Air quality evaluation regulation')	
					National Air Quality Cooperation Programme (<i>Nationaal Samenwerkingsprogramma Luchtkwaliteit</i> , NSL)
					Dutch Emission Guidelines for Air (<i>Nederlands emissierichtlijn Lucht, NeR</i>)
Energy	EPBD	Electricity Act (<i>Elektriciteitswet</i>), Gas Act (<i>Gaswet</i>)	2012 Buildings Decree (<i>Bouwbesluit</i> 2012)	Installation inspections and requirements for inspections, including thermal storage systems, combustion plants and cooling equipment (coolants).	Multi-Year Agreement on energy efficiency in universities (MJA3)
					Energy Efficiency Plan (EEP)

Appendix 2 (continued) The legal framework relating to the environment for Wageningen UR

	International	Acts	Decrees	Regulations	Other
Hazardous materials	Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) EC 1907/2006				
	The United Nations' Globally Harmonised System of Classification and Labelling of Chemicals (GHS)				
	CLP-Regulation (EC) No 1272/2008				
	European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)	Carriage of Dangerous Goods Act (<i>Wet vervoer gevaarlijke stoffen, Wvgs</i>)	Carriage of Dangerous Goods Decree (<i>Besluit vervoer gevaarlijke stoffen</i>)	Carriage of Dangerous Goods Regulations (<i>Regeling vervoer gevaarlijke stoffen</i>)	
				<i>Regeling veiligheidsadviseur vervoer gevaarlijke stoffen</i> ('Safety adviser for the carriage of dangerous goods regulation')	
					See also 'Storage' (Publication Series on Dangerous Substances guidelines)
	Dangerous Substances Directive (67/548/EEC) and Dangerous Preparation Directive (1999/45/EC)	Environmentally Hazardous Substances and Preparations (Packaging and Labelling) Decree (<i>Besluit verpakking en aanduiding milieugevaarlijke stoffen en preparaten</i>)			
	Regulation (EC) No 1005/2009 on substances that deplete the ozone layer (ODS)		<i>Uitvoeringsbesluit EG-verordening ozonlaagafbrekende stoffen</i> ('Implementation decree on the EC Regulation on substances that deplete the ozone layer')		
			2007 Fluorinated Greenhouse Gases (Chemical Substances Act) Decree (<i>Besluit gefluoreerde broeikasgassen Wms 2007</i>)	<i>Regeling gefluoreerde broeikasgassen en gereguleerde stoffen koelinstallaties</i> ('Regulation on fluorinated greenhouse gases and regulated substances used in cooling equipment')	
			<i>Regeling gefluoreerde broeikasgassen brandbeveiligingssystemen</i> ('Regulation on fluorinated greenhouse gases used in fire protection systems')		
		<i>Regeling verwijdering PCB's</i> ('Regulation on the disposal of PCBs')			

Appendix 2 (continued) The legal framework relating to the environment for Wageningen UR

	International	Acts	Decrees	Regulations	Other
Purchase/possession of chemicals		Medicines Act (<i>Geneesmiddelenwet</i>)	Medicines Act Decree (<i>Besluit geneesmiddelenwet</i>)	Medicines Act Regulation (<i>Regeling geneesmiddelenwet</i>)	
	Directive 2001/82/EC	Animals Act (<i>Wet dieren</i>)	Animal Medicines Decree (<i>Besluit diergeneesmiddelen</i>)	Animal Medicines Regulation (<i>Regeling diergeneesmiddelen</i>)	
		Excise Duty Act (<i>Wet op de accijns</i>)			
		Opium Act (<i>Opiumwet</i>)	Opium Act Decree (<i>Opiumwetbesluit</i>)	Opium Act Implementing Regulations (<i>Uitvoeringsregeling Opiumwet</i>)	
	Regulation (EEC) No 3677/90 laying down measures to be taken to discourage the diversion of certain substances to the illicit manufacture of narcotic drugs and psychotropic substances	Abuse of Chemical Substances (Prevention) Act (<i>Wet voorkoming misbruik chemicaliën, WVMC</i>)			
	Chemical Weapons Convention	Chemical Weapons Convention (Implementation) Act (<i>Uitvoeringswet verdrag chemische wapens</i>)	Chemical Weapons Convention (Implementation) Decree (<i>Uitvoeringsbesluit verdrag chemische wapens</i>)		
Storage					Publication Series on Dangerous Substances (<i>Publicatiereeks Gevaarlijke Stoffen</i> , PGS) Nos. 7, 8, 13, 15, 25, 28, 30 and 33.
Safety		Housing Act (<i>Woningwet, Ww</i>)			
			Buildings Decree (<i>Bouwbesluit</i>)	2012 Building Regulations (<i>Regeling Bouwbesluit 2012</i>)	Municipal building regulations
			Disasters and Major Accidents (Provision of Information) Decree (<i>Besluit Informatie inzake rampen en zware ongevallen, BIRO</i>)		
			Major Accidents (Risks) Decree (<i>Besluit risico's zware ongevallen, Brzo 1999</i>)		
			Public Safety (Establishments) Decree (<i>Besluit externe veiligheid inrichtingen, Bevi</i>)	Public Safety (Establishments) Regulation (<i>Regeling externe veiligheid inrichtingen, Revi</i>)	
		Steam Act (<i>Stoomwet</i>)	Pressure Equipment (Commodities Act) Decree (<i>Warenwetbesluit drukapparatuur</i>)	Pressure Equipment (Commodities Act) Regulation (<i>Warenwetregeling drukapparatuur</i>)	
	ATEX 137 workplace directive 99/92/EC				
	ATEX 95 equipment directive 94/9/EC				

Appendix 2 (continued) The legal framework relating to the environment for Wageningen UR

	International	Acts	Decrees	Regulations	Other	
Nature		Flora and Fauna Act (<i>Flora en Faunawet</i> , Ffw)				
		Nature Conservation Act 1998 (<i>Natuurbeschermingswet</i> 1998, <i>Nb-wet</i> 1998)				
Agriculture			General Rules for Establishments (Environmental Management) Decree (<i>Besluit algemene regels voor inrichtingen milieubeheer</i> , Barim)	General Rules for Establishments (Environmental Management) Regulations (<i>Regeling algemene regels voor inrichtingen milieubeheer</i> , Rarim)		
		Fertilisers Act (<i>Meststoffenwet</i>)				
		Ammonia and Livestock Farming Act (<i>Wet ammoniak en veehouderij</i> , Wamv)		Ammonia and Livestock Farming Regulation (<i>Regeling ammoniak en veehouderij</i> , Rav)		
			<i>Besluit ammoniakemissie huisvesting veehouderijen</i> ('Decree on ammonia emissions from stalls on livestock farms')			
		Odour Nuisance and Livestock Farming Act (<i>Wet geurhinder en veehouderij</i> , Wgv)		Odour Nuisance and Livestock Farming Regulation (<i>Regeling geurhinder en veehouderij</i> , Rgv)		
			Animals Farmed for Production (Designation) Decree (<i>Besluit aanwijzing voor productie te houden dieren</i>)			
		Council Directive 91/414/EEC of 15 July 1991 concerning the placing of plant protection products on the market	Plant Protection Products and Biocides Act (<i>Wet gewasbeschermingsmiddelen en biociden</i> , Wg&b)	Plant Protection Products and Biocides Decree (<i>Besluit gewasbeschermingsmiddelen en biociden</i>)	Plant Protection Products and Biocides Regulation (<i>Regeling gewasbeschermingsmiddelen en biociden</i>)	
		Directive 98/8/EC of the European Parliament and of the Council of 16 February 1998 concerning the placing of biocidal products on the market				

Appendix 2 (continued) The legal framework relating to the environment for Wageningen UR

	International	Acts	Decrees	Regulations	Other
GMOs	Council Directive 98/81/EC of 26 October 1998 amending Directive 90/219/EEC on the contained use of genetically modified micro-organisms		<i>Besluit genetisch gemodificeerde organismen milieubeheer</i> (Bggo, 'Decree on genetically modified organisms and environmental management')	<i>Regeling genetisch gemodificeerde organismen milieubeheer</i> (Rggo, 'Regulation on genetically modified organisms and environmental management')	
	Directive 2001/18/EC of the European Parliament and of the Council of 12 March 2001 on the deliberate release into the environment of genetically modified organisms and repealing Council Directive 90/220/EEC				
Radiation	EURATOM Directives	Nuclear Energy Act (<i>Kernenergiewet</i> , KEW)	Radiation Protection Decree (<i>Besluit Stralingsbescherming</i>)	Various regulations	
Note! The legal frameworks relating to Health & Safety, the Dutch Experiments on Animals Act and import & export are not included in this overview.					

Appendix 3. Supplementary environmental policy, environmental objectives and results achieved by the Sciences Groups

Goals for ESG for the period 2015-2017

1	Systems	<p>In making policy decisions, the sustainability aspects (People, Planet & Profit) are continually given consideration. The self-assessment of corporate social responsibility (ISO 26000) serves as a guide in this regard.</p> <p>CSR objectives include:</p> <ul style="list-style-type: none"> • Raising awareness of ESG employees with regard to the involvement of stakeholders, ethical conduct, human rights and role towards government. • When preparing international projects, CSR aspects are taken into account. 	<ul style="list-style-type: none"> • Activities for sustainability are included in the annual plans and budgets of ESG (teams, chair groups and supporting departments). • Successful internal and external evaluations of the ISO 9001 and ISO 14001 certified assurance systems. • Evaluation by the ESG Management Council of whether the sustainability policy is having the intended effect, by means of an annual management review conducted in October. Policy and goals will be adjusted as needed. • Action plans are implemented so as to comply with the ISO 26000 guidance on corporate social responsibility. 	Wageningen Campus																					
2	Water	<p>Water consumption at least remaining the same compared to the average over the past five years (given equivalent conditions)</p>	<p>Monthly monitoring of water consumption so that measures can be taken in case of deviations.</p>																						
3	Energy	<p>Reduction in electricity and gas consumption by 2% compared to the average over the past five years (given equivalent conditions).</p>	<p>Monthly monitoring of energy consumption so that measures can be taken in case of deviations. Possibilities for saving energy will be investigate.</p> <p>The Multi-Year Forecast for electricity and gas consumption is given in the table below. This table covers the average consumption for the buildings Gaia, Lumen and part of Atlas. The waste from Atlas has been calculated as follows: two thirds from ESG and one third from CS+.</p> <p>The reference year is 2013, the first year after renovations.</p> <table border="1"> <thead> <tr> <th>Energy</th> <th>2017 (8% compared to 2013)</th> <th>2016 (6% compared to 2013)</th> <th>2015 (4% compared to 2013)</th> <th>2014 (2% compared to 2013)</th> <th>2013 (reference year)</th> <th>Average for 2008-2012</th> </tr> </thead> <tbody> <tr> <td>Electricity</td> <td>3,570,994</td> <td>3,643,871</td> <td>3,718,236</td> <td>3,794,118</td> <td>3,871,549</td> <td>3,880,288</td> </tr> <tr> <td>Natural gas</td> <td>446,090</td> <td>455,194</td> <td>464,484</td> <td>473,963</td> <td>483,636</td> <td>463,707</td> </tr> </tbody> </table>	Energy	2017 (8% compared to 2013)	2016 (6% compared to 2013)	2015 (4% compared to 2013)	2014 (2% compared to 2013)	2013 (reference year)	Average for 2008-2012	Electricity	3,570,994	3,643,871	3,718,236	3,794,118	3,871,549	3,880,288	Natural gas	446,090	455,194	464,484	473,963	483,636	463,707	
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Appendix 3 (continued) Supplementary environmental policy, environmental objectives and results achieved by the Sciences Groups

Goals for ESG for the period 2015-2017

4	Waste (paper)	<p>The goal is a reduction of 5% compared to the average over the past five years (given equivalent conditions).</p>	<ul style="list-style-type: none"> Optimising separation of waste flows, including those for paper, cardboard, plastic, IT materials, glass, batteries and hazardous waste. Participation in the Wageningen UR-wide Waste Board. <p>The Multi-Year Forecast for the waste flows is given in the table below. It shows the amount of waste produced by the buildings Gaia, Lumen and part of Atlas. The waste from Atlas has been calculated as follows: two thirds from ESG and one third from CS+. The reference year is 2013, the first year after renovations.</p> <table border="1"> <thead> <tr> <th>Waste flows (kg)</th> <th>2017 (20% compared to 2013)</th> <th>2016 (15% compared to 2013)</th> <th>2015 (10% compared to 2013)</th> <th>2014 (5% compared to 2013)</th> <th>2013 (reference year)</th> <th>Average for 2008-2012</th> </tr> </thead> <tbody> <tr> <td>Paper waste</td> <td>26,028</td> <td>27,474</td> <td>28,920</td> <td>30,442</td> <td>32,045</td> <td>44,244</td> </tr> <tr> <td>Residual waste</td> <td>45,096</td> <td>47,469</td> <td>49,967</td> <td>52,597</td> <td>55,365</td> <td>60,318</td> </tr> <tr> <td>Hazardous waste</td> <td>12867</td> <td>13,544</td> <td>14,257</td> <td>15,007</td> <td>15,797</td> <td>14,105</td> </tr> <tr> <td>Glass waste</td> <td>979</td> <td>1,033</td> <td>1,087</td> <td>1,144</td> <td>1,204</td> <td>829</td> </tr> <tr> <td>Total</td> <td>84,943</td> <td>89,520</td> <td>94,231</td> <td>99,190</td> <td>104,447</td> <td>119,469</td> </tr> </tbody> </table>	Waste flows (kg)	2017 (20% compared to 2013)	2016 (15% compared to 2013)	2015 (10% compared to 2013)	2014 (5% compared to 2013)	2013 (reference year)	Average for 2008-2012	Paper waste	26,028	27,474	28,920	30,442	32,045	44,244	Residual waste	45,096	47,469	49,967	52,597	55,365	60,318	Hazardous waste	12867	13,544	14,257	15,007	15,797	14,105	Glass waste	979	1,033	1,087	1,144	1,204	829	Total	84,943	89,520	94,231	99,190	104,447	119,469	Wageningen Campus
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5	Transport	<p>Critical attitude towards business travel (within the Netherlands and abroad) The objectives are: Staying the same or improving as compared to last year. Standard CO₂ compensation of air travel.</p> <ul style="list-style-type: none"> Promoting environmental awareness with regard to business travel in the Netherlands and abroad. Automatic CO₂ compensation when booking airline tickets. 	<p>The ESG wants to take an environmentally-conscious approach to business travel in the Netherlands and abroad. Guidelines have been established which primarily emphasise the choices, such as: travelling by aeroplane or not, travelling by public transport or not, using videoconferencing or not. In concrete terms, this means that:</p> <ul style="list-style-type: none"> 'Remote communication' through the use of tools such as video conferencing and Skype is being encouraged. Where possible, trains are used for short distances within Europe (up to approximately 750 km). 	Wageningen Campus																																										

Appendix 3 (continued) Supplementary environmental policy, environmental objectives and results achieved by the Sciences Groups

Goals for ESG for the period 2015-2017

6	Purchasing	<p>Sustainable purchasing Conscious sustainable purchasing (for operational management and projects) by chair groups, teams and supporting departments. The criteria for sustainable purchasing are to be applied as far as possible.</p>	<p>In order to focus attention on the theme of sustainable purchasing among project managers, sustainable purchasing has been made one of the points for attention on the environmental checklist for projects. In line with the CSR policy, the purchasing policy has been expanded to include CSR aspects. The application of purchasing criteria relating to CSR is an area of attention for ESG, particularly in purchasing for international projects. This procedure is now in full progress.</p>	Wageningen Campus
7	Other, namely: Paper use	<p>Paper use Reduction in the number of prints per FTE by 5% compared to the previous year.</p> <ul style="list-style-type: none"> • Promoting digitisation and paper-conscious printing. • Increasing employee awareness of their printing behaviour. 	<p>Promoting digitisation and paper-conscious printing In order to give employees insight into the printing behaviour of their team, chair group or department, a report was drawn up once per quarter of the number of prints per cost centre. This insight into printing behaviour had a positive effect. Compared to the previous year, printing and copying was reduced by 12.6% - from 4.5 million prints in 2012 to 3.9 million prints in 2013. Approximately 80% of prints are double-sided. This means that the printers and copiers have used approximately 682 fewer packages of paper compared to 2012.</p> <p>The following projects which could contribute to a reduction in paper use will be continued in 2015:</p> <ul style="list-style-type: none"> • The project 'Foundation in order,' focusing on better management of digital documents and digital archives. • The implementation of digital project files at Alterra. Project managers can use the time tracking system MyProjects to make a team site for project documents. 	Wageningen Campus