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**INDUSTRY VOLUNTARY AGREEMENT TO IMPROVE THE  
ENVIRONMENTAL PERFORMANCE**

**OF**

**IMAGING EQUIPMENT PLACED ON THE EUROPEAN MARKET**

Version 2.5

19 February 2010

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# 1 Introduction

The Imaging Industry is an innovative industry with a long track record on environmental improvements. The Imaging Industry wishes to formalize their commitment to continuous improvement via this voluntary agreement ("Voluntary Agreement") which we believe will help to contribute to the achievement of the EU Action Plan on Energy Efficiency. It is expected that the proposed Commitments as defined herein will enable energy savings of around 1 to 1,5 TWh per year in EU27 excluding the additional savings that will be made through increased resource efficiency. This Voluntary Agreement should enable customers to make more sustainable purchasing decisions by providing them more accurate information on the environmental performance of our products.

The Imaging Industry has been working on this Voluntary Agreement since spring 2009 and has been open for participation from all producers. The current market coverage of the companies involved in the drafting process is **over 95%** based on units sold in the EU. The goal is to continue to expand the coverage of the voluntary agreement and to include as many companies as possible.

The scope of the voluntary agreement is based on the EuP Preparatory Study and linked with Energy Star. It aims to target the highest sales volume products and technologies on the household and office market. Technologies of declining markets such as small photo and scanner devices have been excluded from the scope of the agreement to ensure that companies can focus resources on improving the performance of our products in the high volume, high growth markets/sectors..

It became clear from the EuP Preparatory Studies on "Imaging Equipment" (Lot 4), that the product category Imaging Equipment contains a wide variety of product types, designed and marketed for a wide variety of markets and applications. Products range from a very affordable personal printer, that is used occasionally by a private household user, through multifunctional devices used in offices to accommodate the daily needs for copying, printing, scanning and faxing of documents for groups of office workers, up to highly productive printing systems that are designed to run continuously in print rooms. For such widely different applications, widely different imaging technologies have been developed since instant printing emerged in the market in the 1920's: inkjet printing and electrophotographic printing are the most well-known of the core technologies used in the printers to transfer information onto paper. In addition to the core technologies, a wide range of additional convenient functionalities have been added to imaging equipment: ranging from modules for automated duplex printing, into modules for stapling, punching and even digital document storage inside the printer's memory. Each technology and each additional function has its own environmental impact. It should be noted that the implementations of the core technologies and additional functions is very different between the different producers in the imaging industry.

When setting out to develop the underlying Voluntary Agreement, the imaging Industry was faced with the challenge to formulate requirements that are not only relevant and significant for achieving environmental efficiency, but also applicable to the wide range of different imaging products present in the market. Despite the fact that the imaging industry focussed on the products that are sold in the highest numbers, by limiting the product scope to household and office equipment, still the problem of diversity remained, which is mainly driven by the wide variety of customer requirements in the imaging market.

For the reasons outlined above, the Imaging Industry will commit to the requirements in this Voluntary Agreement for the vast majority of its products. Nevertheless the allowance of exemptions could not be avoided.

In line with the European Commission "Communication on Environmental Agreements at Community level within the Framework of the Action Plan on the Simplification and

Improvement of the Regulatory Environment<sup>1</sup>, this Agreement should be acknowledged by the European Commission through an exchange of letters with the Signatories.

## 2 Objectives

- 2.1 Continuously improve the environmental performance of the types of imaging equipment in scope of this agreement.
- 2.2 Contribute to the objectives of Directive 2009/125/EC establishing a framework for the setting of ecodesign requirements for energy-related products, in line with Recitals 18-20 and Annex VIII.on self-regulation.
- 2.3 Ensure the involvement of all stakeholders represented in the Consultation Forum in monitoring of the results and updating the requirements of the Voluntary Agreement.

## 3 Scope

- 3.1 General: All terms used in this section are defined in Annex C, Part VII to the Agreement between the Government of the United States and the European Community on the coordination of energy-efficiency labelling programmes for office equipment, as set out in the Annex of Commission Decision 2009/347/EC (Energy Star).
- 3.2 For the purposes of this Agreement, “products” are understood as imaging equipment meeting the conditions in section 3.3.
- 3.3 Scope:
  - 3.3.1 Product categories: The Voluntary Agreement covers imaging equipment belonging to one of the following product categories that have been reviewed in the EuP Lot 4 preparatory study:
    - Copiers
    - Multifunction Devices (MFDs)
    - Printers
    - Fax machines

Cartridges and other ink containers and consumables are not covered by the requirements in this Agreement except where specifically referred to.

- 3.3.2 Marking technologies: This Agreement is limited to the following marking technologies:
  - Electrophotography (EP)
  - Inkjet (IJ), including high performance IJ
  - Solid Ink (SI)

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<sup>1</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:52002DC0412:EN:NOT>

- 3.3.3 Household and office equipment: This Agreement is limited to household and office equipment, meaning:
- BW Standard size format products with maximum speed < 66 A4 images per minute
  - Colour Standard size format products with maximum speed <51 A4 images per minute
- (Speed to be rounded to the nearest integer as prescribed in the ENERGY STAR agreement).  
Other format products can be included in their reporting by individual Signatories on a voluntary basis.

## 4 Commitments Part I – Design Requirements

Signatories commit to:

### 4.1 Energy Star compliance:

- a) Products as defined in section 3 and placed by Signatories on the EU market will meet the specifications of Energy Star v1.1 in accordance with the following targets:
- By 1 January 2011: 60% or more of the products placed by a Signatory on the market.
  - By 1 January 2012: 80% or more of the products placed by a Signatory on the market.
- b) The specifications in Energy Star v1.1 concern:
1. energy consumption requirements (TEC and OM products);
  2. default delay times (OM products); and
  3. duplex availability (TEC products).
- c) For the purposes of compliance with section (a) above, the rate of compliance shall be calculated following the methodology described in Annex B.

### 4.2 Default settings – duplex

TEC products with automatic duplexing as a standard feature at the time of purchase placed on the market after 1 January 2012 shall be set to duplex-printing by default when printing from the computer, meaning that the relevant software will be configured so that the first print-job will be in duplex unless the print settings have been modified at the stage when the product is first installed to function as intended.

This requirement does not apply to functions other than print mode (such as scanning).

### 4.3 End-of-life

From 1 January 2011, toner modules and containers as well ink modules and containers placed on the market by Signatories along with the original equipment, as well as those recommended in the product documentation for use in the respective

device, must be so designed as to enable their channelling to reuse or material recycling<sup>2</sup>

An exception from the criteria in section 4.2 and 4.3 will be acceptable for models that are sold in small numbers (less than 5000 per year), on the ground that the cost of implementing the criteria is disproportionate to the sales of the product. Exceptions should be reported to the Independent Inspector (see Annex C, section 4 for reporting template).

## 5 Commitments Part II – Information Requirements

Signatories commit to:

### 5.1 Environmental information for end-users in relation to use and end-of-life

#### 5.1.1 Resource- and energy-efficiency

Signatories commit to providing end-users with information regarding resource efficiency when using imaging equipment. The intent is to ensure the end-user is made aware of good efficiency practices when they first begin to use a new product. Signatories shall achieve this through one of the following methods:

- A pop-up screen on the end-users' computer during the initial installation of software (preferred)
- An insertion sheet provided in/on the box of the product as defined in Section 3 above
- An insertion sheet to be provided at the time of sale of the product as defined in Section 3 above

The following information shall be provided as a minimum<sup>3</sup> where applicable:

5.1.1.1 Information that recycled as well as virgin paper certified under environmental stewardship initiatives, or carrying recognised ecolabels, may be suitable providing that it meets appropriate quality standards as defined, for example, in EN 12281 on "Printing and business paper for dry toner imaging processes" for papers in the range 75-250 g/m<sup>2</sup>. For specific applications, the lower boundary may be chosen at 64 g/m<sup>2</sup>.

5.1.1.2 For Electro Photography printers: indication that these can print on 64 gr/m<sup>2</sup> paper and that this paper contains less raw material per print, thus saving significant resources.

5.1.1.3 Energy can be saved by purchasing Energy Star compliant products

5.1.1.4 Description of the benefits of printing in duplex mode (for TEC products having a duplex function)

5.1.1.5 The environmental benefits of power management

The information as described in sections 5.1.1.1 through 5.1.1.5 will be provided in the form of compact statements .

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<sup>2</sup> The paragraph is drawn from section 3.2.1.1 on recyclable design and reuse from the Blue Angel document (RAL-UZ 122).

<sup>3</sup> Not all 5 statements mentioned in section 5.1.1 may be applicable to the product that is equipped with this information. Manufacturers are free to choose if they add a statement to this effect to the information, or leave out statements that are not applicable, such as the statement regarding electrophotography and duplex printing.

This paragraph 5.1.1 applies to: all products placed on the market after January 1, 2012. Paper weight mentioned in the pop-up window (or alternatives as described above) will be consistent with the paper weight specifications of the product.

#### 5.1.2 Cartridge disposal and treatment

For products placed on the market after 1 January 2011, Signatories will provide end-users with information on suitable end-of-life management options for used cartridges. This information may be communicated via a company website.

### 5.2 Information on product environmental characteristics to be provided by Signatories

The following applies to products placed on the market after 1 January 2011.

5.2.1 Signatories will make information on the environmental performance of their products available to customers. This information may take the form of for example ECMA 370 The Eco Declaration<sup>4</sup>, EPEAT verification documentation<sup>5</sup>, or similar company formats.

5.2.2 Signatories will make information on inkjet and toner cartridge yield available to customers based on the measurement standards specified, for example, in ISO/IEC 24711, ISO/IEC 19752, or ISO/IEC 19798 or through other company methods.

An exception from the requirements in this section 5 will be acceptable for models that are sold in small numbers (less than 5000 per year), on the ground that the cost of implementing the criteria is disproportionate to the sales of the product. Exceptions should be reported to the Independent Inspector (see Annex C, section 4 for reporting template).

## 6 Reporting and monitoring

6.1 Signatories shall submit to an Independent Inspector reports based on compliance with the Voluntary Agreement (the "Reports") according to the guidelines in this Section

6.2 The reports shall include:

- Company name
- Compliance status (compliant/non-compliant) + sales data per model (to allow for verification)
- Rate of compliance with the commitments listed in section 4.1.
- Compliance confirmation for all other commitments

Annex C shows the template according to which the Reports shall be prepared by the Signatories.

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4 The eco declaration (ECMA 370) is a communication tool for customers. ECMA 370 declaration was developed to answer questions from customers to choose the best supplier. The standard addresses individual company programs and product related attributes.

5 EPEAT, the Electronic Product Environmental Assessment Tool, is a set of environmental criteria to support green public procurement and environmentally conscious purchasing decisions. For Imaging Equipment, an EPEAT standard is being developed (IEEE1680.2), that will include a specification of the verification documentation that the manufacturer has to make available in order to have a product registered with EPEAT. This documentation will provide disclosure of environmental performance.

Compliance to all Commitments has to be reported according to the following schedule:

- A first Report shall cover products placed on the market and Signatory commitments between October 1<sup>st</sup>, 2010 and March 31<sup>st</sup>, 2011. This Report will demonstrate compliance with the targets set for January 1, 2011.
- Subsequent Reports shall be prepared over calendar years from January 1, 2011 onwards.

Within two weeks following the end of a reporting period, the Independent Inspector shall send a request to the Signatories to file their Reports. These shall be submitted no later than three months after the end of the reporting period to the Independent Inspector. The deadlines for submission of the Reports shall thus be July 1<sup>st</sup> 2011 for the first Report and March 31<sup>st</sup> of the year following the reporting period for the subsequent Reports.

The Reports shall be compiled by the Independent Inspector into an annual progress report (the "Annual Progress Report") that will be submitted to the Steering Committee within 4 months following the end of a period. This Annual Progress Report will be prepared by the Independent Inspector and will only show anonymous results. Signatories will not be named although individual achievements shall be disclosed (company A, company B, etc).

The Independent Inspector shall be responsible for ensuring that confidentiality of the Signatory's identity and any data or information provided to it under or in relation to this agreement is maintained this shall include entering into a non-disclosure agreement with each Signatory if requested by the Signatory..

- 6.3 The Steering Committee will meet at least once a year to discuss the Annual Progress Report and shall decide if an independent audit is required to verify the accuracy "Annual Progress Report" or of an individual signatory. The results of the independent audit will be submitted to the Steering Committee. Any independent auditor will be required to treat the identity and data of the Signatories as confidential and shall if requested by any Signatory enter into a non-disclosure agreement with each Signatory before having access to the data.

## **7 Nature and Organization of the Voluntary Agreement**

### **7.1 Nature of the Voluntary Agreement**

The Signatory signs and enters into this Agreement for and on behalf of itself and makes its Commitment under the Agreement to the European Commission. The consequences of non-compliance are set out in section 9.

This Agreement shall not amount to a commercial agreement and shall not give rise to any commercial expectations or liabilities between the Signatories in respect of the fulfilment of their individual Commitments as listed in this Voluntary Agreement.

All Signatories will be treated equally and there shall be no special arrangements for individual Signatories.

### **7.2 Organisation of the Voluntary Agreement**

Each Signatory to the Agreement as well as the European Commission shall have the right to nominate one person to represent it at the Steering Committee.



The Steering Committee shall elect, from amongst its members, a Chair. The Chair shall be responsible for convening the Steering Committee at regular intervals (and at least twice within every Reporting Period) and for running such meetings of the Steering Committee. The Chair shall, however, have no executive or representative function unless this is delegated to them by the Steering Committee.

Meetings of the Steering Committee shall be open to

- any person representing a Signatory or potential signatory to agreement,
- to any representatives of the European Commission or Member States, as well as member states of the EEA or EFTA, and
- organizations that have a permanent seat on the Consultation Forum.

The Steering Committee will seek to achieve agreement by consensus at all times. If consensus cannot be achieved, the Steering Committee may reach a decision in accordance with the voting procedures described in Section 8 of this Voluntary Agreement. The Steering Committee may decide to develop and adopt further rules of procedure where it deems it necessary and may decide to delegate powers where it deems it to be necessary to specific individuals or to sub-committees.

## 8 Voting Rules

All reasonable efforts shall be taken to ensure that the decisions of the Steering Committee are taken on the basis of a consensus.

However, where consensus on an issue cannot be achieved in the course of a meeting of the Steering Committee, a call for an indicative vote may be made by the Steering Committee Chair or by a Quorum.

During any voting procedure of the Steering Committee each Signatory shall be entitled to cast a single vote.

If the indicative vote indicates a favourable outcome (two-thirds majority or greater in favour) but a consensus is nonetheless not achieved, a call for a deciding vote may be made by a Quorum to be held at the following meeting of the Steering Committee. At such second meeting, the adoption of a decision shall be made in accordance with the Voting Rules. At such second meeting, the adoption of a decision shall require:

- a. a Quorum
- b. the agreement of a two-thirds majority of the Quorum.

## 9 Non Compliance

Individual companies will work towards the fulfilment of the compliance rate set out in section 4.1 of this Voluntary Agreement. In case a Signatory fails to meet the compliance rate, actions will be taken, depending on the level of non-compliance:

- Under achievement of the target by • 5%: The Signatory will have a grace period of 6 months to achieve the target and present an updated semester progress report. During those 6 months, the Signatory will not be required to achieve any new target set out in a revision of the Voluntary Agreement. If the Signatory fails to achieve the target, the European Commission will start discussions with the Signatory in order to develop a suitable way forward. The Commission may decide to change the Signatory's status from Signatory to Defaulting Signatory. Until the Defaulting Signatory fulfils the target, no new targets will apply.
- Under achievement of the target by > 5%: the European Commission will start discussions with the Signatory in order to develop a suitable way forward. The Commission shall change the status from Signatory to Defaulting Signatory.

- If the Signatory does not comply within the set deadline as agreed with the Commission, the Signatory shall be deemed not to take part any more in the Voluntary Agreement and shall be deleted from the list of signatories. [

## 10 Verification

10.1 Compliance to commitments Part I - Design Requirements as described in section 4 can be verified on the basis of the signatory's report according to the template as given in Annex C.

10.2 Compliance to Commitments Part II – Information Requirements as described in section 5 can be verified by the Independent Inspector by requesting the documentation as described below. Signatories shall provide the Independent Inspector with the requested documentation within 4 weeks of a request.

- a) For section 5.1.1 Resource- and energy-efficiency: Upon request, the software or information sheet, according to the delivery method for a given product will be provided to the Independent Inspector.
- b) For section 5.1.2 Cartridge disposal and treatment: Upon request, the respective documents and/or the website address shall be made available to the Independent Inspector.
- c) For section 5.2 Information on product environmental characteristics: Upon request, the respective documents ( 5.2.1 and 5.2.2) will be made available to the Independent Inspector.

10.3 In case an organization as listed in section 7.2 wants to verify the compliance of a product that falls under the Voluntary Agreement, the request has to be addressed to the Independent Inspector and the Signatory. Only the Independent Inspector shall provide the organization with the compliance status of a model (yes/no) on a confidential basis within 2 weeks. Within 4 weeks of receiving the compliance status, the organization shall be required to inform both the Independent Inspector and the Signatory of the results of the verification.

The Independent Inspector shall only respond to requests for specific models and is not allowed to disclose lists on the compliance status of a Signatory's product portfolio.

## 11 Revision of the Commitment

The Steering Committee meeting may decide if a revision of the Commitment is required based on the following information:

- Individual Signatory and industry progress as shown in the annual progress reports.
- The release of a new version of the Energy Star Program Requirements for Imaging Equipment.

The full revision of the Voluntary Agreement will not take place before 1 January 2013.

## 12 Termination of the Voluntary Agreement

Signatories can terminate their individual participation in the Voluntary Agreement by sending a letter to the chair of the Steering Committee to an address that will be communicated in due time in writing by the chair.

The Steering Committee may decide to terminate the Voluntary Agreement at any time . Reasons for termination could be, but are not limited to:

- Signatories no longer represent a significant majority of the market (i.e. over 80%);

- A majority of Signatories do not meet the Commitments of the Voluntary Agreement
- Legislation is implemented that overrules or conflicts with the Voluntary Agreement
- Signatories have a considerable disadvantage over “free riders”

## **13 Promotion of the Voluntary Agreement**

- Based on the Commitments above, the European Commission will publicly express its appreciation of the Voluntary Agreement and the Commitments therein before the end of April 2010. Such appreciation from the European Commission shall be deemed as a requirement for this Voluntary Agreement to be signed. This will be done by means of a press conference hosted by the Energy Commissioner.
- The European Commission will publicly express their appreciation of the Voluntary Agreement by a European Commission letter and certificate that shows Signatories are parties to the Voluntary Agreement.
- Further, the European Commission will create a webpage on the website of the Directorate-General for Energy and Transport, explaining the Commitments of the Voluntary Agreement and showing the list of Signatories.
- The requirements of the Voluntary Agreement should be considered for inclusion in future GPP<sup>6</sup> criteria. When revising Green Public Procurement requirements the European Commission and Member States shall engage with the Signatories of the Voluntary Agreement in discussions on the GPP core and award criteria."

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<sup>6</sup> [http://ec.europa.eu/environment/gpp/toolkit\\_en.htm](http://ec.europa.eu/environment/gpp/toolkit_en.htm)

## Annex A: Definitions

All terms used in this document and not defined in this Annex A are defined in Annex C, Part VII to the Agreement between the Government of the United States and the European Community on the coordination of energy-efficiency labelling programmes for office equipment, as stated in the Annex of Commission decision 2009/347/EC (EU Energy star)

1. **Signatories:** means all member companies that have signed this Voluntary Agreement. See in section 1 the name of Signatories of this Voluntary Agreement.
2. **Potential Signatories:** means printer producers, which produce and distribute at least one device of the product categories listed in Section 3.3.
3. **Commitments:** means the Commitments described in Sections 4 and 5 to this Agreement altogether.
4. **Defaulting Signatories:** means all Signatories given the status of Defaulting Signatory by the Commission in accordance with Section 9.
5. **Copier:** A commercially-available imaging product whose sole function is the production of hard copy duplicates from graphic hard copy originals. The unit must be capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as copiers or upgradeable digital copiers (UDCs).
6. **Fax Machine:** commercially-available imaging product whose primary functions are scanning hard copy originals for electronic transmission to remote units and receiving similar electronic transmissions to produce hard copy output. Electronic transmission is primarily over a public telephone system, but also may be via computer network or the Internet. The product also may be capable of producing hard copy duplicates. The unit must be capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as fax machines.
7. **Multifunction Device (MFD):** A commercially-available imaging product, which is a physically-integrated device or a combination of functionally-integrated components, that performs two or more of the core functions of copying, printing, scanning, or faxing. The copy functionality as addressed in this definition is considered to be distinct from single sheet convenience copying offered by fax machines. The unit must be capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as MFDs or multifunction products (MFPs).
8. **Printer:** A commercially-available imaging product that serves as a hard copy output device, and is capable of receiving information from single-user or networked computers, or other input devices (e.g., digital cameras). The unit must be capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as printers, including printers that can be upgraded into MFDs in the field.
9. **Electrophotography (EP):** A marking technology characterized by illumination of a photoconductor in a pattern representing the desired hard copy image via a light source, development of the image with particles of toner using the latent image on the photoconductor to define the presence or absence of toner at a given location, transfer of the toner to the final hard copy medium, and fusing to cause the desired hard copy to become durable. Types of EP include Laser, LED, and LCD. Color EP is distinguished from monochrome EP in that toners of at least three different colors are

available in a given product at one time. Two types of color EP technology are defined below:

- a. **Parallel Color EP** – A marking technology that uses multiple light sources and multiple photoconductors to increase the maximum color printing speed.
  - b. **Serial Color EP** – A marking technology that uses a single photoconductor in a serial fashion and one or multiple light sources to achieve the multi-color hard copy output.
10. **Ink Jet (IJ):** A marking technology where images are formed by depositing colorant in small drops directly to the print media in a matrix manner. Color IJ is distinguished from monochrome IJ in that more than one colorant is available in a product at any one time. Typical types of IJ include Piezo-electric (PE) IJ, IJ Sublimation, and Thermal IJ.
  11. **High Performance IJ:** The use of an IJ marking technology in high-performance business applications usually occupied by electrophotographic marking technology. This difference between the conventional IJ product and the High Performance IJ product is denoted by the presence of nozzle arrays that span the width of a page and/or the ability to dry the ink on the media through additional media heating mechanisms.
  12. **Solid Ink (SI):** A marking technology where the ink is solid at room temperature and liquid when heated to the jetting temperature. Transfer to the media can be direct, but is most often made to an intermediate drum or belt and then offset printed to the media.
  13. **Member States:** The member states of the European Community
  14. **Quorum:** Two thirds of the Signatories who requested to be on the Steering Committee.
  15. **Consultation Forum:** as defined by Article 18 of the 2009/125/EC Directive, and 2008/591/EC Commission Decision, the assembly ensuring a balanced participation of Member States' representatives and all interested parties concerned with the product or product group in question
  16. **Steering Committee:** The co-ordinating and governing body of this Voluntary Agreement, appointed in accordance with the principles set out in Section 7
  17. **Compliance period:** the period over which companies measure their performance against the Commitments of the Voluntary Agreement
  18. **Placing on market:** the act of making a product available for the first time on the Community market with a view to its distribution or use within the Community whether for reward or free of charge and irrespective of the selling technique. Guidance on this definition is available in the Guide to the Implementation of Directives Based on New Approach and Global Approach.  
<http://ec.europa.eu/enterprise/newapproach/legislation/guide/index.htm>
  19. **Independent Inspector:** The independent third party designated by the Steering Committee (on behalf of all Signatories) and who is tasked with, and responsible for, the collection and processing of information supplied by Signatories pursuant to Section 6 and Annex B, and determining a Signatory's compliance with the Agreement in accordance the Commitments.. The Steering Committee shall engage the services of the Independent Inspector upon terms and conditions that shall require undertakings of confidentiality from the Independent Inspector, and which shall also set out any requirements or applicable mechanisms for a process of appeal, in case this is ever be necessary;

20. **End-user:** A person who uses the imaging equipment for one of its main functions (e.g. printing, scanning, copying). The end-user has control over the environmental impact of the product by choosing the type and weight of paper and by using duplex and/or n-up printing. Further, the end-user can be expected to exchange consumables e.g. cartridges.
21. **Customer:** A person or legal entity who takes purchasing decisions for the products covered in this voluntary agreement.
22. **TEC: Typical Electricity Consumption** method for the Version 1.1 ENERGY STAR Imaging Equipment (IE) specification. The procedure is to be used to obtain and evaluate the TEC of Standard-size IE products such as copiers, digital duplicators, fax machines, multifunction devices (MFDs), and printers that use high-temperature technologies such as Electrophotography (EP) and Solid Ink (SI), and those that provide comparable functionality. It is not intended for low-temperature technologies such as conventional Ink Jet (IJ) or Impact, nor for Largeformat or Small-format products. The key result of this test procedure is a value for typical weekly electricity consumption.
23. **OM: Operational Mode:** ENERGY STAR Imaging Equipment (IE) specification. The procedure is to be used to quantify the power consumption of imaging products that do not utilize the Typical Electricity Consumption (TEC) method. Examples of products that will be tested with this OM method include those that use marking technologies such as Ink Jet, Dot Matrix or Impact, as well as scanners and all large-format and small-format devices. The key results of this test procedure are power values for Ready, Sleep, and Off modes.
24. **(BW or Colour) Standard Size Format Product:** Products categorized as Standard include those designed for standard-sized media (e.g., Letter, Legal, Ledger, A3, A4, and B4), including those designed to accommodate continuous-form media at widths between 210 mm and 406 mm. Standard-size products may also be capable of printing on small-format media.

## Annex B: Calculating the compliance rate

The compliance rate is the percentage of compliant units in scope and placed on the market in relation to the total number of units in scope and placed on the market. A model is considered compliant when it meets all the requirements as detailed in section 4.1. This means that if a model doesn't meet a requirement it will not be counted towards the company compliance rate. The compliance rate will be calculated to 2 significant figures as a sales weighted number meaning that models with high sales will weigh heavier in calculating the compliance rate than low sales models.

$$\text{Compliance rate} = \frac{\text{Compliant units in scope and placed on the market}}{\text{Total units in scope and placed on the market}}$$

Table 1 shows a simplified example of how the compliance rate can be calculated internally by a company.

**Table 1; calculating the compliance rate**

model	Units sold	Compliance to requirements			Product compliant?	Total compliant units	Total non compliant units
		E* TEC +OM energy	E* OM default delay	E* TEC duplex			
OM 1	20	Y	Y	NA	Y	20	0
OM 2	10	N	Y	NA	N	0	10
OM 3	30	Y	Y	NA	Y	30	0
OM 4	20	Y	N	NA	N	0	20
TEC duplex 1	40	Y	NA	Y	Y	40	0
TEC duplex 2	100	Y	NA	Y	Y	100	0
TEC, no duplex 3	10	Y	NA	NA	Y	10	0
TEC duplex 4	20	N	NA	Y	N	0	20
TEC, no duplex 5	30	Y	NA	NA	Y	30	0
<b>total</b>	<b>280</b>				<b>total</b>	<b>230</b>	<b>50</b>
					<b>Compliance rate</b>	<b>82%</b>	

# Annex C: Reporting form to be used to report to Independent Inspector

## Section 1: general information

The organisation/company:.....  
 Reporting Period: .....

## Section 2: report on ENERGY STAR compliance

Model	Units placed on the market in EU	Product compliant?	Number of compliant units	Number of non compliant units
<b>Total</b>		<b>Total</b>		
		<b>Compliance rate</b>		

## Section 3: manufacturers declarations

The manufacturer states that:

- “ : all TEC models with duplex function as an integrated feature at the time of placing the product on the market are set to default duplex when printing from the computer
- “ : End-user information has been implemented for all models in conformity with section 5.1.1 of the voluntary agreement
- “ : Toner modules and containers as well ink modules and containers placed on the market by Signatories along with the original equipment, as well as those recommended in the product documentation for use in the respective device, must be so designed as to enable their channelling to reuse or material recycling
- “ : information on the environmental performance of all the company's products sold in the EU has been made available to customers
- “ : information on inkjet and toner cartridge yield has been made available to customers (the following measurement standards were used .....)
- “ : information on suitable end of life management options for used cartridges has been provided to end-users

## Section 4: list of products that are excepted from the statements in section 3 of this report

The following products are exempted from the statements as done in section 3 of this report:

Reports on exceptions should include:

- To what requirement is the exception reported
- Which are the excepted products
- What is the annual sales of these products



## Section 5: Signature

The signer hereby declares that the information stated in this report is correct and represents all information available with respect to the Commitments in the INDUSTRY VOLUNTARY AGREEMENT TO IMPROVE THE ENVIRONMENTAL PERFORMANCE OF IMAGING EQUIPMENT PLACED ON THE EUROPEAN MARKET.

Name of manufacturer:	-
Name of authorized person	-
Function	-
Date	-
Signature	-

## Annex D: Signing Form

The organisation/company/  
.....

Signs this Voluntary Agreement with the objective to improve the Environmental Performance of its imaging equipment as covered by the scope of the Voluntary Agreement. More specifically the Signatory commits to:

- Meet the Commitments and compliance rate as set out in section 4 and 5
- Provide annual reports on its performance as set out in section 6

For the Signatory

Director or person authorised to sign:

Name: .....

Function:.....

Address:.....

.....

.....

.....

Date: .....

Signature.....

Contact Person for the Organisation/Company:

Name: .....

Function:.....

Email:.....

Telephone:.....

Please send a duly signed and completed Signing Form to:

Jacek TRUSZCZYNSKI

European Commission

Directorate-General for Energy and Transport

Directorate D - New and renewable sources of energy, Energy efficiency & Innovation

Unit D3 - Energy efficiency of products & Intelligent Energy - Europe

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## **Annex E: Companies involved**

Companies involved in discussions on a Voluntary Agreement for LOT 4 are:

- Brother
- Canon
- Dell
- Epson
- HP
- Kodak
- Konica Minolta
- Kyocera Mita
- Muratec
- Lexmark
- Océ
- Oki
- Panasonic
- Samsung
- Sharp
- Toshiba
- Xerox