

European Commission (DG ENTR)

SUSTAINABLE INDUSTRIAL POLICY Building on the Eco-design Directive Energy-Using Product Group Analysis/1

Lot 1: Commercial and industrial refrigerating and freezing equipment systems

[Contract N°S12.515749]

Questionnaire for stakeholders

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Contact BIO Intelligence Service
Shailendra Mudgal – Jonathan Bain

+33 (0) 1 56 20 28 98

shailendra.mudgal@biois.com

jonathan.bain@biois.com

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1. INTRODUCTION

Directive 2005/32/EC establishes a framework for setting eco-design requirements (e.g. energy efficiency) for a wide range of products and, thus, it is going to affect environmental and/or energy efficiency specifications of a variety of products sold in Europe in the future.

The ENTR Lot 1 preparatory study is the first step in considering whether and which eco-design requirements could be set for commercial refrigerating and freezing equipment falling into the broad scope of this study. The consortium now proposes to receive inputs on the nature and market structure of refrigeration systems in the EU.

This short questionnaire has been constructed as a means to gather hard-to-find data on refrigeration systems. We are aware that for many aspects there might be no data, but an expert's educated guess would be better than no data at all. Therefore, we encourage you to fill data gaps through "**educated guesses**" where possible.

We hope that the information you provide will form the first step in our exchange on this subject, and create the basis for further in-depth discussion of the issues on a one-to-one basis.

Please respond to this document in good time. We ask that you send your reply **by 16th December 2009.**

2. YOUR CONTACT DETAILS

Please provide us with your contact details:

- Organisation: _____
- Name: _____
- Position/Department: _____
- Telephone: _____
- E-mail: _____

3. CONFIDENTIALITY

Please state explicitly if you would prefer to provide information only under terms of confidentiality. If you have already signed a non-disclosure agreement (NDA) with us, please skip this section.

Confidential data: No Yes

Note: We ensure complete confidentiality; however, it is also possible to sign a NDA. Please do not hesitate to contact us for such an agreement.

4. QUESTIONS

Refrigeration systems, either with a remote condensing unit(s) or centralised plant(s) (or both), can be used in establishments to provide large amounts of refrigeration energy to distributed refrigeration equipment (e.g. service cabinets, cold rooms) via a network of pipes.

Please be aware that multiple responses can be made for questions marked with *.

(1) Who designs these refrigeration systems? *

- Manufacturers of specialized refrigeration equipment
- Component manufacturer
- Refrigeration contractors (installers)
- Design consultancy
- Other (please specify: _____)
- Don't know
- Comments: _____

(2) Are these systems only formed of packaged products, or do also they incorporate custom built elements?

- Only packaged
- Both
- Only custom built
- Don't know
- Please specify: _____

(3) Are there standard configurations for these systems?

- Yes
- No
- Don't know
- Please specify: _____

(4) Are particular tools, methodologies or standards used to design these systems?

- Yes
- No
- Don't know
- Please specify: _____

(5) Are particular tools, methodologies or standards used to measure/maximise system efficiency (i.e. energy, water or refrigerant use)?

Yes

No

Don't know

Please specify: _____

(6) Please provide details of the technologies related to the **refrigeration system** (i.e. not the attached refrigeration equipment such as service cabinets, cold rooms, etc.) that can enable energy / water / refrigerant savings, and the magnitude of these savings:

(7) Does HVAC come into consideration when designing these systems?

Always

Sometimes

Never

Other (please specify: _____)

Don't know

Comments: _____

(8) Who purchases these systems? *

Supermarkets

Smaller stores

Restaurants

Hotels

Other (please specify: _____)

Don't know

Comments: _____

(9) How many are sold?

Many

Some

Few

Please specify, by type of system, numbers sold and year, if possible: _____

(10) How many are in stock?

Please specify, by type of system, numbers and year, if possible: _____

(11) Are the systems purchased by a single provider, who will then sell all components together (e.g. including the compressors, the condensers, the pipes, etc.) as a complete assembly package?

- Always
- Sometimes
- Never
- Other (please specify: _____)
- Don't know

Comments: _____

(12) Or are the system components typically bought from different suppliers?

- Always
- Sometimes
- Never
- Other (please specify: _____)
- Don't know

Comments: _____

(13) Who installs these systems? *

- Equipment or component manufacturers
- Refrigeration contractors (installers)
- Design consultancy
- Other (please specify: _____)
- Don't know

Comments: _____

(14) Are refrigeration systems replaced completely at end-of-life?

- Always
- Sometimes
- Never
- Other (please specify: _____)
- Don't know
- Comments: _____

(15) If elements of a refrigeration system are gradually replaced, who carries out the replacement?

- The establishment itself carries out the replacement?

- Always
- Sometimes
- Never
- Other (please specify: _____)
- Don't know

- The company that designed the system carries out the replacement?

- Always
- Sometimes
- Never
- Other (please specify: _____)
- Don't know

- The company that installed the system carries out the replacement?

- Always
- Sometimes
- Never
- Other (please specify: _____)
- Don't know

- A new company carries out the replacement?

- Always
- Sometimes
- Never
- Other (please specify: _____)
- Don't know

Comments: _____

(16) Is maintenance service included in the sale terms of these systems?

- Always
- Sometimes
- Never
- Other (please specify: _____)
- Don't know
- Comments: _____

(17) Is there a trend associated with centralised refrigeration systems?

- Yes, customers are increasingly looking to purchase these
- Yes, customers are now **less likely** to purchase these
- No, sales are stable
- Don't know
- Please specify: _____

5. OUR CONTACT DETAILS

Please respond **by 16th December 2009 at the latest** and send responses or any inquiries to:

Ms Marta LIPUT at marta.liput@biois.com; or by fax: + 33 1 58 46 09 95

Tel: +331 53 90 11 80