

Public consultation on Ecodesign Measures for Welding Equipment and Machine Tools

Fields marked with * are mandatory.

Introduction

The European Union is planning to set Ecodesign requirements for professional machine tools and welding equipment. Ecodesign requirements relate to how efficiently these appliances use energy and materials. The measures would apply in all EU Member States, creating a level playing field for manufacturers and allowing consumers to compare the energy and material use performance of these products across the Union.

See the following links for more detailed information about these and other requirements:

- 1) [Ecodesign Framework Directive](#) (2009/125/EC)
- 2) [List of ecodesign measures](#)

Non-professional consumer, hobby grade equipment is **not** included in the scope of these measures. Please consult the exact scope of the potential measures [here](#) (pg 9).

In order to set these Ecodesign measures, the Commission is seeking the views and comments from individuals and organisations with an interest in these products. Responses are particularly welcome from members of the general public, public authorities, businesses, and other non-governmental organisations.

This public consultation will complement the preparatory studies (<http://www.ecomachinetools.eu/typo/reports.html>) and extensive technical consultations with the concerned industry, Member State experts, and other organizations.

The results of the present consultation will support the Impact Assessment and potential proposals for these product groups, if any.

You can skip the questions that you do not feel comfortable answering, or of which you do not have sufficient knowledge. Please note that responding to questions marked with an asterisk is compulsory and allows you to go to the next question. You can also pause filling in the questionnaire at any time and continue later. Once you have submitted your answers, you will be able to download a copy of your completed questionnaire and upload a written contribution, if you so wish.

About this open public consultation

This open public consultation provides relevant stakeholders, in particular those directly involved in the manufacturing and use of professional machine tools and welding equipment, with the opportunity to

contribute to the exercise and to provide relevant information. The feedback obtained will contribute to the impact assessment analysis together with the evidence from different other sources, including desk-based research and the targeted consultations with stakeholders that have already taken place. These include the two "Ecodesign Consultation Forum meetings on DG GROW Lot5 products" which took place on 6 May 2014 and 25 October 2017. Stakeholders who already contributed to the Consultation Forum meetings by sending their feedback/position papers are kindly requested to confirm this in the questionnaire (question 14).

The questionnaire is divided into the following parts:

- Part 1: information about the respondent
- Part 2: general background information
- Part 3: questions for Small and Medium Enterprises (SMEs) only
- Part 4: market trends and existing policies
- Part 5: detailed, technical questions of the proposed ecodesign requirements.

You can send any additional information that you consider relevant to this consultation to the mailbox:

GROW-ECODESIGN@ec.europa.eu

indicating 'open public consultation Lot 5 – machine tools and welding equipment' in the subject of your email.

Thank you in advance for your input and your cooperation.

Part 1 Information about the respondent

The questions in this section are meant to collect general information about the identity of each respondent.

- * 1. Please provide your full name [Name, Surname]:

- * 2. You are replying as / on behalf of:

- ☐ A citizen/consumer
- ☐ A Member State government
- ☐ A Member State regional or local government
- ☐ A market surveillance authority
- ☐ A business / private company / enterprise
- ☐ An organisation representing industry views
- ☐ A non-governmental organisation representing societal interests (for example, environmental or consumer interests)
- ☐ Other (please state below):

Other (please state):

3. Name of the company, organisation or institution:

4. How big is your company?

- ☐ micro (self-employed)
- ☐ micro (1-9 employees)
- ☐ small (10-49 employees)
- ☐ medium-sized (50-249 employees)
- ☐ large (250 employees or more)

5. Your company or organisation is active in:

- ☐ Machine tools
- ☐ Welding equipment
- ☐ Both of the above
- ☐ None of the above

6. Which of the following activities does your company perform? [multiple answers possible]

- ☐ Manufacturing or assembly of final product group (using components manufactured in-house or by suppliers)
- ☐ Manufacturing of specific components for the product group: motors, compressors, fans, power sources, controllers, etc
- ☐ Industrial user of final product group
- ☐ Provider of consumables (lubricants, industrial gases, etc) for the product group
- ☐ Installation of products
- ☐ Routine maintenance of products
- ☐ Repair of products
- ☐ Professional refurbishment / remanufacture of products
- ☐ Retail of new or second hand products or spare parts
- ☐ Product collection, disassembly, and recycling (or related activities)
- ☐ Professional training on the use of the products
- ☐ Rental / leasing of products
- ☐ Advanced services and associated activities (software development, IT services etc.)
- ☐ Other activities related to the appliances (please specify below):
- ☐ None of the above

Other activities related to the use of the appliances (please specify):

7. Is your organisation registered with the EU Transparency Register?

If not, you may do so [here](#). Registration is not compulsory to complete this questionnaire.

- ☐ Yes (please provide your registration number below)
- ☐ No

Please provide your registration number in the EU transparency Register:

* 8. Please provide your email address in case we need to follow up with you about your reply.

- ☐ I do not have an email address
- ☐ Please insert your email below:

Email

* 9. Please select your country of residence:

- ☐ Afghanistan
- ☐ Albania
- ☐ Algeria
- ☐ Andorra
- ☐ Angola
- ☐ Antigua and Barbuda
- ☐ Argentina
- ☐ Armenia
- ☐ Australia
- ☐ Austria
- ☐ Azerbaijan
- ☐ Bahamas
- ☐ Bahrain
- ☐ Bangladesh
- ☐ Barbados
- ☐ Belarus
- ☐ Belgium
- ☐ Belize
- ☐ Benin
- ☐ Bhutan
- ☐ Bolivia
- ☐ Bosnia and Herzegovina
- ☐ Botswana
- ☐ Brazil
- ☐ Brunei Darussalam
- ☐ Bulgaria
- ☐ Burkina Faso
- ☐ Burundi
- ☐ Côte D'Ivoire
- ☐ Cabo Verde
- ☐ Cambodia
- ☐ Cameroon
- ☐ Canada
- ☐ Central African Republic

- ☐ Chad
- ☐ Chile
- ☐ China
- ☐ Colombia
- ☐ Comoros
- ☐ Congo
- ☐ Costa Rica
- ☐ Croatia
- ☐ Cuba
- ☐ Cyprus
- ☐ Czech Republic
- ☐ Democratic Republic of the Congo
- ☐ Denmark
- ☐ Djibouti
- ☐ Dominica
- ☐ Dominican Republic
- ☐ Ecuador
- ☐ Egypt
- ☐ El Salvador
- ☐ Equatorial Guinea
- ☐ Eritrea
- ☐ Estonia
- ☐ Ethiopia
- ☐ Fiji
- ☐ Finland
- ☐ France
- ☐ Gabon
- ☐ Gambia
- ☐ Georgia
- ☐ Germany
- ☐ Ghana
- ☐ Greece
- ☐ Grenada
- ☐ Guatemala
- ☐ Guinea
- ☐ Guinea Bissau
- ☐ Guyana
- ☐ Haiti
- ☐ Honduras
- ☐ Hungary
- ☐ Iceland
- ☐ India
- ☐ Indonesia
- ☐ Iran
- ☐ Iraq
- ☐ Ireland

- ☐ Israel
- ☐ Italy
- ☐ Jamaica
- ☐ Japan
- ☐ Jordan
- ☐ Kazakhstan
- ☐ Kenya
- ☐ Kiribati
- ☐ Kuwait
- ☐ Kyrgyzstan
- ☐ Laos
- ☐ Latvia
- ☐ Lebanon
- ☐ Lesotho
- ☐ Liberia
- ☐ Libya
- ☐ Liechtenstein
- ☐ Lithuania
- ☐ Luxembourg
- ☐ Madagascar
- ☐ Malawi
- ☐ Malaysia
- ☐ Maldives
- ☐ Mali
- ☐ Malta
- ☐ Marshall Islands
- ☐ Mauritania
- ☐ Mauritius
- ☐ Mexico
- ☐ Micronesia
- ☐ Monaco
- ☐ Mongolia
- ☐ Montenegro
- ☐ Morocco
- ☐ Mozambique
- ☐ Myanmar
- ☐ Namibia
- ☐ Nauru
- ☐ Nepal
- ☐ Netherlands
- ☐ New Zealand
- ☐ Nicaragua
- ☐ Niger
- ☐ Nigeria
- ☐ North Korea
- ☐ Norway

- ☐ Oman
- ☐ Pakistan
- ☐ Palau
- ☐ Panama
- ☐ Papua New Guinea
- ☐ Paraguay
- ☐ Peru
- ☐ Philippines
- ☐ Poland
- ☐ Portugal
- ☐ Qatar
- ☐ Republic of Moldova
- ☐ Romania
- ☐ Russian Federation
- ☐ Rwanda
- ☐ Saint Kitts and Nevis
- ☐ Saint Lucia
- ☐ Saint Vincent and the Grenadines
- ☐ Samoa
- ☐ San Marino
- ☐ Sao Tome and Principe
- ☐ Saudi Arabia
- ☐ Senegal
- ☐ Serbia
- ☐ Seychelles
- ☐ Sierra Leone
- ☐ Singapore
- ☐ Slovakia
- ☐ Slovenia
- ☐ Solomon Islands
- ☐ Somalia
- ☐ South Africa
- ☐ South Korea
- ☐ South Sudan
- ☐ Spain
- ☐ Sri Lanka
- ☐ Sudan
- ☐ Suriname
- ☐ Swaziland
- ☐ Sweden
- ☐ Switzerland
- ☐ Syrian Arab Republic
- ☐ Tajikistan
- ☐ Tanzania
- ☐ Thailand
- ☐ The former Yugoslav Republic of Macedonia

- ☐ Timor-Leste
- ☐ Togo
- ☐ Tonga
- ☐ Trinidad and Tobago
- ☐ Tunisia
- ☐ Turkey
- ☐ Turkmenistan
- ☐ Tuvalu
- ☐ Uganda
- ☐ Ukraine
- ☐ United Arab Emirates
- ☐ United Kingdom
- ☐ United States of America
- ☐ Uruguay
- ☐ Uzbekistan
- ☐ Vanuatu
- ☐ Venezuela
- ☐ Viet Nam
- ☐ Yemen
- ☐ Zambia
- ☐ Zimbabwe

10. Please indicate the countries where you are most active in [multiple answers possible, an additional answer field will open if you select 'Other non-EU']:

- ☐ All the EU
- ☐ Austria
- ☐ Belgium
- ☐ Bulgaria
- ☐ Croatia
- ☐ Cyprus
- ☐ Czech Republic
- ☐ Denmark
- ☐ Estonia
- ☐ Finland
- ☐ France
- ☐ Germany
- ☐ Greece
- ☐ Hungary
- ☐ Ireland
- ☐ Italy
- ☐ Latvia
- ☐ Lithuania
- ☐ Luxembourg
- ☐ Malta
- ☐ Netherlands
- ☐ Poland

- ☐ Portugal
- ☐ Romania
- ☐ Slovakia
- ☐ Slovenia
- ☐ Spain
- ☐ Sweden
- ☐ United Kingdom
- ☐ Other Non-EU [please specify below]

Other non-EU [multiple answers possible]

Afghanistan
Albania
Algeria
Andorra
Angola
Antigua and Barbuda
Argentina
Armenia
Australia
Azerbaijan
Bahamas
Bahrain
Bangladesh
Barbados
Belarus
Belize
Benin
Bhutan
Bolivia
Bosnia and Herzegovina
Botswana
Brazil
Brunei Darussalam
Burkina Faso
Burundi
Cabo Verde
Cambodia
Cameroon
Canada
Central African Republic
Chad
Chile
China
Colombia
Comoros
Congo

Costa Rica
Cuba
Côte D'Ivoire
Democratic Republic of the Congo
Djibouti
Dominica
Dominican Republic
Ecuador
Egypt
El Salvador

Equatorial Guinea
Eritrea
Ethiopia
Fiji
Gabon
Gambia
Georgia
Ghana
Grenada
Guatemala
Guinea
Guinea Bissau
Guyana
Haiti
Honduras
Iceland
India
Indonesia
Iran
Iraq
Israel
Jamaica
Japan
Jordan
Kazakhstan
Kenya
Kiribati
Kuwait
Kyrgyzstan
Laos
Lebanon
Lesotho
Liberia
Libya
Liechtenstein
Madagascar
Malawi
Malaysia
Maldives
Mali
Marshall Islands
Mauritania
Mauritius
Mexico
Micronesia
Monaco
Mongolia
..

Montenegro
Morocco
Mozambique
Myanmar
Namibia
Nauru
Nepal
New Zealand
Nicaragua
Niger
Nigeria
North Korea
Norway
Oman
Pakistan
Palau
Panama
Papua New Guinea
Paraguay
Peru
Philippines
Qatar
Republic of Moldova
Russian Federation
Rwanda
Saint Kitts and Nevis
Saint Lucia
Saint Vincent and the Grenadines
Samoa
San Marino
Sao Tome and Principe
Saudi Arabia
Senegal
Serbia
Seychelles
Sierra Leone
Singapore
Solomon Islands
Somalia
South Africa
South Korea
South Sudan
Sri Lanka
Sudan
Suriname
Swaziland
Switzerland

Syrian Arab Republic
Tajikistan
Tanzania
Thailand
The former Yugoslav Republic of Macedonia
Timor-Leste
Togo
Tonga
Trinidad and Tobago
Tunisia
Turkey
Turkmenistan
Tuvalu
Uganda
Ukraine
United Arab Emirates
United States of America
Uruguay
Uzbekistan
Vanuatu
Venezuela
Viet Nam
Yemen
Zambia
Zimbabwe

* 11. Do you consent to the European Commission publishing your replies?

Note that, whatever the option chosen, your answers may be subject to a request for public access to documents under [Regulation \(EC\) N° 1049/2001](#)

- ☐ **Yes** (I consent to the publication of all information in my contribution in whole or in part, including my name or my organisation's name, and I declare that nothing within my response is unlawful or would infringe the rights of any third party in a manner that would prevent publication).
- ☐ **Only anonymously** (I consent to the publication of any information in my contribution in whole or in part (which may include quotes or opinions I express) provided that I remain anonymous. I declare that nothing within my response is unlawful or would infringe the rights of any third party in a manner that would prevent publication).

Note: respondents who select the option "**only anonymously**" should not include personal data in free text answers or documents submitted in the context of the consultation.

* 12. How would you qualify your expertise on machine tools (not including welding equipment) products?

- ☐ I have no expertise
- ☐ I know, in general terms, that they are products for business-to-business applications
- ☐ I know well the technical features of these products

* 13. How would you qualify your expertise on welding equipment products?

- ☐ I have no expertise
- ☐ I know, in general terms, that they are products for business-to-business applications
- ☐ I know well the technical features of these products

* 14. Have you already contributed to the consultation process by sending feedback/position papers in the context of the "Ecodesign Consultation Forum meetings on DG GROW Lot5 products" (held on 6 May 2014 and 25 October 2017)?

- ☐ Yes
- ☐ No

Part 2 General information about the products

This section contains general questions for EU citizens and stakeholders with no particular specialised knowledge of ecodesign regulations.

* 15. How aware are you of the Ecodesign Regulations on products in general (for instance on washing machines, refrigerators, computers, large transformers...)?

- ☐ I am well aware of them
- ☐ I have heard about them
- ☐ I have never heard about them

* 16. Are you (or your company/members) aware of the proposal of Ecodesign requirements for professional machine tools and/or welding equipment)?

- ☐ Yes, welding equipment
- ☐ Yes, machine tools
- ☐ Yes, both machine tools and welding equipment
- ☐ No

* 17. Do you think currently sold **machine tools** are sufficiently energy efficient?

- ☐ Yes
- ☐ No
- ☐ I don't know

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

18. What is your view on how to address insufficient **energy efficiency** for **machine tools**?

- ☐ I don't see the need for any action to address energy efficiency on these products
- ☐ I think that energy efficiency should be dealt with at a national level in the various EU Member States
- ☐ I think that energy efficiency should be governed by a Voluntary Agreement of machine tool manufacturers

- ☐ I think that energy efficiency should be dealt with by means of an EU Ecodesign Regulation that introduces mandatory efficiency requirements
- ☐ Other [please specify below]

Please justify why you think an EU Ecodesign Regulation is adequate to improve energy efficiency

1500 character(s) maximum

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

19. Concerning the **energy consumption of machine tools**, how would you judge the information currently made available by manufacturers to users (private or businesses)?

- ☐ Manufacturers already today provide users with the necessary information to calculate life-cycle energy costs
- ☐ Some information is available, however in a non-standardised way, with big differences in information provided between the various manufacturers
- ☐ Some specific type(s) of information, which could be very useful, are usually missing. Please specify below:
- ☐ I don't know

Some specific type(s) of information, which could be very useful, are usually missing. Please specify:

1500 character(s) maximum

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

* 20. Do you think currently sold **machine tools** are sufficiently efficient in terms of **consumption of materials**?

- ☐ Yes
- ☐ No
- ☐ I don't know

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

21. What is your view on how to address insufficient **material efficiency** for **machine tools**?

- ☐ I don't see the need for any action to address material efficiency on these products
- ☐ I think that material efficiency should be dealt with at a national level in the various EU Member States
- ☐ I think that material efficiency should be governed by a Voluntary Agreement of machine tool manufacturers
- ☐ I think that material efficiency should be dealt with by means of an EU Ecodesign Regulation that introduces mandatory efficiency requirements
- ☐ Other [please specify below]

Please justify why you think an EU Ecodesign Regulation is adequate

1500 character(s) maximum

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

* 22. Do you think currently sold **welding equipment** is sufficiently efficient in terms of **energy consumption**?

- ☐ Yes
- ☐ No
- ☐ I don't know

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

23. What is your view on how to address insufficient **energy efficiency** for **welding equipment**?

- ☐ I don't see the need for any action to address energy efficiency on these products
- ☐ I think that energy efficiency should be dealt with at a national level in the various EU Member States
- ☐ I think that energy efficiency should be governed by a Voluntary Agreement of welding equipment manufacturers
- ☐ I think that energy efficiency should be dealt with by means of an EU Ecodesign Regulation that introduces mandatory efficiency requirements
- ☐ Other [please specify below]

Please justify why you think an EU Ecodesign Regulation is adequate

1500 character(s) maximum

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

24. Concerning the **energy consumption of welding equipment**, how would you judge the information currently made available by manufacturers to users (private or businesses)?

- ☐ Manufacturers already today provide users with the necessary information to calculate life-cycle energy costs
- ☐ Some information is available, however in a non-standardised way, with big differences in information provided between the various manufacturers
- ☐ Some specific type(s) of information, which could be very useful, are usually missing. Please specify below:
- ☐ I don't know

Some specific type(s) of information, which could be very useful, are usually missing. Please specify:

1500 character(s) maximum

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

* 25. Do you think currently sold **welding equipment** is sufficiently efficient in terms of **consumption of materials**?

- ☐ Yes
- ☐ No
- ☐ I don't know

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

26. What is your view on how to address insufficient **material efficiency** for **welding equipment**?

- ☐ I don't see the need for any action to address material efficiency on these products
- ☐ I think that material efficiency should be dealt with at a national level in the various EU Member States
- ☐ I think that material efficiency should be governed by a Voluntary Agreement of welding equipment manufacturers
- ☐ I think that material efficiency should be dealt with by means of an EU Ecodesign Regulation that introduces mandatory efficiency requirements
- ☐ Other [please specify below]

Please justify why you think an EU Ecodesign Regulation is adequate

1500 character(s) maximum

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

27. Concerning the **consumption of welding wire** and **shielding gas** of **welding equipment**, how do you judge the information made currently available by manufacturers to users (whether these are private users or businesses)?:

- ☐ Manufacturers already today provide users with the necessary information to calculate life-cycle costs of materials
- ☐ Some information is available, however in a non-standardised way, with big differences in information provided between the various manufacturers
- ☐ Some specific type(s) of information, which could be very useful, are usually missing. Please specify below:
- ☐ I don't know

Some specific type(s) of information, which could be very useful, are usually missing. Please specify:

1500 character(s) maximum

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

* 28. If you needed additional technical information about a product (including energy and material consumption), where would you look for it? [multiple answers possible]

- ☐ Manufacturer's website
- ☐ Retailer's website
- ☐ Product information sheet
- ☐ Booklet of instructions
- ☐ User forums on the internet
- ☐ I don't know
- ☐ Other [please specify below]

Please specify [200 character limit]

1500 character(s) maximum

Part 3 Questions for Small and Medium Enterprises (SMEs) only

This section is addressed to individuals who own or work in a SME in the relevant product sectors.

29. What is your company's estimated turnover per employee?

- ☐ 0-25 000 (Euro/employee)
- ☐ 25 000-60 000 (Euro/employee)
- ☐ 60 000-120 000 (Euro/employee)
- ☐ 120 000-180 000 (Euro/employee)
- ☐ >180 000 (Euro/employee)

30. What are the main market areas on which your company is active, and their approximate share (%) of your sales [multiple answers possible]?

- ☐ Your national market
- ☐ The EU market
- ☐ Markets outside the EU

approximate share (%) of the sales that are to your national market:

Only values between 0 and 100 are allowed

approximate share (%) of sales that are to other EU markets (excluding your national market):

Only values between 0 and 100 are allowed

approximate share (%) of sales that are to markets outside the EU:

Only values between 0 and 100 are allowed

31. How would specific Ecodesign requirements on **energy** efficiency of machine tools and welding equipment **impact** SMEs, in comparison to large companies in your sector?

- ☐ Neither SMEs nor large companies would be significantly impacted
- ☐ SMEs would be positively impacted compared to large companies
- ☐ SMEs and large companies would both be positively impacted
- ☐ SMEs and large companies would both be adversely impacted
- ☐ SMEs would be negatively impacted compared to large companies
- ☐ I don't know/ I have no opinion

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

32. How would specific Ecodesign requirements on **material** efficiency (durability, repairability, recyclability) of machine tools and welding equipment **impact** SMEs in comparison to large companies in your sector?

- ☐ Neither SMEs nor large companies would be significantly impacted
- ☐ SMEs would be positively impacted compared to large companies
- ☐ SMEs and large companies would both be positively impacted
- ☐ SMEs and large companies would both be adversely impacted
- ☐ SMEs would be negatively impacted compared to large companies
- ☐ I don't know / I have no opinion

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

33. How would the Ecodesign Regulation of machine tools and welding equipment affect the following aspects in your SME:

	1= I totally agree	2= I partially agree	3= I Neither agree nor disagree	4= I partially disagree	5= I totally disagree
My SME will have lower expenditures due to energy and/or material savings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My SME would be more competitive domestically	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My SME would be more competitive internationally (within the EU)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My SME would be more competitive internationally (outside the EU)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Standardised transparency in specifications / performance would enable my SME to better procure the components or final product it needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My SME will have a larger administrative burden	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My SME will have to increase testing activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My SME will incur costs in the short term	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

My SME will incur costs in the long term	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Employment will increase in my SME in the short term	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Employment will increase in my SME in the long term	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

Part 4 Market trends and existing policies

This section contains questions about market information of welding equipment and machine tools.

34. The studies performed in the framework of the preparatory work on the Ecodesign of machine tools and welding equipment show that the combined electricity consumption of these product groups in the EU today is significant, and it is expected to grow in the years to come (from ca.60 TWh (150 TWh primary energy) per year in 2013 up to ca.70 TWh (175 TWh primary energy) per year in 2030).

What is your view?

- ☐ I agree with these estimations
- ☐ The estimations are too conservative; energy consumption will rise much more, among other reasons due to growth of the sector
- ☐ These estimations are overstated; the energy consumption related to these product groups will remain approximately as it is today
- ☐ The current figures are right but the estimations for the future are wrong: the energy consumption will decrease, among others thanks to voluntary introduction of energy efficiency technology
- ☐ Both current and future estimations are wrong
- ☐ I don't know / I have no opinion
- ☐ Other (please specify below)

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

35. Are you able/willing to provide any evidence (for instance by quoting an existing report/study) to support your view in Question 34?

- ☐ Yes
- ☐ No

Optional - please add in the box below any additional information which supports your answer. You can additionally upload supporting documents at the end of the questionnaire.

1500 character(s) maximum

36. How do you see the future development of the market for the sector of **machine tools** in the medium term, that is, from now until 2025?

- ☐ Growing
- ☐ Stable
- ☐ Shrinking
- ☐ I don't know / I have no opinion

37. How do you see the future development of the market for the sector of **welding equipment** in the medium term, that is, from now until 2025?

- ☐ Growing
- ☐ Stable
- ☐ Shrinking
- ☐ I don't know / I have no opinion

38. In relation to the two previous questions (Q.36 and Q.37), are you able to provide any evidence (for instance by quoting an existing report/study) to support your reply?

- ☐ Yes
- ☐ No

Optional - please add in the box below any additional information which supports your answer. You can additionally upload supporting documents at the end of the questionnaire.

1500 character(s) maximum

Part 5 Questions where technical expertise is needed

This section contains detailed questions about the possible Ecodesign requirements on welding equipment and machine tools.

* 39. Do you wish to continue with the last part of this questionnaire, in which some knowledge of the technical features of machine tools and/or welding equipment is needed?

- ☐ Yes, both to machine tools and welding equipment
- ☐ Yes, but only for the machine tools
- ☐ Yes, but only for the welding equipment
- ☐ No (end of the questionnaire)

40. Please rate the importance of the following aspects which could be regulated in order to improve durability, reparability, recyclability of machine tools and/or welding equipment products?

	1= very important	2= important	3= somewhat important	4= not important	5= I don't know
Declaration of the expected lifetime of the machine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accessibility and ease of removal of components for repair	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Availability of spare parts for the lifetime of the machine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Delivery time for spare parts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to Repair and Maintenance information (manual for reparability and maintenance with diagrams and list of spare parts)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Availability of firmware update /upgrading versions for the lifetime of the machine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New software upgrades are compatible with older equipment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Declaration of the presence of Critical Raw Materials in the machine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Presence of pre-installed software to delete all data from former users if the machine is sold second-hand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recyclability of the materials of which the machine tools / welding equipment are composed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

Part 5.1 Machine tools

41. Please tick which Ecodesign requirements should be included for **machine tools** [multiple answers possible]:

☐ Measures for durability

- ☐ Measures for reparability
- ☐ Measures for recyclability
- ☐ All of the above
- ☐ None of the above
- ☐ Other [please specify below]

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

42. Please rate the following aspects that could be regulated to limit the **energy consumption** of **machine tools**

	1= very important	2= important	3= somewhat important	4= not important	5= I don't know
Minimum efficiency of the internal power supply unit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maximum overall consumption of the equipment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maximum consumption in idle power /low power modes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The product automatically switches to off mode/standby after a given time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manufacturers inform end-users of overall consumption of the product in manuals/product fiche/website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manufacturers inform end-users of instant consumption of the product in a display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manufacturers inform end-users of the energy efficiency of the product in manuals/product fiche/website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manufacturers inform end-users of idle power/low power consumption of the product in manuals/product fiche/website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

43. If minimum requirements related to the **energy** consumption of **machine tools** were introduced (see question 42 above), what **impacts** could they have on the manufacturers and users of these products, in your view?

	1= I totally agree	2= I partially agree	3= I Neither agree nor disagree	4= I partially disagree	5= I totally disagree
The manufacturers of machine tools would be more competitive, due to acceleration of knowhow development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Administrative burden for these manufacturers would increase	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More testing of these products would be necessary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The purchase prices of the machine tools would go up	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Users of the machines would save energy costs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The average quality of products would improve	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

44.If Ecodesign minimum requirements for **machine tools** were introduced, what impacts could they have on **innovation** in the machine tools sector, in your view?

- ☐ I would not expect any effect on the innovation of this sector
- ☐ The Ecodesign requirements would promote innovation in this sector (please specify below why)
- ☐ The Ecodesign requirements would inhibit innovation in this sector (please specify below why)
- ☐ Other (please specify below)

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

Part 5.2 Welding equipment

45. Please tick which Ecodesign requirements should be included for welding equipment (multiple answers possible):

- ☐ Measures for durability
- ☐ Measures for reparability
- ☐ Measures for recyclability
- ☐ All of the above
- ☐ None of the above
- ☐ Other [please specify below]

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

46. Please rate the following aspects that could be regulated to limit the **energy** consumption of **welding equipment**

	1= very important	2= important	3= somewhat important	4= not important	5= I don't know
Minimum efficiency of the internal power supply unit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maximum overall consumption of the equipment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maximum consumption in idle power /low power modes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The product automatically switches to off mode/standby after a given time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manufacturers inform end-users of overall consumption of the product in manuals/product fiche/website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Manufacturers inform end-users of instant consumption of the product in a display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manufacturers inform end-users of efficiency of the product in manuals /product fiche/website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manufacturers inform end-users of idle power/low power consumption of the product in manuals/product fiche/website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

47. If minimum requirements related to the **energy** consumption of **welding equipment** were introduced (see question 46 above), what **impacts** could they have on the manufacturers and users of these products, in your view?

	1= I totally agree	2= I partially agree	3= I Neither agree nor disagree	4= I partially disagree	5= I totally disagree
The manufacturers of welding equipment would be more competitive, due to acceleration of knowhow development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Administrative burden for these manufacturers would increase	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More testing of these products would be necessary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The purchase prices of the welding equipment would go up	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Users of the welding equipment would save energy costs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The average quality of products would improve	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

48. Please rate the following aspects that could be regulated to limit the **consumption of welding wire and shielding gas** of welding equipment:

	1= very important	2= important	3= somewhat important	4= not important	5= I don't know
Generic information in user manual /product fiche/website, showing minimum and maximum consumption values	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Specific information in user manual /product fiche/website of consumption for different standard conditions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Specific, real-time information of consumption in e.g. a display, or receiving/processing information from a flow-meter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

49. If minimum requirements related to **material** consumption for **welding equipment** were introduced (see question 48 above), what **impacts** could they have on the manufacturers and users of these products, in your view?

	1= I totally agree	2= I partially agree	3= I Neither agree nor disagree	4= I partially disagree	5= I totally disagree
I could expect an increased cost of the products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The welding equipment manufacturers would be more competitive, due to acceleration of knowhow development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Administrative burden for these manufacturers would increase	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

More testing of these products would be necessary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The purchase prices of the welding equipment would go up	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Users of the welding equipment would save costs of energy and ancillary material (wire, gas)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The average quality of products would improve	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

50. If Ecodesign measures for **welding equipment** were introduced, what impacts could they have on **innovation**, in your view?

- ☐ I would not expect any effect on the innovation of this sector
- ☐ The Ecodesign requirements could promote innovation in this sector (please specify below why)
- ☐ The Ecodesign requirements would inhibit innovation in this sector (please specify below why)
- ☐ Other (please specify below)

Optional - please add in the box below any additional information which supports your answer.

Optional - please add in the box below any additional information which supports your answer.

Optional - please add in the box below any additional information which supports your answer.

1500 character(s) maximum

This is the end of the questionnaire

You have the option to upload additional information. Please note that position statements not answering and supporting directly the questions above may not be taken in consideration.

Thank you

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