# Development of post-Euro 6/VI emission standards for cars, vans, lorries and buses

Fields marked with \* are mandatory.

#### Introduction

The European Green Deal is a new growth strategy that will foster the transition to a climate-neutral, resource-efficient and competitive economy and the move towards zero-pollution in Europe. The New Industrial Strategy for Europe lays the foundations for an industrial policy that will help Europe's industry to make this ambition a reality and lead the transition towards climate neutrality and digital leadership. To accelerate the shift to sustainable and smart mobility and thus support the competitiveness of the EU automotive industry on the global market, transport should become significantly less polluting, especially in cities. The EU automotive industry must lead the global transition to zero-emission vehicles rather than follow the lead of others. This will allow the industry to take advantage of the business opportunities offered. Significant efforts have been made over the last 4 years to reduce emissions of air pollutants, in particular in the wake of the Dieselgate. In parallel, new power trains - battery-electric and hydrogen - are emerging as an alternative to the combustion engine. However, although the roll out of such technologies is accelerating, it is still slow. In the meantime, more needs to be done to 'clean' the combustion engine to ensure protection of human health in urban areas and to prevent the internal market from fragmenting due to individual national initiatives (e.g. diesel bans, petrol bans). The European Green Deal roadmap therefore includes a proposal for more stringent air pollutant emission standards for combustion-engine vehicles by 2021.

To address emerging air quality issues in Europe, emission standards for cars, vans, lorries and buses were introduced in 1992. These standards became known as the Euro standards. The existing Euro standards (Euro 6 for cars and vans, and Euro VI for lorries and buses) required further emission reductions compared to the previous Euro 5/V standards. These further requirements mostly focused on the air pollutant emissions of nitrogen oxide and particulate matter. Today, air pollutant emissions are measured accurately both in the laboratory and on the road to ensure that emissions limits are complied with under normal conditions of use.

Before proposing more stringent air pollutant emission standards, it is necessary to evaluate the existing Euro 6/VI standards. This means evaluating the four main regulations that set these standards:

- <u>Regulation (EC) No 715/2007</u> and implementing <u>Regulation (EU) No 2017/1151</u> on type approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6);
- <u>Regulation (EC) No 595/2009</u> and implementing <u>Regulation (EU) No 582/2011</u> on type-approval of motor vehicles and engines with respect to emissions from heavy-duty vehicles (Euro VI).

For more information, please see the Inception Impact Assessment.

The purpose of this public consultation is to collect evidence and views from a broad range of stakeholders to assess the potential impacts of more stringent air pollutant emission standards, and to evaluate the Euro 6/VI standards thus far and see how these standards might develop in the future. It is therefore important that you complete this questionnaire as fully as possible. Responses can be provided in any EU official language.

#### About you

\* Language of my contribution

- Bulgarian
- Croatian
- Czech
- Danish
- Dutch
- English
- Estonian
- Finnish
- French
- Gaelic
- German
- Greek
- Hungarian
- Italian
- Latvian
- Lithuanian
- Maltese
- Polish
- Portuguese
- Romanian
- Slovak
- Slovenian
- Spanish
- Swedish

- \*I am giving my contribution as
  - Academic/research institution
  - Business association
  - Company/business organisation
  - Consumer organisation
  - EU citizen
  - Environmental organisation
  - Non-EU citizen
  - Non-governmental organisation (NGO)
  - Public authority
  - Trade union
  - Other

#### \* First name



#### \*Surname



\* Email (this won't be published)

#### \* Scope

- International
- Local
- National
- Regional

#### \*Organisation name

255 character(s) maximum

Ministry of Infrastructure and Watermanagement

#### \*Organisation size

Micro (1 to 9 employees)

- Small (10 to 49 employees)
- Medium (50 to 249 employees)
- Large (250 or more)

#### Transparency register number

#### 255 character(s) maximum

Check if your organisation is on the transparency register. It's a voluntary database for organisations seeking to influence EU decisionmaking.

#### \* Country of origin

Please add your country of origin, or that of your organisation.

Please add your country of origin	n, or that of your organisation.		
Afghanistan	Djibouti	Libya	Saint Martin
Åland Islands	Dominica	Liechtenstein	Saint Pierre and Miquelon
Albania	Dominican Republic	Lithuania	Saint Vincent and the Grenadines
Algeria	Ecuador	Luxembourg	Samoa
American Samoa	Egypt	Macau	San Marino
Andorra	El Salvador	Madagascar	São Tomé and Príncipe
Angola	Equatorial Guinea	Malawi	Saudi Arabia
Anguilla	Eritrea	Malaysia	Senegal
Antarctica	Estonia	Maldives	Serbia
Antigua and Barbuda	Eswatini	Mali	Seychelles
Argentina	Ethiopia	Malta	Sierra Leone
Armenia	Falkland Islands	Marshall Islands	Singapore
Aruba	Faroe Islands	Martinique	Sint Maarten
Australia	Fiji	Mauritania	Slovakia
Austria	Finland	Mauritius	Slovenia
Azerbaijan	France	Mayotte	Solomon Islands

Bahamas	French Guiana	Mexico	Somalia
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Belarus	Georgia	Mongolia	South Sudan
Belgium	Germany	Montenegro	Spain
Belize	Ghana	Montserrat	Sri Lanka
Benin	Gibraltar	Morocco	Sudan
Bermuda	Greece	Mozambique	Suriname
Bhutan	Greenland	Myanmar	Svalbard and
-		/Burma	Jan Mayen
Bolivia	Grenada	Namibia	Sweden
Bonaire Saint	Guadeloupe	Nauru	Switzerland
Eustatius and			
Saba			
Bosnia and	Guam	Nepal	Syria
Herzegovina			— .
Botswana	Guatemala	Netherlands	Taiwan
Bouvet Island	Guernsey	New Caledonia	Tajikistan
Brazil	Guinea	New Zealand	Tanzania
British Indian	Guinea-Bissau	Nicaragua	Thailand
Ocean Territory	O Company	O Nimer	The Combin
British Virgin Islands	Guyana	Niger	The Gambia
Brunei	Haiti	Nigeria	Timor-Leste
Bulgaria	Heard Island	Niue	
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Burkina Faso	Honduras	Norfolk Island	Tokelau
Burundi	Hong Kong	Northern	Tonga
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Cambodia	Hungary	North Korea	Trinidad and Tobago
Cameroon	Iceland	North	Tobago <sup>©</sup> Tunisia
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Canada	India	Norway	Turkey
Cape Verde	Indonesia	Oman	Turkmenistan
Cayman Islands	Iran	Pakistan	Turks and
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Central African	Iraq	Palau	Tuvalu
Republic	·		
Chad	Ireland	Palestine	Uganda
Chile	Isle of Man	Panama	Ukraine
China	Israel	Papua New	United Arab
		Guinea	Emirates
Christmas	Italy	Paraguay	United
Island			Kingdom
Clipperton	Jamaica	Peru	United States
Cocos (Keeling)	Japan	Philippines	United States
Islands			Minor Outlying
			Islands
Colombia	Jersey	Pitcairn Islands	Uruguay
Comoros	Jordan	Poland	US Virgin
			Islands
Congo	Kazakhstan	Portugal	Uzbekistan
Cook Islands	Kenya	Puerto Rico	Vanuatu
Costa Rica	Kiribati	Qatar	Vatican City
Côte d'Ivoire	Kosovo	Réunion	Venezuela
Croatia	Kuwait	Romania	Vietnam
Cuba	Kyrgyzstan	Russia	Wallis and
			Futuna
Curaçao	Laos	Rwanda	Western
-		-	Sahara
Cyprus	Latvia	Saint	Yemen
		Barthélemy	

Czechia	Lebanon	Saint Helena Ascension and Tristan da Cunha	Zambia
Democratic Republic of the	Lesotho	<ul> <li>Saint Kitts and</li> <li>Nevis</li> </ul>	Zimbabwe
Congo Denmark	Liberia	Saint Lucia	

#### \* Publication privacy settings

The Commission will publish the responses to this public consultation. You can choose whether you would like your details to be made public or to remain anonymous.

#### Anonymous

Only your type of respondent, country of origin and contribution will be published. All other personal details (name, organisation name and size, transparency register number) will not be published.

### Public

Your personal details (name, organisation name and size, transparency register number, country of origin) will be published with your contribution.

I agree with the personal data protection provisions

#### General questions

#### 1. How well informed are you about the following initiatives and policies?

	Very well informed	Moderately informed	Somewhat informed	Little informed	Not at all informed
* Paris Agreement	۲	0	0	0	0
* European Green Deal	۲	0	0	0	0
* New Industrial Strategy for Europe	0	۲	0	0	0
* Euro 6/VI standards	۲	0	0	0	0
<ul> <li>Type-approval of motor vehicles</li> </ul>	۲	0	0	0	0
<ul> <li>In-service verification of registered vehicles</li> </ul>	۲	0	0	0	0

## 2. Have the Euro standards been effective? To what extent do you agree with the following statements?

	Completely agree	Somewhat agree	Neither disagree nor agree	Somewhat disagree	Completely disagree	l don' t know
<ul> <li>The limits for air pollutant emissions for new vehicles are strict enough</li> </ul>	0	0	©	۲	O	0
* The limits for air pollutant emissions for new vehicles do not cover all relevant air pollutants	۲	0	O	O	0	0
<ul> <li>Vehicles comply with pollutant emission limits over their entire lifetime</li> </ul>	0	0	0	0	۲	0
<ul> <li>Vehicles comply with pollutant emission limits in all real-world driving conditions</li> </ul>	0	0	©	O	۲	0

### 3. Over the past 10 years, based on your experience what has happened to:

	Decreased significantly	Decreased slightly	No change	Increased slightly	Increased significantly	l don't know
<ul> <li>The air quality in urban areas</li> </ul>	0	0	0	۲	O	0
<ul> <li>Air pollution originating from new cars and vans on EU roads</li> </ul>	۲	۲	0	0	۲	0
<ul> <li>Air pollution originating from new lorries and buses on EU roads</li> </ul>	0	۲	O	0	0	0

## 3.1. In your view, what effect did the Euro 6/VI standards have on the price of the following vehicles?

	Decreased significantly	Decreased slightly	No change	Increased slightly	Increased significantly	l don't know
* Price of cars	0	0	O	۲	0	0
* Price of vans	0	0	0	۲	0	0
* Price of lorries	0	0	۲	۲	0	0
* Price of buses	0	0	۲	۲	0	0

## 4. To what extent do you agree with the following statements on the need for regulations on air pollutant emissions from road transport?

	Completely agree	Somewhat agree	Neither disagree nor agree	Somewhat disagree	Completely disagree	l don' t know
<ul> <li>Regulations on air pollutant emissions are necessary to ensure a high level of environmental and health protection in the EU</li> </ul>	۲	0	0	0	0	0
<ul> <li>Regulations on air pollutant emissions encourage the development of innovative technologies for cleaner vehicles</li> </ul>	۲	0	0	0	0	0
* <u>EU</u> regulations on air pollutant emissions are more efficient than national regulations on air pollutant emissions	۲	0	0	0	0	0
* EU regulations on air pollutant emissions are too costly and make cars unduly expensive	0	0	0	0	۲	0
<ul> <li>Increasing public awareness of the harmful effects of air pollutant emissions from road transport has the same effect as regulations</li> </ul>	0	0	0	0	۲	0

### 5. Are the Euro standards still relevant today? To what extent do you agree with the following statements?

	Completely agree	Somewhat agree	Neither disagree nor agree	Somewhat disagree	Completely disagree	l don' t know
<ul> <li>* Euro standards <u>for cars and vans</u> have been appropriate for reducing pollutant emissions from road transport</li> </ul>	۲	O	0	0	0	0
<ul> <li>* Euro standards <u>for lorries and buses</u> have been appropriate for reducing pollutant emissions from road transport</li> </ul>	۲	O	0	0	0	0
<ul> <li>New Euro standards would be appropriate to further reduce air pollutant emissions from cars and vans</li> </ul>	۲	0	0	0	0	0
<ul> <li>New Euro standards would be appropriate to further reduce air pollutant emissions <u>from lorries and buses</u></li> </ul>	۲	0	0	0	0	0

5.1. Which measures are the most successful to limit pollutant emissions from vehicles? Please rank the following measures from 1 being the most successful measure to 7 being the least successful.

	1	2	3	4	5	6	7
Strict regulations on vehicle air pollutant emissions	۲	۲	۲	۲	0	۲	۲
Access restrictions to urban areas for air polluting vehicles	۲	۲	0	۲	۲	0	$\bigcirc$
Differentiation in taxes based on vehicle air pollutant emissions	0	0	۲	0	0	0	0
Increasing consumer awareness of cleaner vehicles	۲	۲	0	0	0	0	۲
Subsidies for cleaner vehicles	۲	۲	۲	۲	۲	۲	۲
Shifting towards zero-emission vehicles	۲	۲	0	۲	۲	۲	۲
Limiting the demand for transport	0	0	0	0	0	۲	$\bigcirc$

## 6. In your experience, to what extent do the Euro 6/VI standards contribute to the following?

	To a very great extent	To a great extent	Somewhat	Very little	Not at all	l don' t know
* Protecting human health	0	۲	0	0	۲	0
* Reducing air pollutant emissions	۲	0	0	0	0	0
* Reducing greenhouse gas emissions	0	0	0	0	۲	۲
* Ensuring the functioning of the European internal market	0	0	۲	0	0	0
<ul> <li>Reinforcing the competitiveness of EU automotive industry</li> </ul>	0	0	۲	0	0	0
* Ensuring consumer trust in the type-approval system	0	0	0	۲	O	0

7. If you have a good understanding of the Euro standards, would you like to answer the following more detailed questions?



### Specific questions

#### Complexity

### \*8. Please indicate if you consider the Euro 6/VI standards simple or complex.

- Very simple
- Simple
- Neither simple nor complex
- Complex
- Very complex
- I don't know

#### 9. Please assess the following features of the Euro 6/VI standards.

	Very complex	Complex	Somewhat complex	Not at all complex	l don' t know
<ul> <li>Separate regulatory frameworks for cars /vans and lorries/buses</li> </ul>	0	0	0	۲	0
<ul> <li>Differences in emission limits based on fuel and technology</li> </ul>	0	0	۲	0	0
* The number of emission tests	0	۲	0	0	0
* Procedures of emission tests	۲	0	0	0	0
<ul> <li>Different dates of entry into force for the stepwise Euro 6/VI approach (6a to d, VI A to E)</li> </ul>	0	۲	0	0	0
<ul> <li>Different dates of entry into force for new vehicle types and new vehicles</li> </ul>	0	۲	0	0	۲
* Number of reporting requirements	0	۲	0	0	0
* Compliance checks	0	۲	0	0	0
Other aspect(s)	0	0	0	0	0

### 10. To what extent do you agree with the following statements? Complexity in Euro 6/VI...

	Completely agree	Somewhat agree	Neither disagree nor agree	Somewhat disagree	Completely disagree	l don't know
<ul> <li>… leads to misinterpretations among manufacturers</li> </ul>	0	۲	0	0	O	0
<ul> <li> leads to misinterpretations among type- approval authorities</li> </ul>	0	۲	0	0	0	0
* hampers optimal environmental protection	۲	0	0	0	O	0
* results in significant compliance costs	۲	0	0	0	0	0
* results in additional administrative burden	۲	0	0	0	0	0
* increases the risk of non-compliance	0	۲	O	O	0	0

**Compliance costs** are costs incurred by stakeholders to comply with obligations in a piece of legislation. **Administrative burdens** are those compliance costs incurred by stakeholders to comply with information obligations, such as reporting, registration or monitoring.

## 11. Indicate to what extent the following actions are important to reduce complexity.

	Very important	Important	Of little importance	Unimportant	l don' t know
<ul> <li>Introducing a single Euro standard for cars, vans, lorries and buses</li> </ul>	0	0	۲	0	0
<ul> <li>Introducing common dates of entry into force instead of the stepwise Euro 6/VI approach (6a to d, VI A to E) in the Euro standards</li> </ul>	۲	O	0	0	0
<ul> <li>Introducing common dates of entry into force for new vehicle types and new vehicles</li> </ul>	0	۲	0	0	۲
<ul> <li>Introducing testing procedures and limits that are technology-neutral and fuel-neutral</li> </ul>	۲	0	0	0	۲
<ul> <li>Introducing common testing procedures for cars/vans and lorries /buses</li> </ul>	0	0	۲	0	O
Other actions	۲	0	0	0	0

#### If other actions, please specify:

#### 100 character(s) maximum

To require compliance over the entire vehicle lifetime and in all driving conditions.

#### Air pollutant limits for new cars, vans, lorries and buses

#### Difference between cars/vans and lorries/buses

In the existing Euro 6 standards for cars and vans the following air pollutants are regulated: NOx (*nitrogen oxide*), PM (*particle mass*), PN (*particle number*), CO (*carbon monoxide*), THC (*total hydrocarbons*) and NMHC (*non-methane hydrocarbons*). All these air pollutants are also regulated in the existing Euro VI standards for lorries and buses. In addition,  $CH_4$  (*methane*) and  $NH_3$  (*ammonia*) are regulated in Euro VI.

### 12. To what extent do you agree with the following statements?

	Completely agree	Somewhat agree	Neither disagree nor agree	Somewhat disagree	Completely disagree	l don't know
<ul> <li>The Euro 6/VI limits for regulated air pollutants are sufficiently strict</li> </ul>	0	0	0	۲	0	0
<ul> <li>The costs of complying with the Euro 6/VI limits and related test procedures are affordable</li> </ul>	۲	0	0		0	0
<ul> <li>The costs of complying with the Euro 6/VI information obligations are affordable</li> </ul>	۲	0	0	0	0	0
<ul> <li>The list of regulated air pollutants is sufficient</li> </ul>	0	۲	0	۲	0	0
<ul> <li>Currently unregulated pollutants are emerging from road transport</li> </ul>	0	۲	0	0	0	0
<ul> <li>Current technology creates room for additional reductions in emissions</li> </ul>	۲	O	0	0	0	0

12.1. If you disagree that the Euro 6/VI limits for regulated air pollutants are sufficiently strict, the limits of which air pollutants are <u>not</u> strict enough? Please indicate and explain why.

- NOx (nitrogen oxide)
- PM (particle mass) or PN (particle number)
- CO (carbon monoxide)
- THC (total hydrocarbons)
- NMHC (non-methane hydrocarbons)
- $\blacksquare$  CH<sub>4</sub> (methane) for lorries and buses
- NH<sub>3</sub> (ammonia) for lorries and buses
- I don't know

#### Please explain why the limit for NOx is not strict enough:

50 character(s) maximum

Worsens problems in air quality, health and biodiv

#### Please explain why the limit for PM or PN is not strict enough:

50 character(s) maximum

Still effect to air quality and health risks

#### Please explain why the limit for $CH_4$ is not strict enough:

50 character(s) maximum

Need to account for global warming potential

#### Please explain why the limit for $NH_3$ is not strict enough:

50 character(s) maximum

Has effect on nitrogen deposite problem

### 12.2. If you disagree that the list of regulated air pollutants is sufficient, which air pollutants should be added to the Euro standards? Please indicate and explain why.

 $\blacksquare$  NH<sub>3</sub> for cars and vans

- $^{\blacksquare}$  CH<sub>4</sub> for cars and vans
- Ultra-fine particles (sub-23 nm)
- N<sub>2</sub>O (nitrous oxide)
- Image: NO₂ (nitrogen dioxide)
- CH<sub>2</sub>O (formaldehyde)
- Non-methane organic gases (NMOG)
- Brake emissions
- Tyre and road-wear emissions
- Other(s)
- I don't know

#### Please explain why $NH_3$ should be added to the Euro standards:

50 character(s) maximum

Use of Adblue causes new problems with NH3.

#### Please explain why $CH_4$ should be added to the Euro standards:

50 character(s) maximum

Apply to all vehicles for technology neutrality

### Please explain why ultra-fine particles should be added to the Euro standards:

50 character(s) maximum

Technology available & helps against health issues

#### Please explain why $N_2O$ should be added to the Euro standards:

50 character(s) maximum

because it is also a greenhousegas

#### Please explain why $NO_2$ should be added to the Euro standards:

50 character(s) maximum

NO2 has direct impact on air quality

#### Please explain why CH<sub>2</sub>O should be added to the Euro standards:

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50 character(s) maximum
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#### Please explain why brake emissions should be added to the Euro standards:

50 character(s) maximum

relative contribution to air quality is increasing

### Please explain why tyre and road-wear emissions should be added to the Euro standards:

50 character(s) maximum

Increasingly affects health and air quality.

## 13. Indicate to what extent the following actions are important to improve the effects of emission limits.

	Very important	Important	Of little importance	Unimportant	l don't know
<ul> <li>Developing stricter limits for regulated pollutants</li> </ul>	۲	0	0	0	0
<ul> <li>Setting new emission limits for non- regulated pollutants and related new testing procedures</li> </ul>	۲	0	0	0	0
* Developing fuel-neutral and technology-neutral limits	۲	0	0	0	0
<ul> <li>Introducing 'geo-fencing' that puts a vehicle automatically into zero- emission mode depending on its geolocation</li> </ul>	O	۲	0	0	0
Other actions	۲	0	0	0	0

#### If other actions, please specify.

#### 100 character(s) maximum

ensuring the existing limits over the entire vehicle lifetime and in all driving conditions

#### Real-world air pollutant emissions of cars, vans, lorries and buses

### 14. To what extent do you agree with the following statements?

	Completely agree	Somewhat agree	Neither disagree nor agree	Somewhat disagree	Completely disagree	l don' t know
* Real-world emissions are not adequately monitored over the entire lifetime of a vehicle in Euro 6/VI	۲	0	0	0	0	0
* Real-world emissions are not adequately limited over the entire lifetime of a vehicle in Euro 6/VI	۲	0	0	0	0	0
* On-board diagnostics (OBD) ensures that new vehicles are compliant with the pollutant limits over their entire lifetime	0	0	0	0	۲	0
<ul> <li>Real driving emission (RDE) testing ensures that cars and vans are compliant with the pollutant limits in all driving conditions</li> </ul>	0	0	0	۲	0	۲
* Portable measurement systems (PEMS) testing ensures that lorries and buses are compliant with the pollutant limits in all driving conditions	0	0	۲	۲	۲	0

## 15. To what extent do the following concerns possibly contribute to an increase in air pollutant emissions?

	To a very great extent	To a great extent	Somewhat	Very little	Not at all	l don' t know
* Vehicle ageing	۲	0	0	0	0	0
* Cost of vehicle maintenance	0	۲	0	0	0	0
* Tampering	۲	0	0	0	$\odot$	0
<ul> <li>Shortcomings of the existing on- road test</li> </ul>	۲	0	0	0	0	0
<ul> <li>Limited effect of on-board diagnostics</li> </ul>	0	0	۲	0	O	۲
<ul> <li>Inadequate periodic technical inspections for vehicles</li> </ul>	0	۲	0	0	0	0
<ul> <li>Inadequate technical roadside inspections for vehicles</li> </ul>	0	0	۲	0	O	0
Other(s)	0	0	0	0	0	۲

## 16. Please indicate to what extent the following actions are important to measure real world emissions.

	Very important	Important	Of little importance	Unimportant	l don' t know
<ul> <li>Improving the comprehensiveness of existing emission tests for cars, vans, lorries and buses</li> </ul>	۲	0	0	0	0
<ul> <li>Implementing on-board monitoring of air pollutant emissions from cars, vans, lorries and buses</li> </ul>	۲	0	0	0	0
<ul> <li>Improving the rules for the emission tests carried out during periodic technical inspections for cars, vans, lorries and buses</li> </ul>	۲	0	0	0	0
Other actions	۲	0	0	۲	0

#### If other actions, please specify

100 character(s) maximum

Simplify TA tests to facilitate PTI, OBM, road-side inspections, incl. idle, regeneration tests

Other problem(s)

# 17. Do you think there are other problem(s) that hamper the functioning of the Euro standards? If yes, please specify and explain how they can be addressed.

500 character(s) maximum

The lack of effective lifetime verification is hampering the functioning of Euro standards. A prerequisite for being able to control lifetime emissions performance is a clear distribution of responsibility. If this settled, requirements can be extended to the full vehicle lifetime. Enforcement can be performed by simplified tests under ISC verification, Market surveillance programs and PTI. The introduction of Euro 7 / VII should not lead to any delay in the transition to ZE vehicles.

#### **Document upload and contact**

### 18. You may attach supporting documents for your replies to the questions above.

The maximum file size is 1 MB Only files of the type pdf,txt,doc,docx,odt,rtf are allowed 927f8039-38b2-4fbb-9097-427ed057156d/E7\_Lifetimecompliance\_final29Oct2020.pdf

### \*19. Please indicate whether the Commission may contact you for further details on the information submitted, if required.



#### Contact

grow-c4@ec.europa.eu