

EPMA Sustainability Survey for the SUPREME ProjectSurvey in the PM community on importance of environmental impact indicators

This survey is run within the **SUPREME** project.

The aim is to assess the awareness of the Powder Metallurgy community about sustainability issues, in particular about the opinions on the importance of the various environmental impact indicators (16 different ones) for the PM industry. As different sectors and activities may have a different view, some of the questions are used to discriminate the origin of the opinions, that will be strictly anonymous.

The key question is the last one, where we ask you to assess the importance of the 16 indicators according to you and your experience and knowledge (not necessarily from a "sustainability expert"!). In order to help you with the definitions of the indicators, we have prepared a "survey guide" where they are described, please check it here in case of need.

For any further explanation, refer to Bruno Vicenzi (bv@epma.com).

^ 1. Are you from:
A Powder Metallurgy related company
A Powder Metallurgy related research group
Other (please specify)
2. Is your company/research group (or you individually) EPMA member?
○ Yes
○ No
O Not sure

3. Where are you located
○ Europe
Outside Europe
* 4. What field(s) of powder metallurgy are you/is your company/research group involved in? (multiple choices possible)
Powder production, any material or method
PIM feedstock manufacturing
Parts production with Press&Sinter of metal powders
Parts production with Hard Materials (incl. ceramics)
Parts production by Powder Injection Moulding
Parts production by Metal and Ceramic Additive Manufacturing
Parts production by Hot Isostatic Pressing
Parts production with Functional Materials
Equipment manufacturing (for PM production, testing, etc)
Testing and services, incl. consultants
Additives for PM (incl. binders, lubricants, grinding media, etc., excluding metal or ceramic powders)
Other (please specify)

in case)?		ou carry on your j	ob (only one ch	ioice, main sector		
Research						
Production						
Quality						
Management						
Other (please	specify)					
•	•	ed in environment ed on the subject	•	r job? (Meaning:		
Yes						
Yes, in a previous job/position						
○ No						
* 7. Rate the importance of the following 16 environmental impact indicators: (assign importance with figures from 1 to 4, 1=most important to 4=least important. For explanations on indicators, read the survey guide)						
		indicators, read ti	ne survey guide)		
	1	2	ne survey guide	4		
Climate change (kg CO2 eq)						
_						
(kg CO2 eq) Ozone depletion						
(kg CO2 eq) Ozone depletion (kg CFC-11 eq) Non-cancer human health						
(kg CO2 eq) Ozone depletion (kg CFC-11 eq) Non-cancer human health effects (CTUh) Cancer human health						

	1	2	3	4
lonizing radiation HH (kBq U235 eq)	0	\circ	\circ	\circ
Photochemical ozone formation (kg NMVOC eq)			0	0
Acidification terrestrial and freshwater (molc H+ eq)			0	
Eutrophication terrestrial (molc N eq)			0	
Eutrophication freshwater (kg P eq)	\bigcirc		\bigcirc	
Eutrophication marine (kg N eq)	0		0	0
Ecotoxicity freshwater (CTUe)	\bigcirc		\bigcirc	
Land use (Pt)		0	0	
Water scarcity (m3 depriv)	0		\circ	\circ
Resource use, energy carriers (MJ)	0		0	0
Resource use, mineral and metals (kg Sb eq)				