

Questionnaire for online survey of students' attitudes towards the energy transition and a career in energy













Background

The survey is targeted at students in tertiary education (regardless of gender and the field of their studies).

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INTRO SCREEN

The education and training landscape across the world is currently facing an urgent demand to prepare students for positions at the core of what is known as the energy transition, i.e. the global shift from relying on traditional, non-renewable energy sources (like fossil fuels) to a cleaner and more sustainable energy system mainly based on renewable sources. Each country needs to manage the energy transition in an effective but also socially sustainable way, for which individuals with new (combinations) of skills are required at all levels, from manual labour positions to top executives.

Against this background, we are conducting a survey of students in universities and other tertiary education institutions across the world to explore their perceptions about the energy transition and gauge their interest in a career in the energy sector or in other positions at the centre of the energy transition.

We cordially invite you to participate in this survey, which is being conducted by empirica as part of a study commissioned by the European Climate, Infrastructure, and Environment Executive Agency (CINEA), an agency of the European Commission. Your input is incredibly valuable in shaping the energy transition in Europe and beyond.

We sincerely appreciate your time and willingness to share your experiences and perspectives. Completing the survey should take approximately 5 minutes of your time. Rest assured that your participation is entirely voluntary, and your responses will be handled with strict confidentiality, fully complying with EU data protection rules. The survey will not allow any identification of your person or the organisation you work for. Its purpose is to contribute to policy research, and the results will be published only in aggregated form.

Together, let's drive positive change and foster an environment that promotes the development of study programmes and job profiles that effectively address the demands arising from climate change and the energy transition.

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TOPIC	Sub-topic	Target group	Question wording	Response option	Comments
Screener question	Confirmation that person is member of target universe	ALL	SCOPE Are you currently enrolled in a programme of education at a university or another tertiary education institution?	[Single answer] 1 Yes 2 No => screen out (Display: This survey is not for you, as it is targeted exclusively at students in tertiary education. Thank you, however, for your willingness to participate!)	
		If SCOPE = 1	LEVEL What is the current level of education in which you are enrolled?	[Single answer] 1 Bachelor's or equivalent 2 Master's or eqivalent 3 Ph.D. 4 Vocational Education and Training (VET) programme 5 College programme 6 Technical or trade school programme 7 Professional certification programme 8 Other, please specify []	
Studies		If SCOPE = 1	GRAD In which year are you expecting to graduate?	ENTER NUMBERS year 98 Don't know 99 No answer	

Field of study	If SCOPE = 1	FIELD1 What field(s) of study are you	[Multiple answers]	Source: ISCED-F 2013
(ISCED-F 2013)		currently pursuing?	1 Education	
			2 Arts and humanities	
			3 Social sciences, journalism and information	
			4 Business, administration and law	
			5 Natural sciences and mathematics	
			6 Information and Communication	
			Technologies (ICTs)	
			7 Engineering, manufacturing and	
			construction	
			8 Agriculture, forestry, fisheries and veterinary	
			9 Health and welfare	
			10 Services	
			11 Other, please specify []	
			10 No answer	
	If FIELD1 = 5	FIELD2 What field(s) of study within	[Multiple answers]	Source: ISCED-F 2013
		the natural sciences and mathematics	1 Biology and related sciences	
		are you currently pursuing?	2 Environmental sciences and related	
			3 Chemistry	
			4 Earth sciences	
			5 Physics	
			6 Mathematics and statistics	
			7 Other, please specify []	

	If FIELD1 = 7	FIELD3 What field(s) of study within engineering, manufacturing and construction are you currently pursuing?	[Multiple answers] 1 Chemical engineering 2 Environmental protection 3 Electricity and energy 4 Electronics and automation 5 Mechanics and metal trades 6 Motor vehicles, ships and aircraft 7 Food processing 8 Manufacturing and processing of materials 9 Manufacturing and processing of textiles 10 Mining and extraction 11 Archictecture and town planning 12 Building and civil engineering 13 Other, please specify []	Source: ISCED-F 2013
Reason for choice of field	If SCOPE = 1	REASON1 Why did you decide to study in the field you are currently enrolled in? Mark all that apply.	[Multiple answers] 1 I always expected to work in this field 2 It is a field in which I excel during my studies 3 I was interested in the subject matter (fun and interesting) 4 Influence of faculty members or teaching assistants 5 Influence of advisor or mentor 6 It was recommended to me 7 Because of relative(s) in the field 8 Because of friend(s) in the field 9 Career fairs and career counsellor 10 Prospects for personal development 11 Looking for a challenging job 12 Work conditions and benefits (good salary prospects) 13 Good prospects for employment (career opportunity) 14 Social aspect of expected job with a diploma 15 Other, please specify: 16 No answer	Source: SAGA survey

Uncompleted degree programmes	If SCOPE	For the next questions, we would like to know if you have ever been enrolled in an education programme in which you did not receive a diploma. If you have been enrolled but have not completed one or more programmes, please complete the following questions in reference to the programme in which you were enrolled for the longest period of time but did not complete. UNC1 Were you ever enrolled in an education programme that you did not complete?	[Single answer] 1 Yes 2 No 3 No answer	Source: SAGA survey
	If UNC1	programme initially?	[Multiple answers] 1 Interested in the subject matter 2 Field in which I excelled 3 Influence of faculty members or teaching assistants 4 Influence of advisor or mentor 5 Prospects for personal development 6 Social aspect of expected job with a diploma in this field 7 Career fairs and career counsellor 8 Work conditions and benefits expected 9 I always thought I would study in this field 10 Other, please specify: 11 No answer	Source: SAGA survey
	If UNC1	programme?	[Multiple answers] 1 Found another major more interesting 2 Moved to another level of education (e.g., master's to Ph.D.) 3 Lost interest in the programme 4 Discouraged by conceptual difficulties 4 Feeling overwhelmed by the pace and load of curriculum and demands	Source: SAGA survey

		2 Arts and humanities 3 Social sciences, journalism and information 4 Business, administration and law 5 Natural sciences and mathematics 6 Information and Communication Technologies (ICTs) 7 Engineering, manufacturing and construction 8 Agriculture, forestry, fisheries and veterinary 9 Health and welfare 10 Services 11 Other, please specify []	
If UNC1 = 1	UNC5 What field(s) of study was this programme in?	5 Discouraged by low grades 6 Reward not worth the effort 7 Poor teaching 8 Low self-confidence 9 Discrimination related reasons 10 Harassment related reasons 11 Received compelling job offer before graduation 12 Not enough support (mentoring or advising) 13 Moved to another institution to continue in a similar programme 14 I was required to leave by the university due to low grades 15 I was required to leave by the university due to taking too long to reach degree 16 I was required to leave by the university due to disciplinary action 17 Other, please specify: 18 No answer [Multiple answers] 1 Education	Source: ISCED-F 2013

		was this programme in?	[Multiple answers] 1 Biology and related sciences 2 Environmental sciences and related 3 Chemistry 4 Earth sciences 5 Physics 6 Mathematics and statistics 7 Other, please specify []	Source: ISCED-F 2013
	If UNC5 = 7		[Multiple answers] 1 Chemical engineering 2 Environmental protection 3 Electricity and energy 4 Electronics and automation 5 Mechanics and metal trades 6 Motor vehicles, ships and aircraft 7 Food processing 8 Manufacturing and processing of materials 9 Manufacturing and processing of textiles 10 Mining and extraction 11 Archictecture and town planning 12 Building and civil engineering 13 Other, please specify []	Source: ISCED-F 2013
Attitudes to the energy transition			[Single answer] 1 Not at all a serious problem 2 3 4 5 6 7 8 9 10 An extremely serious problem 11 No answer	Source of first question: Eurobarometer 513 and previous editions

	if:		<u>transition</u> for combatting climate change?	[Single answer] 1 Not important at all 2 3 4 5 6 7 8 9 10 Extremely important 11 No answer	
	lf :		opinion about the importance of climate change and the energy transition influenced your choice of study programme?	[Single answer] 1 Not at all 2 Not really 3 Yes, a little 4 Yes, a lot 5 No answer	
Explicit interest in career in energy			consider the prospect of pursuing a career in the energy sector upon completion of your studies? By 'energy sector', we mean organisations involved in energy generation, storage, management, or distribution. This also includes positions in associated fields such as manufacturing, servicing, or distributing energy-related products or equipment, research and consultancy on the energy transition.	[Single answer] 1 Not at all 2 Slightly 3 Moderately 4 Strongly 5 Very strongly 6 No answer	
	If :	SCOPE = 1	FIT How well do you believe your	[Single answer]	

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	skills, interests, and values align with	a FOR EACH:	
	career in the energy sector?	1 Not at all	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10 Extremely well	
		11 No answer	

Factors influencing	If SCOPE = 1	FACTOR On a scale of importance,	[Single answer]	Adapted from SAGA
choice of employer/		how would you rate the following	1 Not important at all	survey
sector		factors as criteria for selecting among	2 Not important	
		potential jobs after completing your	3 Neutral	
		studies?	4 Important	
		FACTOR1 Salary	5 Very important	
		FACTOR2 Employee benefits, i.e. non-	6 No answer	
		salary perks, incentives, advantages		
		FACTOR3 Job security		
		FACTOR4 Job location		
		FACTOR5 Working conditions		
		FACTOR6 Work-life balance		
		FACTOR7 Flexibility in the workplace		
		FACTOR8 Opportunities for		
		advancement		
		FACTOR9 Training opportunities		
		FACTOR10 International mobility		
		opportunities		
		FACTOR11 Job content		
		FACTOR12 Intellectual and personal		
		challenges		
		FACTOR13 Level of responsibility		
		FACTOR14 Degree of independence		
		FACTOR15 Contribution to society		
		FACTOR16 Equitable treatment of		
		people		
		FACTOR17 Relationship with		
		colleagues		

Job content preferences		If SCOPE = 1	CONTENT Please rate the importance of different types of job content by indicating the level of preference for each item below. CONTENT1 Hands-on work that involves practical tasks and activities CONTENT2 Analyzing data and working with numbers CONTENT3 Interacting and working directly with people CONTENT4 Creative work that allows for innovation and problem-solving CONTENT5 Research and gathering information CONTENT6 Working with technology and digital tools CONTENT7 Planning and organising projects or events CONTENT8 Writing, communication, and content creation CONTENT9 Working in a team and collaborating with others CONTENT10 Continuous learning and staying updated with industry trends	[Single answer] For each: 1 Totally undesirable 2 Rather undesirable 3 Neutral 4 Important 5 Essential 6 No answer	
Sociodemographics	Gender of respondent	If SCOPE = 1	GENDER Regarding gender identity, which of the following options best describes how you think of yourself?	[Multiple answers] 1 Female 2 Male 3 Non-Binary / Other 4 No answer	
	Age	If SCOPE = 1	AGE What is your age (in years)?	ENTER NUMBERS years 99 No answer	
	Country of birth and residence	If SCOPE = 1	NATION1 In which country were you born?	Drop-down list from EUSurvey	Drop-down list entire world

		If SCOPE = 1	NATION2 In which country do you study? If you are a resident of more than one country, please refer to the country you spend most of your time in	Drop-down list from EUSurvey	
Discrimination	Perception of discrimination	If SCOPE = 1	MINOR1 Would you describe yourself as being a member of a group that is discriminated against in the country you live in?	[Single answer] 1 Yes 2 No 3 No answer	Source: European Social Survey (2020). ESS Round 10 Source Questionnaire.
	Reason for discrimination	If MINOR1 = 1	MINOR2 On what grounds is your group discriminated against?	[Multiple answers] 1 Colour or race 2 Nationality 3 Religion 4 Language 5 Ethnic group 6 Age 7 Gender 8 Sexuality 9 Disability 10 Other, please specify []	ESS questions C18, C19, C20
			Many thanks for your contribution to this research study! Your data will be treated strictly according to the European data protection legislation. If you have any questions or would like to be notified when results become available, please get in touch with Karsten Gareis from the study team, who can be reached at GenderInEnergy@empirica.com.		

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