



CLIMATE CHANGE IN KAZAKHSTAN: STATE POLICY AND PUBLIC AWARENESS

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State policy

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Green Economy indicators of Kazakhstan

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Public awareness

STATE POLICY

The Strategy Kazakhstan-2050

- organic products, environmentally friendly production by mining enterprises

Concept for the transition to a "green economy"

- reduce greenhouse gas emissions and the energy intensity of GDP, abandon coal-fired power generation
- increase the share of renewable and alternative energy sources

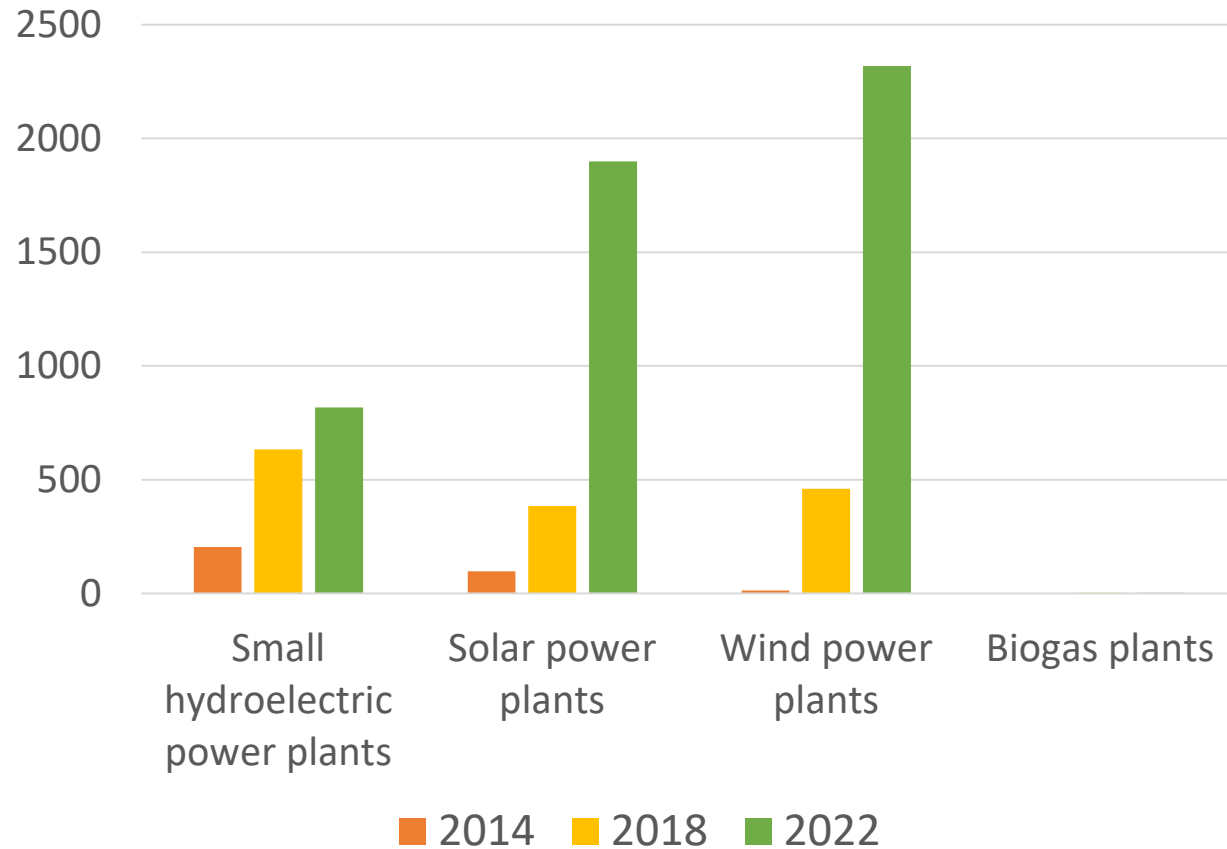
Environmental Code

- ensuring the environmental foundations of sustainable development

Strategy for achieving carbon neutrality by 2060

- sustainable development of the economy and carbon neutrality by 2060

Electricity production by RES, million kWh



RES facilities

	2020	2021	2022	2023
Wind power plants	19	29	40	46
Hydroelectric power plants	37	38	40	37
Solar power plants	31	43	49	44
Biogas power plants	3	5	5	3
Total	90	115	134	130



Share of RES in total electricity production, excluding large hydroelectric power plants

4.44% in 2022

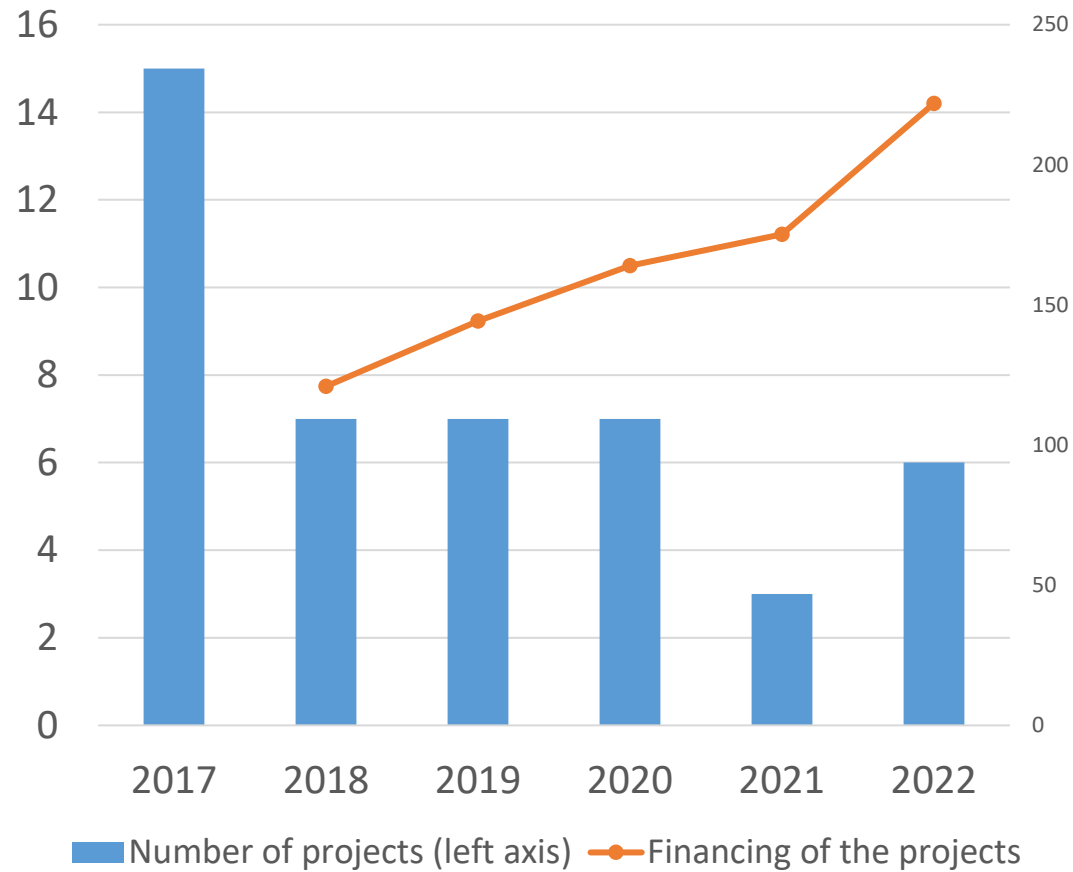
Number of workers in RES facilities

	2020	2021	2022	2023
Wind power plants	217	305	446	512
Hydroelectric power plants	534	691	758	696
Solar power plants	188	327	385	429
Biogas power plants	16	27	23	23
Total	955	1 350	1 612	1 660

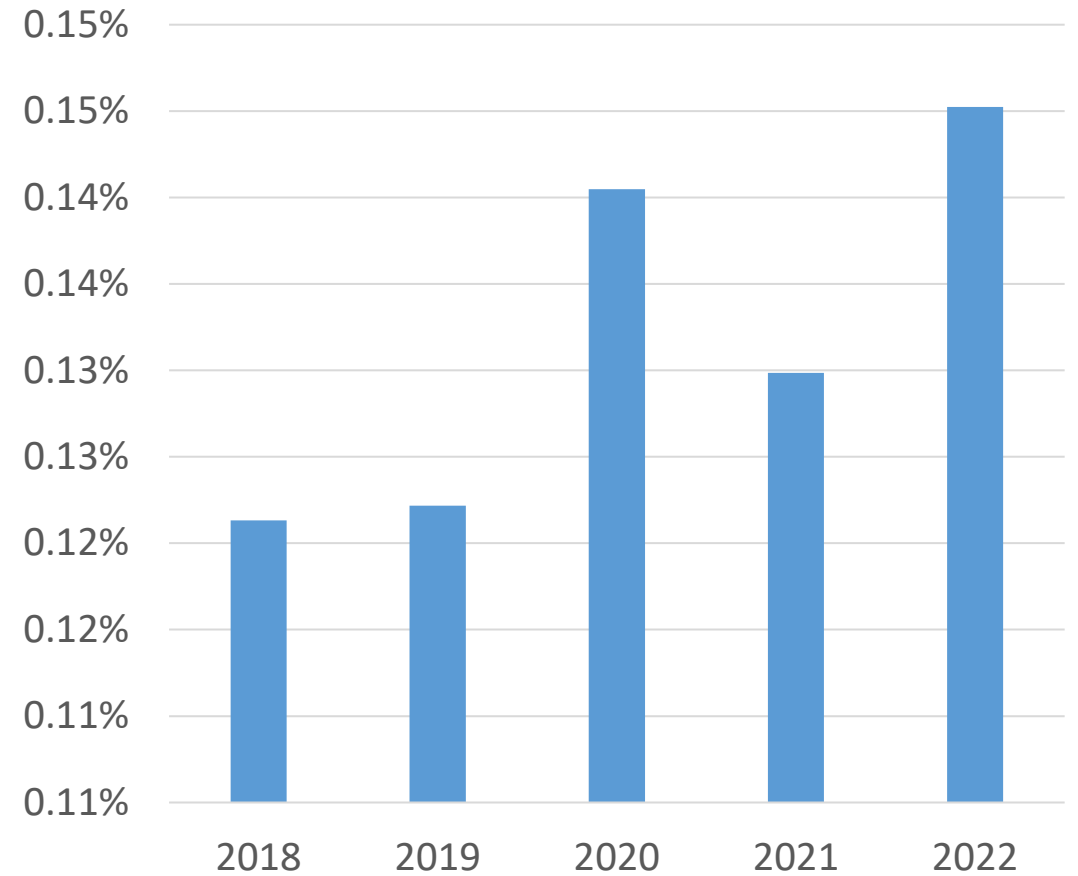
Environmental investments, million USD

	2016	2017	2018	2019	2020	2021	2022
Investments aimed at protecting the environment, out of which							
Internal investments	128	267	322	519	420	402	347
Share	74%	68%	77%	30%	61%	54%	63%
Foreign investments	34	85	75	366	166	186	127
Share	26%	32%	23%	70%	39%	46%	37%

Number of scientific and technical projects on the green economy and their financing, in million tenge



Share of expenditure on the green economy projects in total R&D expenditure



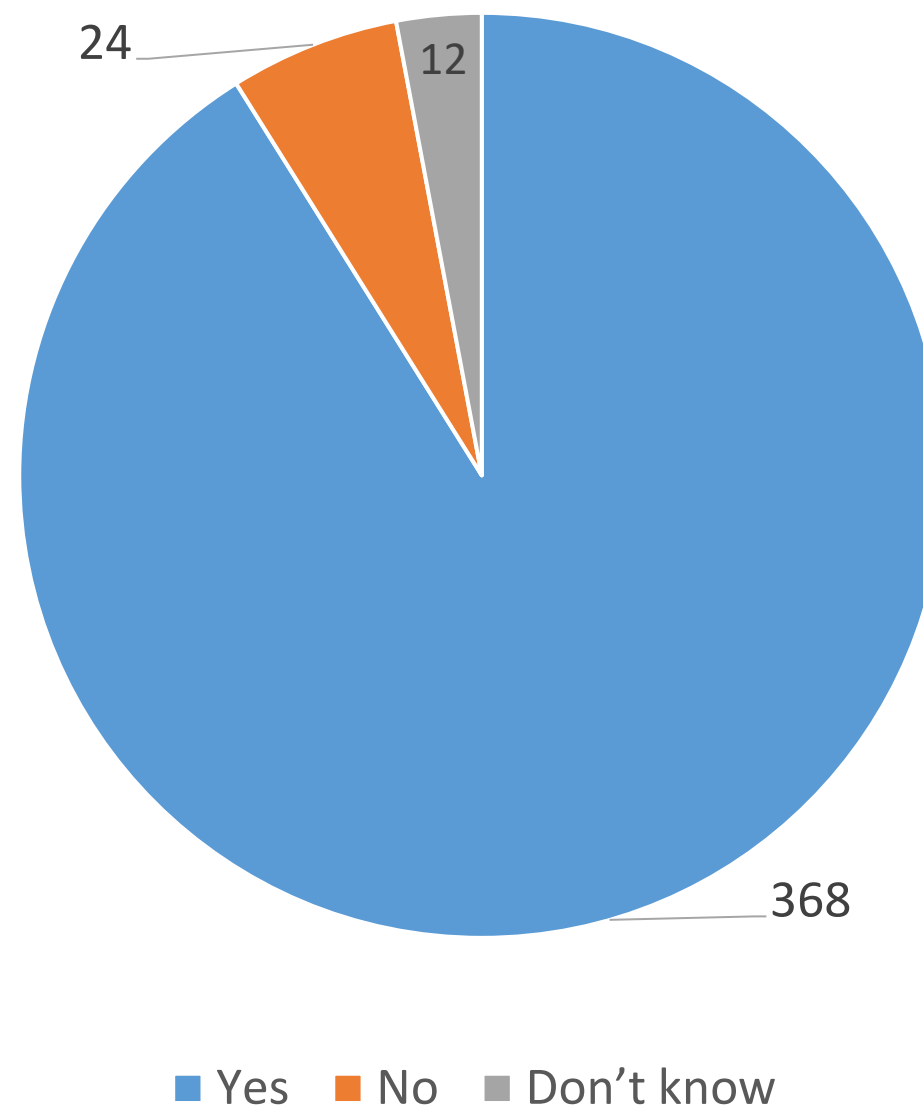
The survey reached 404 respondents, ensuring a diverse representation of the community. Participants were asked a series of questions, with the primary focus being their awareness of climate change.

Out of the 404 respondents:

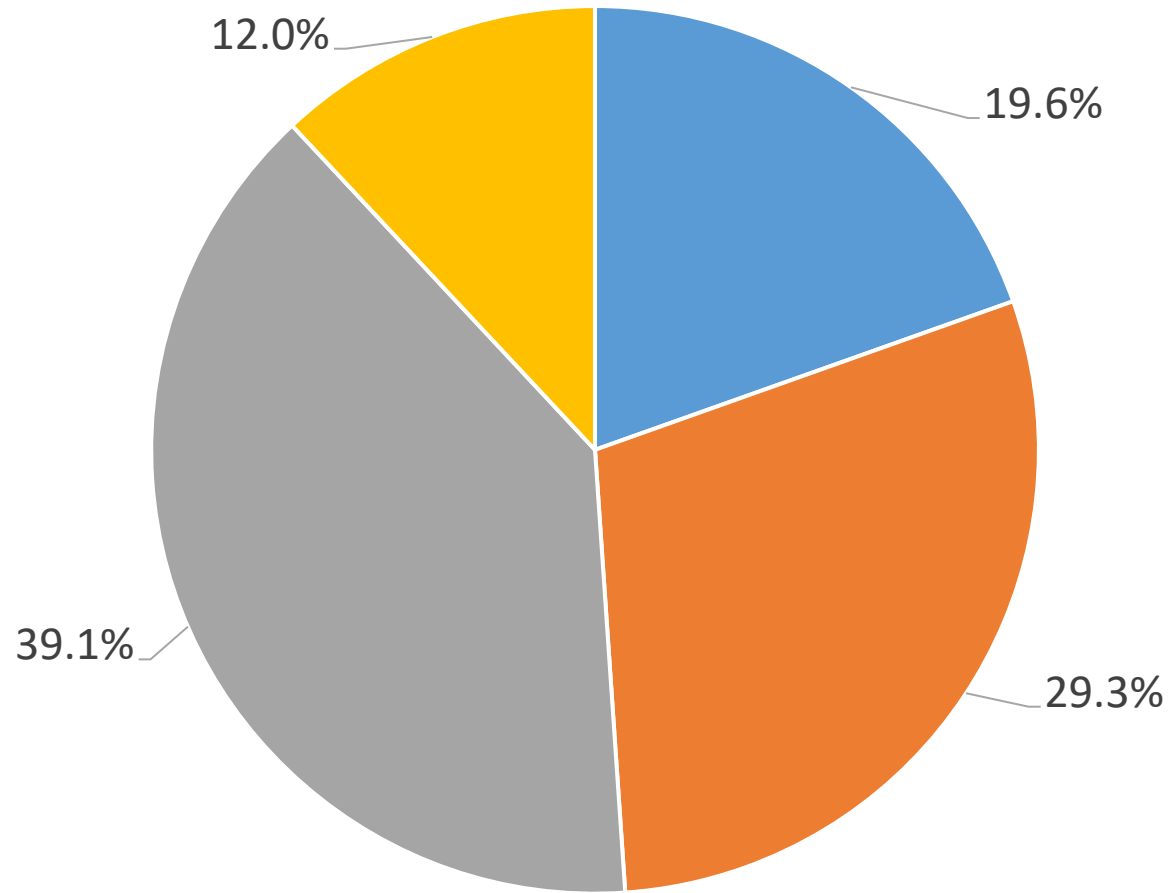
- 368 (91.1%) answered "Yes"
- 24 (5.9%) answered "No"
- 12 (3.0%) answered "Don't know"

For further analysis, only the responses from those who answered "Yes" were considered. This subgroup of 368 respondents represents the population segment aware of climate change.

Have you heard of "climate change"?

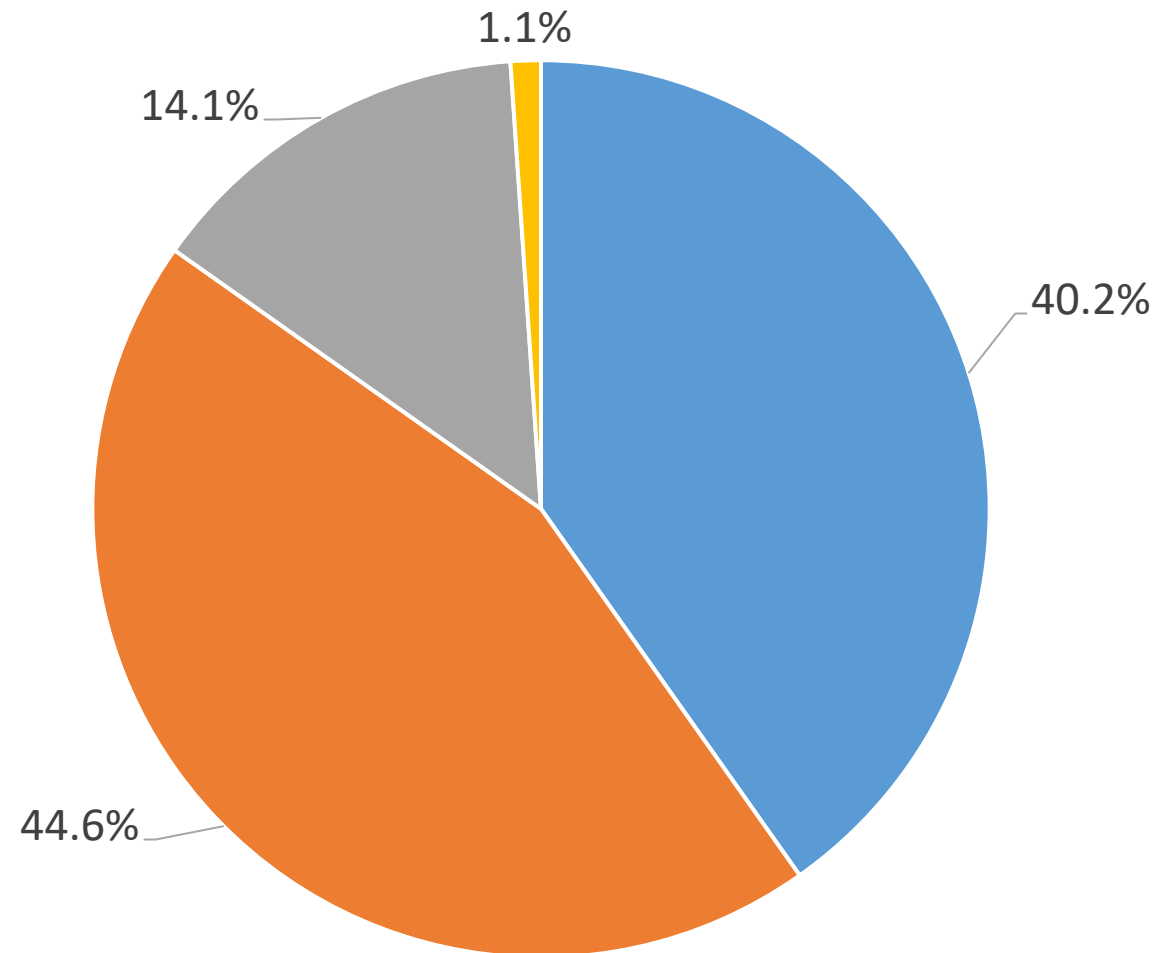


How often do you discuss issues related to climate change?



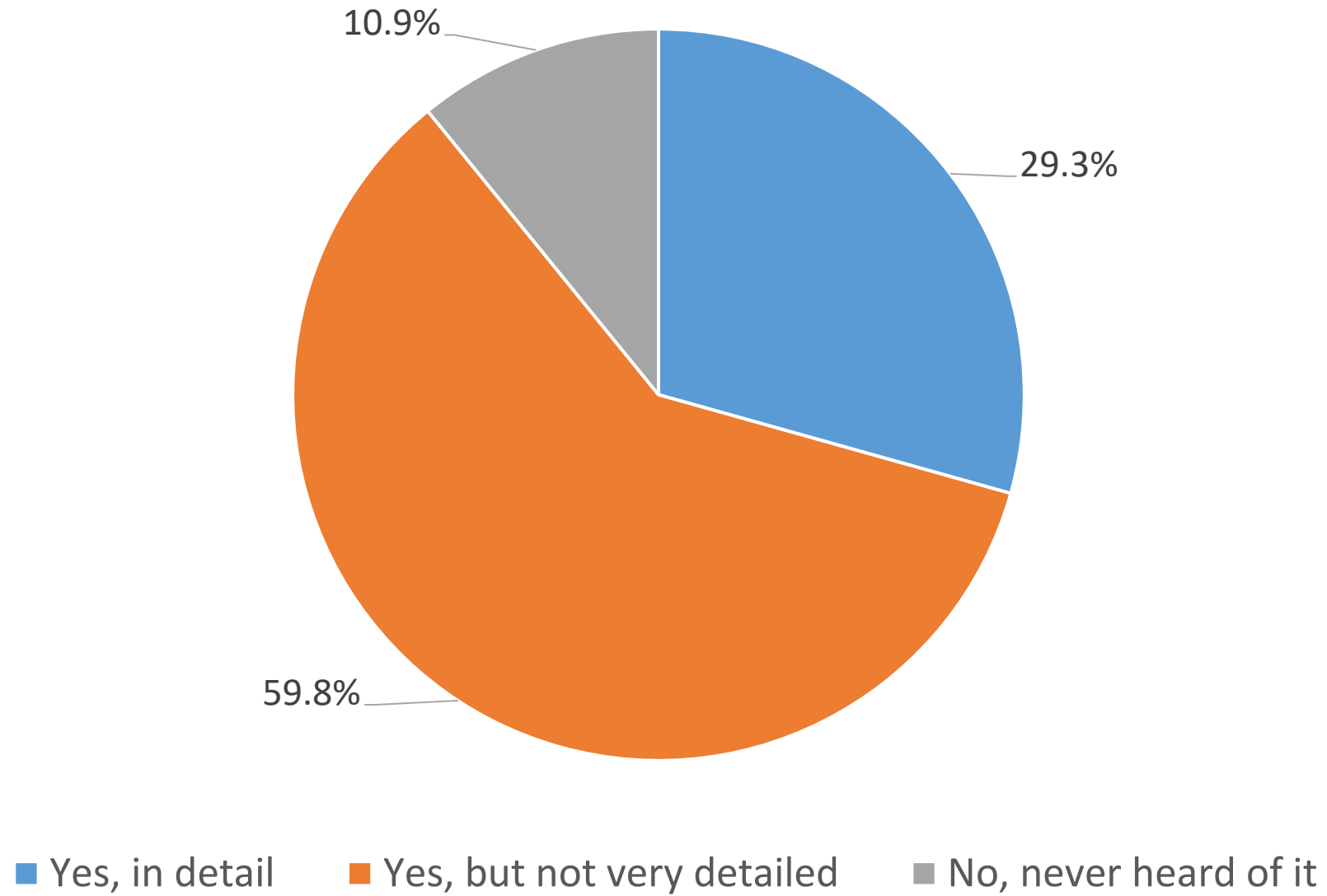
■ Daily ■ Several times a week ■ Rarely ■ Almost never

How significant is the issue of climate change to you personally?

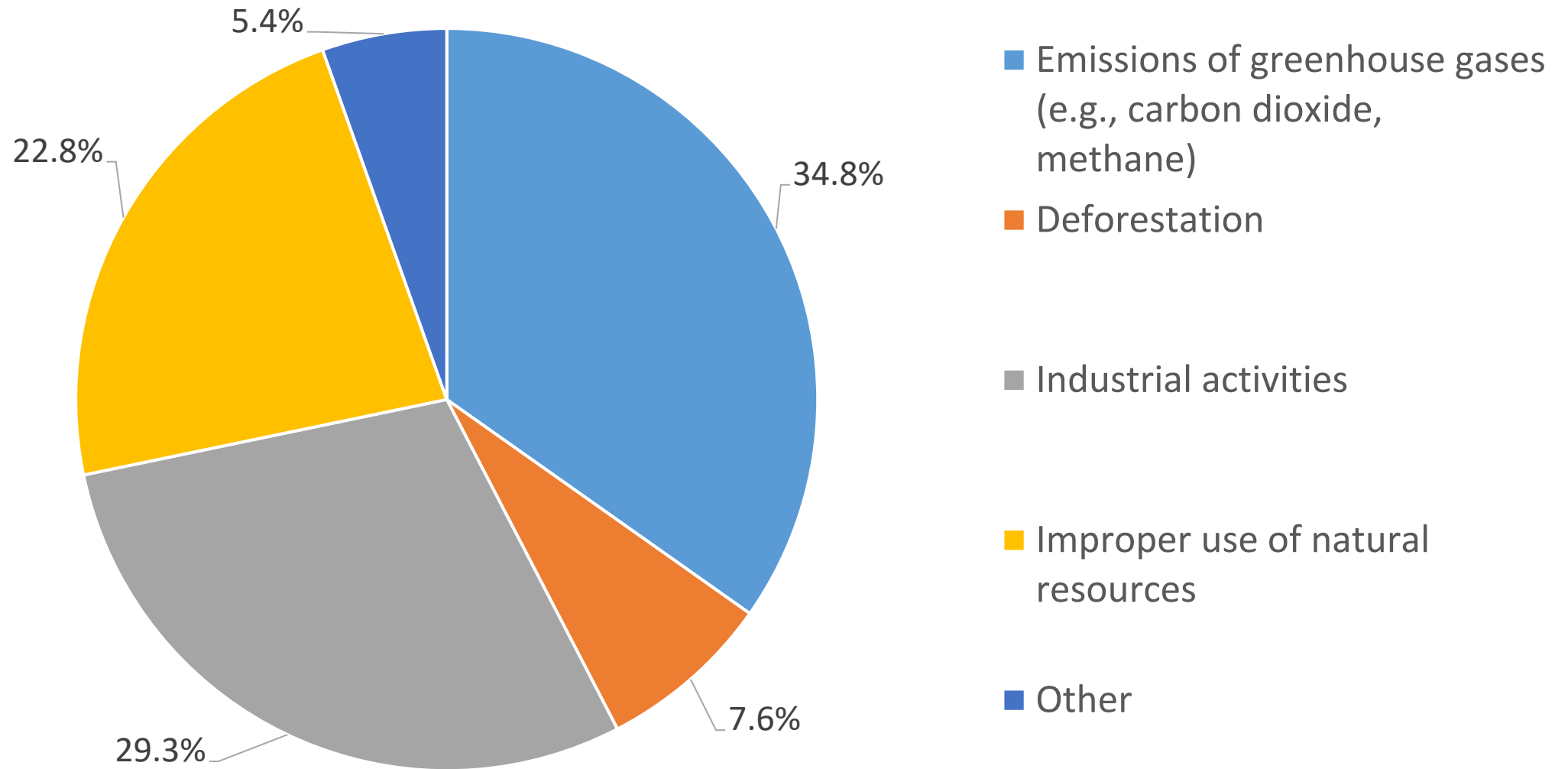


■ Very significant ■ Quite significant ■ Not very significant ■ Not at all significant

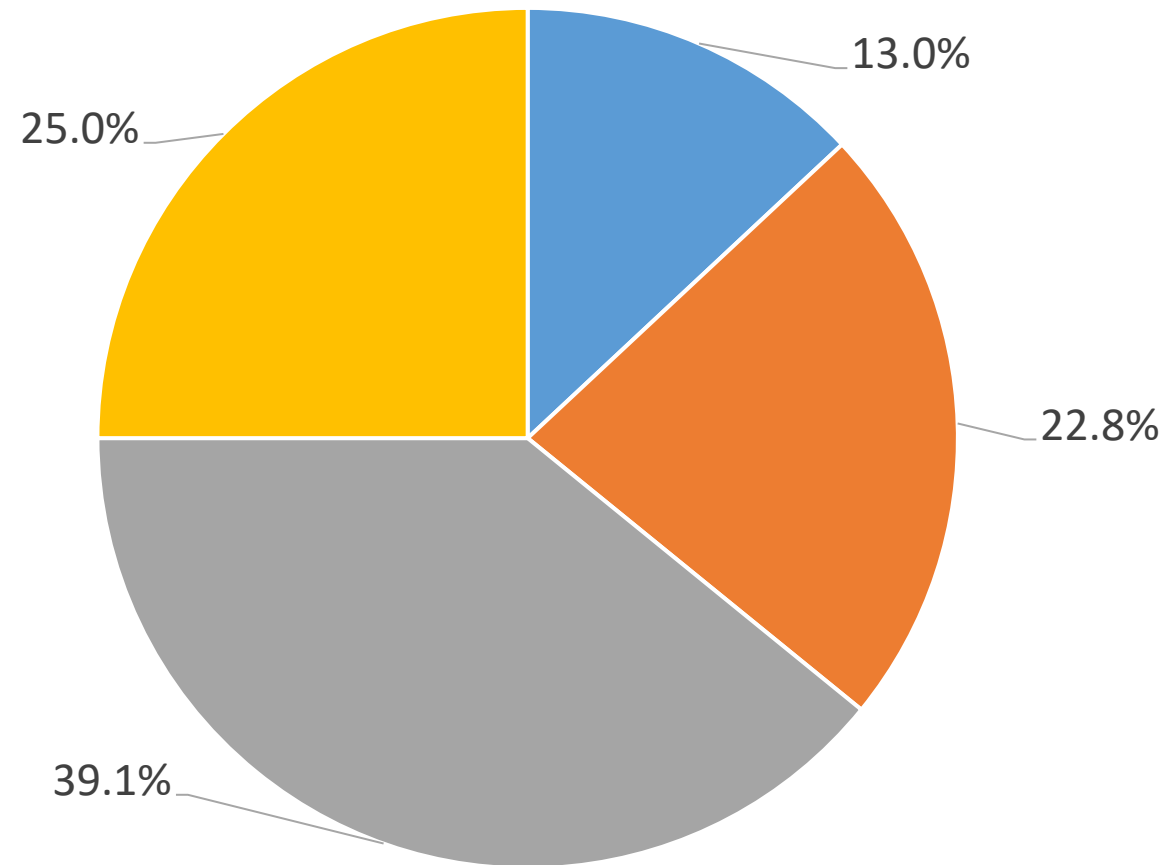
Are you familiar with the greenhouse effect?



What do you consider the main cause of climate change?

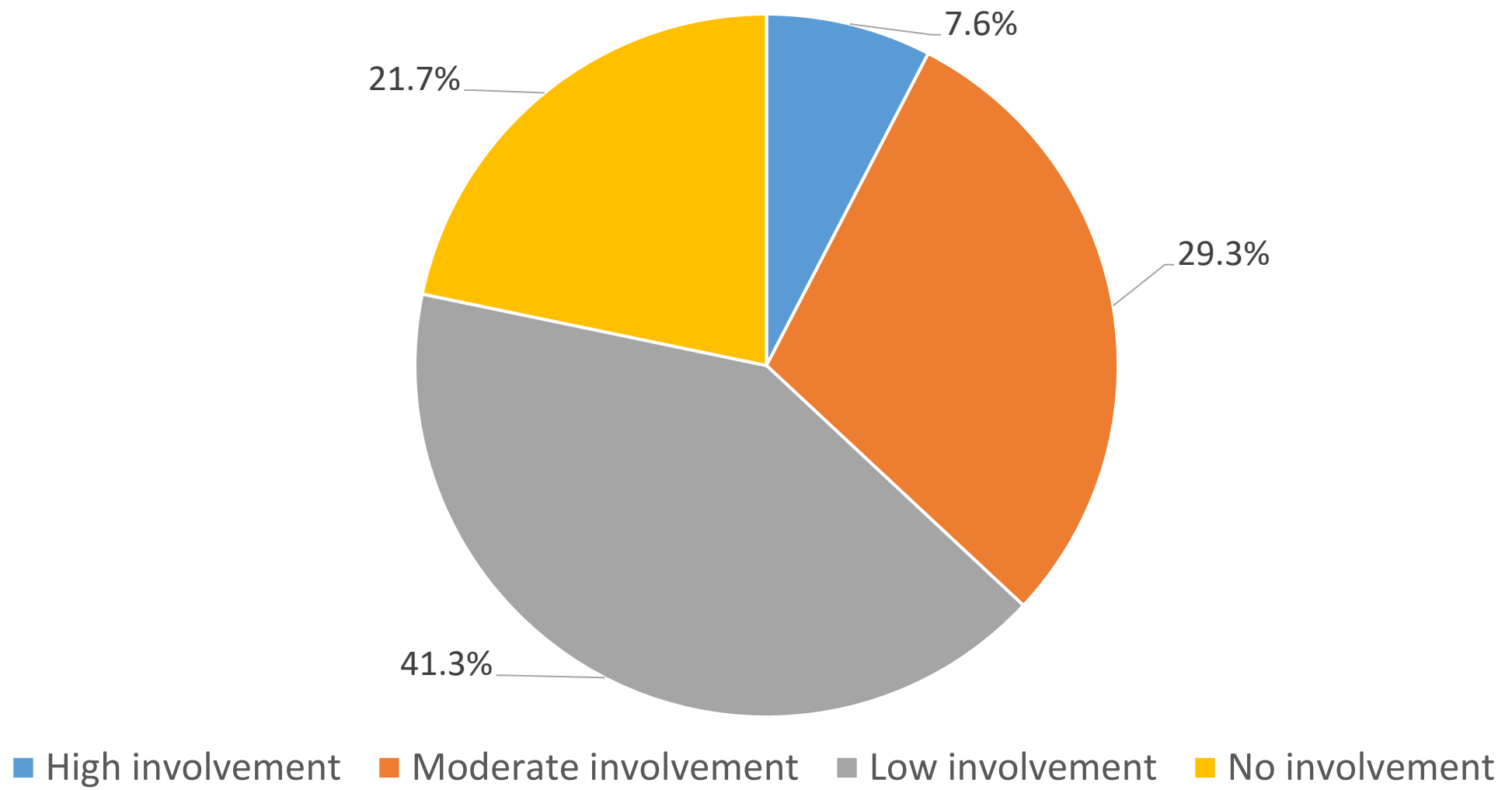


How do you assess the overall level of involvement of the following sectors in addressing the issue of climate change in Kazakhstan?
(Ordinary people)

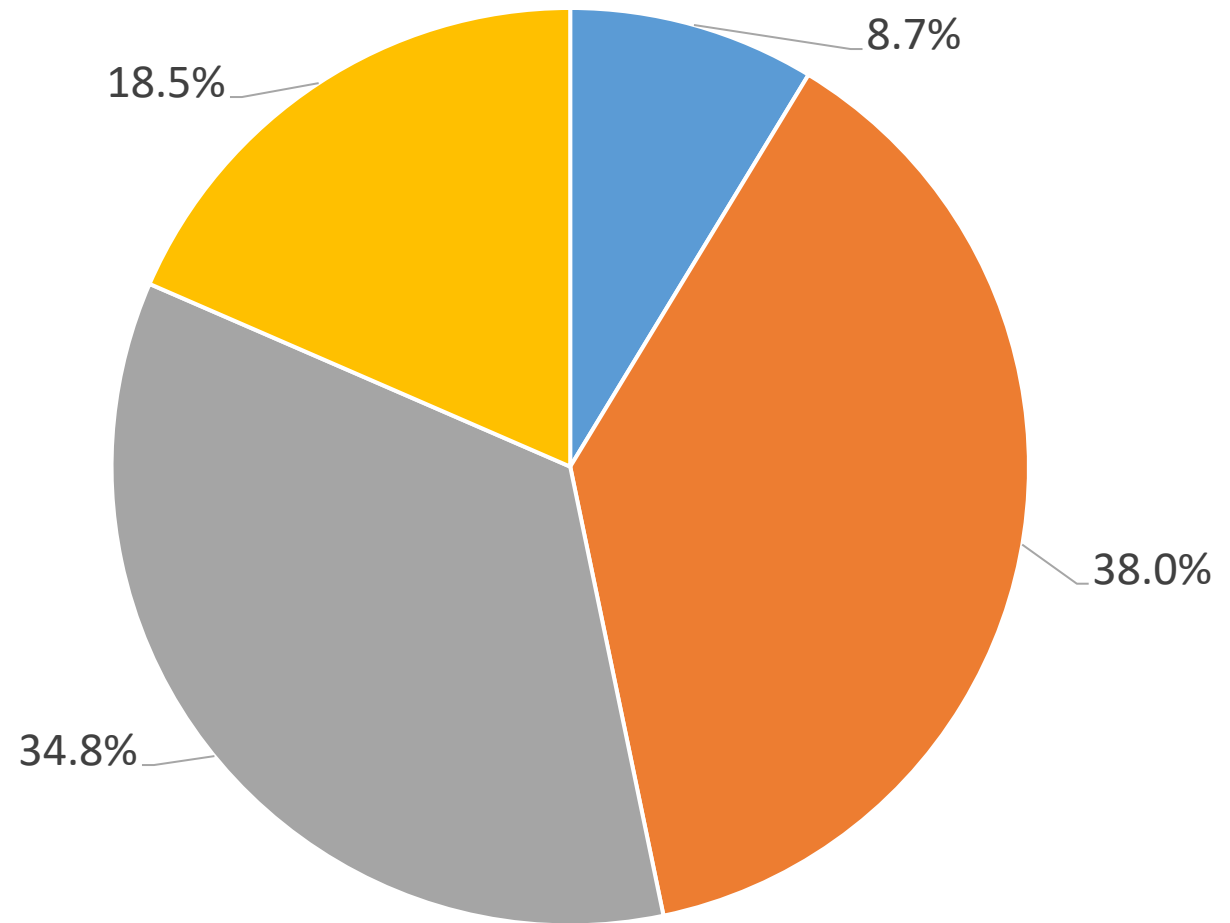


■ High involvement ■ Moderate involvement ■ Low involvement ■ No involvement

How do you assess the overall level of involvement of the following sectors in addressing the issue of climate change in Kazakhstan?
(Businesses)

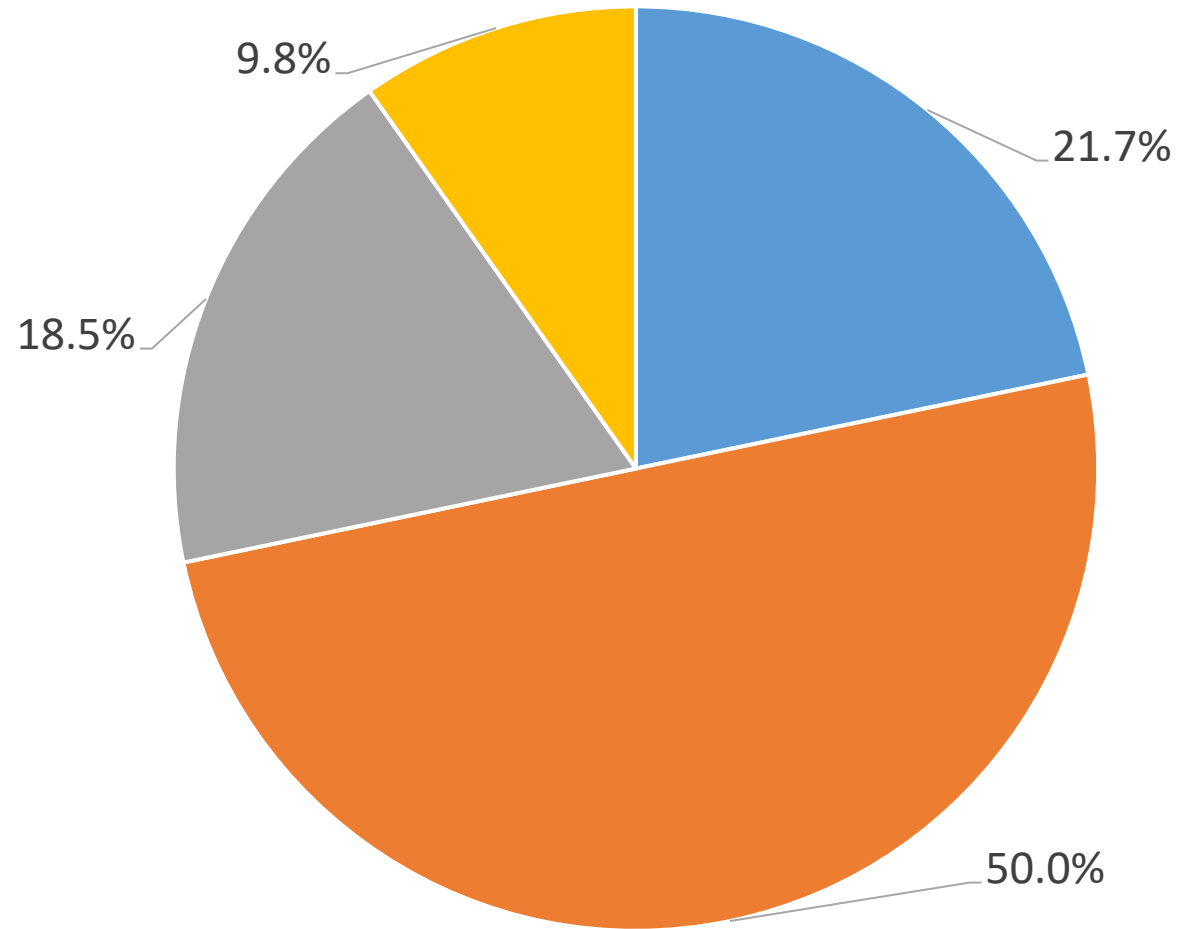


How do you assess the overall level of involvement of the following sectors in addressing the issue of climate change in Kazakhstan?
(Government Agencies)



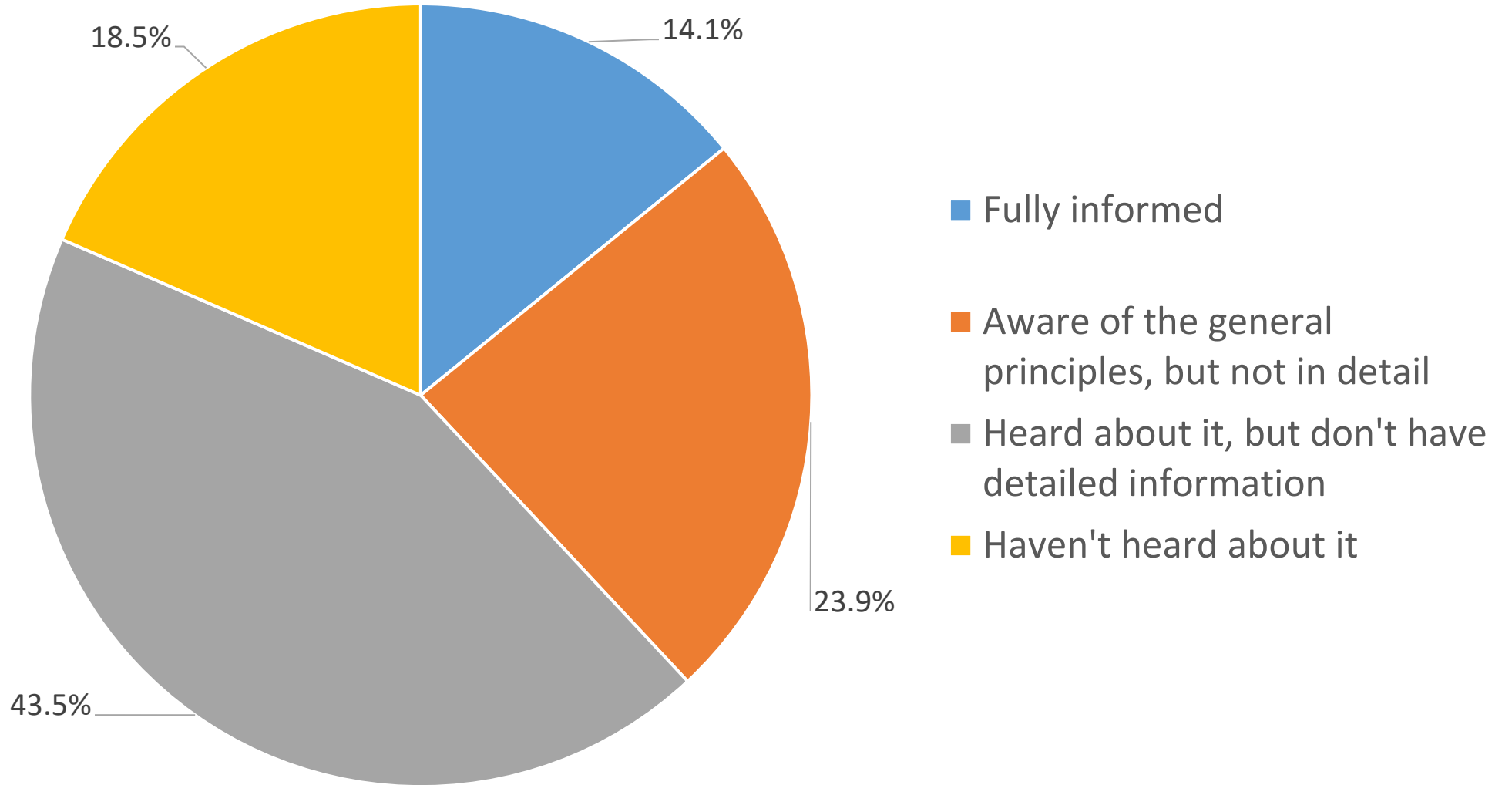
■ High involvement ■ Moderate involvement ■ Low involvement ■ No involvement

How do you assess the overall level of involvement of the following sectors in addressing the issue of climate change in Kazakhstan?
(Scientific community)

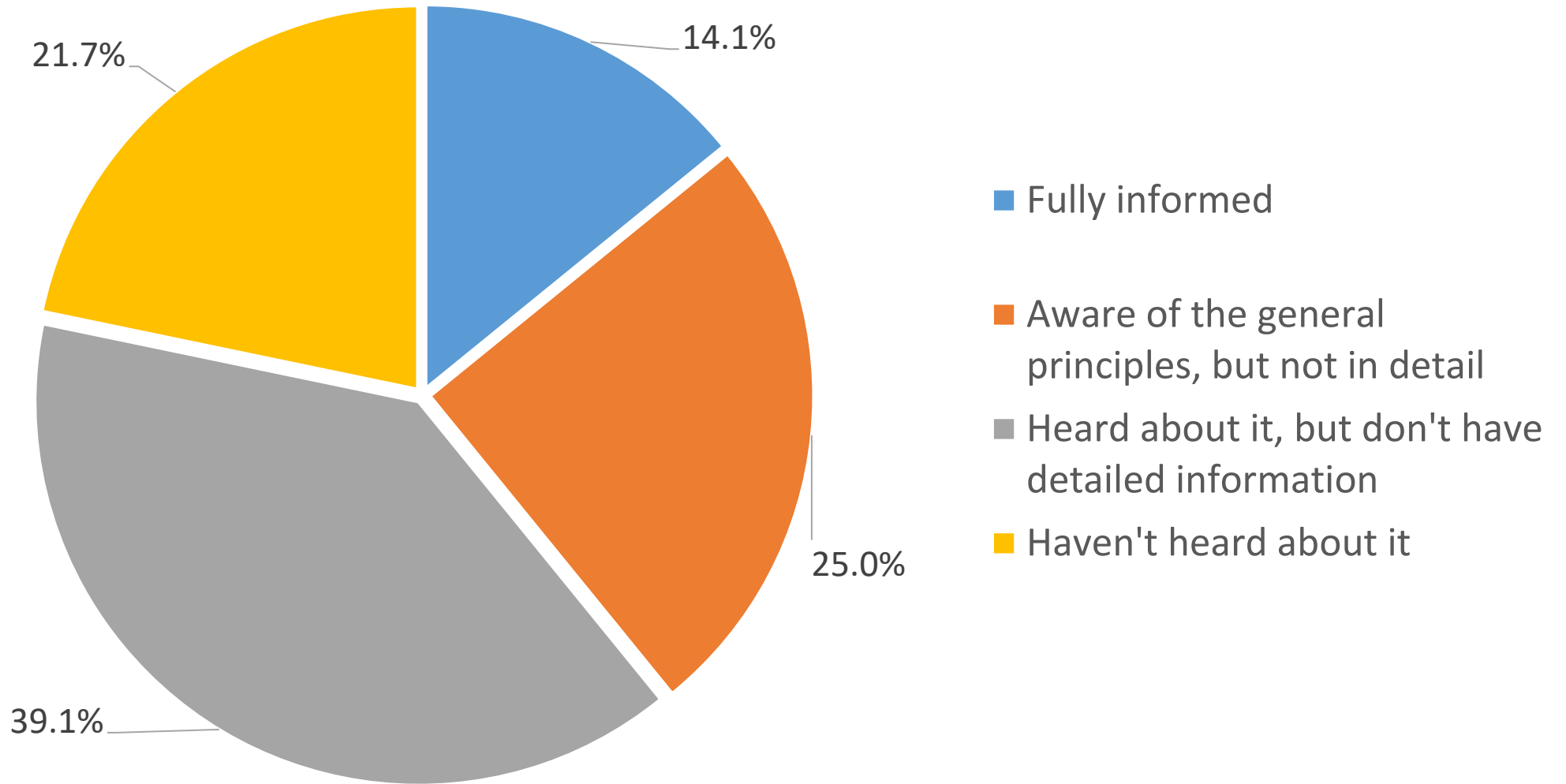


■ High involvement ■ Moderate involvement ■ Low involvement ■ No involvement

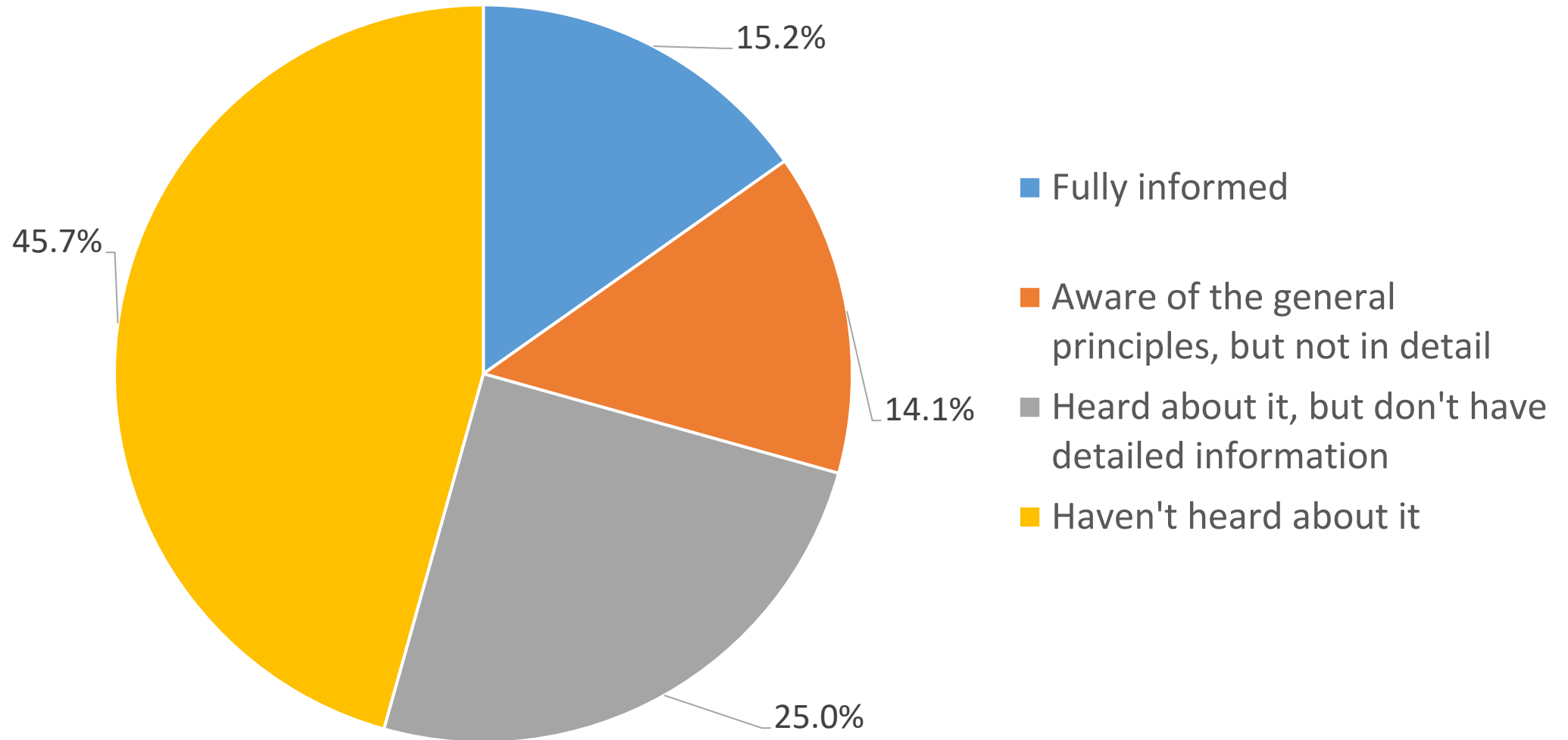
Environmental Code



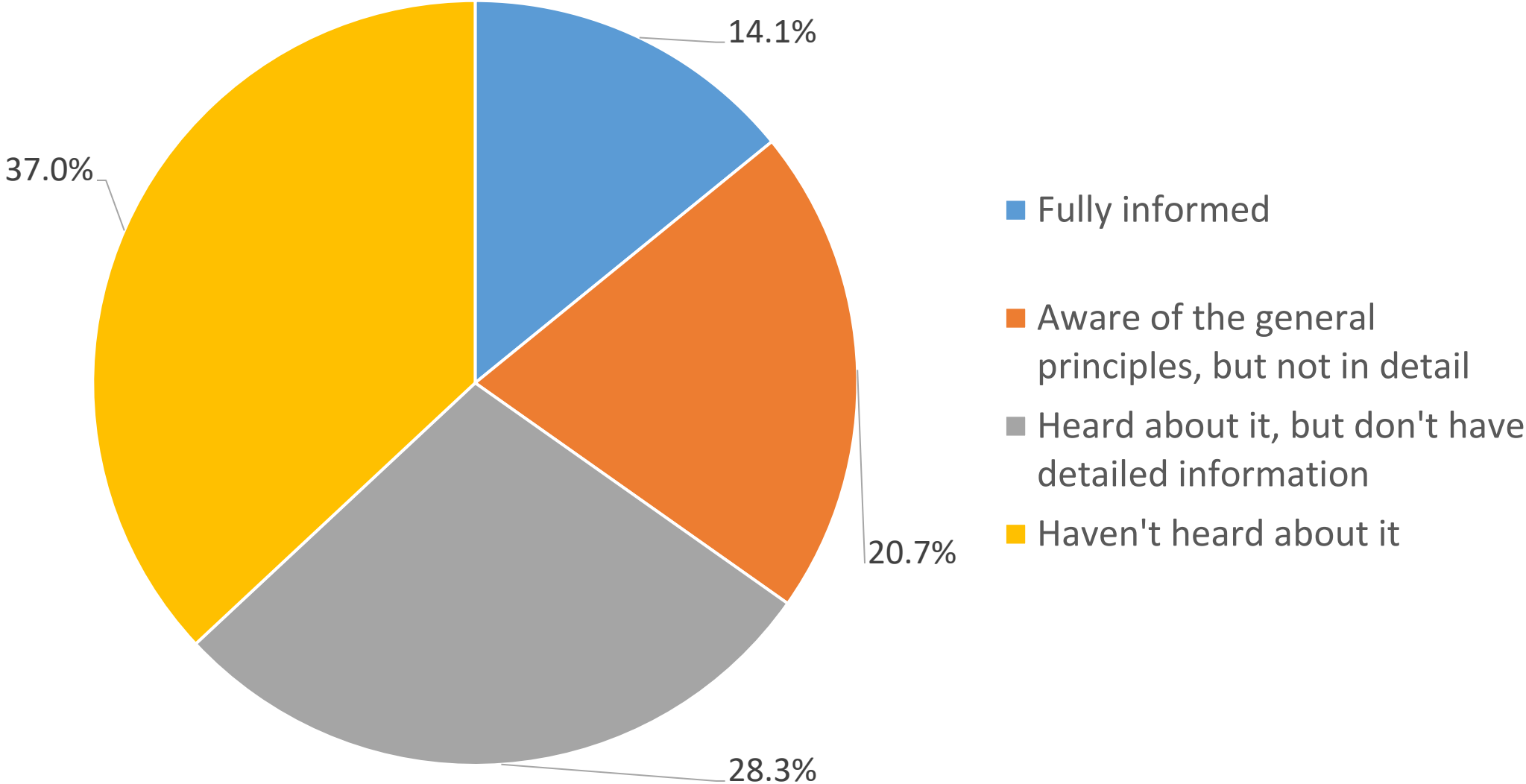
Concept for transitioning to a "green economy"



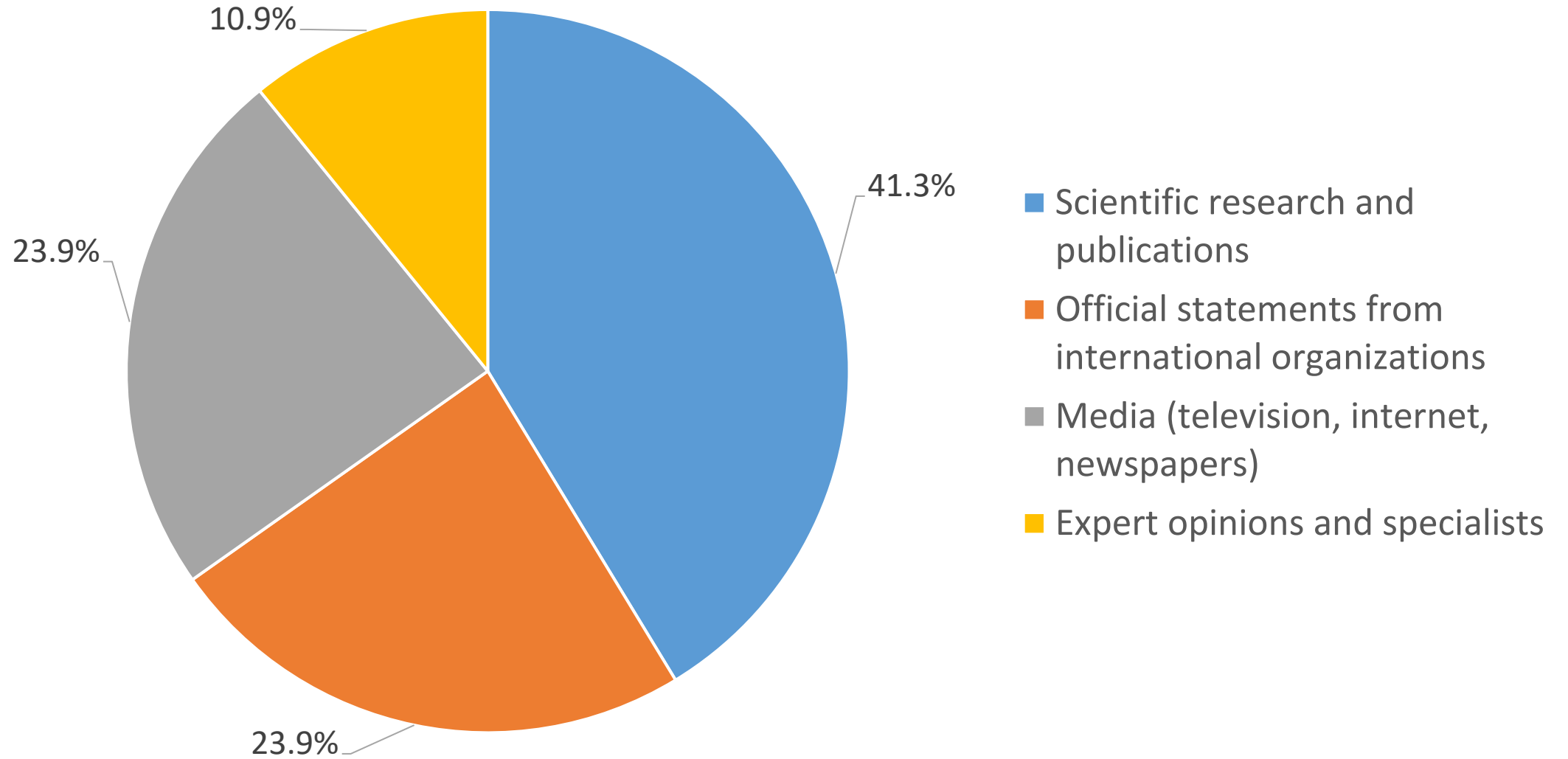
Strategy for achieving carbon neutrality by 2060



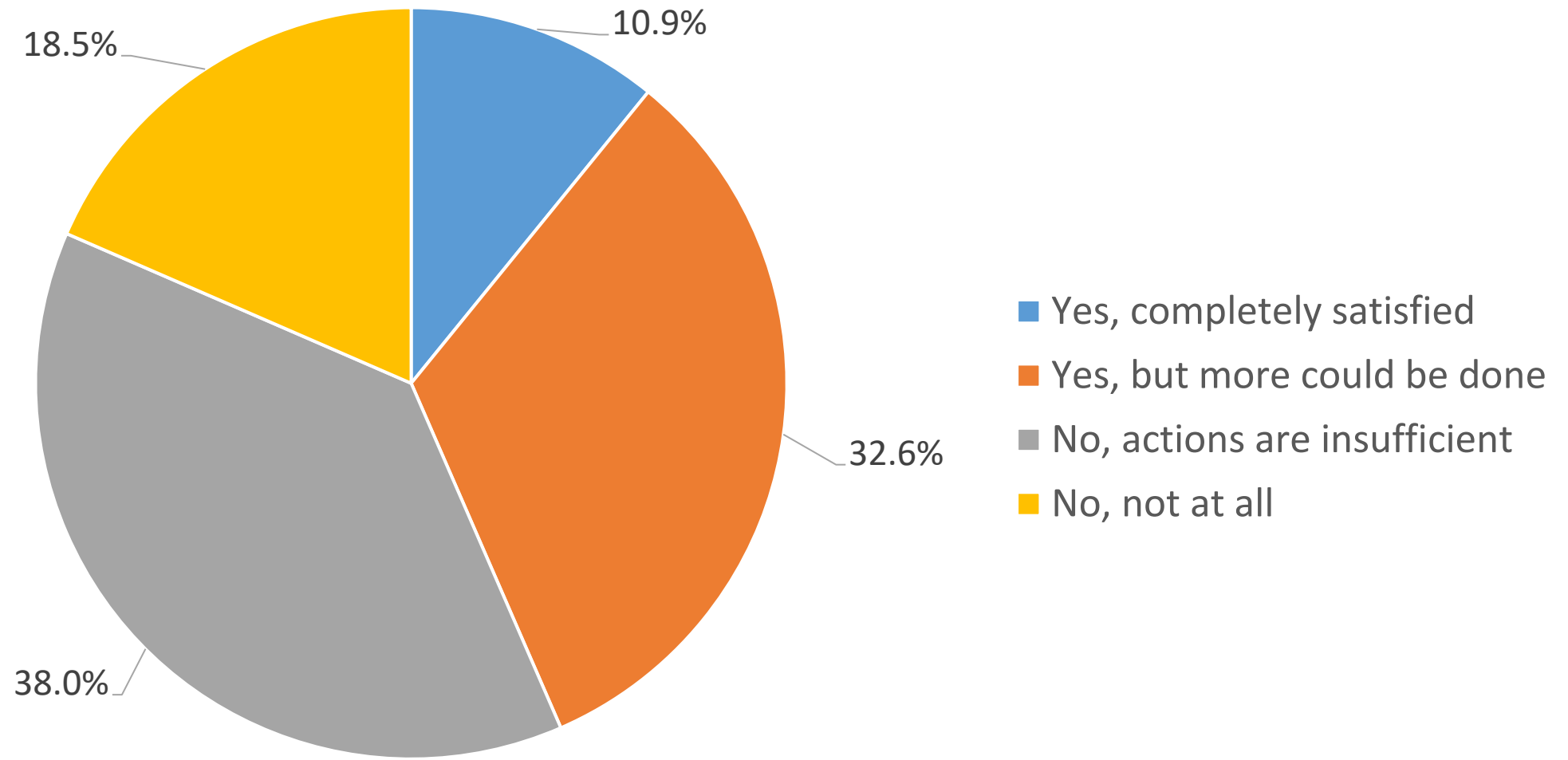
The Paris Agreement



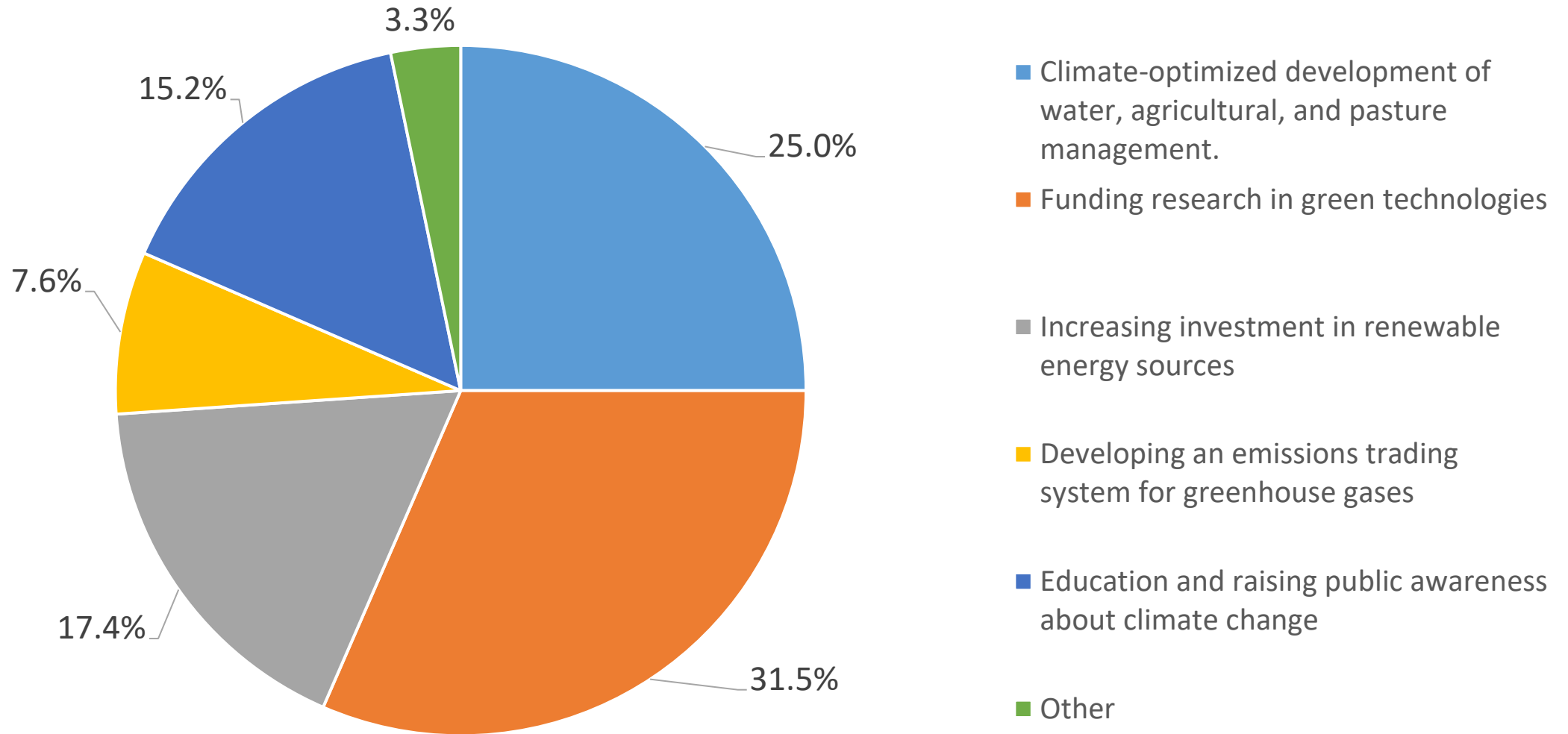
Which sources of information about climate change do you consider most reliable?



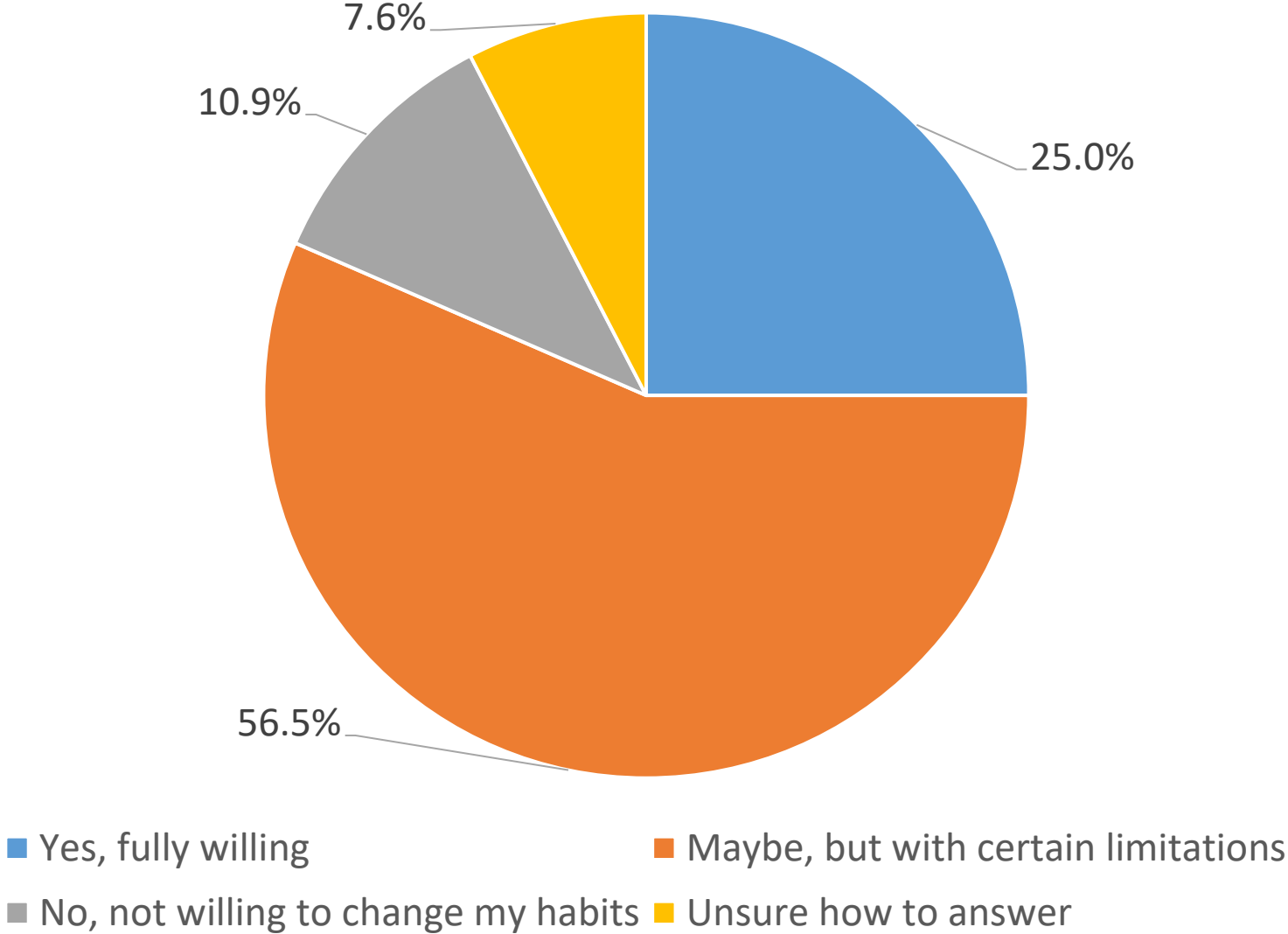
Do you think your government is doing enough to combat climate change?



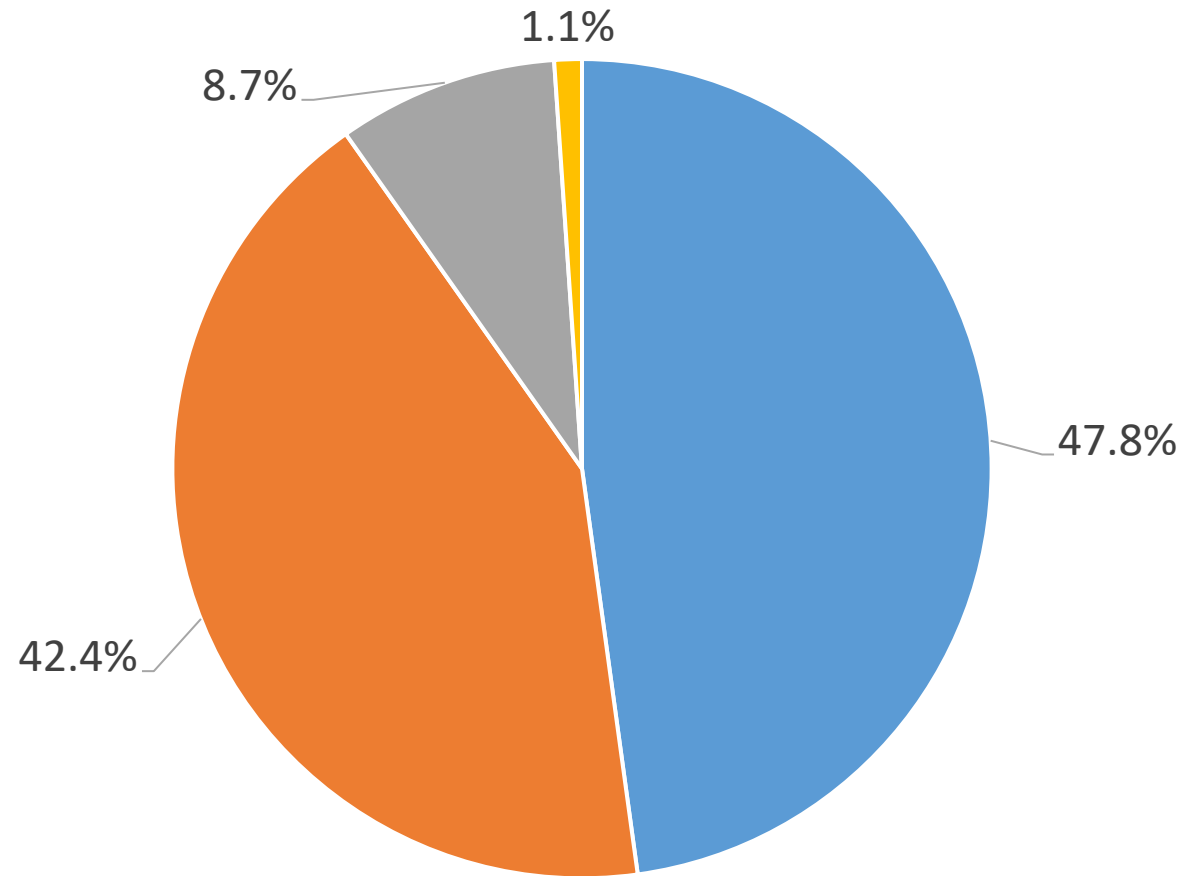
What political actions do you consider most necessary to mitigate the consequences of climate change?



Are you willing to change your consumer habits to combat climate change?

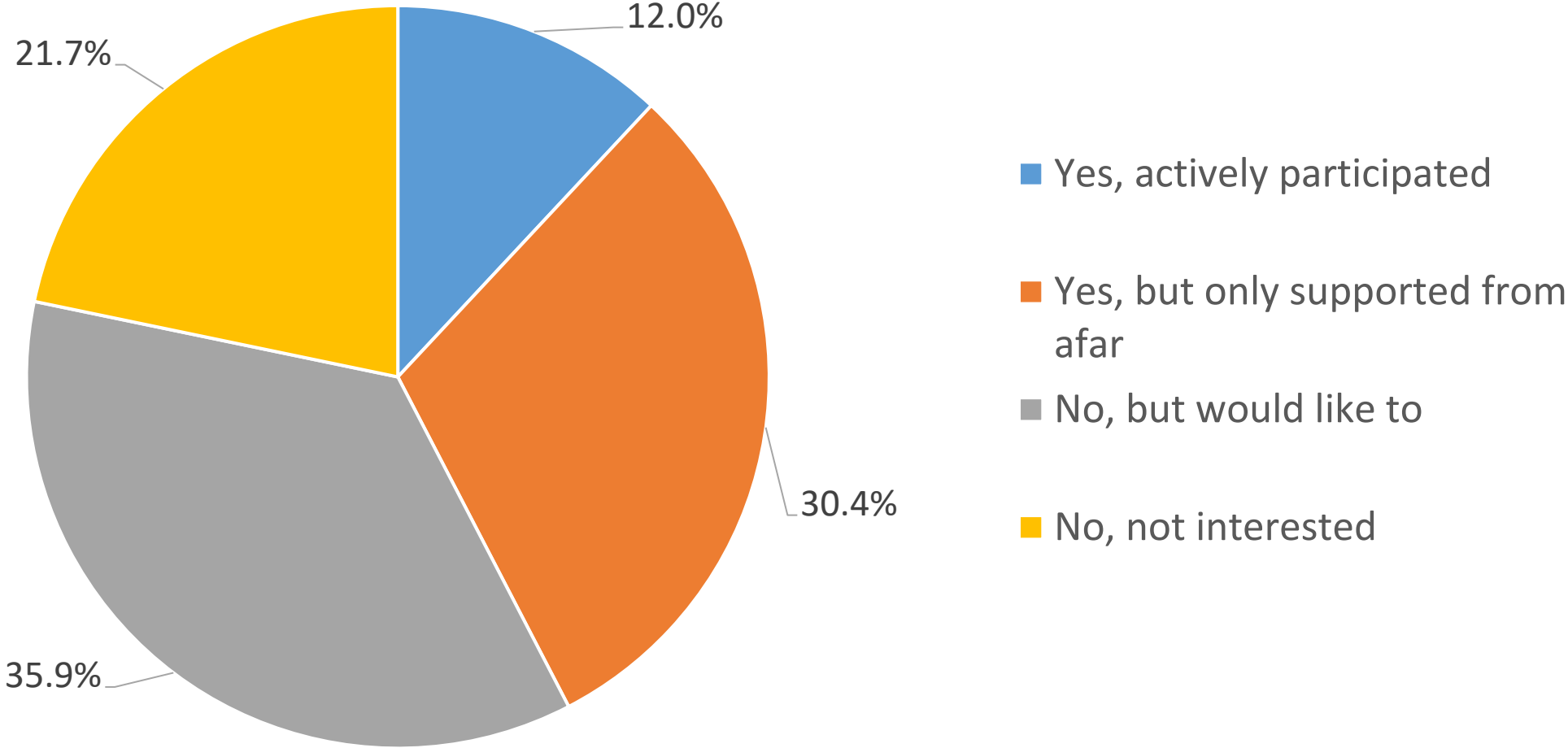


How do you assess the importance of education and information dissemination about climate change

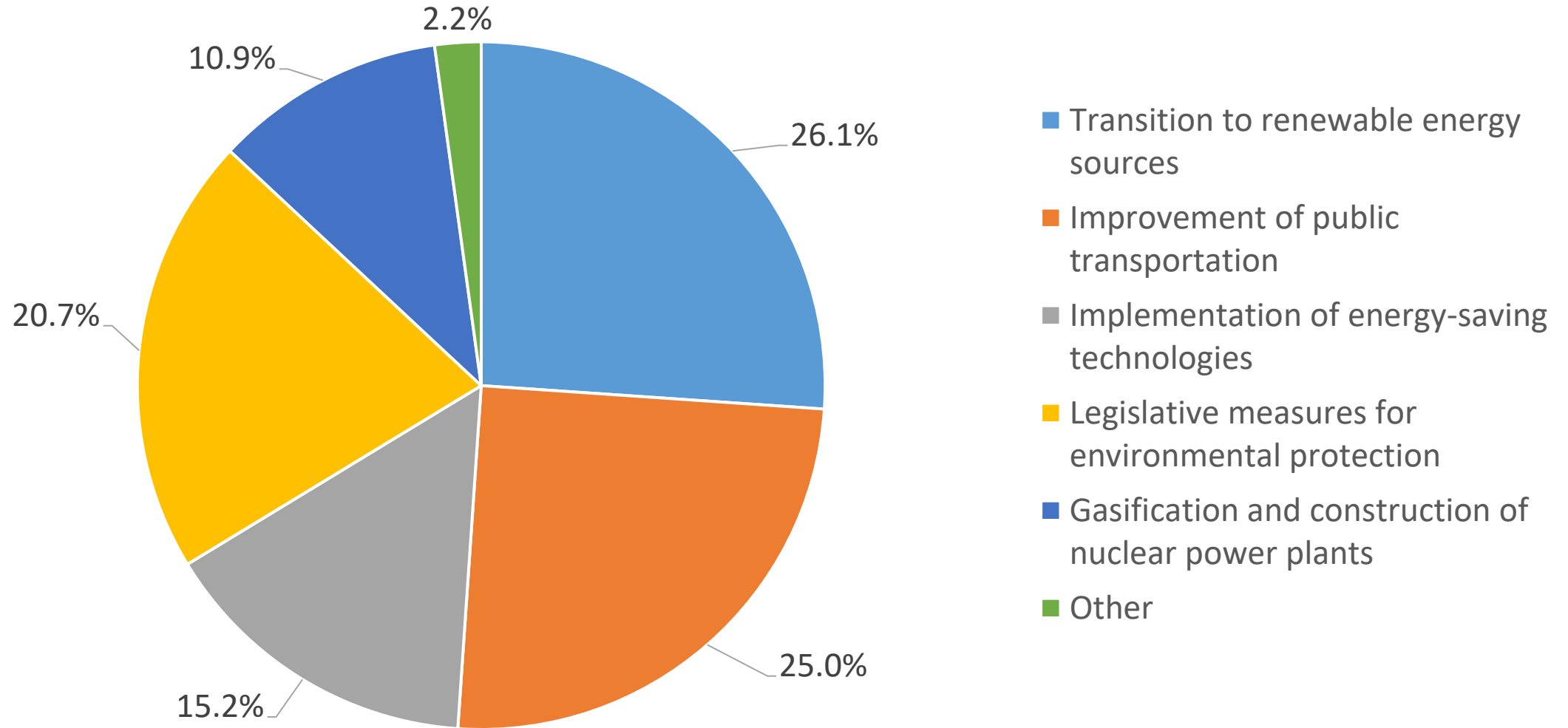


■ Very important ■ Important ■ Not very important ■ Not important at all

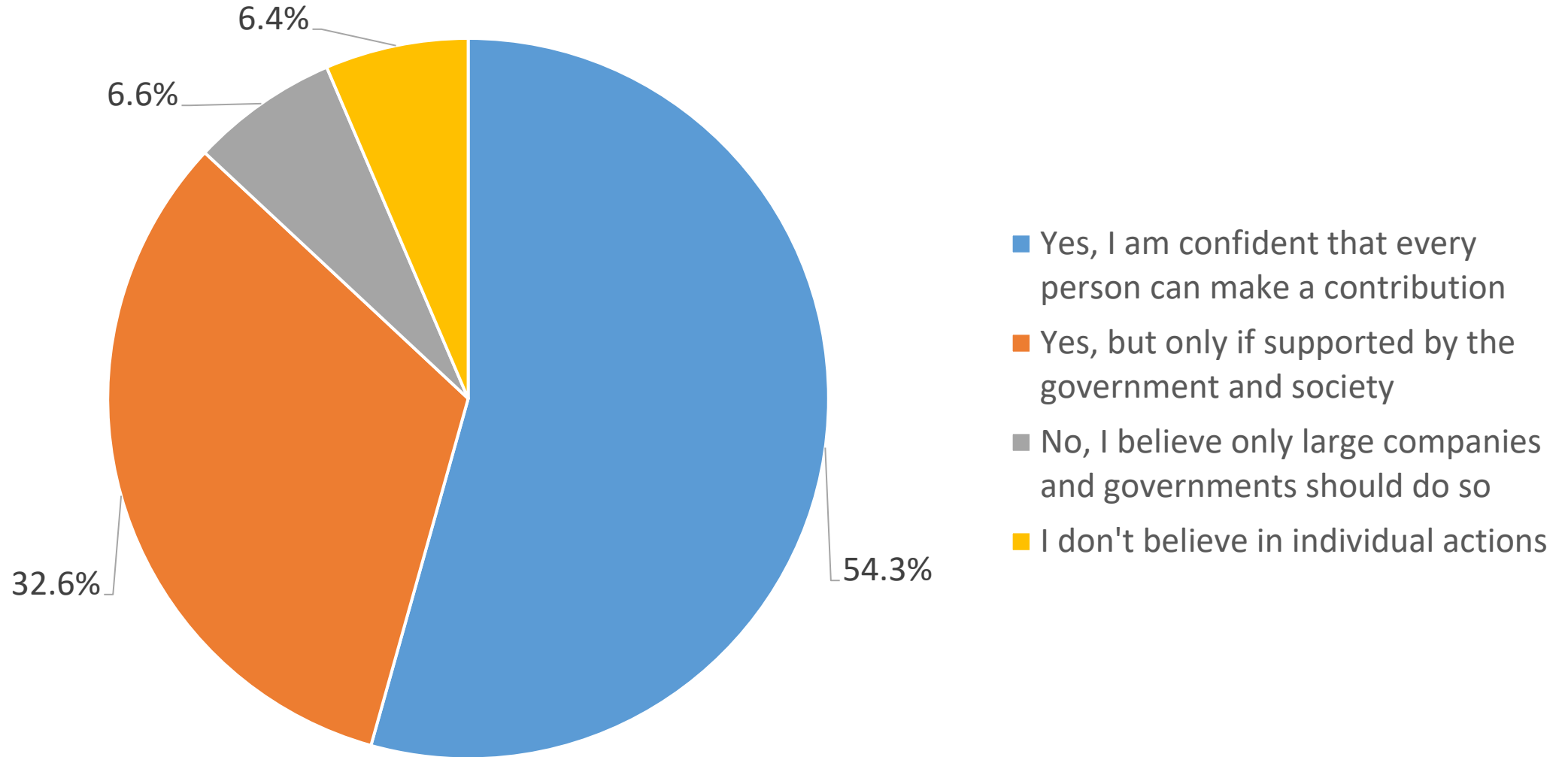
Have you been involved in any environmental initiatives or movements?



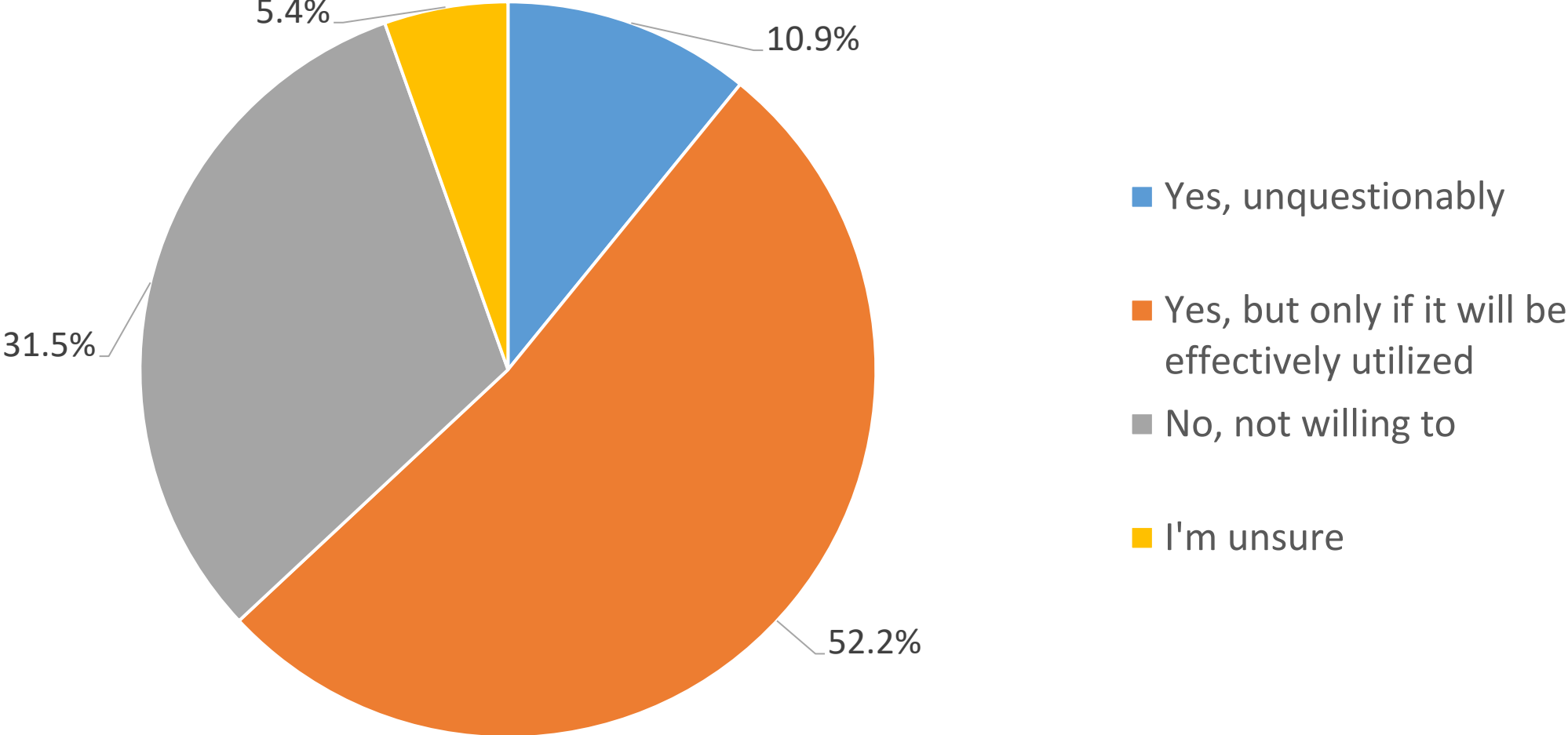
What steps do you think should be taken to mitigate the impact of climate change?



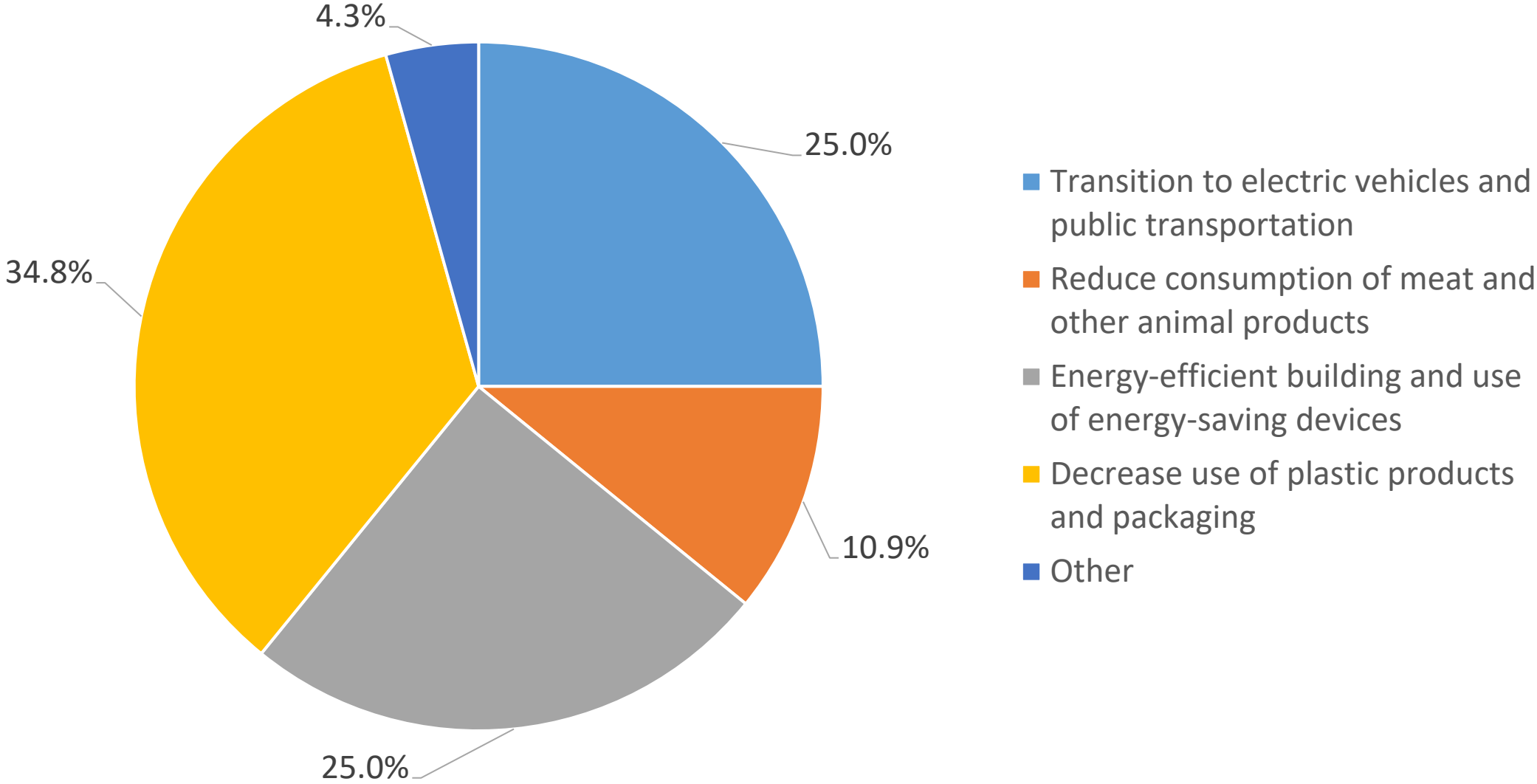
Do you believe that individual actions can play a key role in combating climate change?



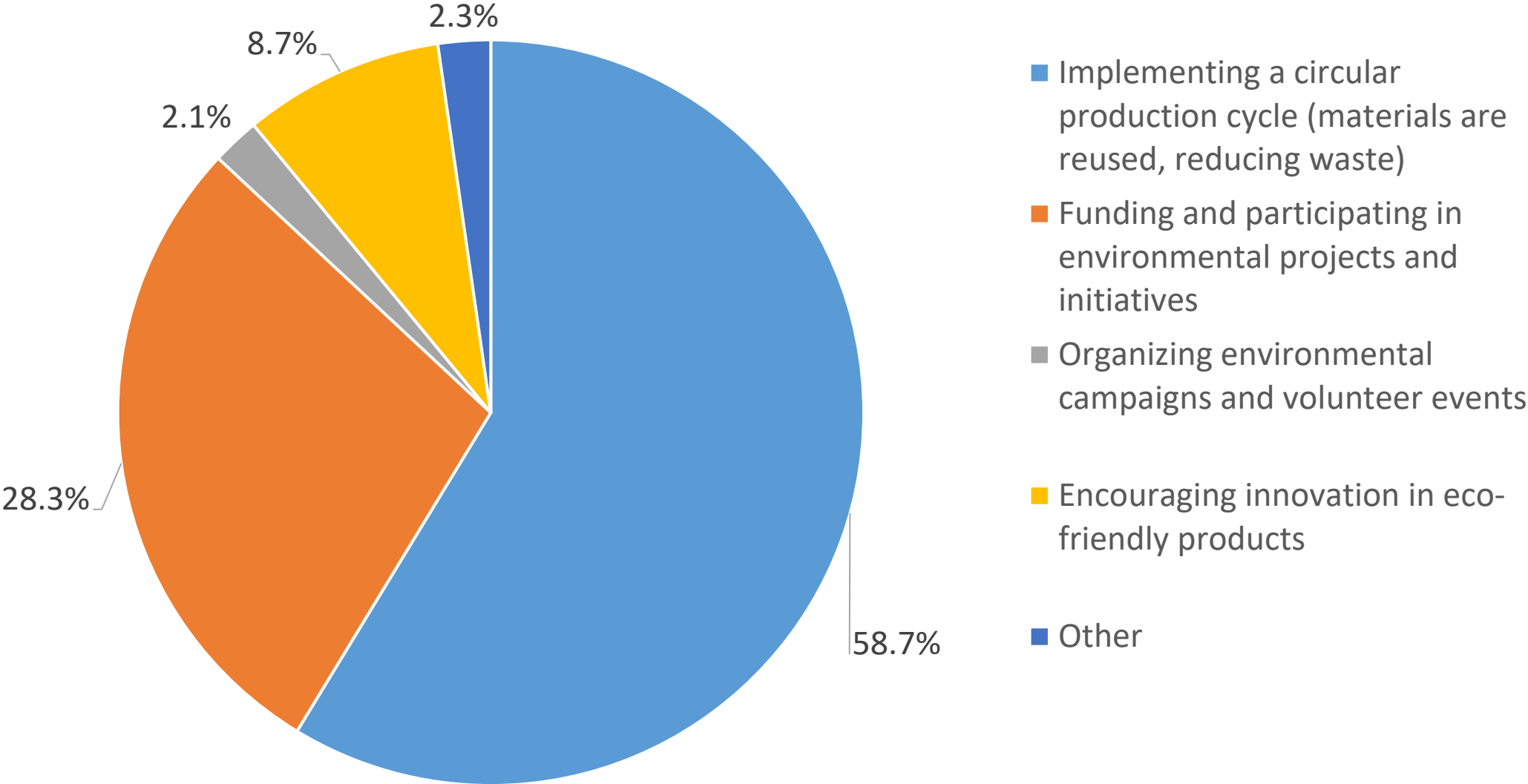
Are you willing to pay additional taxes or fees to reduce environmental impact?



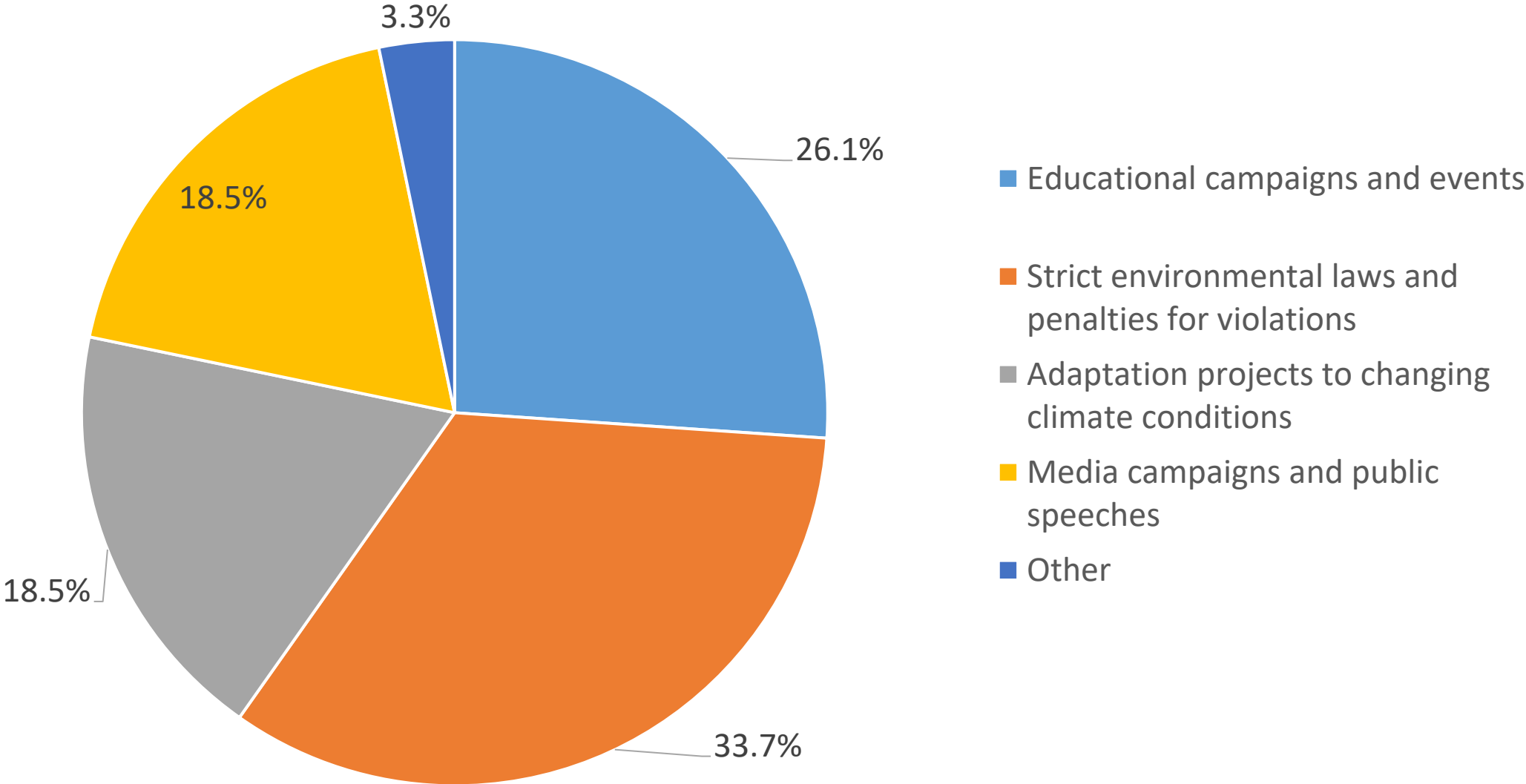
What do you think ordinary citizens can do to reduce their carbon footprint?



What measures do you think businesses can or should take to combat climate change?



What do you think could be the most effective way to draw public attention to the issue of climate change?



THANK YOU FOR YOUR ATTENTION

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