

Results of survey about glass fiber residue of general public



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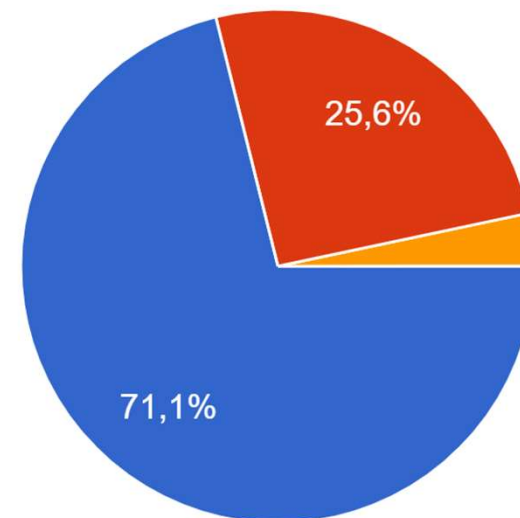
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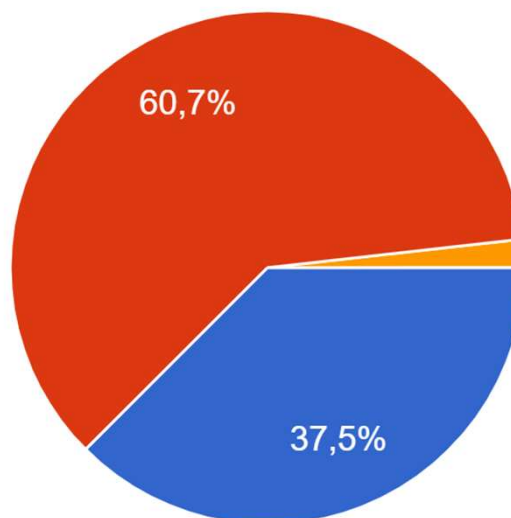
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Gender

- 90 answers in Latvia



- 56 answers in other countries

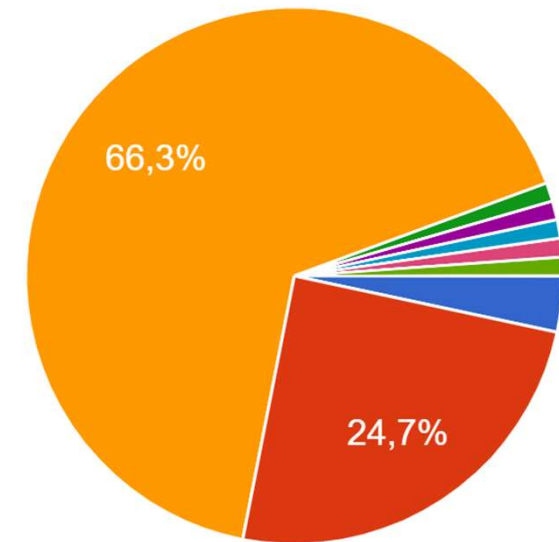
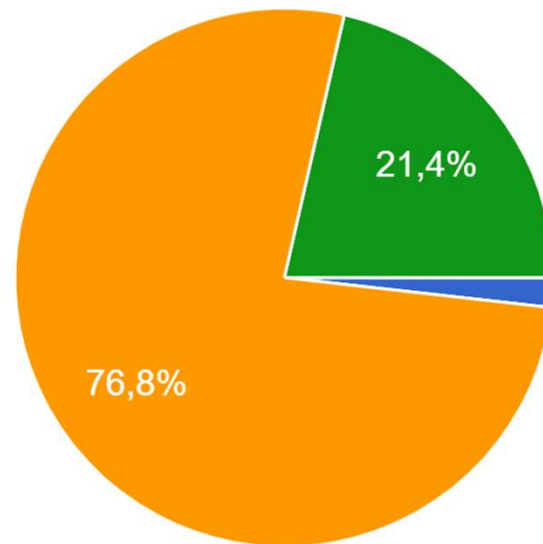


- Female
- Male
- Prefer not to say

Educational level

- In Latvia

- In other countries



- Basic education
- Secondary education
- Bachelor's, Master's degree
- Doctorate
- Other

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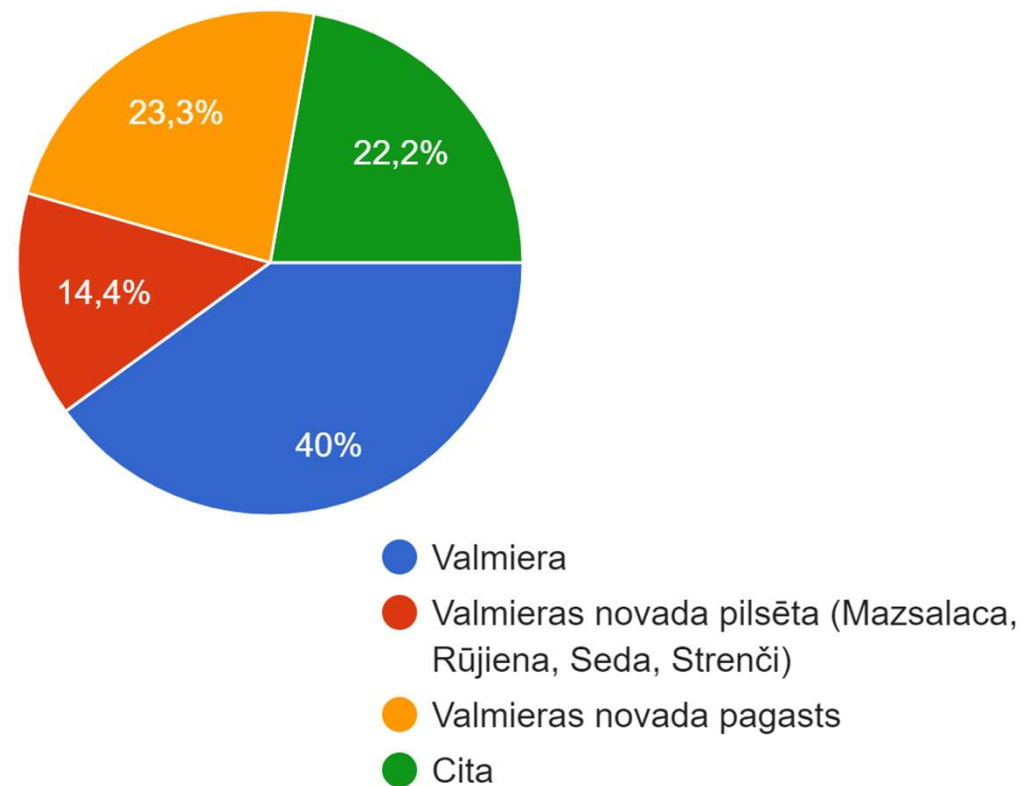
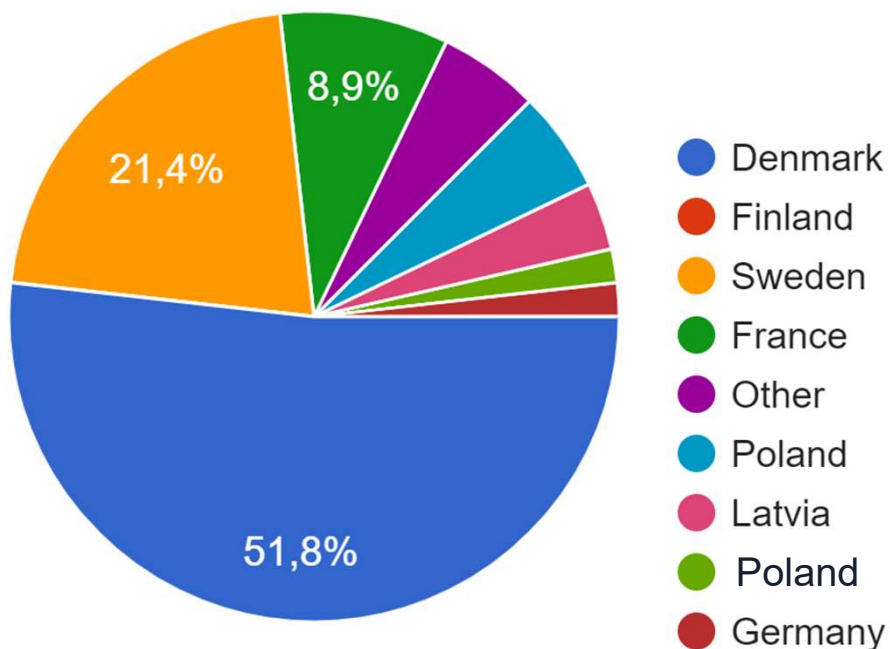
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Place of residence



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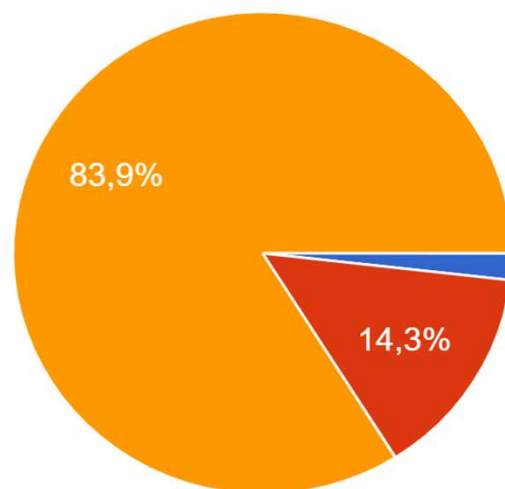


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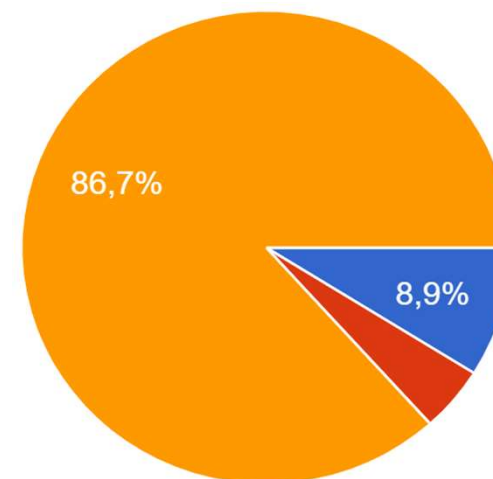
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In what field are you employed?

- In other countries



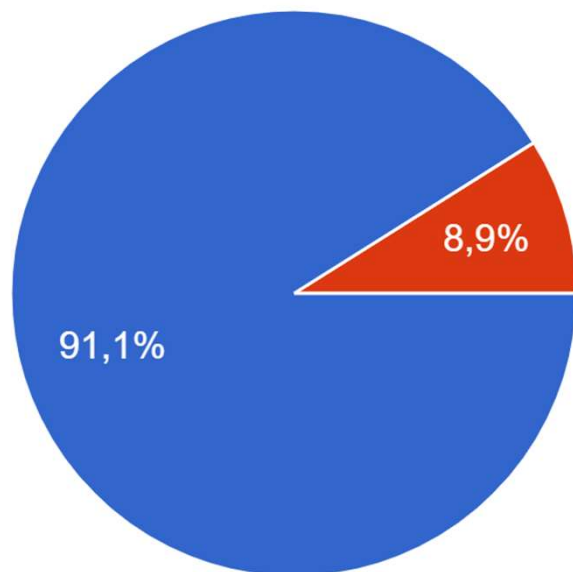
- In Latvia



- In the sphere related to the production of glass fiber
- In the sphere related to the use of glass fiber or its products as raw material in the production process
- Other sphere

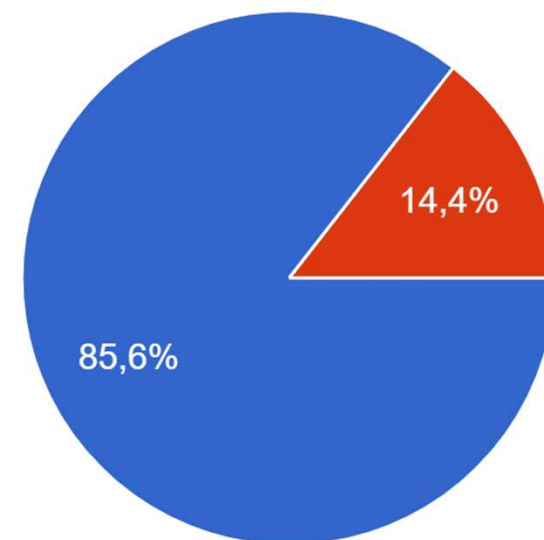
Is waste sorting carried out in your household?

- In other countries



- In Latvia

● Yes
● No



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Name any products or objects that are made using fiberglass that you know

- Some parts in body of cars, water tanks;
- Boats;
- Wind turbine blades, water tanks, pipes;
- Hockey sticks;
- Windmill wings, car parts, flags, building materials - glass wool, resin additive (tanks), roofing;
- Cables for internet supply, tension link for geotechnical anchors;
- Sports equipment, glides, wind mills;
- Aircrafts;
- Flask for household gas;
- Beer kegs, Propane gas bottle, Bikes, Golf rackets, boats, planes etc.



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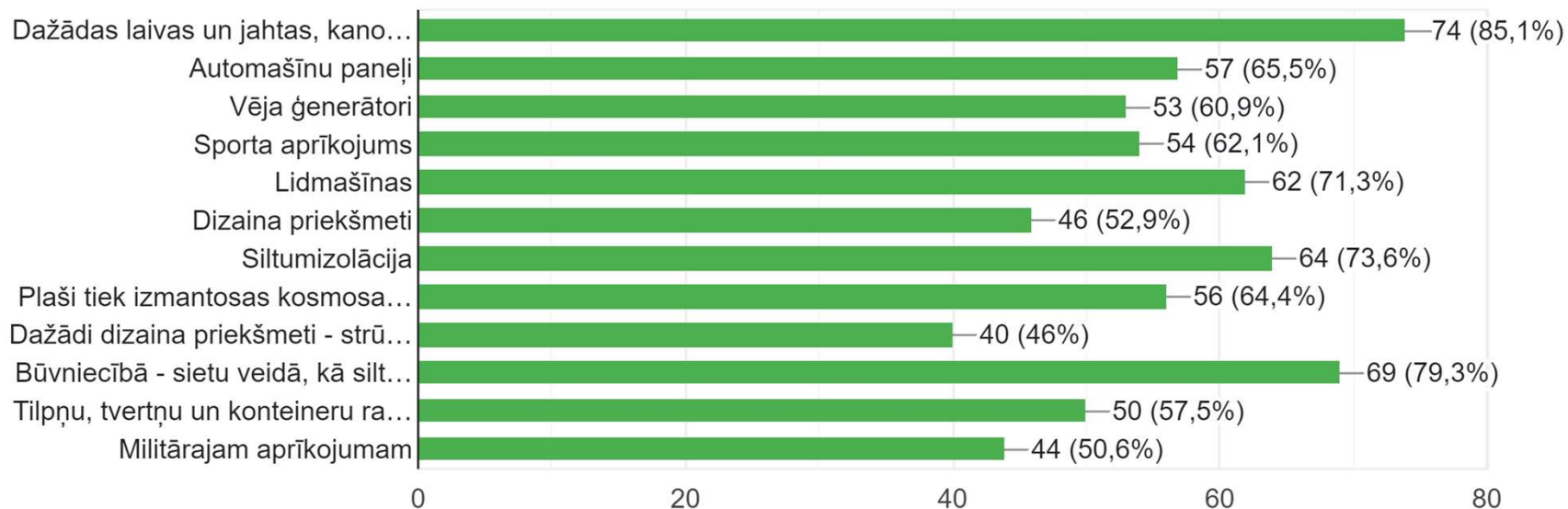
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Photo from internet resources

Select the items you know they contain glass fiber!

- In Latvia



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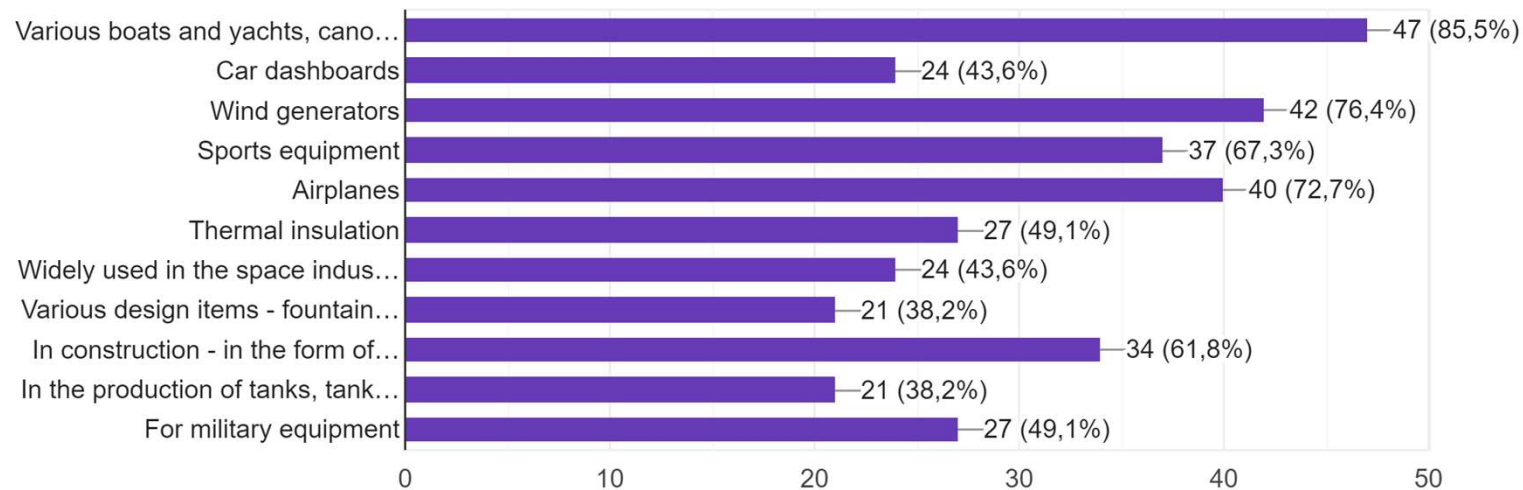


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Select the items you know they contain glass fiber

- In other countries



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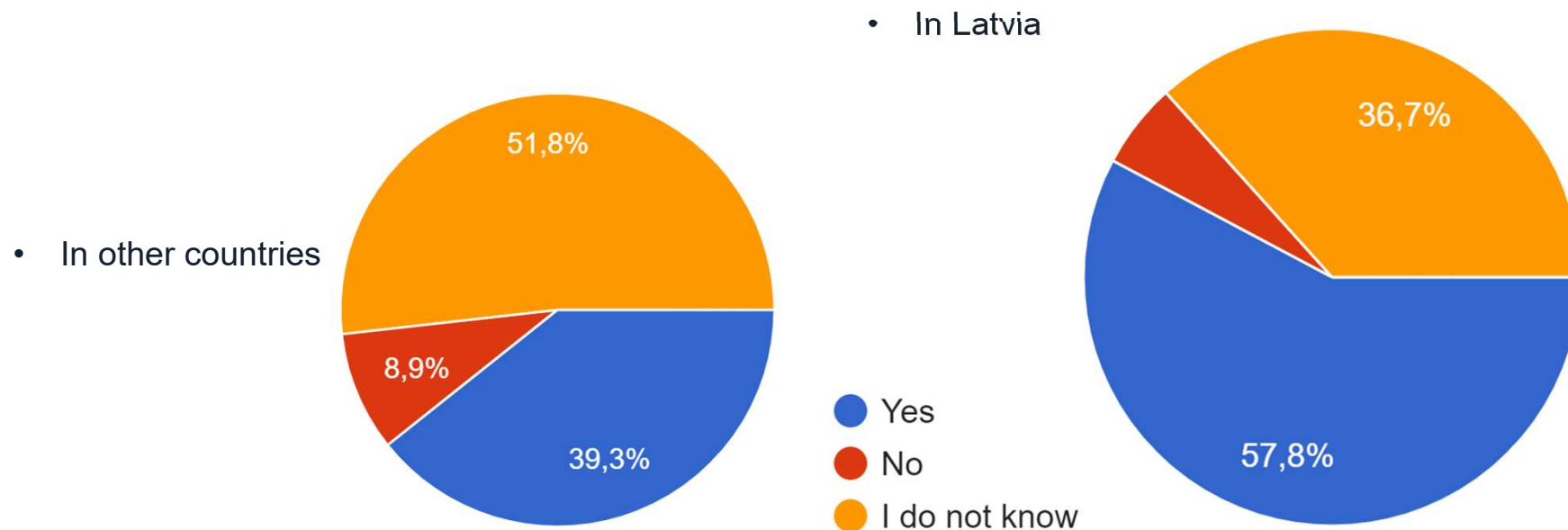
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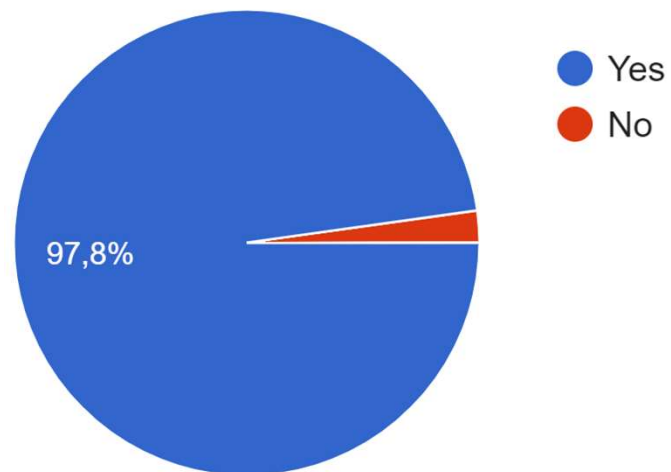
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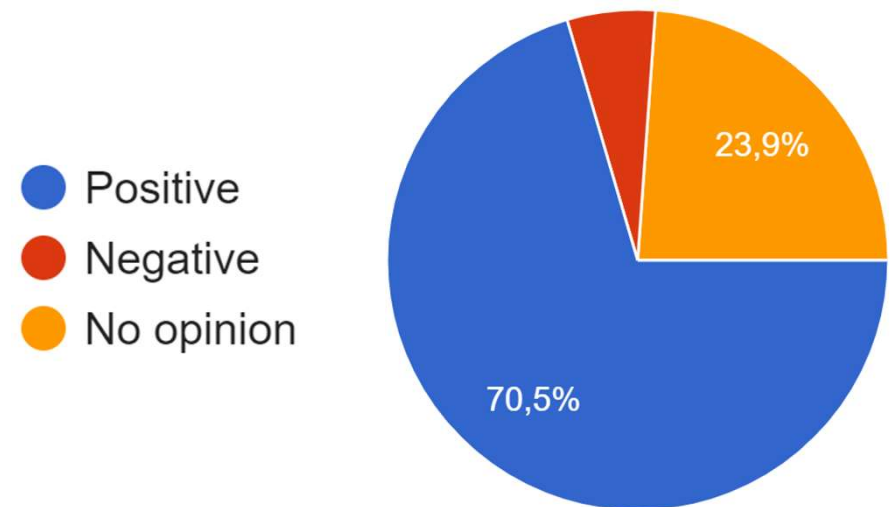
Do you have anything in your household that contains fiberglass?



Did you know that there is a large glass fibre production plant in Valmiera?



What is your opinion of this plant?



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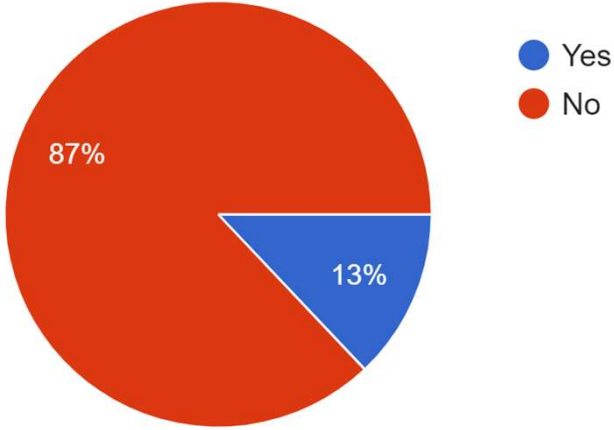
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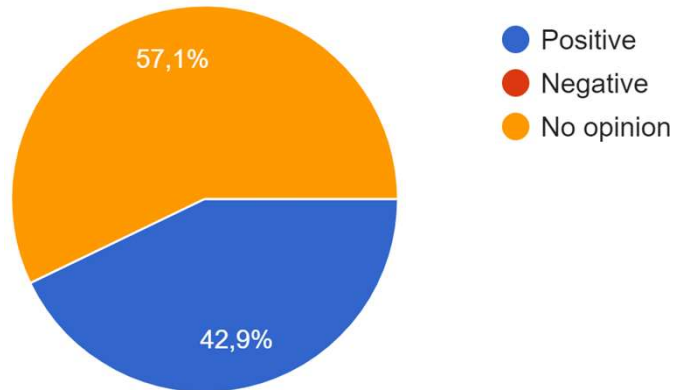
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Is there a fiberglass factory near where you live?

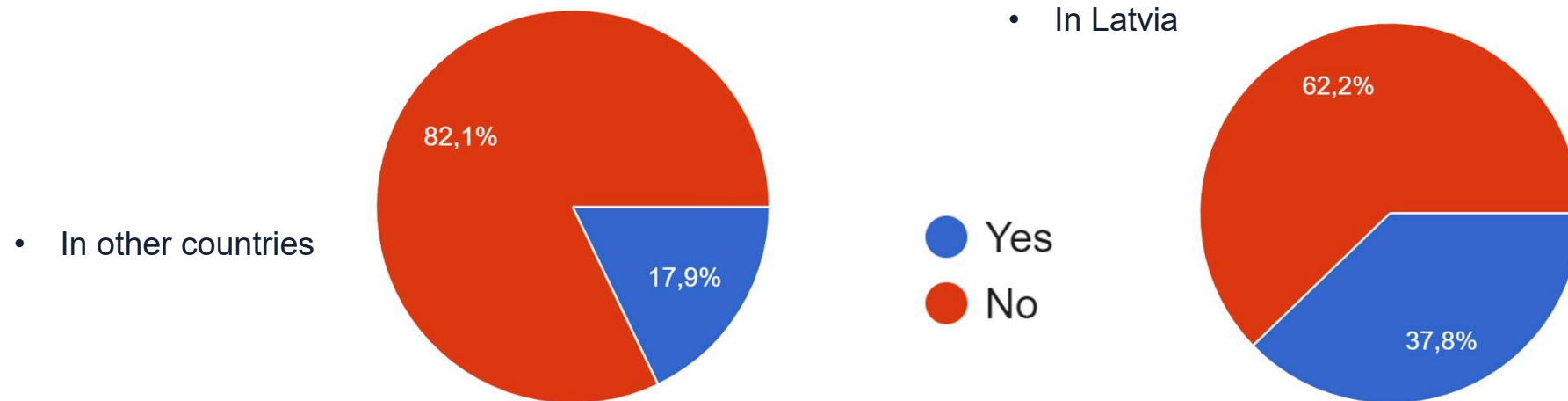


What is your opinion about this factory near where you live?



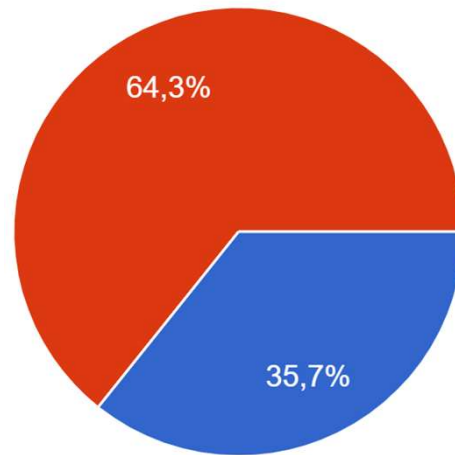
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Do you know what surpluses occur in the glass fiber production process?



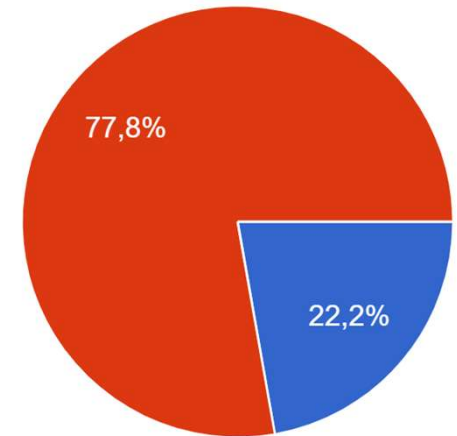
Have you heard where it is possible to use the leftovers from the fiberglass production process?

- In other countries

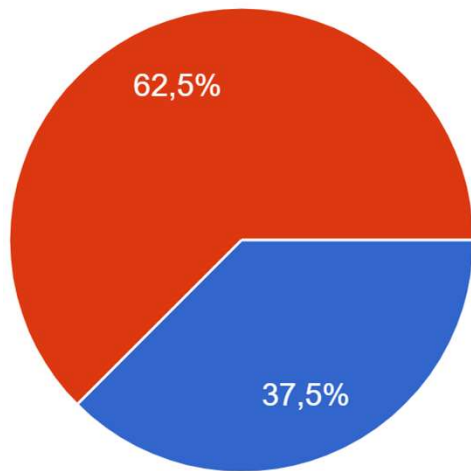


- In Latvia

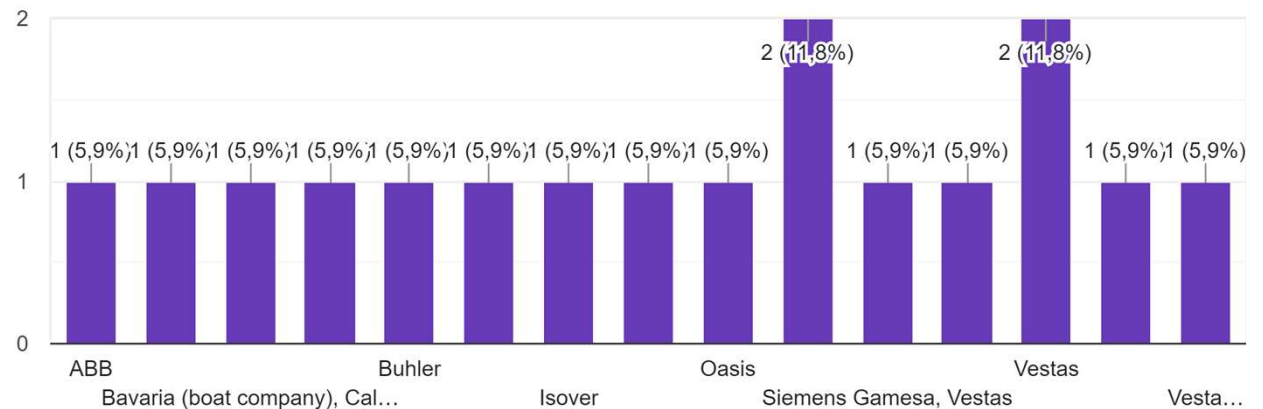
• Yes
• No



Do you know of a company that uses fiberglass as a raw material in their production? (in other countries)



- Yes, name it if you can
- No



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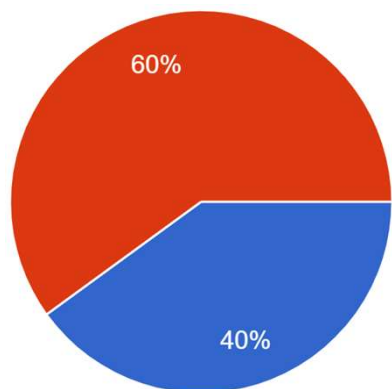
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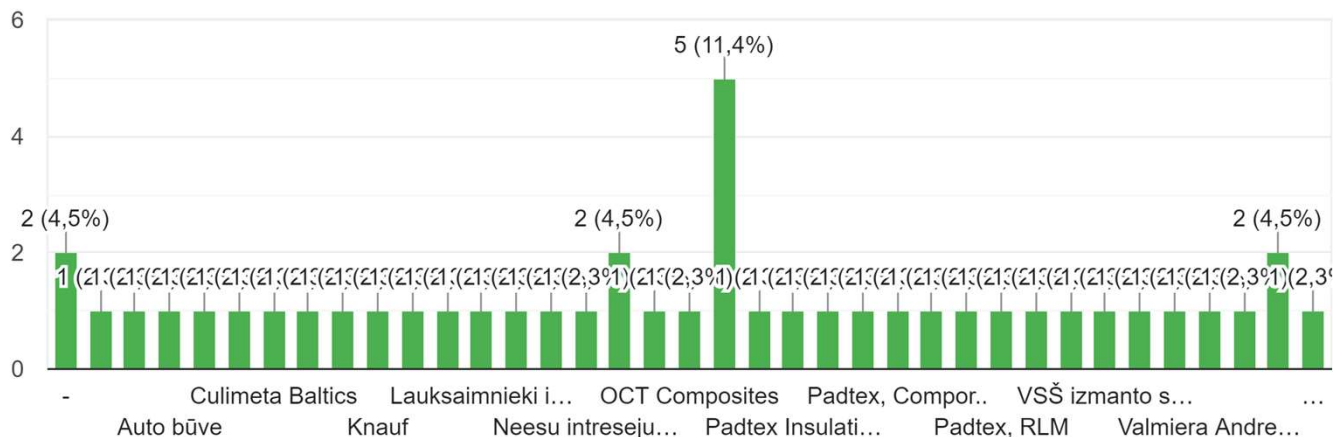
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Do you know of a company that uses fiberglass as a raw material in their production? (in Latvia)



- Yes, name it if you can
- No



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Proposals for reuse or re-purpose of glass fiber production waste

◆ In construction and building

- Clean and grind to obtain amorphous silica powder for production of building materials;
- Composite Materials for Construction;
- Reinforcement in Concrete;
- Manufacture of Insulation Materials;
- modular urban green spaces;
- biofiltration systems for water,
- energy efficient house component

◆ New products

- furniture in public places, sun and rain protectors in cars' and bike's parkings;
- Storage boxes
- Products for decoration;

◆ General ideas

- Recycling into New Fiberglass Products;
- Meld them individually down to raw materials;
- Energy generation

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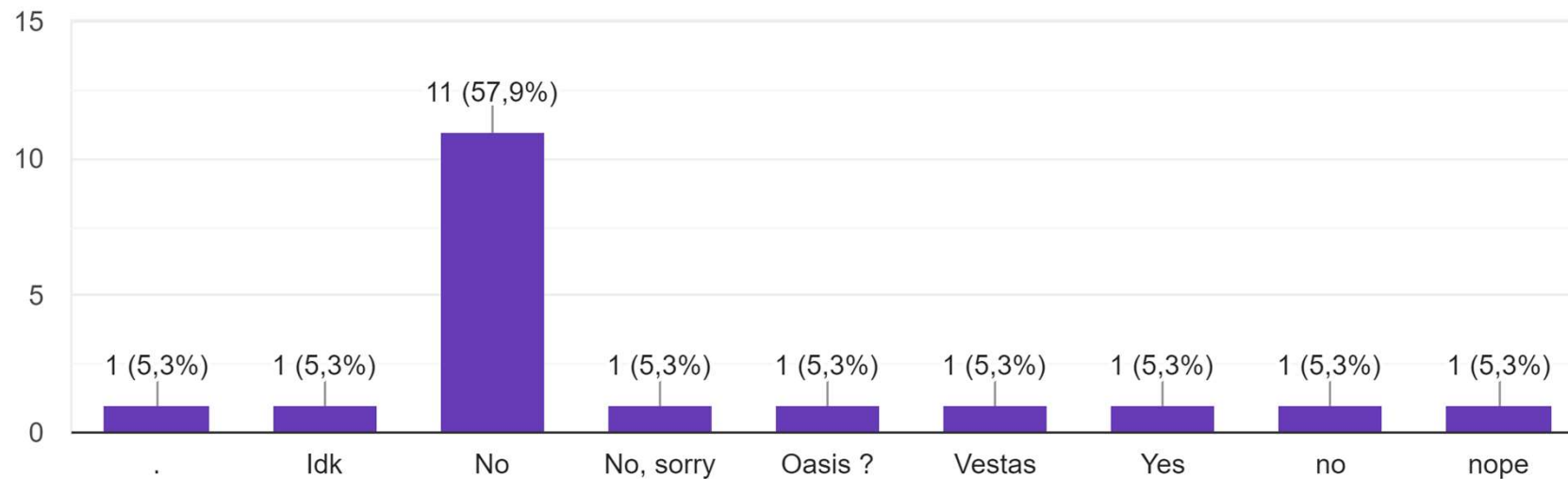
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Do you know of a company that uses waste surpluses of glass fibers in their production?



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Conclusions/ Discussion

- ◆ Most of the people in Valmiera are aware of glass faser production in Valmiera region
 - ◆ Few are aware about the glass-faser eco-system
 - ◆ Little knowledge and information on glass-faser products, their characteristics and related challenges
 - ◆ Rather positive attitude towards glass-faser factory
- Transition to circular economy related to complex factors, including awareness building.

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