

Jorga - an environmentally friendly car

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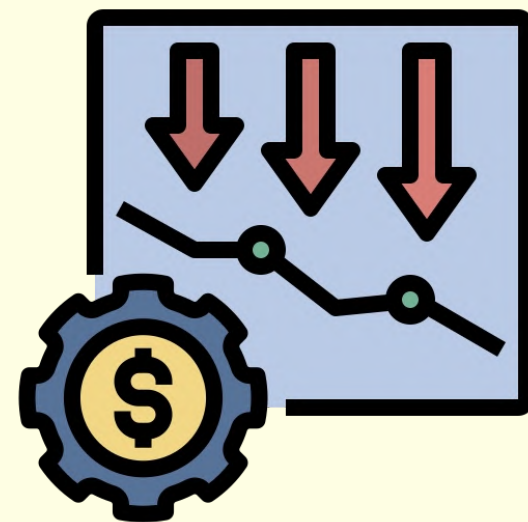
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The problem

01

Uncompetitiveness of the automotive industry in Kazakhstan



02

Release of toxic gases from machines



Firstly,

30%

only in such percentage is the
automotive industry of Kazakhstan
localized

There is **0** domestic

car produce in Kazakhstan

1,5%

the share of the automotive
industry in GDP

Secondly,

300 BN tons

of carbon dioxide is released
annually

80%

of them are car exhausts

Average annual concentration of
harmful substances in air of Almaty is

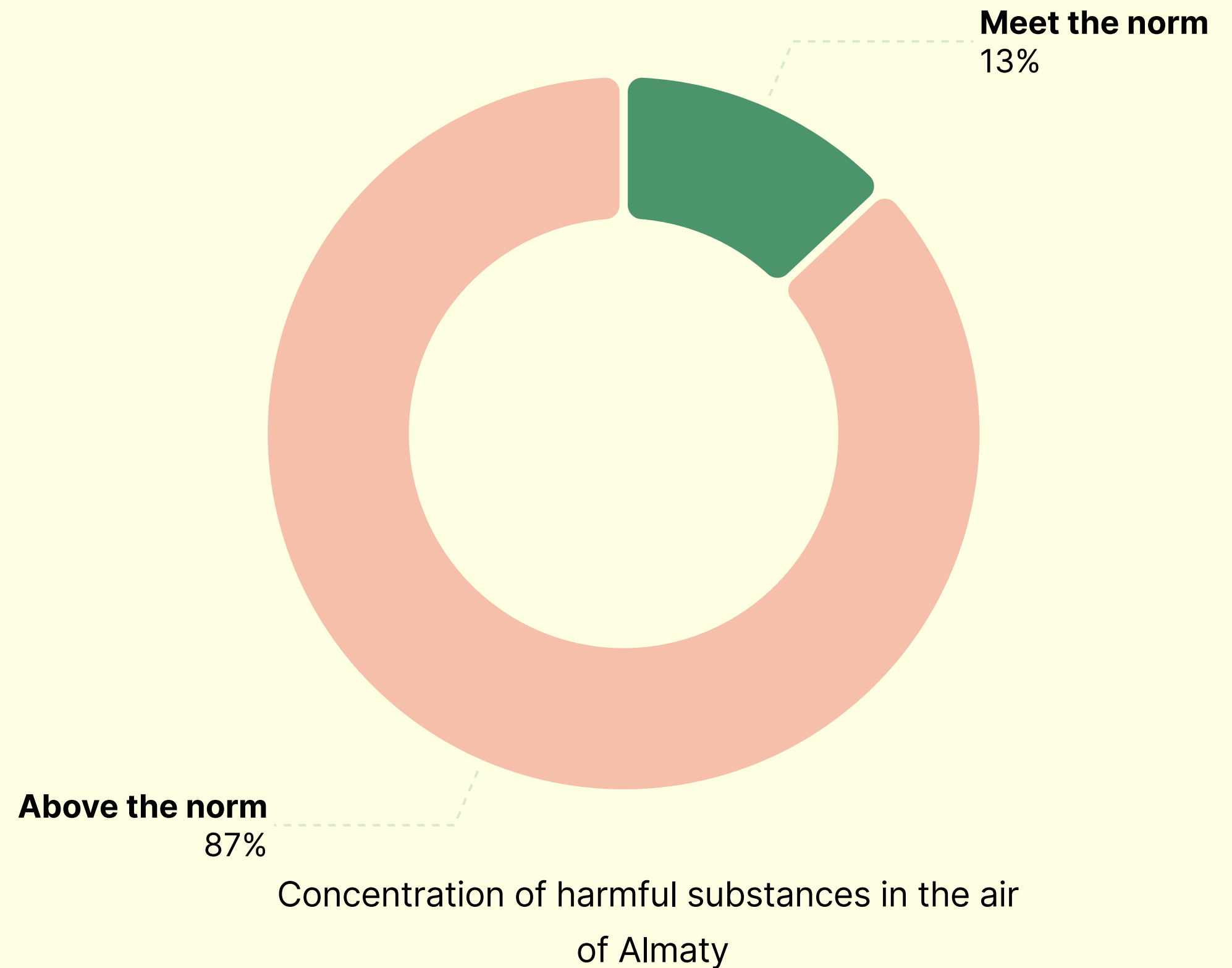
2,7 - 8,1 times,

and the average daily concentration is

42 times

higher than the

norms established by WHO



Relevance

Our country is on the
20th place in terms
of emissions of toxic gases

10th place in terms
gas emissions per capita

There is no car brand which is fully
developed and produced in Kazakhstan

The machine-building industry accounts
for only **1,5%** of economy

Purpose

To design a model of environmentally friendly electric transport that develops the country's transport industry and participates in solving the problem of toxic gas emissions into the environment.



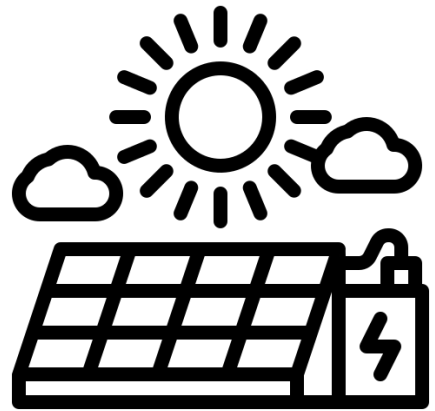
Research tasks

- 1** To get acquainted with the problems of the machine-building industry in Kazakhstan
- 2** To investigate the problem of toxic gas emissions into the environment of Kazakhstan
- 3** To explore the technology of an environmentally friendly machine
- 4** To determine the functions of the car
- 5** To create an initial prototype of the machine

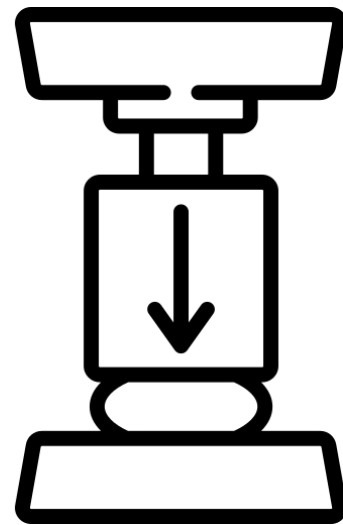
Jorga -

**an environmentally friendly domestic car
that is powered by alternative energy
sources and does not emit waste into the
environment**

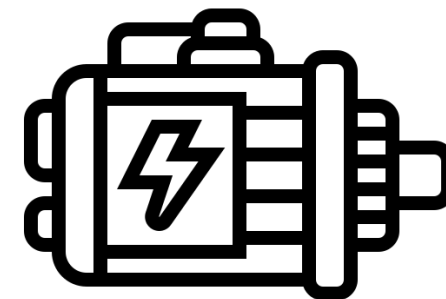
Functions



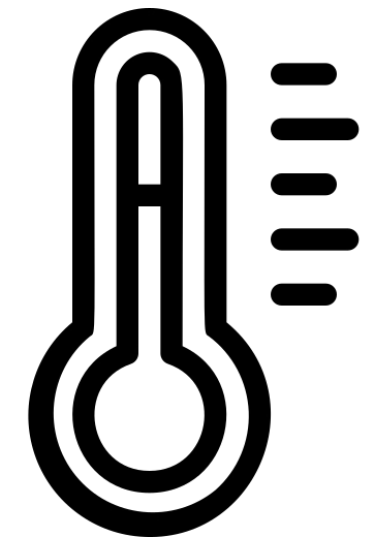
Solar battery



Automatic press



Electric motor



**Temperature
sensor**

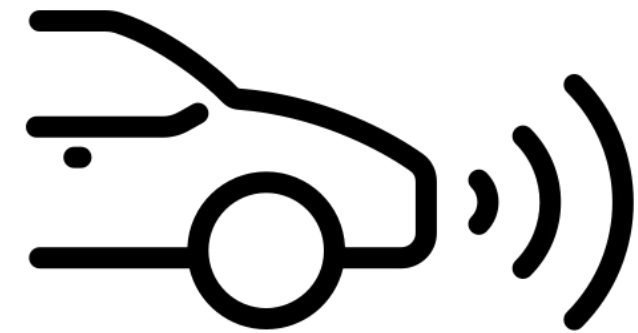
Functions



Gas leak sensor

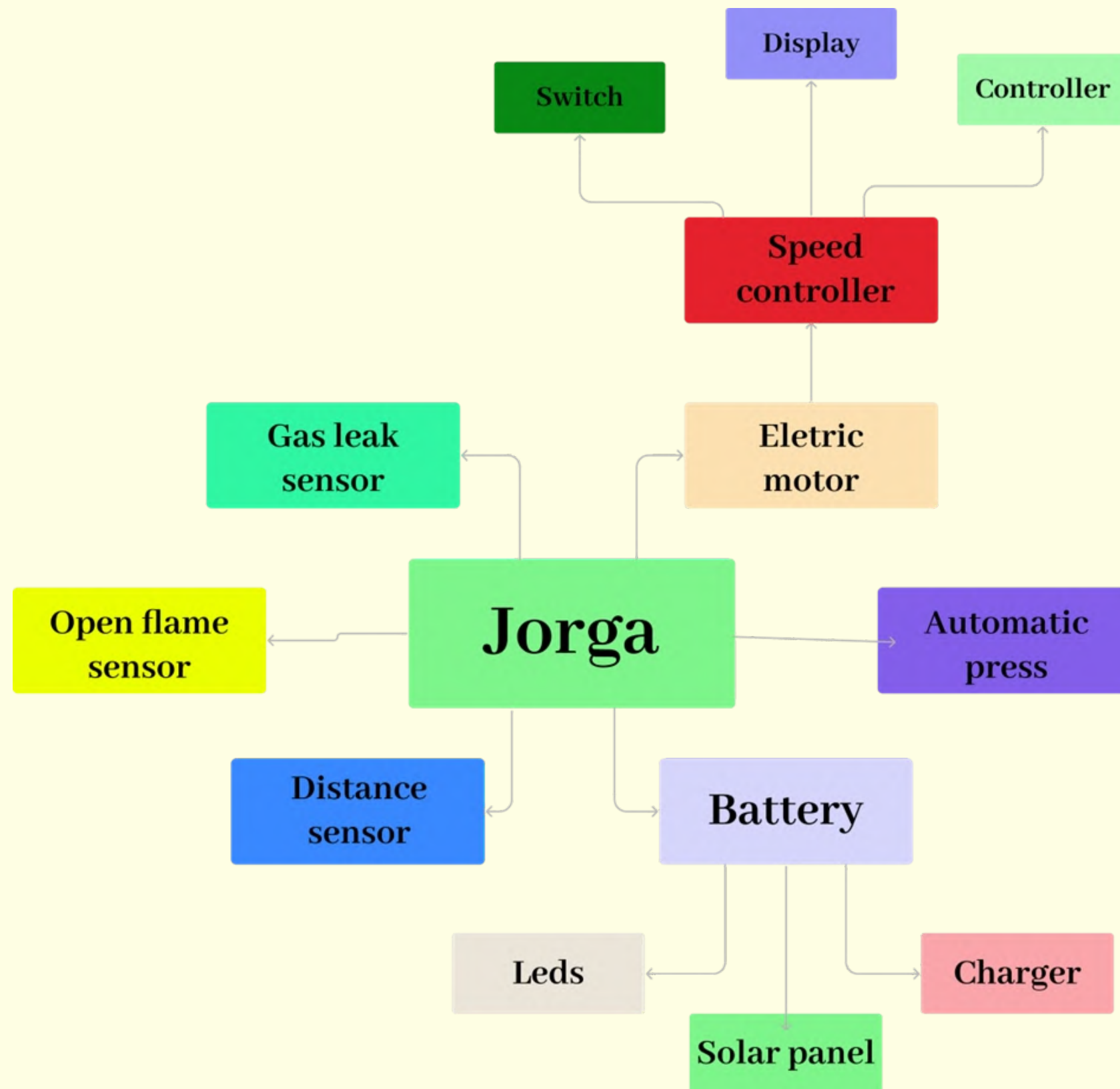


Open flame sensor

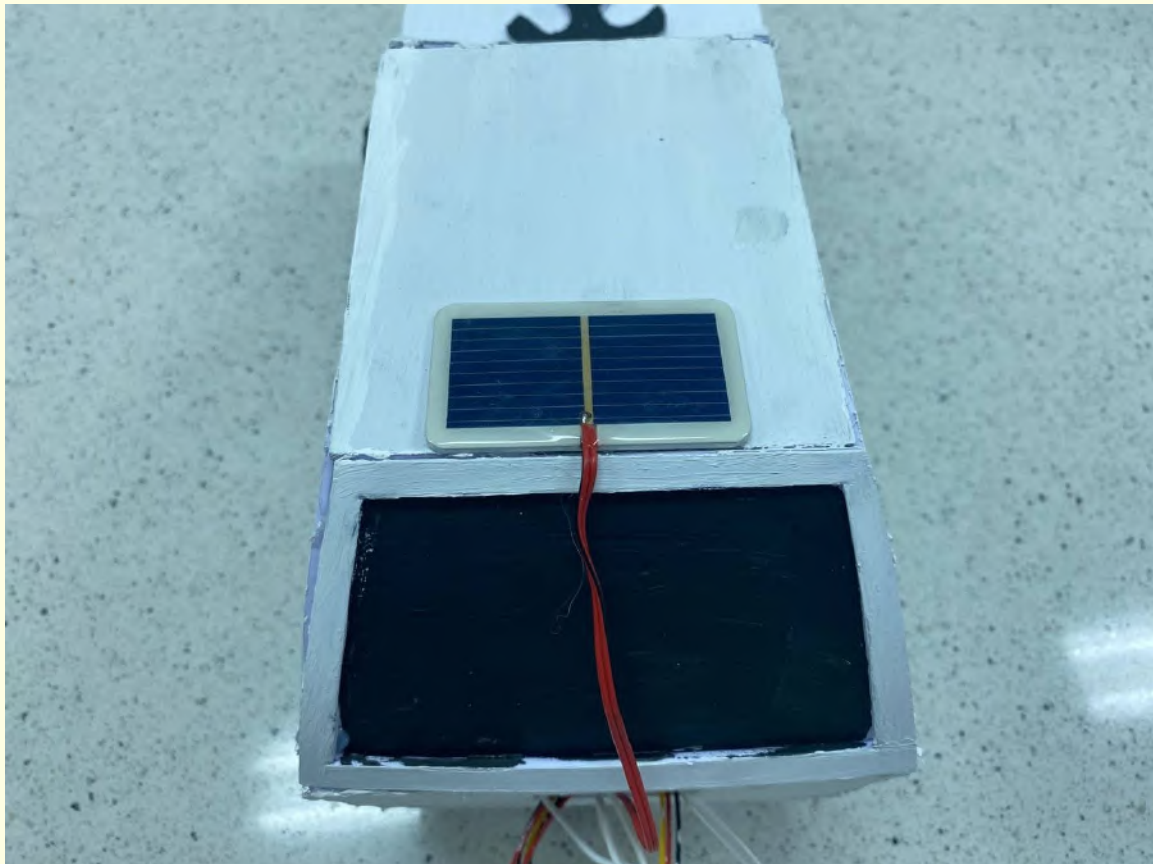


Distance sensor

The work principle of the machine



Jorga



Solar battery



Speed controller



Automatic press

Jorga



Gas leak sensor



Open flame sensor



Distance sensor



Temperature sensor

Competitor analysis

	Financially affordable	Waste-free product	Use of renewable sources of energy	Automatic press and other functions	High degree of safety	Domestic product
Jorga	+	+	+	+	+	+
Other electrocars	-	+	-	-	-	-
Cars running on natural gas	+	-	-	-	-	-

SWOT analysis

Strengths:

- Environmentally friendly
- High degree of safety
- Domestic product
- Reduced cost

Weaknesses:

- Weather dependence
- Motor weakness
- Lack of battery power for a long time

Opportunities:

- Develops the domestic auto industry
- Reduces the concentration of greenhouse gases in the air
- Decreases the number of road accidents

Threats:

- Competition with traditional cars

Conclusion

- ✓ To explore the Kazakh auto industry
- ✓ To investigate the negative effects of cars to the environment
- ✓ To provide the solution of the problem
- ✓ To analyze the competitors
- ✓ To make an initial prototype



References



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JORGA

Thanks for your attention!



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