



Efficace Pedagogic Resource for Active Learning

FINAL PRODUCTS AND SUMMARIES

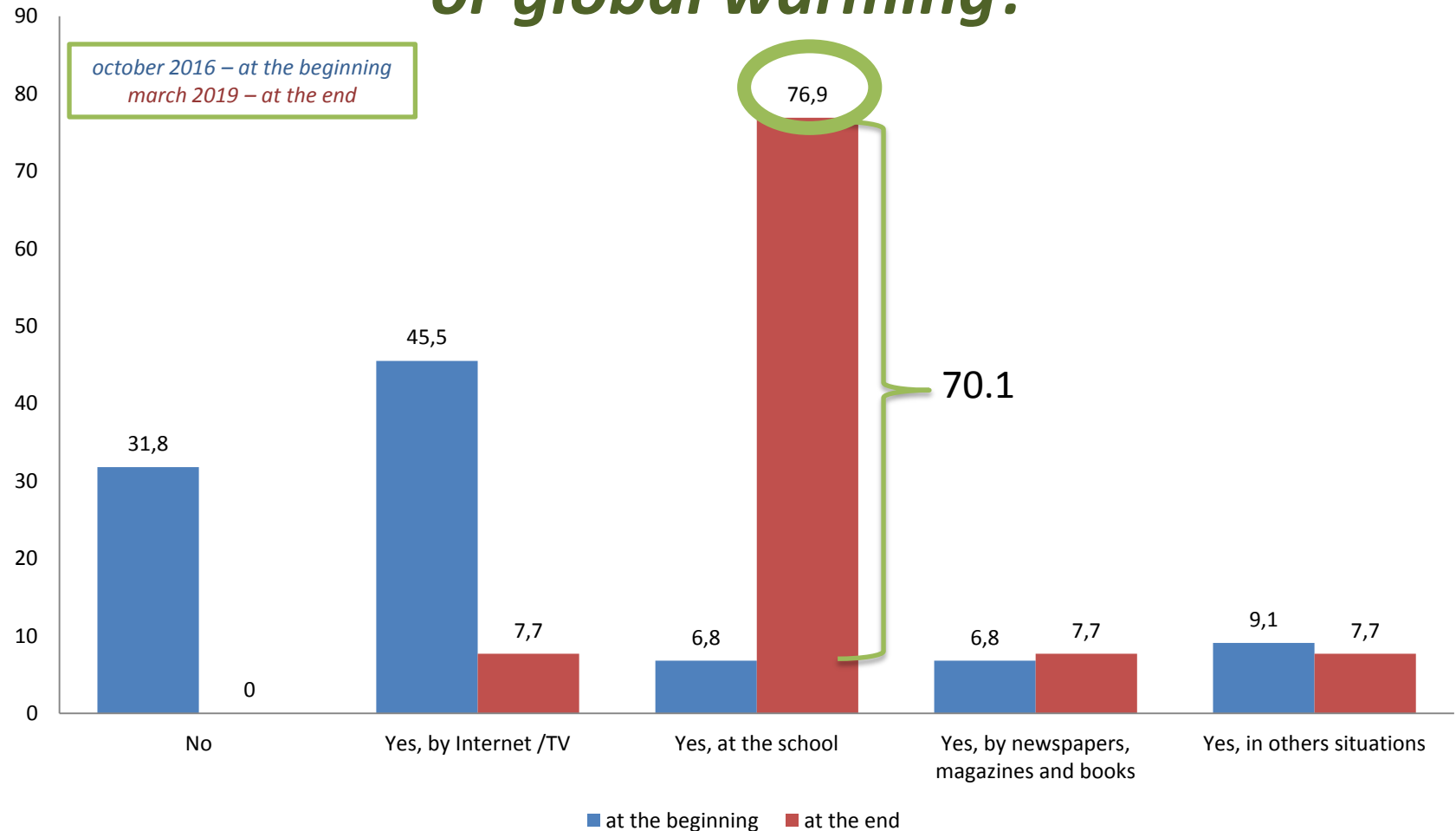
Comparative analysis of surveys
to start and finish the project
**SURVEY ABOUT CLIMATE CHANGE
OR GLOBAL WARMING**

october 2016 – at the beginning

march 2019 – at the end

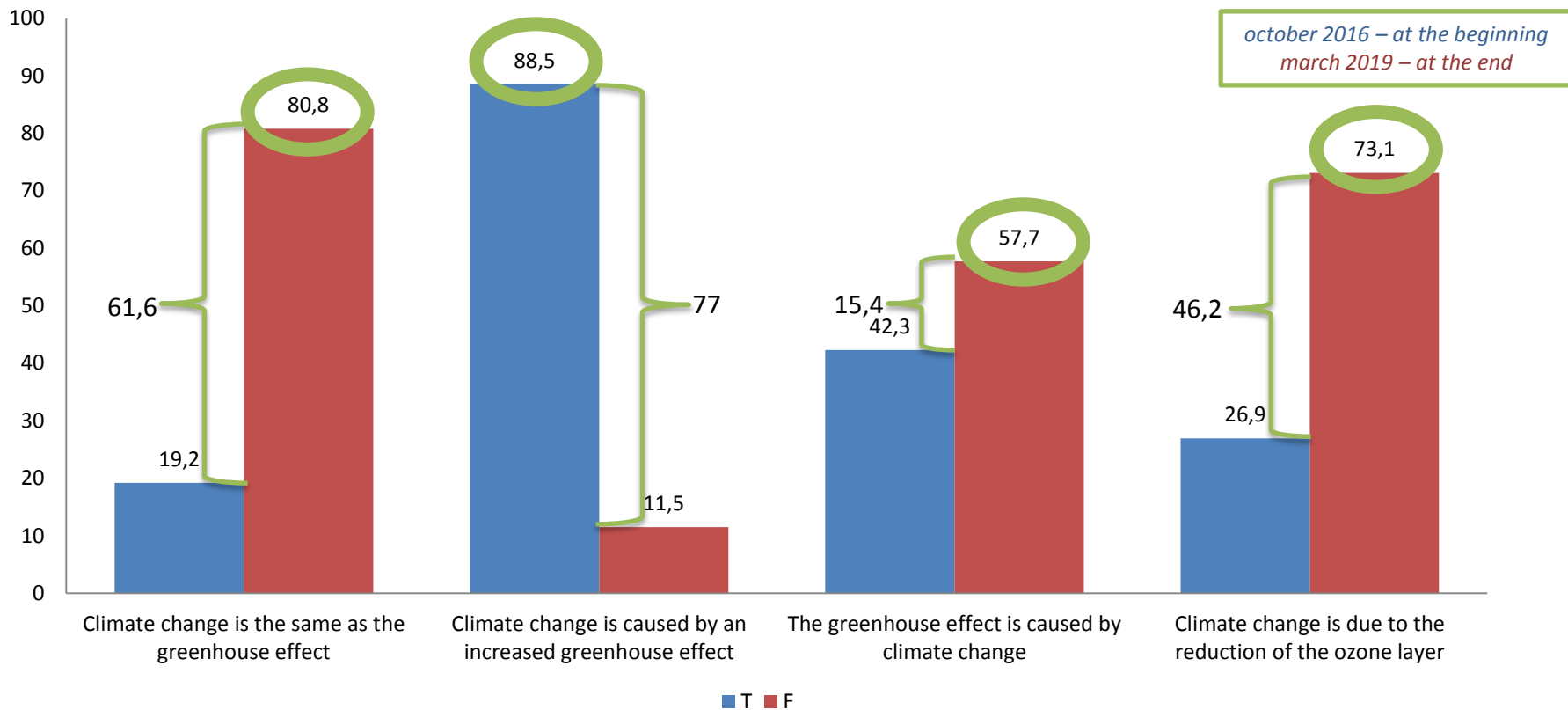
Karczmiska, march 2019

1. Have you heard about climate change or global warming?



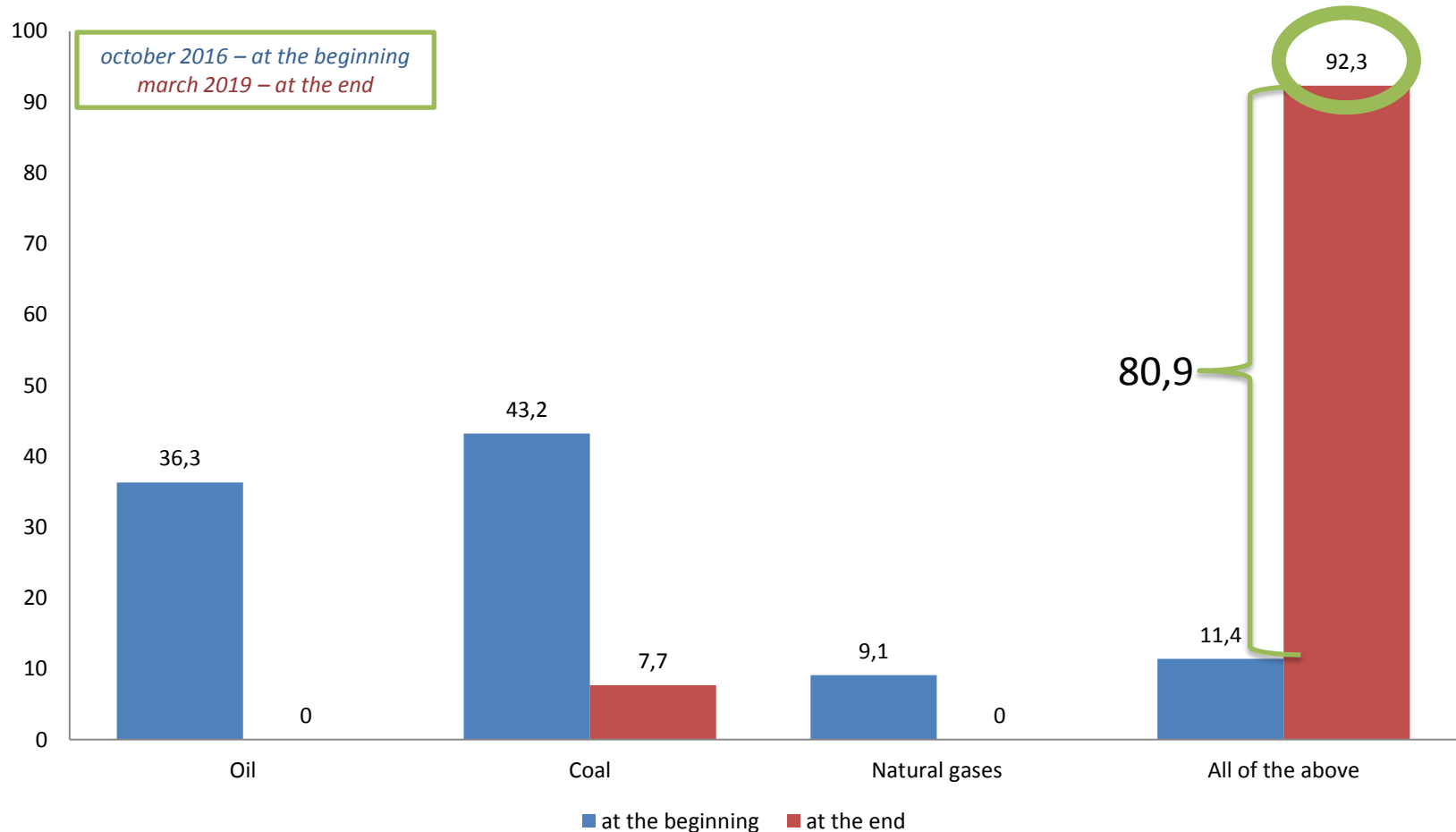
- After three years of project implementation, all students heard about the problem of climate change or global warming.
- 76.9% of the respondents learned about it at school, that is 70.1% more than at the beginning.

2. Answer True (T) or False (F)



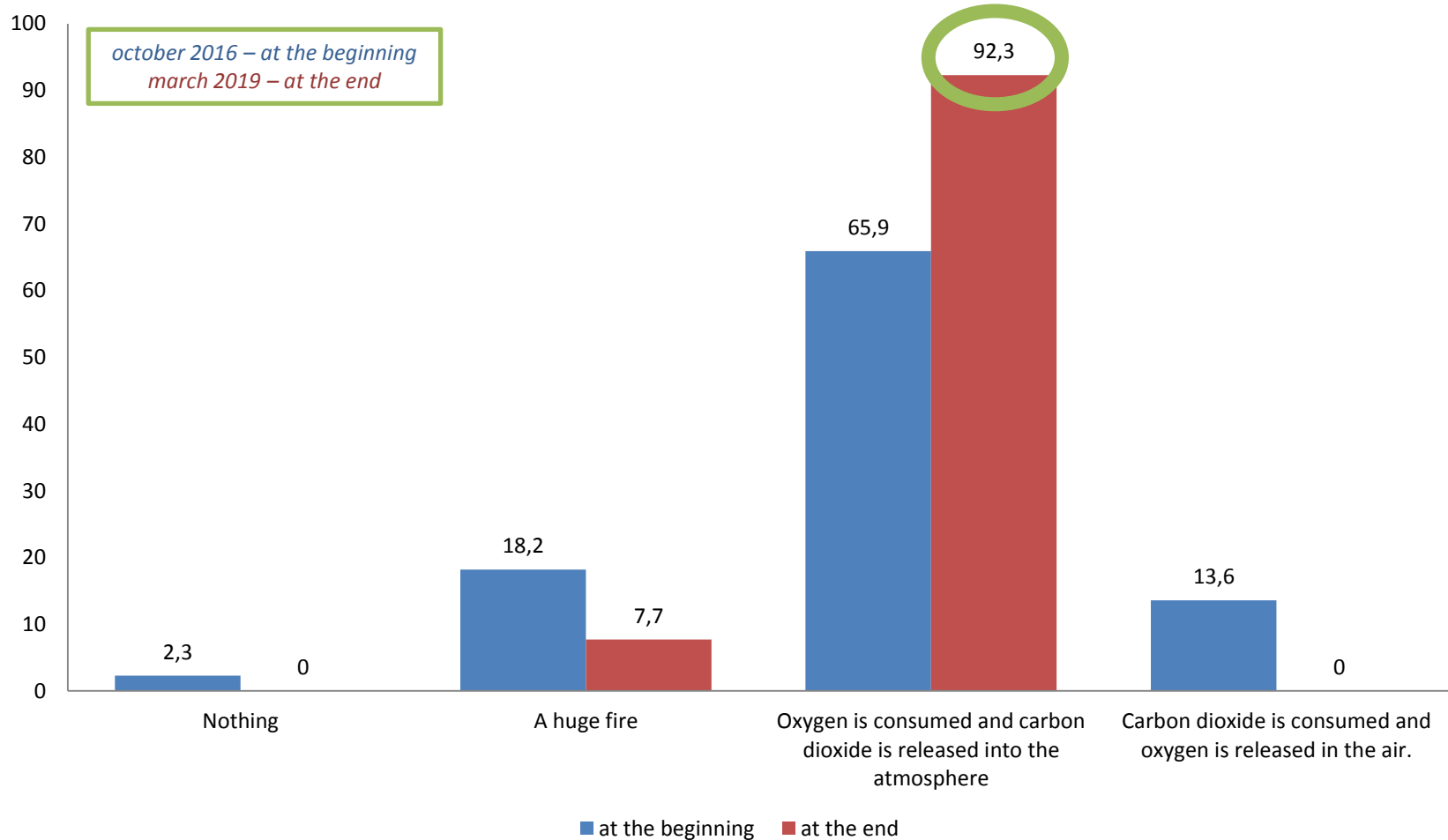
- Answers show that pupils no longer have a problem distinguishing between the following phenomena: climate change, the greenhouse effect, global warming, the ozone hole.
- The subjects are able to indicate which of them are the causes and which effects.

3. Which of the following are fossil fuels?



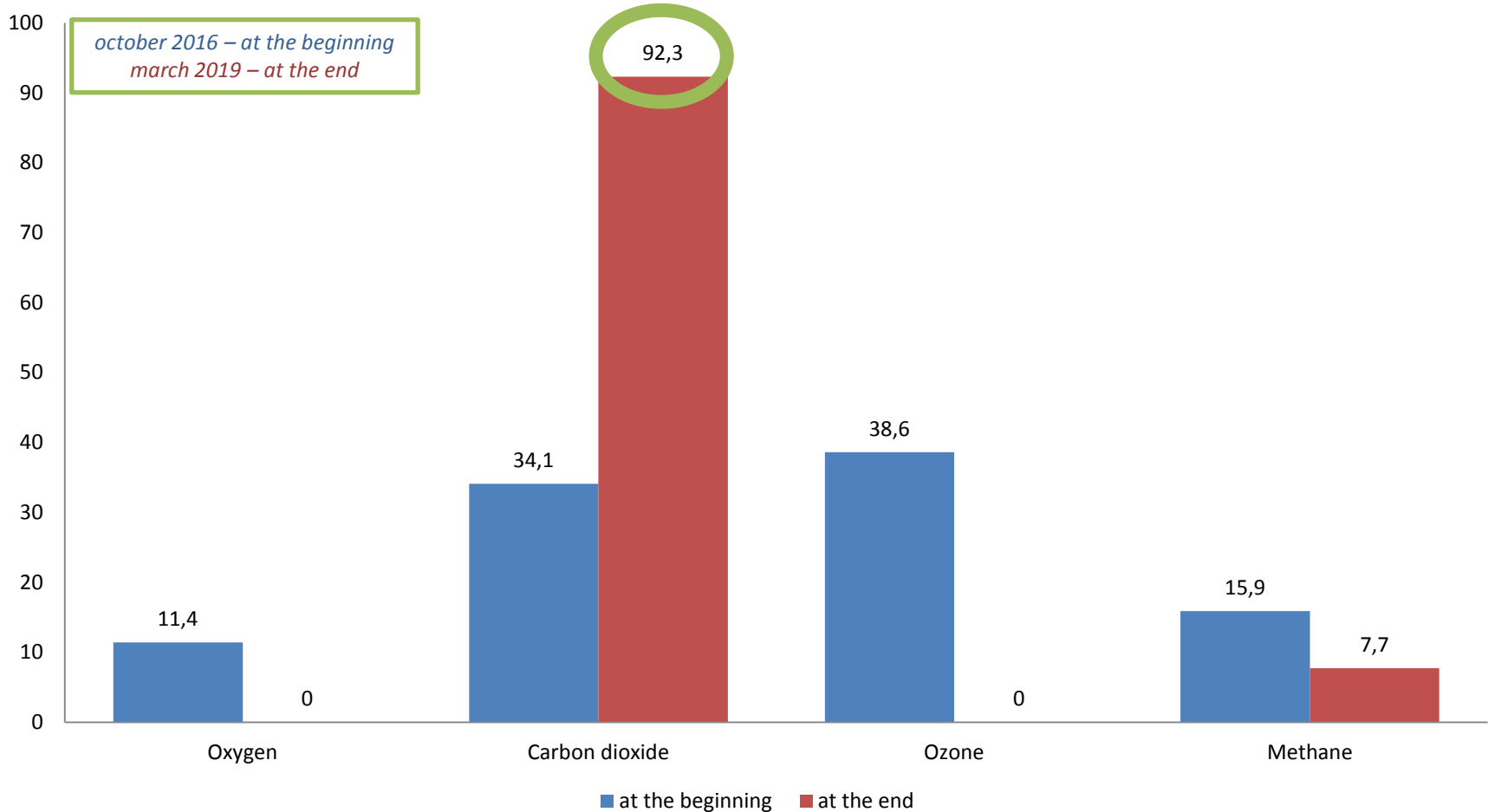
- 92.3% of students know different types of fossil fuels, which are non-renewable energy sources, that is 80,9% more than at the beginning.

4. What happens when we burn fossil fuels?



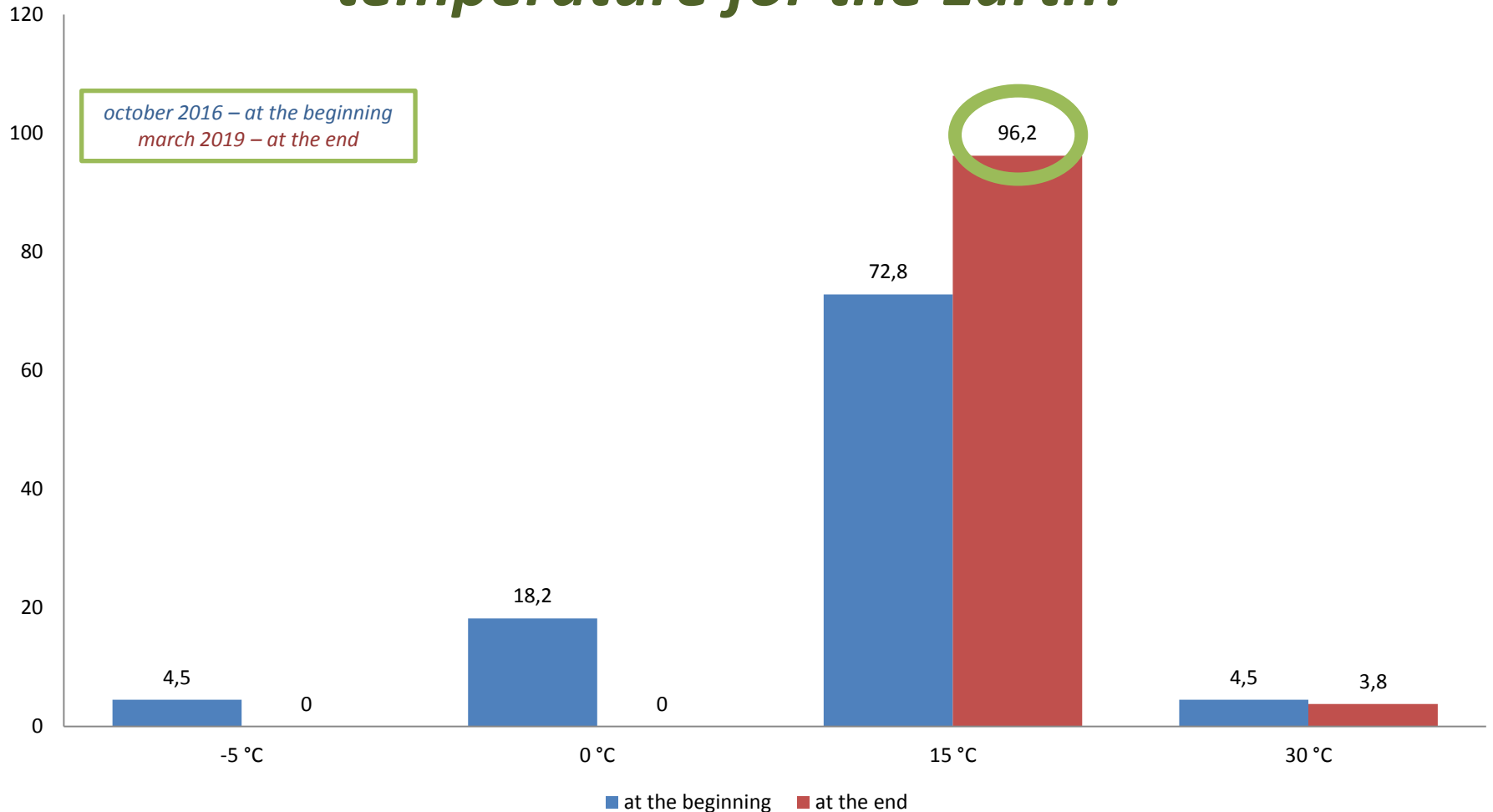
- Now 92.3% of students know that fossil fuels burned are the main source of greenhouse gases emissions.

5. Which it is the main greenhouse gas?



- 100% of students know two main greenhouse gases.
- 92.3% of respondents correctly indicate the one (carbon dioxide) that has the greatest impact on global warming.

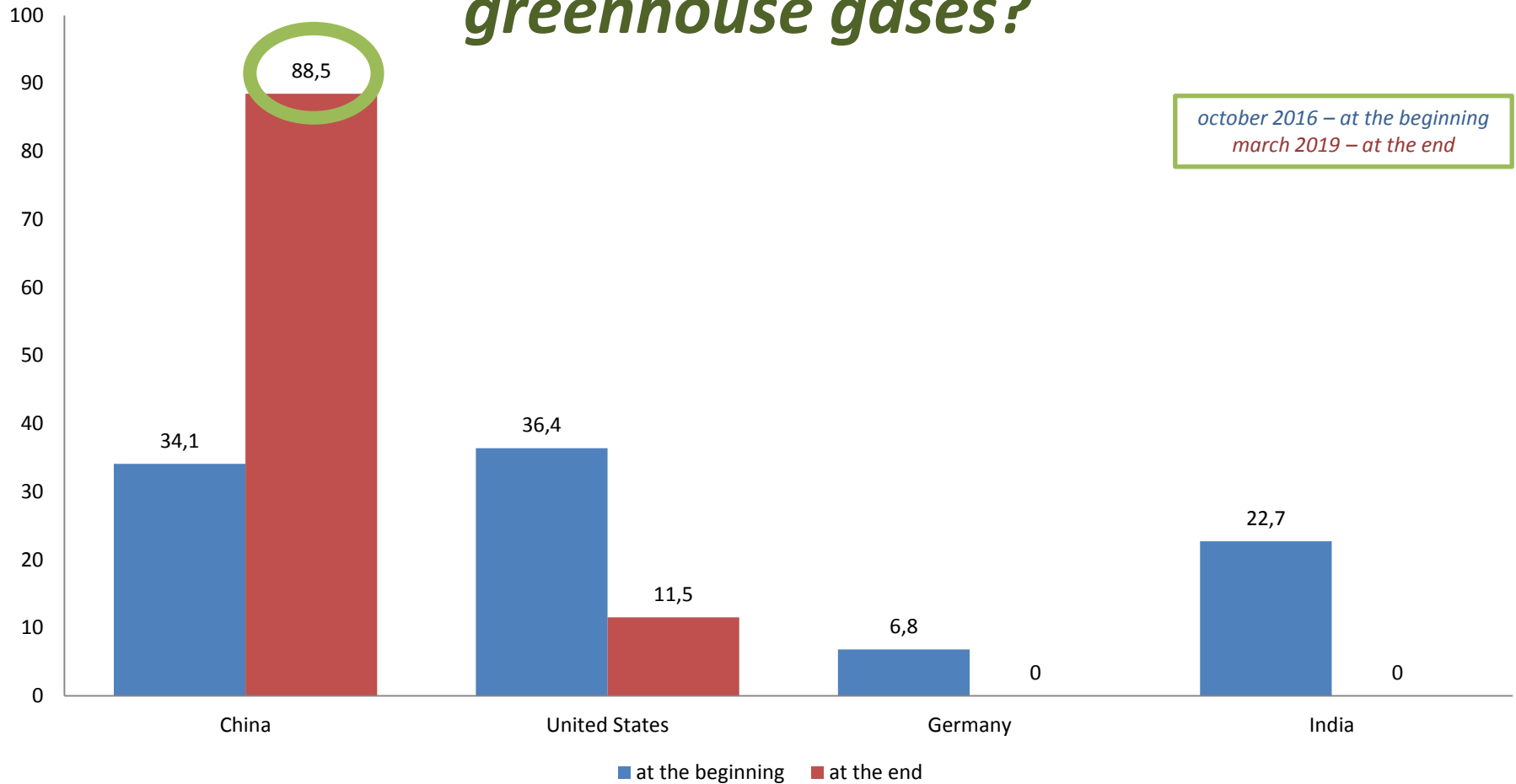
6. What do you think is the most ideal (average) temperature for the Earth?



➤ 96.2% of students correctly indicate the average temperature on the Earth.

➤ Now only 3.8% do not have this knowledge but at the beginning there were 27.2% of them.

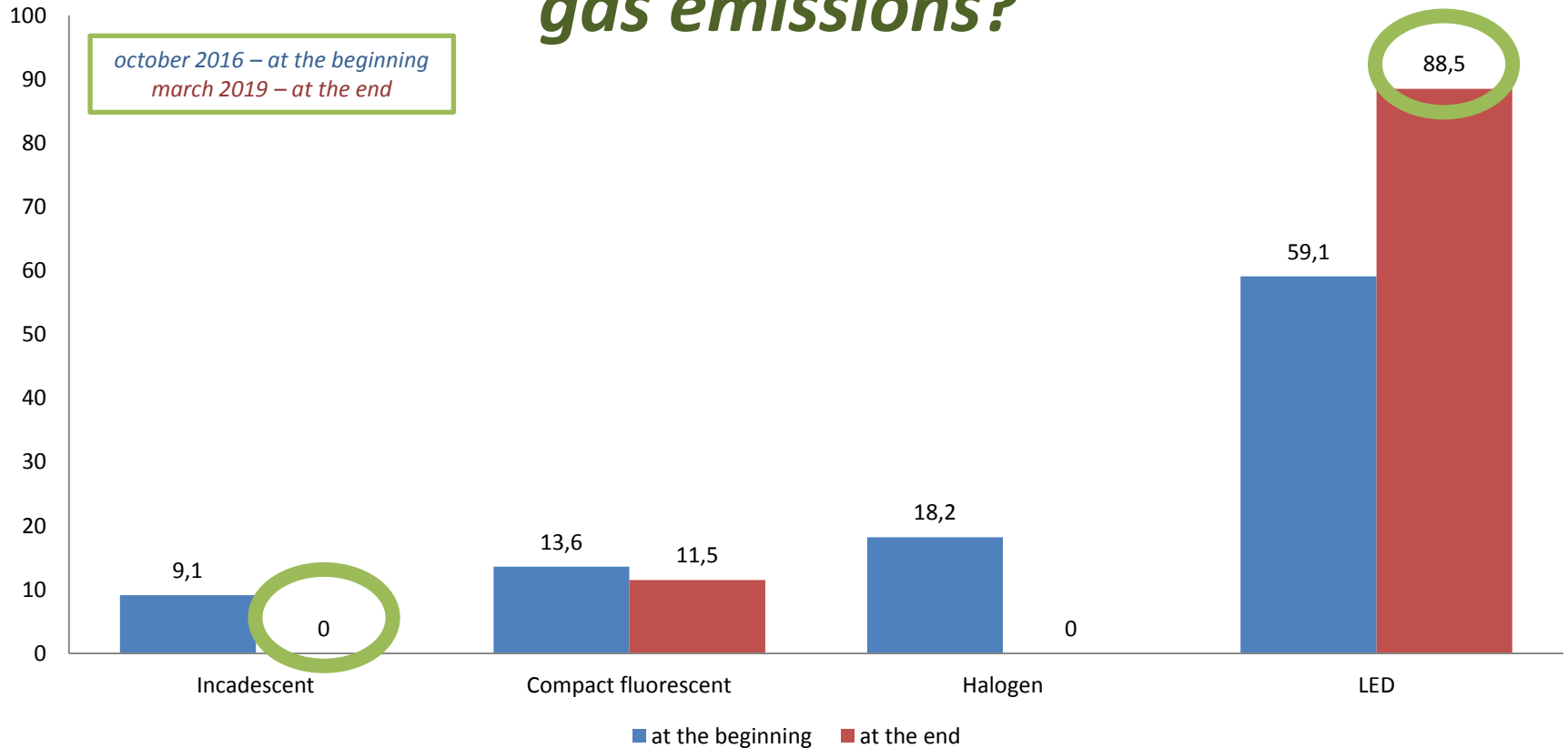
7. Which country currently emits the most greenhouse gases?



October 2016 – at the beginning
March 2019 – at the end

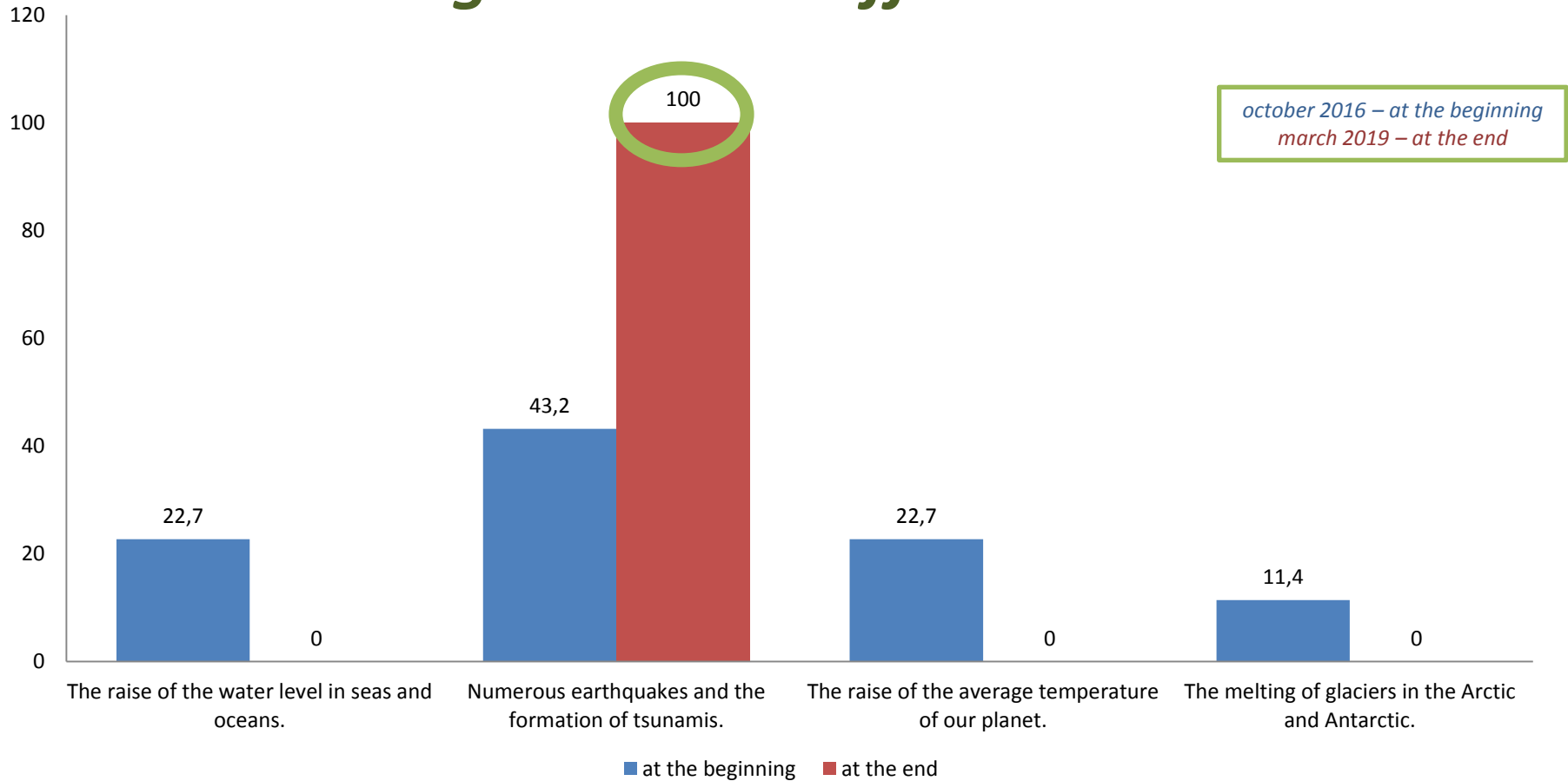
- 88.5% of respondents correctly indicate the country currently the main source of greenhouse gases emissions.
- 11.5% of students do not have current knowledge in this area, at the beginning there were 65.9% of them.

8. Which of the following light bulbs uses the least energy, and therefore results in fewer greenhouse gas emissions?



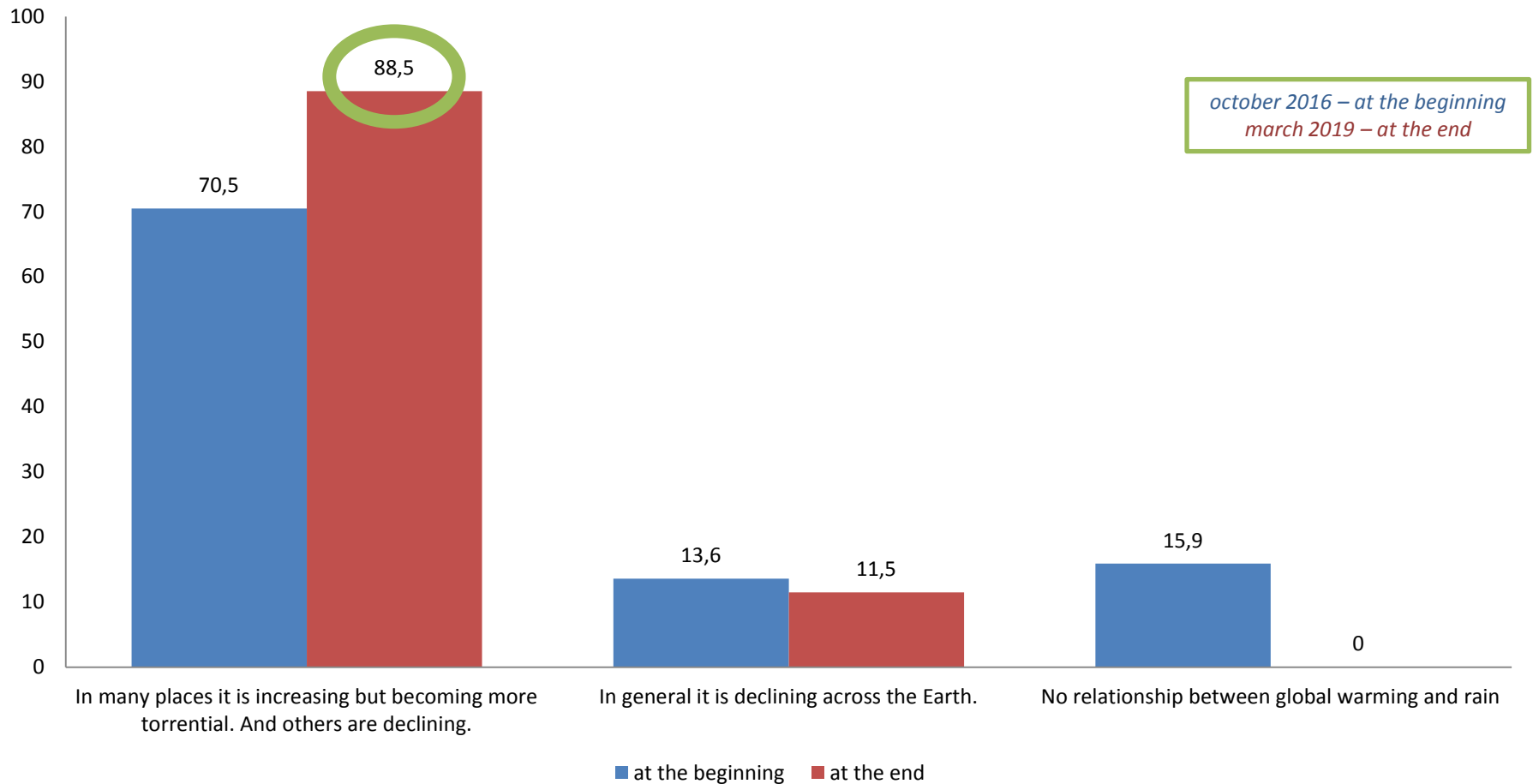
- 88.5% of students correctly indicate the type of light bulb that is energy-saving and does not increase the greenhouse effect.
- No student marked a traditional light bulb at the end of the project.

9. Select the false answer. The result of the greenhouse effect is:



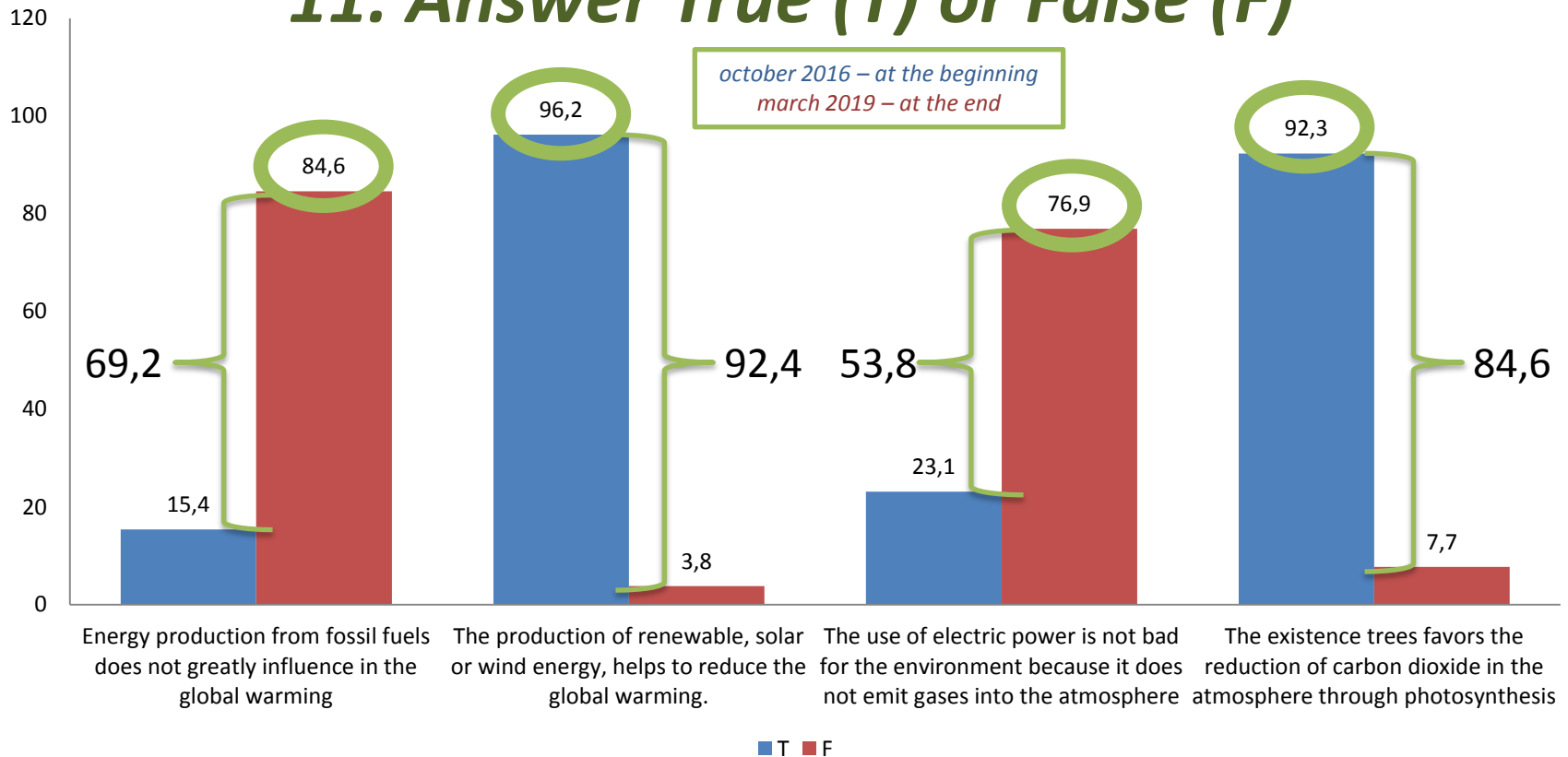
➤ All students correctly recognize the results of the greenhouse effect.

10. And what about rain? Mark the correct option.



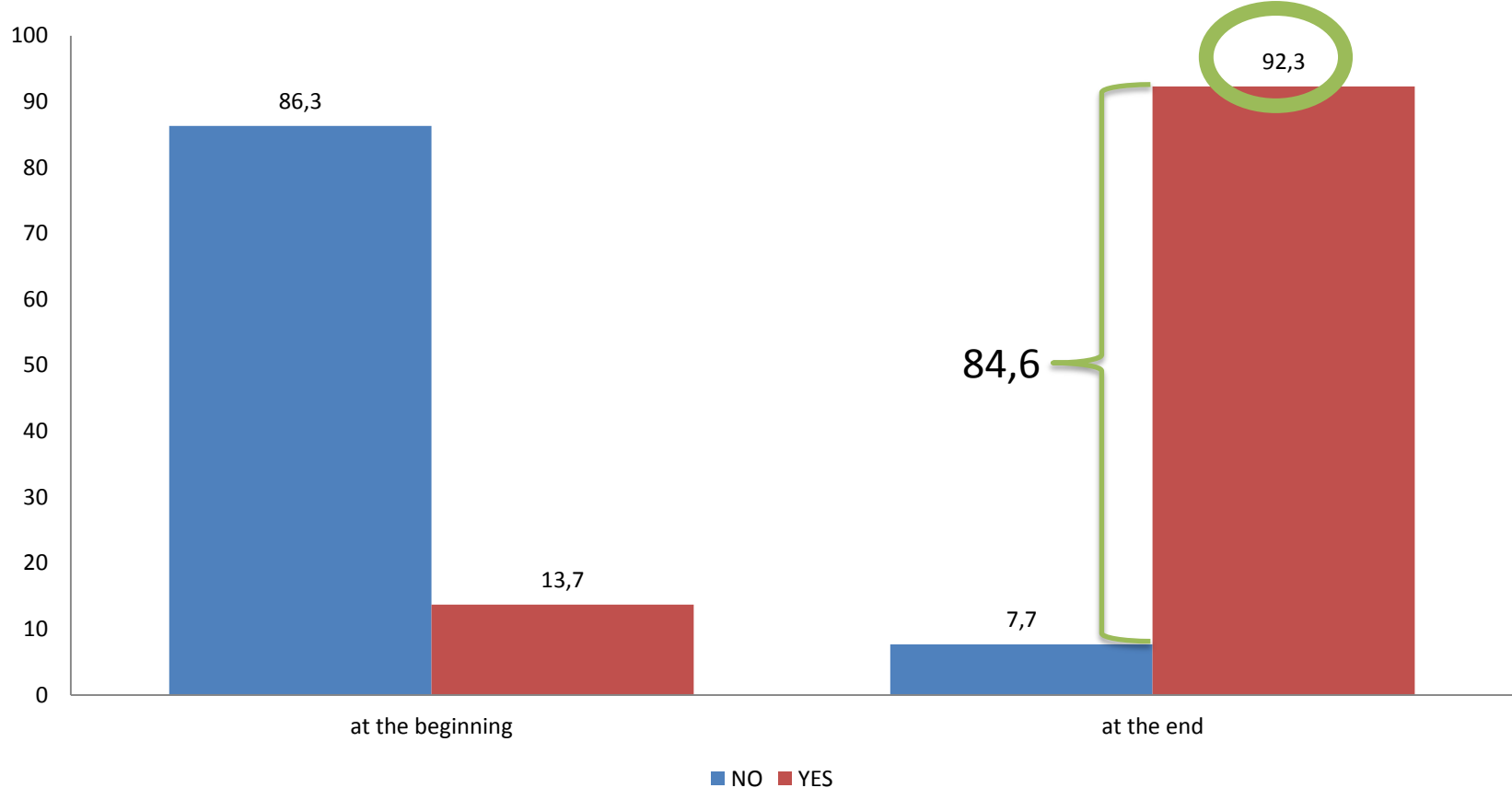
- 100% of students see relationship between global warming and rain.
- 88.5% of respondents know how global warming affects the climate.

11. Answer True (T) or False (F)



- 84.6% of respondents know that the energy production from fossil fuels has a major impact on the global warming.
- 96.2% of students know that renewable energy helps to reduce the global warming.
- 92.3% of students know that trees play a huge role in reducing the main greenhouse gas during the photosynthesis process.

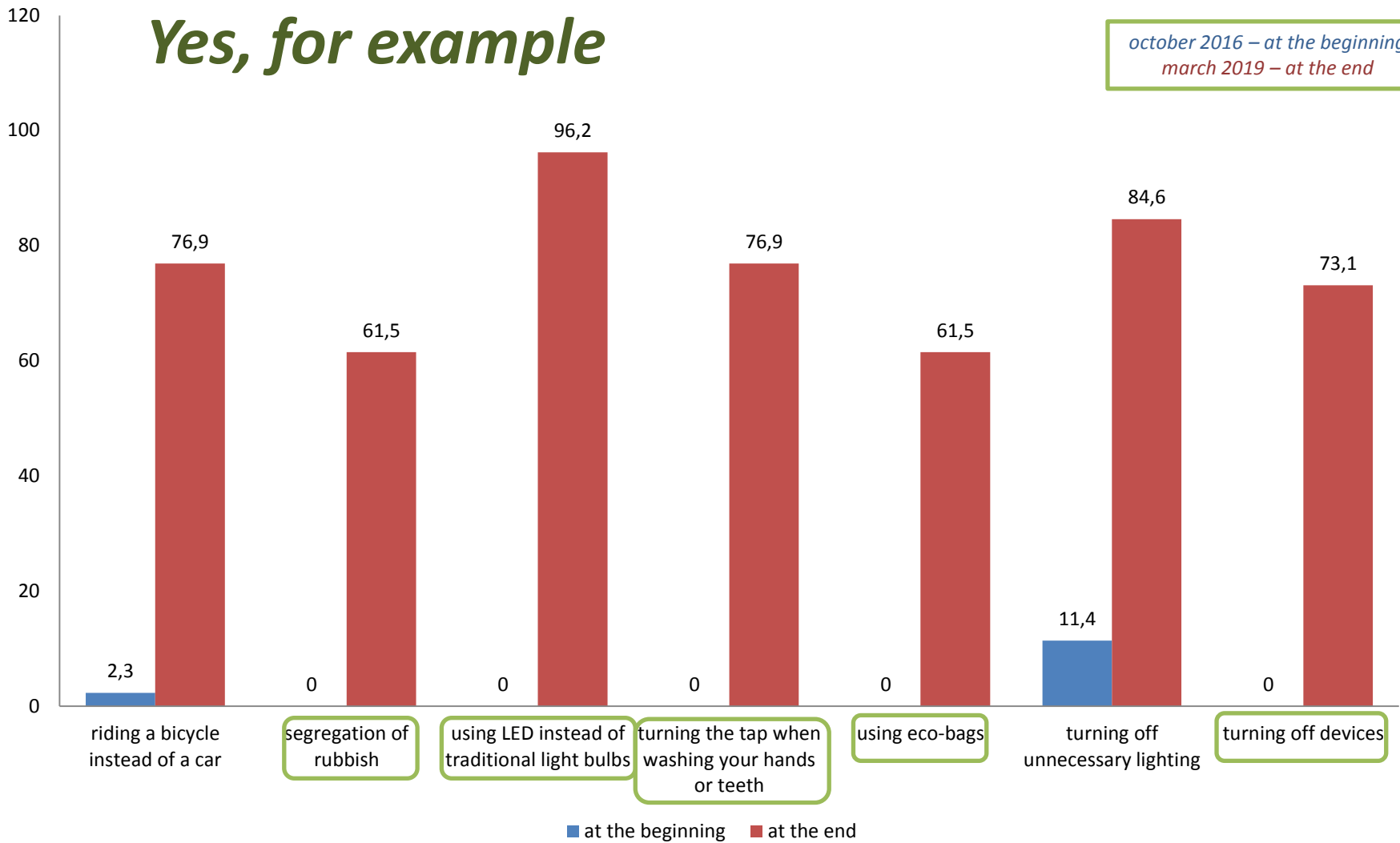
12. Have you ever done anything consciously to reduce the effects of climate change?



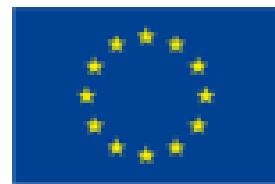
- 92.3% of students declare pro-environmental activities every day.
 - That's 84.6% more than at the beginning.

Yes, for example

october 2016 – at the beginning
march 2019 – at the end



- 92.3% of students changed their daily habits.
- There are five new behaviors for environmental protection.



Erasmus+

Pedagogic Resources for Active Learning



Zespół Szkół w Karczmiskach
POLAND