



Fourth educational event for elementary school students

Overview	
Date	26.03.2021
Venue	ZOOM platform
Aim of the event	Introduction of the educational materials related to circular economy and sustainable development through presentation, videos and quiz in order to bring closer the opportunities, challenges and solutions of the bioeconomy to the elementary school students.

Short resume

The Strumica region is part of the BE-Rural project funded by the "Horizon 2020" program of the European Union. The project aims to bring the concept of bioeconomy closer to the stakeholders in the region, to map the opportunities and potentials of the region, as well as to develop roadmaps and strategies for bioeconomy development.

To continue the educational events planned for the Strumica region for students in elementary and secondary education, the fourth educational event was held for students from the elementary school "Goce Delchev" – municipality of Bosilovo on 26.03.2021 starting at 12 am via ZOOM platform. The educational event was attended by 25 participants, including students from sixth, seventh, eighth and ninth grades, the class teacher as well as representatives of SDEWES-Skopje. The topic of the event was: The Role of Bioeconomy: Opportunities, Challenges and Solutions.

The initial part of the educational event was about the concept and ideas of BE-Rural which were explained in order to introduce the students with the goals of the project. The focus of the presentation was the synergies of various aspects of bioeconomy. The students were introduced to concepts such as biomass, bioeconomy, etc. The linkages of bioeconomy, climate change and ecologic limits were also highlighted. Sustainability is closely related to bioeconomy, so the concept of sustainable resource utilization was elaborated in detail through the sustainability diagram. It was of great benefit to emphasize the importance of sustainable development goals by highlighting the most important ones for the bioeconomy and their role in the accomplishing the bioeconomy concept. Bioeconomy in a rural ambient was shown with a video that in an interesting way summarize the main aspects of the lesson and will help the students to remember the key points. The following part of the presentation was more focused on bioeconomy resources, i.e. different types and how they can be utilized. Examples of small pelleting and mobile wood chips technologies and bio-based products from such waste were presented. Some examples of bio-products such as healthy drink from coniferous trees, eco hair brush from wild boar hair and wood, mycelium and agricultural residues pots and biofuel were interesting for the students. At the end of the class, students actively participated in several quiz questions via chat.

Having in mind the current situation with the pandemic, the educational events are organized virtually, with the possibility of replication in physical events when suitable situation occur. The feedback from the students and teachers is more than satisfactory with an eagerness for these events to continue in the future.

Participants				
Name	Surname	Name	Surname	Stakeholder category
1	Emilija	Mihajloska	SDEWES-Skopje	member
2	Vladimir	Gjorgievski	SDEWES-Skopje	member
3	Ksenija	Nikolova	Elementary school – municipality of Bosilovo	Teacher
4	Kire	Crnacki	Elementary school – municipality of Bosilovo	Student/6
5	Mihail	Gavrovski	Elementary school – municipality of Bosilovo	Student/7
6	Gligor	Jankov	Elementary school – municipality of Bosilovo	Student/7
7	Ivana	Mukanova	Elementary school – municipality of Bosilovo	Student/7
8	Lea	Gjorgjieva	Elementary school – municipality of Bosilovo	Student/7
10	Martin	Gavrovski	Elementary school – municipality of Bosilovo	Student/7
11	Jasmina	Vlahovska	Elementary school – municipality of Bosilovo	Student/7
12	Maja	Kostova	Elementary school – municipality of Bosilovo	Student/8
13	Marija	Doneva	Elementary school – municipality of Bosilovo	Student/8
14	Tankica	Grazdanlieva	Elementary school – municipality of Bosilovo	Student/8
15	Simeona	Nikolova	Elementary school – municipality of Bosilovo	Student/8
16	Kristina	Jankovska	Elementary school – municipality of Bosilovo	Student/8
17	Nevenka	Mancheva	Elementary school – municipality of Bosilovo	Student/8
18	Ivana	Zimbakova	Elementary school – municipality of Bosilovo	Student/8
19	Simona	Stojanova	Elementary school – municipality of Bosilovo	Student/8
20	Klaudija	Pandeva	Elementary school – municipality of Bosilovo	Student/9



21	Velika	Nikolova	Elementary school – municipality of Bosilovo	Student/9
22	Andon		Elementary school – municipality of Bosilovo	Student/9
23	Ana	Grazdalievska	Elementary school – municipality of Bosilovo	Student/9
24	Rade		Elementary school – municipality of Bosilovo	Student/9
25	Darko	Gavrovski	Elementary school – municipality of Bosilovo	Student/9



This project is funded by the Research and Innovation Program of the European Union "Horizon 2020", with Grant agreement no. 818478.

Agenda	
12:00 – 12:05	Welcome and introduction <ul style="list-style-type: none"> • Technical setup and explanation of the technical tools • Consent forms • Feedback form
12:05 – 12:45	Presentation on the topic: Opportunities, challenges and solutions of bioeconomy <ul style="list-style-type: none"> • Focus on bioeconomy, biodiversity, sustainability, ecological limits, sustainable development goals, technological solutions for the agricultural and forestry sector, bio-based products • Quiz • Video
12:45 – 12:50	Discussion and conclusions

Photographs



Покрај врските со одржливоста и ублажувањето на климатските промени, од огромна важност е биоeкономијата да функционира во рамките на безбедни еколошки граници.

Со новата стратегија за биоeкономија, Европската Комисија поддржува иницијативи на национално и регионално ниво за развој на ефикасна и одржлива биоeкономија и ова опфаќа:

- воспоставување на мониторинг систем ширум ЕУ за следење на напредокот кон **одржлива и циркуларна биоeкономија**.
- давање упатства за тоа како најдобро да функционира биоeкономијата во рамките на **безбедни еколошки граници**.



Participants (24)

Q Find a participant

- Emilija Mihajloska (Me)
- SDEWES Skopje (Host)
- Ksenija
- ana
- Andon
- Darko Gavrovski
- Gligor Jankov
- Ivana Mukanova
- Ivana Zimbakova
- Kire crnacki
- Klaudija Pandeva
- Kristina Jankovska
- Ksenija Nikolova
- Maja Kostova
- Marija Doneva
- Mihail

Invite Unmute Me Reclaim Host



This project is funded by the Research and Innovation Program of the European Union "Horizon 2020", with Grant agreement no. 818478.

Јасмина Влахо...
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

- Во септември 2015 година, Обединетите Нации усвоија 17 Цели за одржлив развој и 169 посебни потцели.
- Имплементацијата на овие цели во насока на остварување на Агендата 2030 за Одржлив Развој.
- Економијата и општеството се вграден и неразделив дел од биосферата
- Сите ЦОР се директно или индиректно поврзани
- Мерки насочени кон една ЦОР може да влијаат врз друга цел

Извор: <https://sustainabledevelopment.un.org/?menu=1300>

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki

Mihail

Maja Kostova

Nevenka Mance...

Симеона

Tankica Grazda...

Simona Stojanova

Мартин гавров...

Ivana Mukanova

Klaudija Pandeva

Marija Doneva

Ксенија

Рад

Јасмина Влаховска
Gligor Jankov
Kire crnacki
Kristina Jankovs...

Цели за одржлив развој (ЦОР)

Ksenija Nikolova

Emilija Mihajloska

SDEWES Skopje

Velika Nikolova

Јасмина Влахо...

Gligor Jankov

Ivana Zimbakova

Kire crnacki