**Estonian ECO FRIENDLY ACTIONS LTT ACTIVITY IN ESTONIA self assessment of pupils. Survey’s evaluation.**

11 students answered the questionnaire.

1) My level of understanding regarding alternative energy sources good applications in Estonia is

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| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  |  | 1 student | 5 students | 4 students | 1 student |

2) My level of understanding about what we can do to protect nature and environment is

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  |  |  | 6 students | 3 students | 2 students |

3) How will you use what you learned in this learning teaching training activity?

* I will inform my friend, what I learned.
* Nothing.
* I will use less power.
* I try to save our nature. I save more water.
* I will try to use the knowledge in my daily schedule,to help the enviroment.
* I will prevent dropping trash on the ground.
* I will use the knowledge in school and in everyday life.
* I wil try to use less paper, waste less water and learn more about protecting our environment.
* Nature is very important.
* I will start recycling more and be more aware of what i buy at the store.
* I don't now.

4) What were the best things and the worst things that you did during the program for you?

* Best thing was that I made new friend with other cultures.
* Everything was great.
* Best: I learned new things, Worst: I accidentally missed the workroom at Ahhaa
* The best thing is I can practise my English. The worst thing is the program is over.
* I think meeting new people was the best part, and I think there weren't any worst parts to the whole experience.
* The best thing was we all got along very well. The bad thing was that it only lasted for a week, and we started missing eachother after they left.
* The best thing was getting to meet so many people and the worst was probably that some of them didn’t quite understand.
* The best thing what I did was going to the AHHAA and the worst thing what I did was going to the Sauga parish government.

5) Did you face with difficulties? If yes, what were the difficulties?

* 10 of them said ’’no.’’
* Some didn’t speak English very good which ended up in some misunderstandings.

6) If there is a chance and you participate this LTT activity again, what do you do better?

* I would make the days shorter.
* I dont know.
* I would not miss any workrooms
* I would comunicate people more.
* Be more comfortable.
* I would try to spend more time with everyone and would go to more places that are popular in Estonia.
* Nothing.
* I would be more active.
* Interact more.
* I would socialise more.
* I would talk more with the other people.

7) My participation into onsite applications during the visit at Tallinn Energy Discovery Center is

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| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  | 1 student |  | 3 students | 2 students | 5 students |

8) As a participant, What did you learn at Tallin Energy Discovery Center? Please write briefly.

* That we can make music with everything.
* Nothing.
* Lightning uses a lot of power.
* I liked very much to walk on the bridge.
* There were so many things,small details.
* I learned a lot about different scientific phenomenas at the science theatre and more about electricity.
* How energy is made in different ways.
* There were a lot of cool stuff, like the sound game and the electric cage and so on. I learned how they worked and could make energy sparks in some games myself.
* That we needed electrical power.
* I learned how to create lightning in a big cage.
* I got to know how the electricity works.

9)My participation into onsite visit to Linnamae Hydroelectiric plant on Monday was

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| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  |  |  | 4 students | 5 students | 2 students |

10) As a participant learner, what did you learn or what did you observe about Linnamae Hydroelectiric Plant? Please write briefly

* Not much, I can remember.
* Nothing
* I observed how it was built.
* About how it works,what it does.
* I learned that the power plant was declared the most beautiful industrial building in Estonia already during construction.
* That the energy what is made by water is turned into electrical energy in Linnamäe Hydroelectiric Plant.
* We could go on the bridge and see the waterfall close.
* Very useful.
* I didn’t particularly learn anything.
* I learned how the water moves in the hydoelectric plant.

11) My participation into activities in guided tour in Pernova Nature Center is

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| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  |  | 1 student | 2 students | 2 students | 6 students |

12) As a participant learner, what did you learn and what did you observe about Pernova Nature center on Tuesday? Please write briefly.

* I learned that every bird has his/her own nest.
* I observed how there was different things from nature.
* I heard how the fox sounds.
* About animals,plants,how the house works,and what they do there.
* I learned about understanding, valueing and protecting the nature and the environment.
* I learned about wildlife in Estonia.
* We had a guided tour around the place telling what they do in which rooms.
* Animals in the wild are important.
* I actually knew everything beforehand .
* I got to know much about the animals.

13) My participation into learning activities about different scientific and social areas at AHHAA Science Center on wednesday morning is

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| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  |  |  | 2 students | 2 students | 7 students |

14) As a participant learner, what did you learn and observe at AHHAA Science Center? what are the most interesting applications for you? Please write briefly.

* How to assort trash.
* I learned that water is very strong, the most interesting thing was the waterdoor.
* I saw a mirror tunnel.
* All of it was so interesting and fun and I think that’s the best way to learn.
* I learned about science and it encouraged me to study more about it. The most interesting application was for me the managing circles machine.
* The most interesting applications were applications, where water was being used.
* There was a lot if intresting stuff like the movie making area which I really liked and I liked the part where you pumped and bubbles came in the water.
* Film tricks.
* I saw what human organs, tumors and how such things look.
* The most interesting thing was the wry house and I liked the water applications.

15) What did you learn at the workshop about recycle and reuse of materials at AHHAA Science Center?

* How much trash, make the worlds biggest countries.
* How to sort waste
* How to recycle and learned many new facts conserning the enviroment.
* Where to put different types of garbage.
* I learned how to sort out different types of waste and how much waste is made in diffrent countries in the world.
* We were given bags full of trash and had to sort them and later the guide would look if we were right or wrong.
* Garbage to be sorted.
* I learned how to recycle and that the USA makes the most thrash every year.
* I got to know in which countries there is the most rubbish.

16) My participation into learning activities and presentations at Tartu Nature Center is

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| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  | 1 student |  | 2 students | 4 students | 4 students |

17) As a learner, what did you learn at Tartu Nature Center? what are the innovative sides of this center? Please write briefly.

* Their house was as economic as possible, and I really liked it.
* It uses almost zero energy.
* How to save electricity.
* What possibilities there are to help out the enviroment,zero houses and so on.
* I learned a lot about Estonian plants.
* The center is very ecological and is almost zero-energy building.
* I learned about how they use their water, how their building was made, how they keep warm and so on.
* There are different ways of to get electricity.
* I learned that the Tartu Nature Center is a zero energy building.
* I learned about electricity and renewable energy ressources. There were a lot of solar panels.

18) My participation into activties and trainnig at Carl Robert Jakobson’s farm museum is

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| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  | 1 student |  | 3 students | 3 students | 4 students |

19) As a participant learner, what did you learn at Carl Robert Jakobson’s farm museum on thursday? What did you observe? What are different applications and sides "Educational program : Using wood in the farm" for you? Please write briefly.

* I learned how people lived many years ago.
* How wood was used formerly. I observed the farm.
* About the history,how it all came together,and about wood work and so on.
* I loved Carl Robert Jakobson's history he made a house by himself and he died just when the house got done.
* I learned about the life in the country-side in Estonia and how wood was used in the past in Estonia.
* I learned about Carl Robert Jacobson, we could see how the farms used to be, we could see wood and how before everything was made of wood basically.
* Fish used in the water. Fish Ladder.
* I really enjoyed it. I learned how the people live in old Estonia.
* How the life was in older times, I liked the educational program, because I learned there much.

20) My participation and interaction during the visit and learning activitiy at Kabli nature center is

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| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  | 1 student |  | 4 students | 2 students | 4 students |

21) What did you learn and observe at Kabli nature center? what are the distinctive sides of this center for you? Please write briefly.

* I learned many thing about animals. That house is mainly from wood, so that was cool.
* I learned what different plants and trees and animals are in Estonia. There were different ways to learn.
* How heavy is a hikebag.
* About how they catch the birds and then let them go,so it wont stress the birds and about nature.
* It had a lot of information about Estonian animals.
* I learned about sea and nature.
* We could look around in the center and look what was written on the walls.
* I found out about ringed birds.
* I learned how they catched birds.
* I learned about the stuffed animals and it was distinctive that the house was so old.

22) My participation and interaction during the learning activity "Tolkuse nature learning trail" on friday afternoon is

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| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  |  |  | 3 students | 3 students | 5 students |

23) What did you learn during Tolkuse nature learning trail? What did you observe about the untouched nature? Please write biriefly.

* The sea was almost as high as the hilltops there. I observed the beautiful nature.
* How to determine the age of a tree.
* About plants,how it all happend and so on.
* It had beautiful views.
* I learned about the bogs and the plants in the bog.
* We learned about how fen and swamps are made. It was very quiet and intresting to look around.
* I found out why the trees were planted in a row.
* I learned how to calculate a trees age without chopping it down.
* I learned how to know the age of a tree.

24) My interaction and collaboration with other participant pupils during LTT activity is

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  |  |  | 4 students | 4 students | 3 students |

25) What did you learn about Estonian culture and way of life? what is the most interesting thing about their culture?

* Estonians are really nice and friendly and their old town is really beautiful.
* Sightseeing.
* Estonia is beautiful contry.
* I live here,I think everything is.
* They appreciate the value of nature.
* I learned that they have a very beatiful nature in Estonia.
* I'm from Estonia, so I didn't learn that much new about Estonia, but when we visited Carl Robert Jacobson's farm I learned how the farms used to be.
* Estonians do not pollute the environment much.
* I didn’t learn anything new.

26) What is your overall assessment for LTT activity in Estonia?

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| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **Poor** | **Avarage** | **Fair** | **Good** | **Vey good**  | **Excellent** |
|  |  |  | 2 students | 4 students | 5 students |

Additionally, if you wish you can share your other suggestions here. thank you for your answering questions wishfully and for your great participation.

* No thank you
* Thank YOU!

I think it’s fair to say that eveyone learned something during this week and that the answers are generally very positive. I think we reached our objective.