



ERASMUS+

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VET

Lycée Pablo Neruda  
ZSET  
MSMTAL

# S2WRE

N°03 - February 2023

KA210-VET - SUN WATER WIND of RENEWABLE ENERGY - S2WRE



**MOBILITY N°3 IN FRANCE**  
**18/02/23 to 25/02/23**



# SUMMARY

## 14 SCHNEIDER ELECTRIC

Visit of the IntenCity Building

## 15 EDF HYDRO ALPES

Visit of the campus for hydroelectric training

## 26 NUCLEAR

Visit of the power plant



## 28 PRACTICAL WORK

Installation of photovoltaic systems



## 40 MAYOR

Meeting and discussion with the Mayor of SMH



### ERASMUS+

KA210 - VET

2021-1-FR01-KA210-VET-000032902

Project funded with €60,000 by the Erasmus+ program of the UE

# SUN WATER WIND of RENEWABLE ENERGY - S2WRE



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## 3 HIGH SCHOOLS, 3 COUNTRIES, THE SAME AMBITION

Young people around the world are conscious we have to make efforts to develop renewable electrical energy (RE).

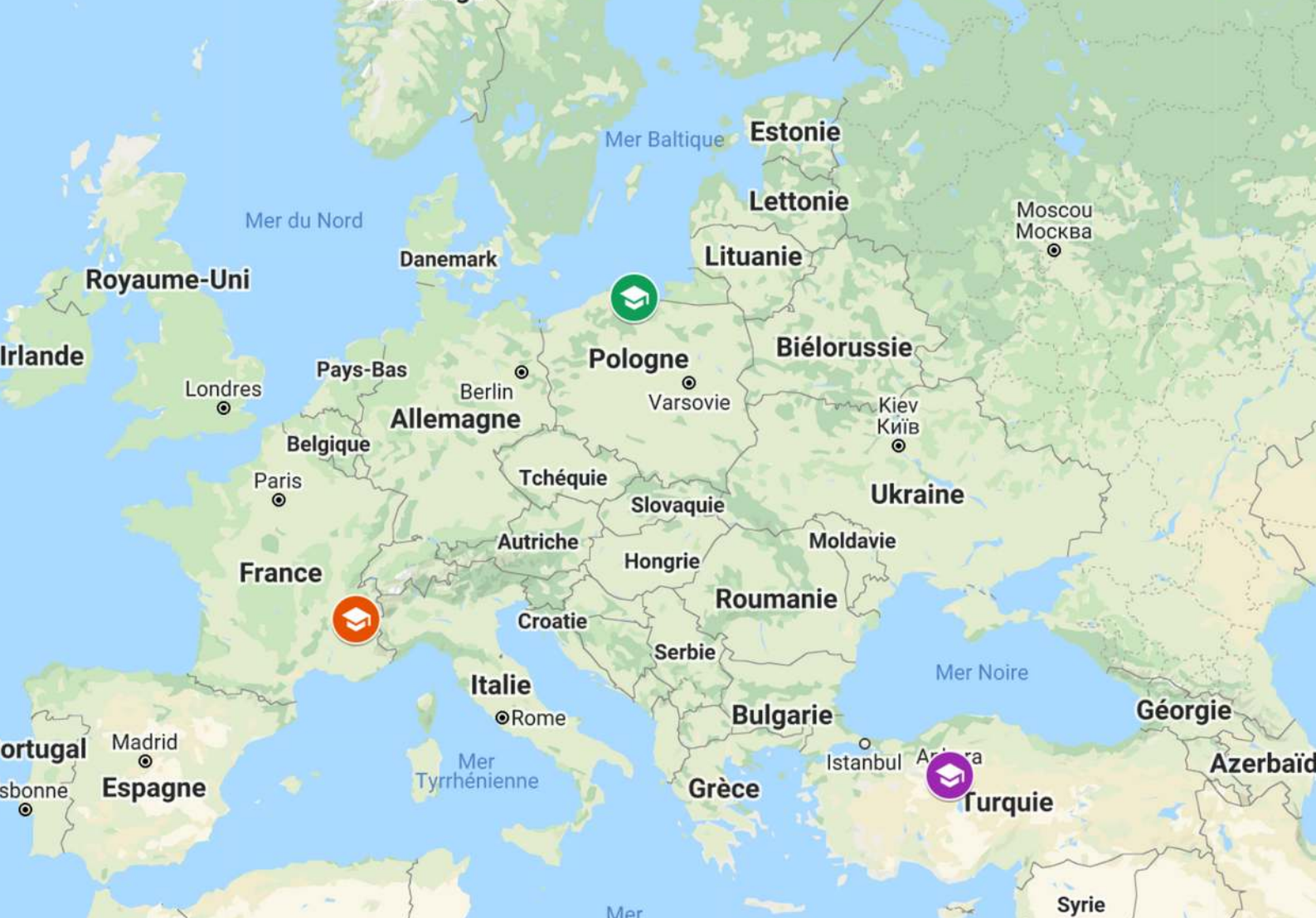
That's why we developed a Partnership with **Pablo Neruda High School** in Saint Martin d'Hères, France and with the **Zespół Szkół Ekologiczno-Transportowych High School** in Gdynia, Poland and the **Mimar Sinan Mesleki ve Teknik Anadolu High School** in Yenimahalle/Ankara, Turkey .

The three high schools are participating in the ERASMUS+ project "Simplified Partnerships in Vocational Education and Training" **KA210-VET (2021-1-FR01-KA210-VET-0000 32902 )**.

As part of the Erasmus+ project named Sun Water Wind of Renewable Energy S2WRE **has four aims:**

- Train eco-responsible electricians
- Acquire knowledge on RE
- Acquire know-how on RE installations
- Carry out several collaborative productions





FRANCE  
POLAND  
TURKEY

**Teachers attending the mobility in France :**

## S2WRE

2nd year CAP ELECTRICIAN - LPN - FR  
4U DEVICES and SYSTEMS of RENEWABLE ENERGY  
TECHNICIANS - ZSET - PL  
12K ELECTRICAL ELECTRONICS - MSMTAL - TR



### Pablo Neruda High School Lycée Pablo Neruda

*Saint Martin d'Hères, France*  
Alexandra CADEGANI  
Isabelle DELEGLISE  
Laurent DHAZE  
Mustapha NOUR



### Zespół Szkół Ekologiczno- Transportowych

*Gdynia, Poland*  
Larysa STUDZIŃSKA  
Krzysztof WOŹNIAK



### Mimar Sinan Mesleki & Teknik Anadolu Lisesi

*Yenimahalle/Ankara, Turkey*  
İsmail BÖLEK  
Adem ÇELİK  
Vildan KAVAS





# POLISH TEAM'S TRIP

**Friday 17.02**

**It's high time to meet with French renewable energy plants, culture and heritage.**

On Friday afternoon at about 5 p.m., we met at Gdynia Główna railway station ready to start a long journey to St Martin d'Herès in order to continue our project tasks with French and Turkish partners. Everybody was looking forward to experiencing a great adventure in France.

The train took us to Kraków at about 11 p.m. We made the most of the time that we had before the flight, so we went to the Market Square - the largest medieval square in

Europe, which is the most popular place in the city.

Our plane took off at 6 a.m. from the Kraków John Paul II International Airport and after a one-hour-flight we landed at Lyon Saint Exupéry Airport. Next, we went to Grenoble by coach. We arrived there at about 11 a.m. A French coordinator and an English teacher were waiting for us at Grenoble Bus Station. Eventually, we got to our hotel in Saint Martin d'Herès by tram, and went for lunch.



# POLISH TEAM'S TRIP



*Gdynia Główna railway station - the Pendolino train to Kraków*



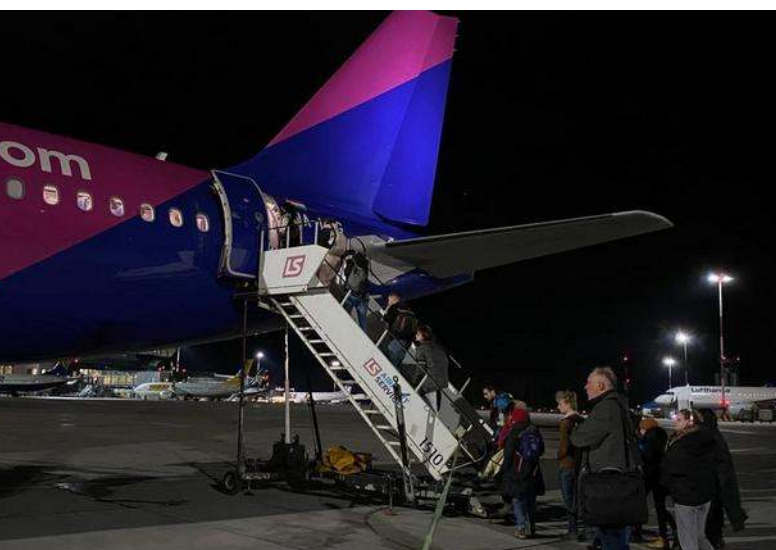
*On a bus to the airport*



*Students waiting for the flight at the airport*



*A queue at check-in counter*



*Polish students and teachers boarding a plane to Lyon*



*First meeting at the bus station in Grenoble*



# TURKISH TEAM'S TRIP

ANKARA

ANTALYA



SUNEXPRESS

TGV





# LYON

## A day in Lyon

On Sunday morning 19 February 2023, we left our hotel at 8 am to go to Grenoble bus station, where we got on a Flixbus to Lyon, which is the third largest city in France.

In Lyon, we admired a lot of monuments of this historical city. One of them was a statue of a great scientist André-Marie AMPÈRE. We crossed the river over the bridge to get to the restaurant where we had lunch. The meal was very delicious. There was a souvenir shop opposite the restaurant, so we could buy some magnets there. Next, we went along a beautiful narrow street to the stairs that led to the viewpoint.

There were so many stairs ! We were exhausted when we got upstairs. The panorama of Lyon was amazing. We also went to see a fabulous cathedral *Basilica Notre Dame*. In front of it, there was a monument of John Paul II. On our way back, we had a ride by underground from the centre to the bus station. We came back to Grenoble late in the evening.

*Statue of André-Marie Ampère erected in Place Ampère in the 2nd district of Lyon, France*



# LYON



*On our way to Lyon by FLIXBUS*



*Place Bellecour in Lyon*



*Photo in front of the entrance of the Basilica Notre Dame de Fourvière*



*Esplanade of Notre-Dame de Fourvière*



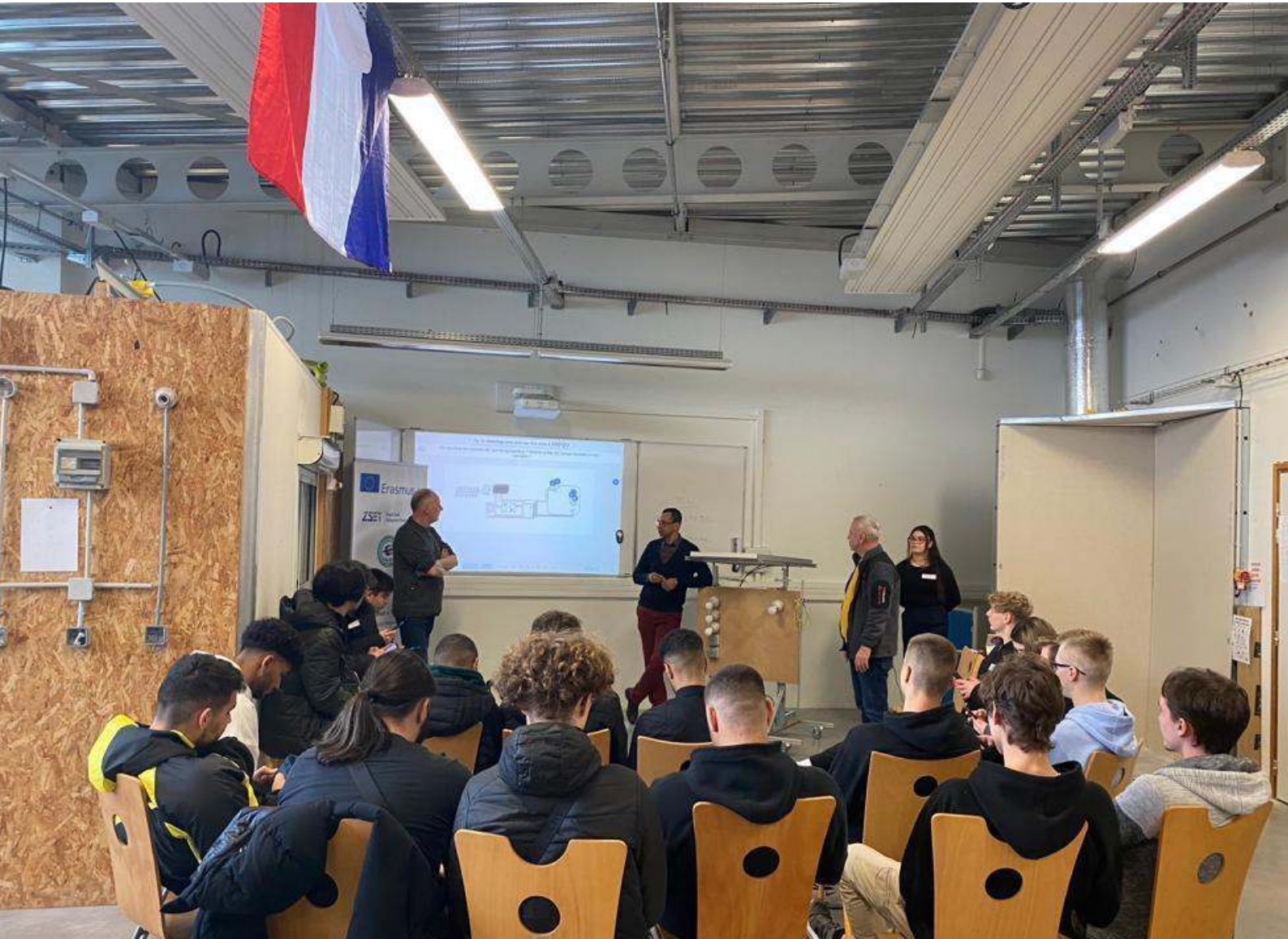
*In front of the "La fresque des lyonnais" in the 1st district of Lyon*



*Place des Terreaux in front of the Bartholdi Fountain*



# DAY 1



## SAINT MARTIN D'HERES

### Welcome to our correspondants

On Monday 20 February, we welcomed our guests from Turkey and Poland to the workshop classroom. We started doing a Kahoot teaching system in English. The quiz was created by students from another Erasmus+ TV2E project.

The winners of the quiz were Imran, Sebastian and Krzysz.

After that, we went to the canteen for lunch. In the afternoon, we visited EDF HYDRO ALPES and SCHNEIDER ELECTRIC.

We visited in two groups:  
- a French-speaking group  
- an English-speaking group

Afterwards, we visited Schneider Electric's new Intensity building. We saw solar panels, a helical wind turbine and special glass to reduce heat. We also went to look at various pieces of equipment. At the end of the day, we took a group photo.



# WELCOME



*Room 398 (CAP Electrician workshop)*



*The Principal and the Deputy Principal welcome the Turkish and Polish delegations*



*The Head Master of Pablo Neruda High School and the Head Master of MSMTAL High School, Turkey*



*Visit of Pablo Neruda High School : Electrical Engineering Resource Centre (CRGE)*

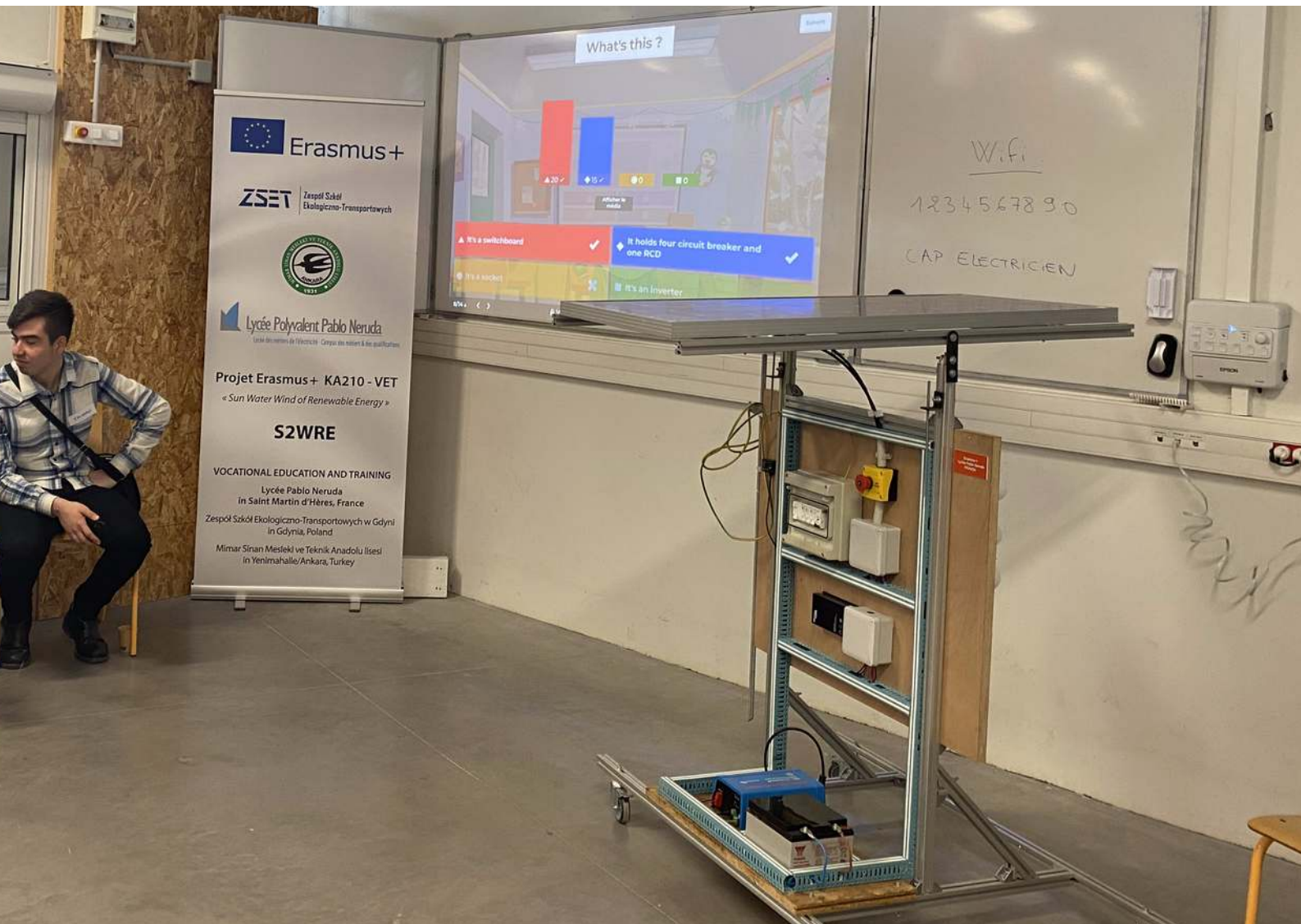


*Visit of Pablo Neruda High School : Electrical Engineering Resource Centre (CRGE)*



*Visit of Pablo Neruda High School : Renewable energy workshop*











# EDF HYDRO ALPES SCHNEIDER ELECTRIC



## UFPI Training Campus

On Monday 20th February 2023, three delegations from France, Poland and Turkey visited the EDF HYDRO ALPES company. It is located in Saint Martin le Vinoux. Then, we visited the Intencity building of Schneider. It is located in the Presqu'île of Grenoble.



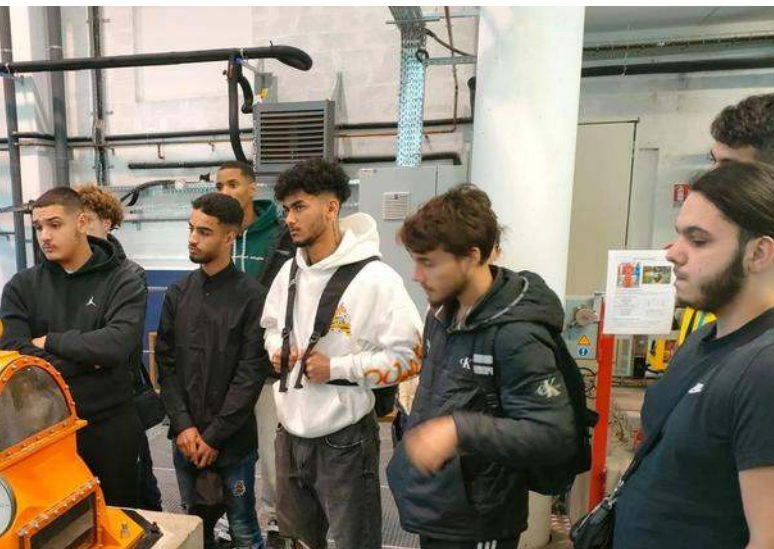
# EDF HYDRO ALPES & SCHNEIDER ELECTRIC



*The trainers of the training campus are showing us a Pelton turbine (EDF HYDRO ALPES)*



*This model represents a section (EDF HYDRO ALPES)*



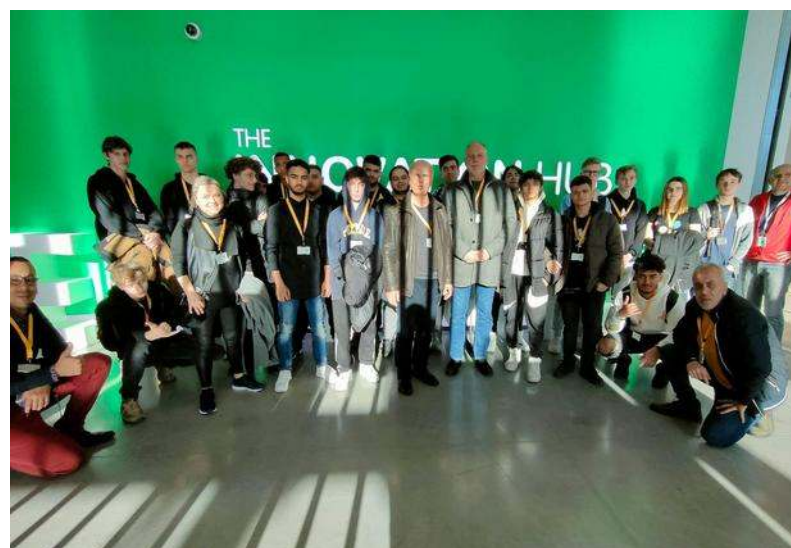
*The group is listening to the sound of a Francis turbine (EDF HYDRO ALPES)*



*The Intensity building of Schneider Electric*



*The Turkish Head Master in front of the solar panels and 2 vertical wind turbines of the Intensity building*

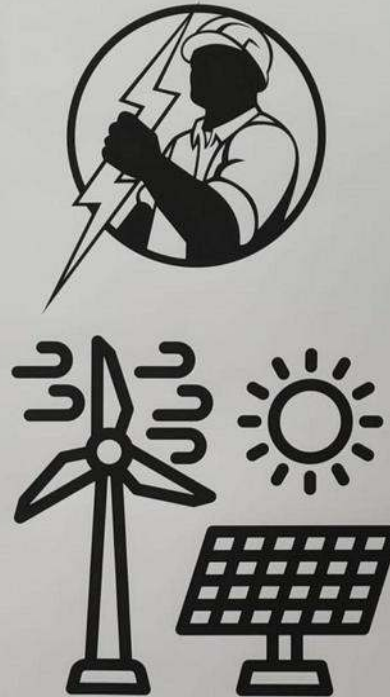


*Photo of the Erasmus+ group at Schneider Electric*



## Our ethics for environmentally friendly electricians

- 1) An electrician installs solar panels
- 2) An electrician sort his waste
- 3) We know The electrician has to segregate the waste, separating it into paper, plastic, metals and other.
- 4) An electrician works in hydroelectric dams
- 5) Eco-Responsible electricians use an electric truck
- 6) An electrician uses renewable energy such as water.
- 7) An electrician installs LED lamps
- 8) An electrician go to work by public transport
- 9) An electrician can be either a woman or a man.
- 10) Well-sorted waste and well-recycled waste



MAKS UĞUR DRIS  
Sofiane Emirhan Sebastien  
Sofiane ZARIF  
Mazen Yashub  
Marlene  
Yashub  
An  
Anissa  
T

## OUR ETHICS

On Tuesday morning, we wrote a chart about what a green electrician must do to be an environmentally friendly electrician.

This Charter summarises the good practices to be observed on a building site in order to act in an eco-responsible manner.

We have become aware of the bad habits of former electricians.

As young electricians in training, we want to preserve natural resources and offer our planet a better future.

In addition, the charter reiterates the principle of equality between male and female electricians.

This charter and this project refer to two fundamental European values, which are :

- respect for human dignity
- equality between men and women



# ENVIRONMENTALLY FRIENDLY ELECTRICIANS

We worked in 6 groups of 3 students (a Turkish student, a Polish student and a French student).

Groupe 1 : Enzo, Lutfi, Jakub

Groupe 3 : Driss, Ugur, Maks

Groupe 4 : Imran, Umut, Jakub, Krzysztof

Groupe 5 : Antoine, Maxence, Kacper, Jakub, Sebastian

Groupe 6 : Lovepreet, Oliwia, Taha, Azzedine



*Jakub, Sebastian, Antoine and Maxence writing the chart.*

*Oliwia writing the chart.*



*Solifane writing his sentence for the chart.*

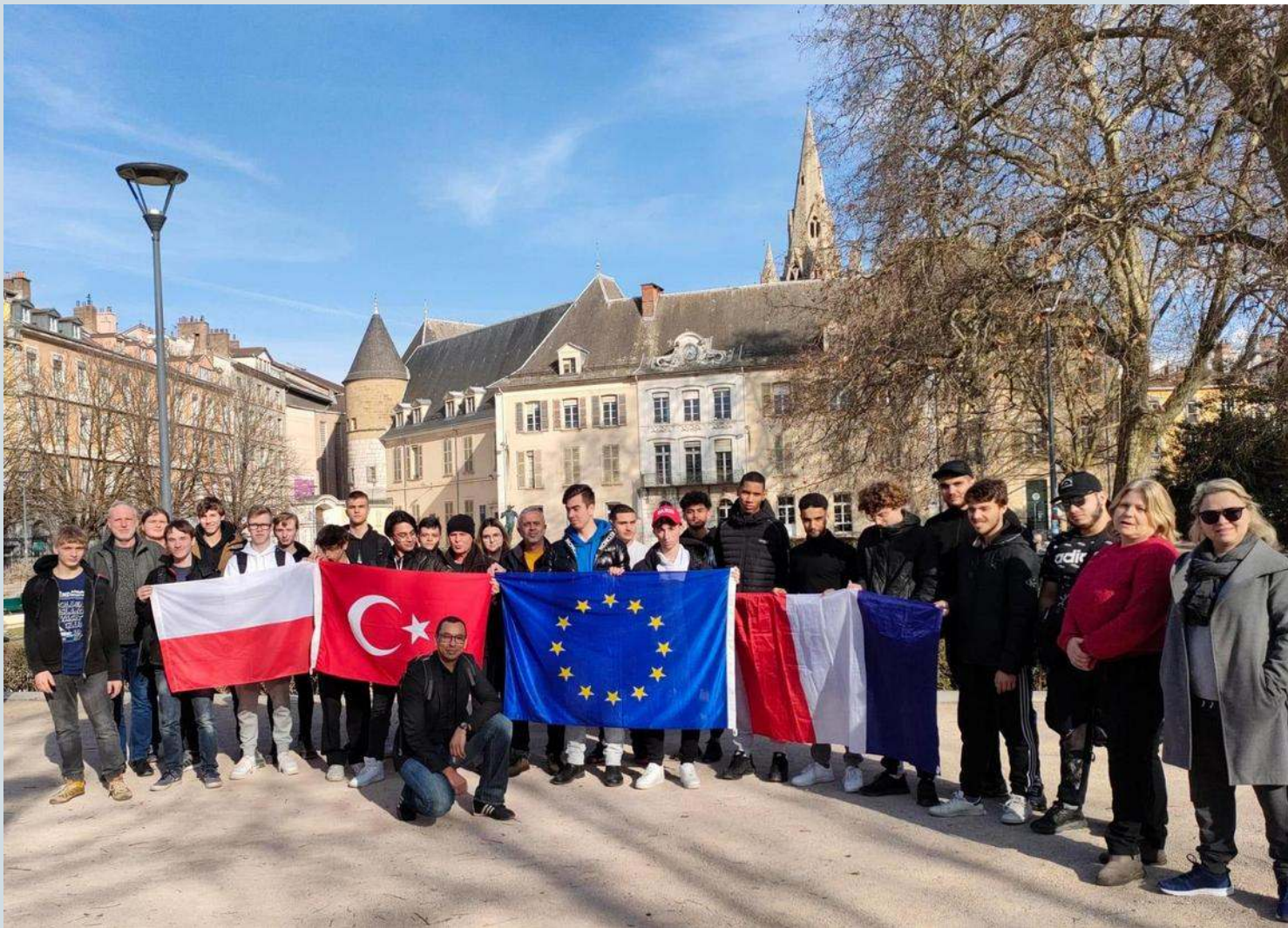




## GRENOBLE

# On our way to the Bastille

**We went to the Bastille and later we took a photo with the Turkish and Polish correspondents.**



**Grenoble Public Garden**  
**In the middle there is the Hercule Statue.**







# BASTILLE



*Cable cars over the river*



*Waiting for the cable car*



*We took a photo on the top*



*In the background you can see the Belledonne chain of mountains*



*Walking down*



*Back from the Bastille*











# SAINT ETIENNE

The Saint-Etienne Mine Museum was founded in 1991. It shows us how life of French miners looked like in the past, what equipment they used. The coal mine was opened in 1850 and closed in 1973.

**The sightseeing tour was very interesting. We learned that even horses worked underground at that time.**



A group photo at the mine museum in Saint Etienne



# MUSEUM OF THE MINE



*The headframe of the Couriot well*



*The room where the miners hung their clothes*



*The staircase to the well*



*Inside the Mine Gallery*



*The great "travers-banc", the mine's main thoroughfare*



*The extraction machine room*



# MUSEUM OF THE MINE

This is a display case containing the numbered badges that miners used to access the mine.



*This cabinet represents the evolution of lamps. We go from the candle to the electric lamp.*



*This is a sculpture of a miner working in 1920.*



*Coal extraction*



# SAINT ALBAN - SAINT MAURICE

*On the afternoon of Wednesday 22 February, we travelled from Saint-Etienne to Saint-Alban by coach. We ate at a McDonald's. Then we headed for the Saint-Alban/Saint-Maurice nuclear power station. It has 2 pressurised water reactors. In 2022, it produced 15.96 TWh of electricity.*

**When we arrived, we gave our IDs for verification. We were then welcomed in the amphitheatre of the discovery area. We were given an hour-long presentation.**



## Visit the BLUE building

We were split into 2 groups (French-speaking and English-speaking). We then set off to visit the non-nuclear area of the plant. We discovered the 74-metre-long turbo-alternator, then the condenser, and finally the HV/HVB transformer.



# NUCLEAR POWER PLANT



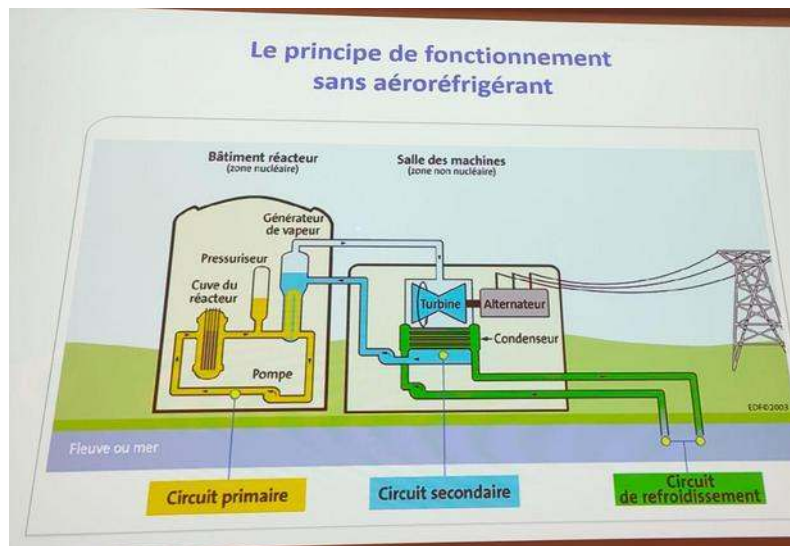
*The discovery area amphitheatre*



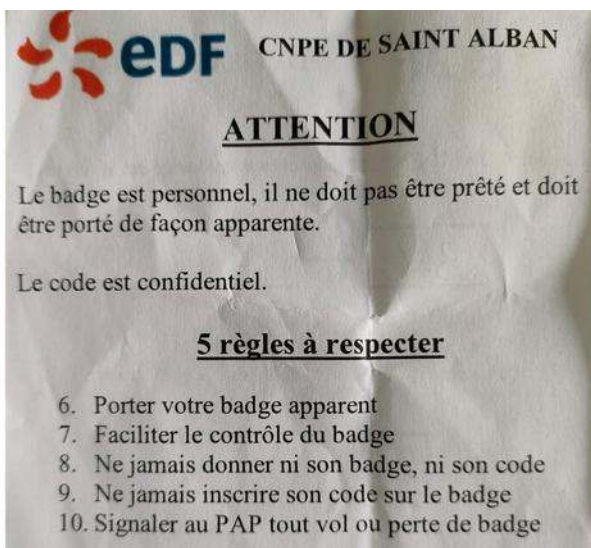
*The discovery area amphitheatre*



*The 58 nuclear reactors spread over 19 sites*



*Nuclear power plant without air cooler*



*Instructions on how to use the badge*



*Reactor building and the YELLOW building, machine room*





# PRACTICAL WORK

On Thursday we went to **PABLO NERUDA HIGH SCHOOL**

PABLO NERUDA HIGH SCHOOL is a well-equipped school. It has fantastic facilities for head cable, electrical box, high voltage and solar panel trainings.

Students were divided by teachers into several transnational groups to do different tasks.

Each student took part in two workshops. We started with learning safety rules.

After that we went to the workshop to do the tasks.

Actually, it was one of the best days because I acted as a real electrician .

All the students were very hardworking.

I loved this job !



# HEAD CABLE

We're in the process of cutting off the old cable head with the rack and pinion cutter.

Sebastian and Maksymilian (ZSET)



We're cutting the cable head with the hacksaw.

Lovepreet (LPN)



Stripping the outer sheath (PVC).

Imran (LPN)



The cable head is finished.

Emirhan (MSMTAL)



# ELECTRICAL BOX

We had to look for the cables.



Every student was working on an electrical cupboard.



We had to use a torch.



Later we started cabling.



# HIGH VOLTAGE

## PW - HV circuit breaker maintenance

Kacper (ZSET) is opening the double switch disconnector using the crank. Then the DM2 cell is earthed.

Maksymilian (ZSET) is in the process of carrying out the VAT (Verification of Absence of Voltage) on the DM2 cubicle. This will enable us to carry out maintenance on the HV circuit-breaker cubicle.



## PW - HV fuse maintenance

Jakub (ZSET) is in the process of separating and locking the TGBT circuit-breaker using the crank handle, so that he can work on the QM1 high-voltage cell.

Lufti (MSMTAL) is in the process of carrying out the VAT, checking that the QM1 cell is voltage-free. In order to be able to carry out maintenance on the HV switch-fuse holder cubicle.



# SOLAR PANELS

## GROUP 1

We worked on the solar panels.



We positioned the tarcks and screw them together.



We fixed the tracks to lay the solar panels.

Then we cabled them.



# SOLAR PANELS

## GROUP 2

First we sorted out the tracks.



Then we put them outside.



We put the panels.



We fixed the panels.





# THE LAST DAY

## On the 24th of February in the morning,

On Friday, we organised Erasmus Days, the project students welcomed the school community of Pablo Neruda during the morning break. French students could learn about our S2WRE project. Live conversation with French students was a fantastic experience for us.

We decorated the hall with flags, balloons and other colourful decorations. Polish and Turkish teams had their separate tables. There were various games and activities about Poland, Turkey and Erasmus+ project. The reward, for solving the task correctly, was a small snack, a croissant, a glass of orange juice or a small Erasmus+ gadget.



# S2WRE DAY - ERASMUS DAY



*Erasmus Day Friday 24th of February 2023*



*Polish flag and European flag games*



*Turkish flag and European flag games*



*Discussion with students about the Erasmus S2WRE project*



*Sebastian, Jakub, Oliwia and Enzo*



*Turkish, French and Polish electrical teachers*



## EVALUATION

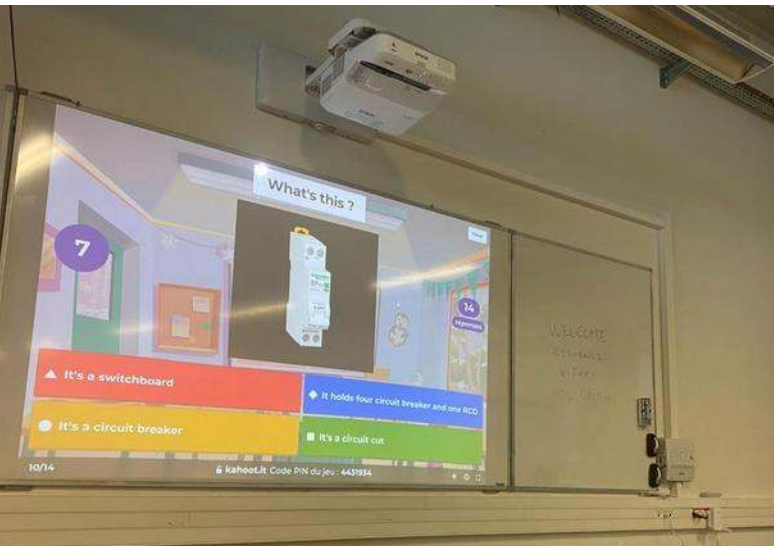
# KAHOOT

**On the 24th of February in the afternoon, we did activities on Kahoot to check our knowledge about renewable energy and against climate change.**





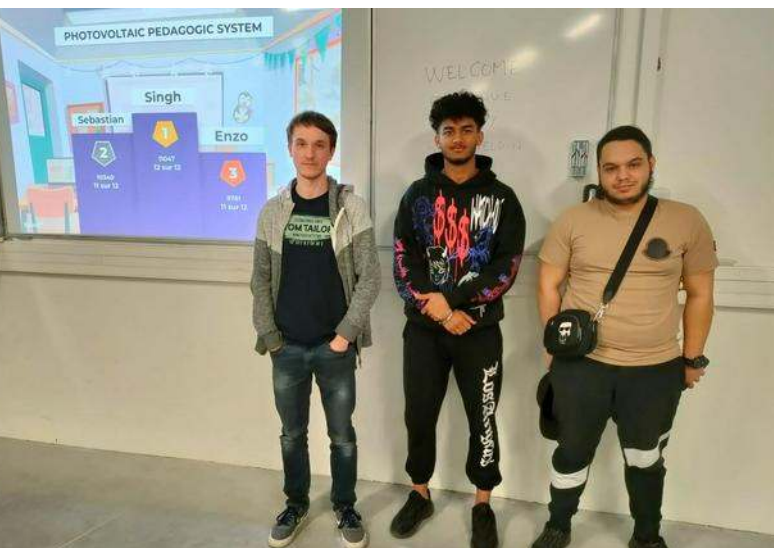
# KAHOOT QUIZ



*Question about electrical equipment*



*Students doing a quiz*



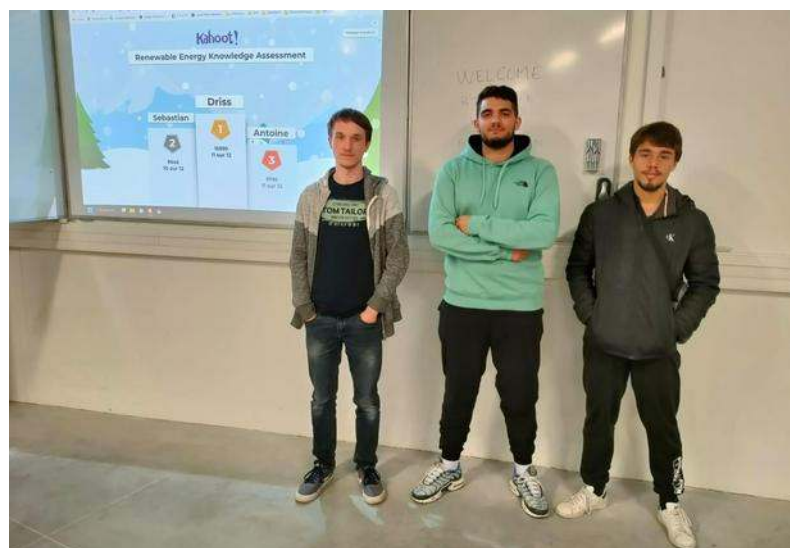
*The podium*



*The quizz in English*



*Our English teachers giving instructions*



*The podium*



## EVALUATION

# WOOCLAP

**On the 24th of February in the afternoon, we did activities on Wooclap to evaluate our mobility.**





# WOOLAP



*Survey Evaluation of the Mobility in France - Wooclap.*



*78% of students and teachers agree that international teamwork was effective in writing the charter.*



*76% of the students and teachers agreed that the international teamwork was effective during the PW on the solar panels.*



*100% of students and teachers agreed that the practical work was interesting and motivating.*



*90% of students and teachers say their English has improved.*



*100% of students and teachers want to participate in a new ERASMUS mobility.*





# TOWN HALL SAINT MARTIN D'HERES

We were invited in the Town Hall of SMH, where we met the Mayor.

On Friday afternoon, from 4pm to 6pm, we went to Saint-Martin-d'Hères town hall. We were welcomed by the Mayor in the town hall's marriage hall. We were congratulated on our project with the other secondary schools. We talked to the mayor about the future buildings under construction, which will incorporate solar panels.

*We took a picture of the group.*

The municipal team pledged its support to the Turkish people in the wake of the terrible earthquake.

After the discussion, we were treated to a snack in another room.



# TOWN HALL



*Discussion with the mayor and his deputies*



*Welcome from the mayor and presentation of the project*



*Snack offered by Saint-Martin-d'Hères town hall*



*Lunch and discussion with town hall staff*



*Discussion between the teachers, the Turkish headmaster and the Mayor of Saint-Martin-d'Hères*



*All the teachers around the municipal team*



**CLOSING**

# EXCHANGE OF GIFTS

**Distribution of gifts from the ERASMUS+ France agency and CANOPE38 in Grenoble representing the eTwinning France agency.**



**TURKISH DELEGATION**

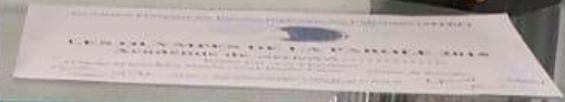














## CLOSING DINNER AND PARTY

For the last evening, we shared a moment in The Henri Fabre room. There was karaoke, a very delicious dinner with traditional French dishes and crazy dances. It appeared that Turkish students love dancing. Late in the evening, we said goodbye to our friends and went to the hotel to rest before the long journey home. Turkish students had to hurry for their Flixbus to Paris.

**A farewell party took place on Friday evening. The whole week was great fun but everything comes to an end...**



## KARAOKE

Everyone likes singing. Both teachers and students participated in this event. It was great to listen to French, Polish, Turkish and English songs. Mr Woźniak did the best performance.



## CLOSING DINNER AND PARTY



*The Turkish teacher singing and dancing*



*The Polish team singing*



*Everybody dancing*



*The meal we shared*



*Saying goodbye*



*So sad to leave*



# FRENCH GASTRONOMY

We ate in several French restaurants with traditional Dauphinoise and Lyonese cooking. The restaurants were all different, the architecture was sometimes modern, sometimes old or classic. It was delicious, the plates were very beautiful and colourful.



## Le Laurencin in Lyon

The restaurant Le Laurencin is located in Lyon, near the Cathedral Saint-Jean-Baptiste. It's an old building with stones. In this restaurant you can taste traditional Lyonese cooking. We all enjoyed the meals, it was a very nice gustatory experience.



# RESTAURANTS



*L'Atelier 44*



*Pizza du campus*



*Le Laurencin*



*Canteen of Pablo Neruda high school*



*Le Clos des Marronniers*



*Henri Fabre conferencing room, Pablo Neruda High School*



# GASTRONOMY



*Lamb mice and gratin dauphinois*



*Lyonnaise salad*



*Salmon steak with sorrel sauce and rice*



*Chicken, gratin dauphinois and carrots*



*Gratin of ravioles and salad*



*Salmon puff pastry with spinach and salad*



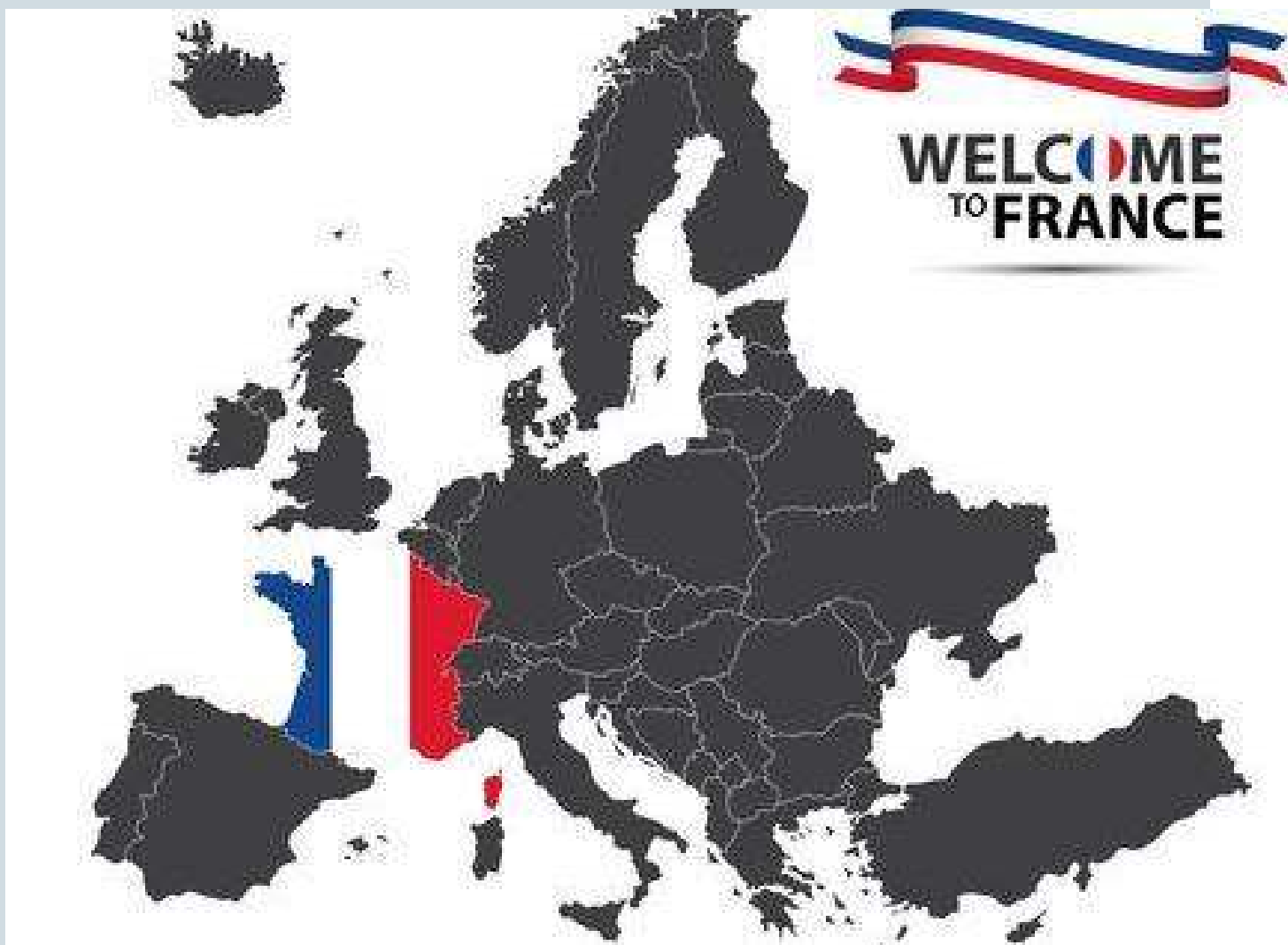




Merci - Dziękuję - Teşekkürler

## ANOTHER UNFORGETTABLE WEEK

**We would like to thank all the students, teachers, staff and management of LPN for their warm welcome.**







## DRISS

**I am Driss, I am seventeen . I study at Pablo Neruda Vocational High School. I am in the second year of National Vocational Qualification which is called CAP in English.**

I really enjoyed the mobility in France with the Turkish and Polish students.

I didn't go to Turkey and to Poland for personal reasons.

I participated in the project with the workshop activities and the English lessons to speak English with the Turkish and Polish students. I liked writing the Madmagz.

I really liked going up the Bastille because we can admire the town of Grenoble.

I also liked showing the town to my Turkish and Polish friends the places I really like.

With the project I visited for the first time a mine museum in Saint-Etienne and a nuclear plant EDF in Saint-Alban.

I really like doing the quizz because I was the best ! It's the proof I remember the lessons !

The last day we went to the townhall to meet the Mayor of Saint Martin d'hères, David QUEIROS. He welcomed us with a bufffet and offered us gifts.

## LPN - 2CAP





## LOVEPREET

**I am Lovepreet Singh. I am in the Second year NVQ Electrician. I am going to talk about my Mobility in FRANCE.**

Hello I am Lovepreet . I'm Indian . I live in France . I speak English. In this mobility, I met international students and teachers. They came from Turkey and Poland.

In our first day we visited the city of Lyon. We walked to Fourvière to go to Esplanade de Fourvière and then we visited the Basilique.

The next day, we went to visit in Grenoble other places like *Campus EDF Hydro Alpes* and the Intencity Building by *Schneider Electric*.

On Wednesday we visited the Coal mine museum in Saint Etienne and The Power Plant in Saint Alban-Saint Maurice l'Exil.

We did practical work at school like Cables head preparation

Our last day we did the ERASMUS exhibition in the School hall, during a fifteen minutes break when all the students of the school were here.

We presented our mobility and we did the quizzes like asking questions, finding the countries on the map, finding the right flags, all about Poland and Turkey. When someone gives the correct answer, we give him or her something like fruit juice, croissant and chocolate bread and also small gifts, goodies from ERASMUS.

On Friday evening we had a farewell party and we had a delicious Dinner together. Then we said Goodbye because they went back to their home country. I was sad to leave my friends.

## LPN - 2CAP





## MAKSYMILIAN

**Hi!**  
**My name's Maks. I'm 17 years old. I'm a ZSET renewable energy student in Gdynia, Poland.**

I took part in the mobility in Saint-Martin-d'Herès, France.

One day, we visited EDF HYDRO ALPES training center. We could see how it works and how it's constructed. We also saw technology from Schneider Electric.

I took part in practical work activities related to high voltage and head cable at LPN school.

The best part for me, was the visit to the Nuclear Power Plant in Saint Alban - Saint Maurice. The chance to visit such a plant doesn't happen often.

We met a Polish student at LPN school, who joined us to visit *la Bastille*.

My favourite food was "*Gratin de ravioles*" - a traditional dish from that region.

I met a lot of great people and spent time with them. The atmosphere was really fantastic there.

I'm very happy that I could take part in the S2WRE Erasmus+ project and visit a small part of France. I'd like to experience it again.

## ZSET - 4U





## KRZYSZTOF

**Hi!**  
**My name's Krzysz.**  
**I'm 17 years old. I'm a ZSET**  
**renewable energy student**  
**in Gdynia, Poland.**

I took part in the last mobility in France. The trip to France was very exciting because it was my first flying experience.

We stayed at a very comfortable hotel in Saint Martin d'Heres, not far from LPN school, so we could walk to school or get to school by tram.

It was cool to meet with my French and Turkish friends again.

In France, I enjoyed sightseeing Lyon very much - the architectural heritage of this city is really remarkable. Bastille was another place which I liked so much - the panorama of Grenoble and Alps was unforgettable.

It was great that we had a possibility to visit a nuclear power plant and see it from inside.

On the day of practical works, I took part in high voltage and electrical box workshops. LPN school is very well-equipped, so it was fantastic experience to have workshops there.

The food was very delicious, especially French *ravioles*. I also liked the fish that we had at LPN school last evening.

I'm very pleased that I'm taking part in S2WRE Erasmus+ project.

## ZSET - 4U





## TAHA

**Hi!**  
**My name's Taha. I'm 18 years old. I'm a MSMTAL electrical electronics student in Ankara, Turkey.**

Thanks to Erasmus, I went to France and had the opportunity to visit and see most of France. It was my childhood dream to see the Schneider Electric plant and when I went there I saw the working principles and the materials they use. Their layout and work was really good and I'm so glad to see it.

More importantly, I went to see a nuclear power plant, although I couldn't get into it, I saw and learned most of its principles from models. I would never find this opportunity again.

I did a lot of work at LYCEE PABLO NERUDA school. I learned high voltage, solar panel and main connections. This will be very useful for me in the future. I made many friends from France and had a lot of fun there. We got along very well as groups from France, Turkey and Poland, and we participated in many events together.

I am very happy to participate in the Erasmus+ project. It was a good and productive period. I would like to participate again. Thank you to everyone who contributed.

## MSMTAL - 12K





## ANOTHER UNFORGETTABLE WEEK



### YOUTUBE

If you want to see our video of the Hippocrene Foundation :  
[CLICK HERE](#)

### ESEP

If you would like to visit our eTwinning - TwinSpace project on the European School Education Platform (ESEP):  
[CLICK HERE](#)



## REDACTION

WRITTEN IN COLLABORATION  
WITH OUR THIRD MOBILITY  
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