PROJECT LOGO!!!

A four-partner strategy towards a more sustainable and greener Europe

Activities **before** Spain meeting (2018-February-5/9)

1. CO2 Energy impact
2. CO2 Transport impact

ACTVITY 01: HOW MUCH DOES OUR SCHOOL IMPACT ON CO2 EMISSIONS? (Research by students and showing presentation):

- STEP 1: Gather information about energy consumption: How much energy does our school spend in a year? (Kwh per year. Take information from invoices...)
  - Electricity (Kwh).
  - Natural gas (Kwh).
  - Liquid gas (butane, propane...) (Kwh).
  - Gasoil (Kwh).
  - Coal (Kwh).
  - Other (Kwh).
  - TOTAL AMOUNT= Kwh

- STEP 2: Impact of CO2 emissions. How much CO2 does our school emit per year? Multiply the energy consumed by the emission factor indicated in the following table:

  - Electricity. (Emissions depends on each region. Search information of your country! You can find it in an invoice... Example: Spain average electricity emissions 0,250 Kg/Kwh)
  - Natural gas (0,204Kg/Kwh)
  - Liquid gas (butane, propane...) 0,234Kg/Kwh)
  - Gasoil (0,2628 Kg/KWh)
  - Coal (0,402 Kg/Kwh)
  - Other (indicar).
  - TOTAL= Kg

- STEP 3: Economic impact. How much is the total bill in € per member?
- STEP 4: Five things we can do to reduce CO2 school emissions.

Show data in one PDF slide (example in page 4).

ACTVITY 02: HOW DO CO2 EMISSIONS FROM TRANSPORT THAT SCHOOLCHILDREN USE AFFECT US? (Choose a sample, about 18/24... for example students and teacher involved in ERASMUS+/ECOSTRAT):

- STEP 1 Wich transport do you use to go to school? Which distance do you travel with each one?
  - Railway.
  - Tram.
  - Bus.
  - Motorbike.
  - Private car.
  - No contaminants (walking, bicicle, skate...)
- STEP 2: ¿How much impact does each transport have? (round-trip. Multiply distance km x factor indicated).
  - Railway 14gr/km passenger
  - Tram. 14gr/km passenger
  - Bus. 68gr/km passenger
  - Motorbike. 72gr/km passenger
  - Car. 105gr/km passenger
  - No contaminants (walking, bicicle, skate...). 0gr/km passenger
  - TOTAL= gr CO2
- STEP 3: How much is the average value per student in our school?
- STEP 4: Five things we can do to reduce CO2 transport students emissions...

Show data in one PDF slide (example in page 5).

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CO2 EMISSIONS IMPACT IN OUR SCHOOL

OUR SCHOOL IS SPENDING FOLLOWING ENERGY PER YEAR

X kwh de electricity
Y kwh de natural gas
Z kwh de coal

TOTAL= X+Y+Z

OUR SCHOOL PRODUCES THE FOLLOWING CO2 EMISSIONS

X kg from electricity
Y kg from natural gas
Z kg from de coal

TOTAL= X+Y+Z

(Other relevant information)

Our school has 950 students + 115 staff. We emits N kg CO2 per each member.
Economic impact: XXXX€

What can we do to reduce our CO2 emissions?

- IMPROVE ASPECT 1
- IMPROVE ASPECT 2
- IMPROVE ASPECT 3
- IMPROVE ASPECT 4
- IMPROVE ASPECT 5

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CO2 STUDENTS TRANSPORT IMPACT TO COME TO SCHOOL

A SAMPLE OF 24 STUDENTS AND TEACHERS HAS BEEN INVESTIGATED. THEY NEED TO USE THE FOLLOWING TRANSPORT TO ARRIVE AT SCHOOL

Car
Train
Bus
Bicycle

AVERAGE CO2 EMISSION PER EACH MEMBER (ROUND-TRIP):

X

(Other relevant information))

What can we do to reduce our CO2 emissions in transport?

- IMPROVE ASPECT 1
- IMPROVE ASPECT 2
- IMPROVE ASPECT 3
- IMPROVE ASPECT 4
- IMPROVE ASPECT 5