

PROJECT  
LOGO!!!



Erasmus+



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

# PROJECT LOGO!!!



# Erasmus+



## ACTIVITY 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).

# PROJECT LOGO!!!



# Erasmus+



**ACTIVITY 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, bicycle, 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, bicycle, 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).

# PROJECT LOGO!!!



Erasmus+

IES Fernando Aguilar Quignon

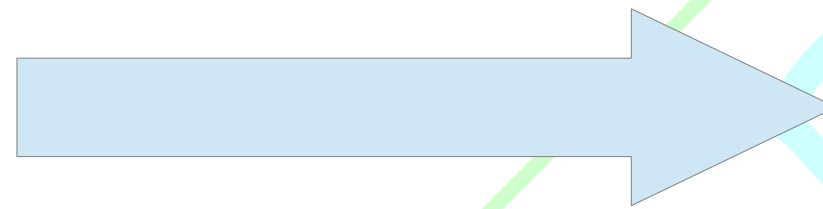


## CO2 EMISSIONS IMPACT IN OUR SCHOOL

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



**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**

