



Bilan Carbone du L2EP pour 2022

L2EP GHG emissions during 2022

AG/GA L2EP - 11 March 2022 - loic.chevallier@univ-lille.fr

✓ **ONU/UN « Accords de Paris », 2015:**

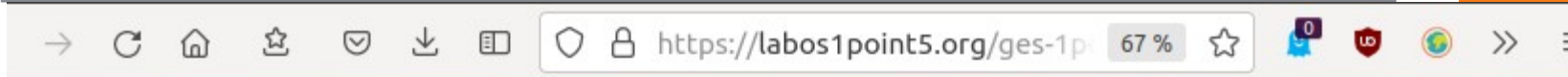
- +1.5°C vs. pre-industrial era, carbon neutral (2050),
- Europe : 2020 (-20 % vs. 1990), 2030 (-55%),

✓ **French research laboratories:**

- CPU/CNRS 2020: carbon footprint (BEGES), GdR Labos1p5,
- Part of evaluation (HCERES),

✓ **L2EP and its 4 establishments:**

- Lille University: DDDRS, BEGES 2015/2020: commuting, GT Lab.,
- Centrale Lille: DDD, BEGES,
- Arts et Métiers Lille: E2D2, BEGES (volunteer Thomas Roillet),
- Junia: DDDRS, RSE, BEGES



- DOCUMENTATION
 - Methodology
 - Help
 - Data protection
 - The team GES 1point5
- DATA
 - Introduction**
 - Boundaries
 - Buildings**
 - Digital devices New
 - Vehicles
 - Business travel
 - Commuting
- RESULTS
 - Regulatory inventory
 - Carbon footprint & submission

i Introduction

GES 1point5, developed by Labos 1point5, is a tool aiming at calculating the carbon footprint and building the greenhouse gas (GHG) inventory of your laboratory.

The goal of this tool is twofold:

- Carry out scientific studies relating to the carbon footprint of French public research. Our current research field is limited to France, including its overseas territories.
- Bring food for thought on the levers for action to reduce the impact of research activities on GHG emissions, at the national as well as at the local level of the laboratory.

Thank you for **carefully reading the guidelines** (methodology and help) before starting and contacting us.

How to cite *An open-source tool to assess the carbon footprint of research.* Jérôme Mariette, Odile Blanchard, Olivier Berné, Tamara Ben-Ari. bioRxiv 2021.01.14.426384; doi: <https://doi.org/10.1101/2021.01.14.426384>.

Why use GES 1point5?

Contribute	Contribute to an emerging scientific	Involve	Involve the staff members	Share	Share a common methodology	Account for	Account for the specificities of the research	Promote	Promote open access digital
-------------------	---	----------------	----------------------------------	--------------	-----------------------------------	--------------------	--	----------------	------------------------------------



✓ ***Anonymous, each year possible (stored)***

✓ ***5 Categories:***

- Buildings + consumption (heating/cooling, other electricity),
- Vehicles, owned by the laboratory,
- Business Travel, e.g., conferences,
- Digital devices, e.g., computers, printers,
- **Commuting, i.e., home-work daily travels,**

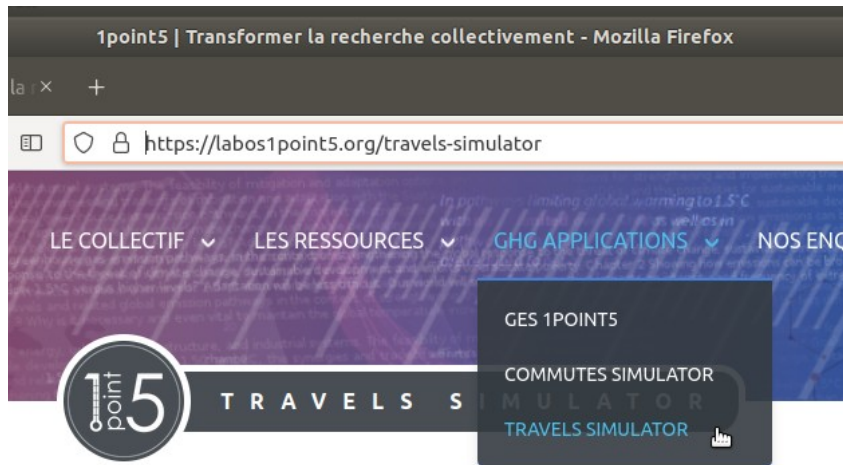
✓ ***Team (this year) per building/establishment:***

- Lille University:
 - ESPRIT: Loïc Chevallier, Anouchka Loeuil,
 - IRCICA: Anis Kaci, Geremie Postdam,
- Centrale Lille: Xavier Cimetière, Kongseng Bounvilay,
- Arts et Métiers Lille: Christophe Giraud-Audine,
Thomas Roillet, Daniel Marin,
- Junia: Christophe Saudemont, ... (in progress)
- + others...

<http://labos1point5.org/commutes-survey/e67ed86e-1796-4673-96de-071ec6994c88>

It starts today (+1week):

- Anonymous, answer once please,
- fr/en, 5 questions, 3mn,
- Travel distance (A/R, Round trip):
 - OpenStreetMap,
 - <https://labos1point5.org/travels-simulator>



Simulator of your professional travels
Please enter the city of departure, destination and mode of travel for each section of your travel, one at a time. The calculations performed and the emission factors used are the same as in [GES 1point5](#).

Simulator of your professional travels
Please enter the city of departure, destination and mode of travel for each section of your travel, one at a time. The calculations performed and the emission factors used are the same as in [GES 1point5](#).

TOTAL DISTANCE (UNDERSTAND CALCULATION) 13 km	CARBON FOOTPRINT (UNDERSTAND CALCULATION) 0 ± 0 kg CO2e	CARBON FOOTPRINT (WITH CONTRAOLS) ... kg CO2e
--	--	--

Round trip

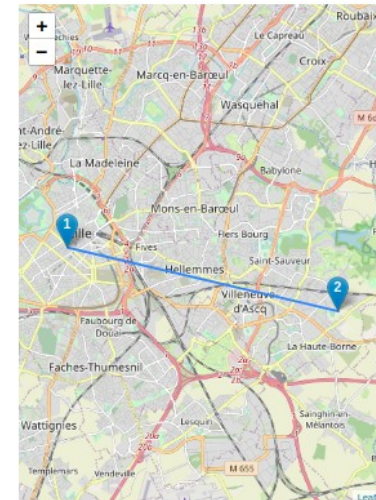
Section 1-2

Travel mode *
Subway

Departure city *
Lille

Destination city *
Villeneuve-d'Ascq

[Delete a section](#) [Add a section](#)



L2EP many years Carbon Care activities

<https://l2ep.univ-lille.fr/carbon-care>

loic.chevallier@univ-lille.fr

Please welcome this new initiative

THANK YOU for your attention

APPENDICES

Details on commuting poll

Question 1

You are *

- a researcher or a professor
- an engineer, a technician, an assistant engineer, research support staff
- a PhD student or a Post-Doc

« Previous

Next »

Question 2



In 2021, on average, when you were not on holidays and not locked down, how many days per week did you go to your workplace ? *

4 days per week



« **workplace** » = place where you do your research or research-support activity.

Example :if you teach in one location and do your research in another location, please only consider your research location.

« Previous


Next »


Question 3


Which means of transportation did you take for your most frequent standard commute in 2021?
(you may enter a second standard commute after if you have very different commutes in the same week)

 Walking

 Bike

 Electrically
assisted
bike

 Electric
scooter

 Motorized
two-
wheeler

 Car

 Bus

 Tramway

 Train

Paris
suburban
express
railway
including

RER

 Subway

« Previous

Next »

Question 4

What total ROUND TRIP distances did you travel for your most frequent standard commute in 2021 ?

If you don't know the distance, you can refer to [openstreetmap](https://www.openstreetmap.org/). For public transportation modes, you may refer to the distances traveled by car. Please DO NOT take into account any possible detours (bakery, children's drop-off at school, etc.)

Round to the nearest integer.

Total ROUND TRIP distance in subway (km / day) *

 5



Total ROUND TRIP distance in train (km / day) *

 15



Question 5

Do you have a second frequent standard commute to add in 2021 ?

Yes

No

« Previous

Preview before submission »

i Commutes in 2021

Here is the summary of the answers:

- Position: an engineer, a technician, an assistant engineer, research support staff ;
- No of commuting days : 4 ;
- During a standard commute, distances traveled are :
 - 15 km by train ;
 - 5 km by subway ;

Leave a message to the survey administrator (optional)

[← Edit my answers](#)

[Submit ↗](#)

i Commutes in 2021

Thank you for responding to this anonymous survey. Here is the summary of the answers:

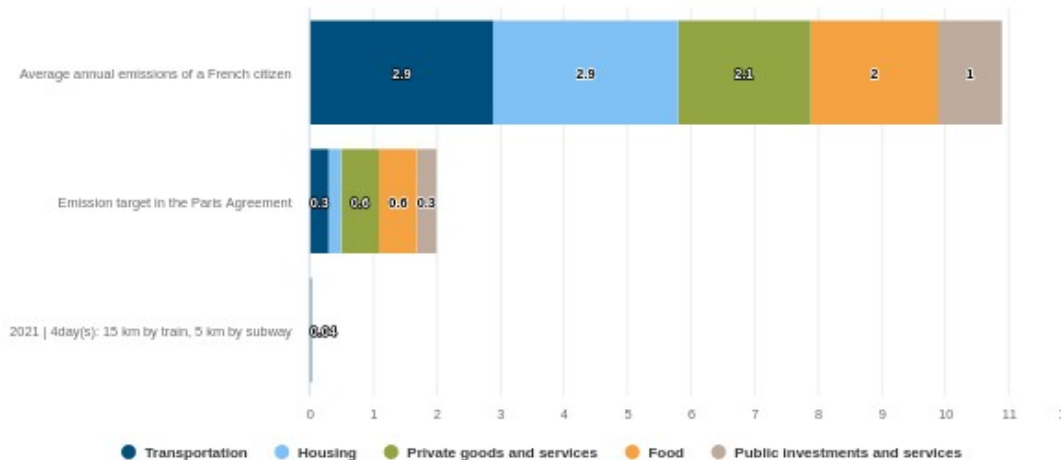
- Position: an engineer, a technician, an assistant engineer, research support staff ;
- No of commuting days : 4 ;
- During a standard commute, distances traveled are :
 - 15 km by train ;
 - 5 km by subway ;

To estimate emissions in 2021, the calculations are made over 37 weeks: they are calculated on the basis of 41 work weeks per year excluding covid, less the 4 weeks of the lockdown of 2021 (winter). We make the assumption that there was no on-premise call and no leave.

To compare these emissions with other commutes scenarios, you can use our [commutes simulation module](#) .

ANNUAL DISTANCE
2 960 km

ANNUAL EMISSIONS
43 ± 24 kg CO2e



* Source [Carbone 4, 2019. Faire sa part ? Pouvoir et responsabilité des individus, des entreprises et de l'État face à l'urgence climatique.](#)