

## LIST OF DATA SOURCES & MODEL FOR AVAILABLE SEATS ESTIMATE

GREEN BOND IMPACT REPORTING

**MARCH 2021** 

List of the data sources EUROFIMA used to produce the Impact Report.

## Source of data (1/2)

Average Petrol Autra Consumption - Traveil ACTP Colculated (Colculated Colculated Colcul	Factor	Short name	Source	Page	Value
8 of lime troveled in a Motorway  1 Mg Assumption  1 Mg A	Average Auto Consumption - Motorway	ACM	Ecopassenger Methodology Report	Page 17	
Ke of time troveled in Rural roads         Fixed         Assumption         Centural road         A GPD         Colculated         Centural road         A GPD         Colculated road         Centural road         A GPD         A CEAL floated troad         Centural road         Centural road         A GPD         A CEAL floated troad         Centural road         Centural road         A CEAL floated troad         Centural road         Centural roa	Average Auto Consumption - Rural	ACR	Ecopassenger Methodology Report	Page 17	
Average Auto Consumption - Troval         ACTI         Colculated	% of time traveled in a Motorway	TM%	Assumption		50%
Average Diesel Auto Consumption – Trovel         ACTD         Colculated         Colculated           Average Petrol Auto Consumption – Trovel         ACTD         Colculated         - Colculated	% of time traveled in Rural roads	TR%	Assumption		50%
Average Patrol Auto Consumption - Troval         ACT D         Colculated         Colculated           % of Diesel cors in the Europeen Fleet         0.0%         ACREA (fleet type)         Condition         Condition           Average Auto Consumption         PC%         ACREA (fleet type)         Concludated         PCM           Average Auto Consumption         AC         Colculated         PCM         PCM           Passengers per kilometer by country/mode of operations         pkmC         EU Statistical pockethook 2019         PCM         PCM           Available search by country/mode of operations         pkmC         EU Statistical pockethook 2019         PCM	Average Auto Consumption - Travel	ACT	Calculated		
% of Diseal cars in the Europian Fleat         DCK         ACEA (fleet typa)         Center (from the Europian Fleat)         Center (from the Europian Fleat)         Center (fleet typa)         Center (fleet typa) <t< td=""><td>Average Diesel Auto Consumption – Travel</td><td>ACTD</td><td>Calculated</td><td></td><td>4.9 I/100km</td></t<>	Average Diesel Auto Consumption – Travel	ACTD	Calculated		4.9 I/100km
Ke Petrol cars in the European Fleet         PCK         AECA Gleiser Instell         Cerupon verbilder         Cerupon verbilder market stristics         Cerupon verbilder         Cerupon verbilder market stristics         Cerupon verbilder         Cerupo	Average Petrol Auto Consumption – Travel	ACTP	Calculated		6.7 l/100km
Average car weight         Europeon vehicle market statistics         Cended	% of Diesel cars in the European Fleet	DC%	ACEA (fleet type)		42%
Average Auto Consumption         AC         Colculated         Colculated           Passengers per kilometer by item of equipment         pkmC         EU Stristical posethbook 2019         Colculated           Available searts by country/mode of operations         AvSC         SCI Verkher CmbH         Colculated           Available searts by specific item of equipment         AvSC         SCI Verkher CmbH         Colculated           Available searts by specific item of equipment         AvSC         SCI Verkher CmbH         Colculated           Available searts by specific item of equipment         AvSC         SCI Verkher CmbH         Colculated           Available searts by specific item of equipment         AvSC         SCI Verkher CmbH         Colculated           Available searts by specific item of equipment         AvSC         SCI Verkher CmbH         Colculated           Baseline Office demissions per pkm, evolded         EBA         BU Dosnomy         AvSC         AvX.124.1Page 329         280 gt           Baseline Office demissions per pkm, educed         EBR         BU Dosnomy         Colculated         AvX.124.1Page 329         390 gt           Project savings (COZ) as reduced emissions         PSCDR         Colculated         Colculated         Colculated         Colculated         CV         CV         CV         CV         CV <td>% of Petrol cars in the European Fleet</td> <td>PC%</td> <td>ACEA (diesel vs petrol)</td> <td></td> <td>53.9%</td>	% of Petrol cars in the European Fleet	PC%	ACEA (diesel vs petrol)		53.9%
Passengers per kilometer by country/mode of operations pkmT Colculated pokentbook 2019 (and continued to perations) pkmT Colculated pkmH (colculated pkmH) (colculated emissions pkmH) (colculated p	Average car weight		European vehicle market statistics	Page 53	1395 kg
Passengers per kilometer by item of equipment Avsic Note Sci Verkerker 6mbH Available seats by country/mode of operations AvsC Sci Verkerker 6mbH Available seats by specific item of equipment AvsT Railways/Manufacturer data sheet Numbers of specific green items #ST Project Baseline GhG emissions per pkm, avoided EBA EU Taxonomy Art. 241, Page 329 280 gil Baseline GhG emissions per pkm, reduced EBR EU Taxonomy Art. 241, Page 329 90 gil Passenger per vehicle PV Ecopossenger Project savings (CO2) as reduced emissions PSCDR Colculated Project savings (CO2) as vavided emission PSCDA Colculated Project savings (CO2) as vavided emission PSCDA Colculated PV K Gov. GR Reporting- Conversion factors See table «Conversion factors 2020: condensed set (for most users). N20 emitted by energy unit- Diesel NXwhP UK Gov. GR Reporting- Conversion factors See table «Conversion factors 2020: condensed set (for most users). Project savings (CH4) as avaided emissions PSMHA Colculated Project savings (CH4) as reduced emissions PSMHA Colculated Project savings (N2O) as reduced emissions PSMHA Colculated Project savings (N2O) as reduced emissions PSMHA Colculated Project savings (N2O) as reduced emissions PSMRA Colculated Project savings (N2O) as reduced emissions PSMRA Colculated Project savings (N2O) as reduced emissions PSMRA Colculated Psecondary (PSMRA) PSMRA Colculated Psecondary (PSMRA) PSMRA Colculated Psecondary (PSMRA) PSMRA Colculated Psecondary (PSMRA) PSMRA Colculated PSMRA Colculated Psecondary (PSMRA) PSMRA Colculated Psecondary (PSMRA) PSMRA Colculated Psecondary (PSMRA) PSMRA Colculated PSMRA Colculated PSMRA Colculated PSMRA PSMRA Colculated PSMRA PSMRA Colculated PSMRA P	Average Auto Consumption	AC	Calculated		5.9 I/100km
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Available seats by country/mode of operations Avisible seats by country/mode of operations Avisible seats by specific item of equipment Avisible seats by specified item of equipment Avisible seats by specific green items Avisible seats b	Passengers per kilometer by item of equipment	pkmT	Calculated		
Numbers of specific green items #ST Project Project Semissions per pkm, avoided EBA EU Toxonomy Art. 24.1, Page 329 290 gt Baseline GNG emissions per pkm, reduced EBR EU Toxonomy Art. 24.1, Page 329 390 gt Passenger per vehicle Project savings (CO2) as reduced emissions PSCDR Colculated Project savings (CO2) as avoided emissions PSCDR Calculated PSCDR Colculated PSCDR P		AvSC	SCI Verkher GmbH		
Baseline ChG emissions per pkm, avoided EBA EU Toxonomy Art. 24.1, Page 329 90 gt Baseline ChG emissions per pkm, reduced EBR EU Toxonomy Art. 24.1, Page 329 90 gt Passanger per vehicle PV Ecopassenger Project savings (CO2) as reduced emissions PSCDA Calculated Project savings (CO2) as avoided emission PSCDA Calculated PSCDA Calculated Project savings (CO2) as avoided emission PSCDA Calculated PSCDA Calculated PSCDA Calculated PSCDA Calculated PSCDA Calculated Project savings (CO2) as avoided emission PSCDA Calculated PSCDA Calculated PscDA Project savings (CO2) as avoided emission PSCDA Calculated PscDA Project savings (CO2) as avoided emission PSCDA Calculated PscDA Project savings (CO2) as avoided emission PSCDA Calculated PscDA Project savings (CD2) as avoided emission PSCDA Calculated PscDA Project savings (CH4) as avoided emissions PSCDA Calculated PscDA Project savings (CH4) as avoided emissions PSCDA PS	Available seats by specific item of equipment	AvST	Railways/Manufacturer data sheet		
Baseline GhG emissions per pkm, reduced EBR EUToxonomy Art. 241, Page 329 90 gt Passenger per vehicle PV Ecopassenger PV Ecopa	Numbers of specific green items	#ST	Project		
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Project savings (CO2) as reduced emissions PSCDR Calculated Project savings (CO2) as avoided emission PSCDA Calculated Project savings (CO2) as avoided emission PSCDA Calculated PSCDA CAICULATED PSCDA CAICULATE	Baseline GhG emissions per pkm, reduced	EBR	<u>EU Taxonomy</u>	Art. 24.1, Page 329	90 gC02/pkm
Project savings (CO2) as avoided emission  CKWhP  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set (for most users)*  CKWhD  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set (for most users)*  CKWhD  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set (for most users)*  Conversion factors 2020: condensed set (for most users)*  CRWhD  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set (for most users)*  CRWhD  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set (for most users)*  CRWhD  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set (for most users)*  CRWhD  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set (for most users)*  Conversion factor	Passenger per vehicle	PV	<u>Ecopassenger</u>		1.5
CH4 emitted by energy unit- Petrol  CKwhP  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set [for most users], 0.0007.  CH4 emitted by energy unit- Diesel  NKwhP  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  NZO emitted by energy unit- Diesel  NKwhP  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  NZO emitted by energy unit- Diesel  NKwhP  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  NZO emitted by energy unit- Diesel  NKwhP  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  NZO emitted by energy unit- Diesel  NZO emitted by energy unit- Diesel set table *Conversion factors 2020: condensed set [for most users], 0.0006.  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  See table *Conversion factors 2020: condensed set [for most users], 0.0006.  See table *Conversion factors 2020:	Project savings (CO2) as reduced emissions	PSCDR	Calculated		
CH4 emitted by energy unit- Diesel  CKwhD  UK Gov- GG Reporting- Conversion factors  See table «Conversion factors 2020: condensed set (for most users)»  N20 emitted by energy unit- Petrol  NKwhP  NKwhP  UK Gov- GG Reporting- Conversion factors  See table «Conversion factors 2020: condensed set (for most users)»  N20 emitted by energy unit- Diesel  NKwhP  UK Gov- GG Reporting- Conversion factors  See table «Conversion factors 2020: condensed set (for most users)»  O.00033  Project savings (CH4) as avoided emissions  PSMHA  Calculated  Project savings (N20) as avoided emissions  PSNOA  Calculated  Project savings (N20) as reduced emissions  PSNOR  Calculated  Diesel Heating Value-by Kg  Energy consumption baseline per pkm, car  JBC  Mobitool.ch  Mobitool.ch  Mobitool.ch  Mobitool.ch  Mobitool.ch  Mobitool.ch  Mobitool.ch  Mobitool.ch	Project savings (CO2) as avoided emission	PSCDA	Calculated		
N20 emitted by energy unit- Petrol  NKwhP  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set (for most users)*  N20 emitted by energy unit- Diesel  NKwhP  UK Gov- GG Reporting- Conversion factors  See table *Conversion factors 2020: condensed set (for most users)*  O.0033:  Project savings (CH4) as avoided emissions  PSMHA  Calculated  Calculated  Project savings (N20) as avoided emissions  PSNDA  Calculated  Project savings (N20) as reduced emissions  PSNOA  Calculated  Project savings (N20) as reduced emissions  PSNOR  Calculated  Diesel Heating Value-by Kg  Energy consumption baseline per pkm, car  JBC  Mobitool.ch  Energy consumption baseline per pkm, diesel equipment  JBD  Ecopassenger Methodology Report  Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT)  JGA  Mobitool.ch	CH4 emitted by energy unit- Petrol	CKwhP	UK Gov- GG Reporting- Conversion factors	See table «Conversion factors 2020: condensed set (for most users)»	0.00071 kg/kWh
N20 emitted by energy unit- Diesel  NKwhP  UK Gov- GG Reporting- Conversion factors  Project savings (CH4) as avoided emissions  Project savings (CH4) as reduced emissions  PSMHR  Calculated  Project savings (N20) as avoided emissions  PSNOA  Calculated  Project savings (N20) as reduced emissions  PSNOA  Calculated  Project savings (N20) as reduced emissions  PSNOR  Calculated  Postor Calculated  Project savings (N20) as reduced emissions  PSNOR  Calculated  Diesel Heating Value-by Kg  Energy consumption baseline per pkm, car  Energy consumption baseline per pkm, diesel equipment  JBD  Ecopassenger Methodology Report  Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT)  JGA  Mobitool.ch	CH4 emitted by energy unit- Diesel	CKwhD	UK Gov- GG Reporting- Conversion factors	See table «Conversion factors 2020: condensed set (for most users)»	0.00002 kg/kWh
Project savings (CH4) as avoided emissions PSMHA Calculated Project savings (CH4) as reduced emissions PSMHR Calculated Project savings (N2O) as avoided emissions PSNOA Calculated Project savings (N2O) as reduced emissions PSNOR Calculated Diesel Heating Value-by Kg Heating Values Energy consumption baseline per pkm, car JBC Mobitool.ch Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT) JGA Mobitool.ch	N20 emitted by energy unit- Petrol	NKwhP	UK Gov- GG Reporting- Conversion factors	See table «Conversion factors 2020: condensed set (for most users)»	0.00064 kg/kWh
Project savings (CH4) as reduced emissions PSMHR Calculated Project savings (N20) as avoided emissions PSNOA Calculated Project savings (N20) as reduced emissions PSNOR Calculated Diesel Heating Value-by Kg Heating values Energy consumption baseline per pkm, car JBC Mobitool.ch Energy consumption baseline per pkm, diesel equipment JBD Ecopassenger Methodology Report Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT) JGA Mobitool.ch	N20 emitted by energy unit- Diesel	NKwhP	UK Gov- GG Reporting- Conversion factors	See table «Conversion factors 2020: condensed set (for most users)»	0.00331 kg/kWh
Project savings (N20) as avoided emissions PSNOA Calculated Project savings (N20) as reduced emissions PSNOR Calculated Diesel Heating Value-by Kg Heating values Energy consumption baseline per pkm, car JBC Mobitool.ch Energy consumption baseline per pkm, diesel equipment JBD Ecopassenger Methodology Report Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT) JGA Mobitool.ch	Project savings (CH4) as avoided emissions	PSMHA	Calculated		
Project savings (N20) as reduced emissions  PSNOR  Calculated  Heating values  Energy consumption baseline per pkm, car  JBC  Mobitool.ch  Energy consumption baseline per pkm, diesel equipment  Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT)  JGA  Mobitool.ch  Calculated  Heating values  Asset per pkm, diesel equipment  JBC  Mobitool.ch  Page 18  1.15	Project savings (CH4) as reduced emissions	PSMHR	Calculated		
Diesel Heating Value-by Kg  Energy consumption baseline per pkm, car  JBC  Mobitool.ch  Energy consumption baseline per pkm, diesel equipment  JBD  Ecopassenger Methodology Report  Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT)  JGA  Mobitool.ch  Mobitool.ch	Project savings (N20) as avoided emissions	PSNOA	Calculated		
Energy consumption baseline per pkm, car  Energy consumption baseline per pkm, diesel equipment  JBD  Ecopassenger Methodology Report  Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT)  JGA  Mobitool.ch  Mobitool.ch  Mobitool.ch	Project savings (N20) as reduced emissions	PSNOR	Calculated		
Energy consumption baseline per pkm, diesel equipment JBD <u>Ecopassenger Methodology Report</u> Page 18 1.15 Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT) JGA <u>Mobitool.ch</u>	Diesel Heating Value-by Kg		Heating values		45.5 MJ/Kg
Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT) JGA Mobitool.ch	Energy consumption baseline per pkm, car	JBC	<u>Mobitool.ch</u>		1.30 MJ/pkm
Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT) JGA Mobitool.ch	Energy consumption baseline per pkm, diesel equipment	JBD	Ecopassenger Methodology Report	Page 18	1.15 MJ/pkm
Average Energy Consumption of the Green Asset per Pkm (Other country)  JGA  Ecopassenger Methodology Report  Page 18  0.33	Average Energy Consumption of the Green Asset per Pkm (CH,AT,DE, FR,IT)	JGA	<u>Mobitool.ch</u>		
	Average Energy Consumption of the Green Asset per Pkm (Other country)	JGA	Ecopassenger Methodology Report	Page 18	0.32 Mj/pkm

DATA SOURCES

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List of the data sources EUROFIMA used to produce the Impact Report.

## Source of data 2/2)

Factor	Short name	Source	Page	Value
Project savings as reduced energy consumption	PSJR	Calculated		
Project savings as avoided energy consumption	PSJA	Calculated		
Heating value by liter -Petrol	HVP	Heating values		33.9 MJ/I
Heating value by liter- Diesel	HVD	Heating values		36.7 MJ/I
Reduction in fuel consumption- Avoided	RFCA	Calculated		
Reduction in fuel consumption- Reduced	RFCR	Calculated		

							E464							
Type of coaches	2nd class Seats	1st class Seats	Driving trailer Seats	2nd class coaches - #	1st class coaches - #	% of usage	Seats (whole formation)		Unitary book value - Coaches	Unitary book value - Loco	Formation value	# green loco	# green coaches	# Complete formations
MD	82	72	60	3	2	52.6%	450	250.6	174,777 €	1,318,067 €	2,366,730 €	246		
PR	100		76	5		15.8%	576	348.7	143,212 €	1,318,067 €	2,177,336 €	246		
Vivalto	126	90	90	3	2	31.6%	648	128.6	887,524 €	1,318,067 €	6,643,208 €	246	248	41

Seats of the average formation

532 4 227.6

							E403							
Type of coaches	2nd class Seats	1st class Seats	Driving trailer Seats	2nd class coaches - #	1st class coaches - #	% of usage*	Seats (whole formation)	Seats weighted by loco Value	Unitary book value - Coaches	Unitary book value - Loco	Formation value	# green loco	# green coaches	# Complete formations
IC - Gran comfort	74	52	59	5	3	35%	585	399.4	187,057 €	3,623,293 €	5,306,805 €	23		
UIC Z1	66	54	64	5	3	40%	556	316.7	304,211 €	3,623,293 €	6,361,193 €	23		

Seats of the average formation

427.2 266.5

- 1) In case of a locomotive pulling/pushing a set of passengers cars (i.e. E464 and E403 of FS), the number of available seats depends on the frequency of use of the specific configurations that are utilized and the on coaches, in terms of type and numbers, which forms the relevant configuration (i.e. the loco E464 carries 52.6% of the time 3 second class (82 seats available each), 2 first class (72 seats available each) and 1 driving trailer (60 available seats) of the coach type MD)
- 2) As we did not finance always the entire configuration, but only the Locomotive, we weighed the available seats as pro rata of the book values, as provided to us by FS (i.e. for the coach MD: 450\*1.318.067/2.366.730=250,6)

- 3) Starting from this data, provided by FS, we can estimate the seats that the average loco-coaches configuration carries, weighing the available seats of a configuration with the frequency of utilization (i.e., for the locomotives E464: 250,6\*52,6%+348,7\*15,8%+128,6\*31, 6%=227,6)
- 4) In case we financed also the coaches (i.e. Vivalto), we estimated the numbers of complete configurations (in this case, 41, as we financed 248 Vivalto coaches an and each configuration requires 6 coaches) and use the total available seats for the configuration (648)
- 5) To avoid a double counting, the savings of the Vivalto coaches are not considered and put to zero

<sup>\*</sup>Assumed that 25% of the loco run during the night and are excluded from the estimation

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Asset class	Available seats	Notes
CLASS 2400 CFL	334	
M6 SNCB	80	
RABE 511, 6 CARS	526	
RABE 514	384	
RABE 521	161	
RABE 522	161	
RABE 523	161	
RABE 503	422	
CIVIA 465	277	
E464 (Complete configuration with Vivalto coaches, 41 items)	648	See specific table on FS locomotives
E464 (Average configuration, 205 items)	227.6	See specific table on FS locomotives
VIVALTO	-	See specific table on FS locomotives
E403 FS	266.5	See specific table on FS locomotives
RABE 511, 4 CARS	350	
CLASS 449	263	
CIVIA 463	169	
CIVIA 464	223	
GTW2/6 E SBB	106	
GTW2/8 E SBB	162	
S-104	237	
S-114	237	
ETR 324 JAZZ	202	
ETR 425 JAZZ	290	
MINUETTO E	169	

LIST OF AVAILABLE SEATS BY ASSET CLASS