WHOLE FLEET





Electric transport

NIINIVIRTA IS ECO-FRIENDLY

The first company, in Italy, to make deliveries in urban areas using 100% e-trucks.

Our biggest challenge in this century is to realize an idea that seems abstract: sustainable development.

Trucks account for less than 2% of the vehicles on the road but 22% of CO_2 emissions from road transport.



3,5 TONS E-VAN



1x Renault Master Z.E. Payload: 1200 kg - 5 PLT Range: 150 km

UP TO 7,5 TONS





1x EMOSS DAF LF 75 Payload: 2100 kg - 10 PLT Range: 170 km 1x FRAMO MAN 75 Payload: 2100 kg - 12 PLT Range: 140 km

UP TO 10 TONS



3x SMITH 100 Payload: 3290 kg - 15 PLT Range: 200 km

UP TO 12 TONS



1x NEWTRON IVECO Payload: 4000 kg - 15 PLT Range: 250 km



1x EMOSS DAF LF 120 Payload: 4130 kg - 15 PLT Range: 250-300 km

UP TO 14 TONS





2x EMOSS DAF LF 140 Payload: 6000 kg - 15 PLT Range: 200-250 km 1x EMOSS DAF LF 140 SWAP BODY Payload: 8650 kg - 18 PLT Range: 150-200 km

UP TO 18 TONS





2x EMOSS MAN 180 SWAP BODY Payload: 9000 kg - 18 PLT Range: 250-300 km **1x EMOSS DAF 180 SWAP BODY** Payload: 9000 kg - 18 PLT Range: 350 km

NIINIVIRTA DISTRIBUTION











HELSINKI

emoss

47-BHL-

NIINIVIRTA FLEET 16

VANTAA

ELECTRIC

NIINIVIRTA FLEET 17

Vaikka sher ice

Monitoring system #1

GREEN ROUTER

Since 2017 Niinivirta cooperates with Green Router.

Green Router monitors, analyses and provides UNI EN 16258 certified reports.

Single or multiple trip reporting

GReen CO₂ Emissions Report: Energy consumption and GHG in accontactor with EN 16258 Filmers. From 01/01/2017 To 31/12/2018 Report summary Niinivirta prova Na. of trips: 538 Transporttype Distance % out of total Goods weight (ton) % out of total ##1,01 3mm 1080,000 % Plat Truck Land (PTL) 48.118.30 PDI Temperature Distance % out of total Goods weight (ton) % out of total Antennet 41 195 3976m 700.00 % 881,07 No. 100,00 % Bulk trampot details: Means of bumport Empty return diatance Average Weight - Pill Average Distance by trp Bertel 110.000.76 00.22 Hits Means of transport Distance 'S out of total weight (ton) 'S out of total Tonnellals 'Km WWW Emissions 'S out of total 42.158.30 Nim 100.01% 881.01 has 100.80% 78.125.71.50% 87.49 km CO26 Read 110.011 % Total 43.158.29 Ret 100.08 % BR1.91 ton 100.00 % 78.199.71 ses*Ret 27.49 bas CO2# 100.00 5 E Read a Rail 120.0% 0.0% Maritime III Air Planiulta mattern and ampanets. Value well-ter-wheels slived aministers 27.44 Manuel Color 100.000 Intern COLD and nell-to-wheels enelling comparison 208.25 Tank-to-wheets energy consumption: 255.77

Reporting emission of CO₂

Company Scope	Transport type Trip s	tructure Description	Departure date/time	Freight type	Weight of freight	
Viinivirte prove 3	Rull Truck Load (FTL) Milk-	cun Trip Milk-run_856_31/08/2018_M	1 31/05/2018 00:00	Light goods (volume-fill)	0,98 ton	Ambient
otal emissions						
Total distance: 2 obel emissions Prissions per kmc Particolato (PMN):	036,10 km 91,29 kg CD ₂ e 0,39 kg CD ₂ e/lvm 0,31 g					
Detailed emissions						
	Milano Niinivirta tra	ensport MI 20067				
Departure	Tribiano (MI), Viale Adde	tts, 16/s, 20067				
	-					
Distance 78-79 Km	Road					
	Emissions: Emissions per limi Emissions per km/tor Particolato (PMx):	30,79 kg CO ₂ e 0,39 kg CO ₂ e/km 1: 0,43 kg CO ₂ e/km ton 0,10 g				
and an and a second	IT0517 Vigevano F	V 27029				
Node 1	Vigevano (PV), Viale Inclu	etria, 225, 27029				
Distance	Boad					
76.70 Km	Emissions:	30,43 kg CO-0				
	Emissions per lon:	0,39 kg CO ₂ e/km 1: 0,86 kg CO ₂ e/km ton 0,10 g				
	IT0467 Novara NO	2 28100				
Node 2	Novers (NO), Eprec Cerro	90 7, 4, 28 700				
Distance	Road					
76.70 Km	Emissions: 30 Emissions per lon: 0 Particolato (PMx) (),07 kg CO ₂ e),38 kg CO3e/km				
	And the second second	1 and 1 market				
	Milano Nilnivinta tra	CSPORT MI 20007			NIVIRT	

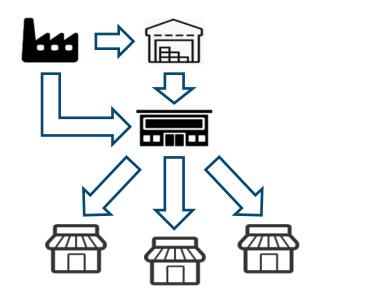
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Monitoring & reporting details

GREEN ROUTER HOW IT WORKS

The monitoring set-up must include various surce to evalute result till the single trip results (see EN 16258).

In this way, the 4 mode of transport are fully considered.





Monitoring & Reporting certification

GREEN ROUTER CERTIFICATIONS

Trasports

Certifyied according to EN 16258.



Dichiarazione di Verifica di Conformità n. IT17/1128

Con ideamento al consumi di energia e alle entessoni di gati all'affatto serva calcolad e dichianati metalante il software Green/Poute 5.1. 903 tase SpA dichiana che

La metodologia di calcolo e dichiarazione dei consumi energietto e delle emissioni di CiHO dei siti in cui c'è stoccaggio di menci utilizzata dal software "GreeniRouter" (V.3.0.0) sviluppato dalla società

> GreenRouter S.r.I. Sede Nealer Via Mascheroni, 15 20145 - Milano (MI)

If stata verificate in contormité e quanto raccomentation al oppipio 11 delle Union Guida emineza de CLECAT.

Calculating GHG emissions for freight forwarding and logistics services (April 2012)

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> Lead Assessor: Cristiana Petro ecterical Reviewer: Angelo Ferbri

Autorized by PACEA EANTARELL

BDS ITALIA S.p.A. - Certification and Business Enhancement Via Calders, 21 - 20153 MEANO - baly 1 + 38 02 73 83 1 f +39 62 70 10 94 93 www.eps.com



Warehouses (and shopping points)

The certification is made in accordance with the CLECAT * rules.

SGS

Dichlarazione di Verifica di Conformità n. IT16/0659

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La metodologia di calcolo e dichiarazione dei consumi energetici e delle emissioni di CHG di servici di trasporto utilizzata dal softwaru "Greenflouter" (v.3.0.0) eviluppinto dalla società

> GreenRouter S.r.I. Sede Legate Via Mascheroni, 15 20145 – Milano (Mi)

è utata vertficata in conformità ai requisiti della norma

EN 16258:2012

La preserve defusiónece de varias à vanis da 2012/2017 i les al 0308/2019 mane veida se solopada alo evojorarra regulas taga acti d corregiona presola. Resultación da areguna esta 2007/2019 Resultación da areguna esta 2007/2019

> Level Assessor Cristiana Reho Technical Reviewer: Angelo Pertini

Autopated by: PAOLA SANTARELLI Sat Botall

SISS ITALIA 5 p.A. - Certification and Business Enhancement Via Caldera, 21 - 20193 MLANO - taly 1 + 39 02 73 95 11 +39 02 70 10 54 89 www.egs.com

Cheste estactues el vertico à accomungant de un alegan bere ana Buine sugar, canettel, ciner e constitue * Approach to the GHG protocol for the 1-2-3 scope included

NIINIVIRTA FLEET 20

Monitoring & Reporting layout

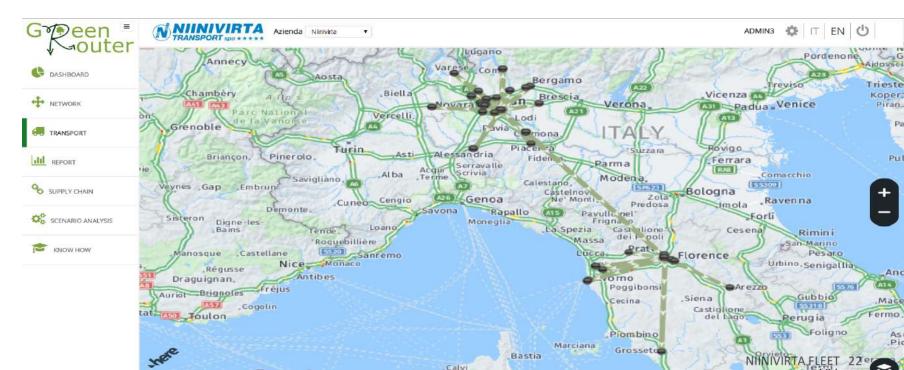
GREEN ROUTER THE CO₂ MAPPING PROJECT

- The CO₂ monitoring project analyzes national and international transport.
- Data are uploaded quarterly.
- Data are directly sourched from Niinivirta transport management software.
- Results are shared with the management to support actions.

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Monitoring & Reporting

GREEN ROUTER MONITORING THE CO₂ EMISSION

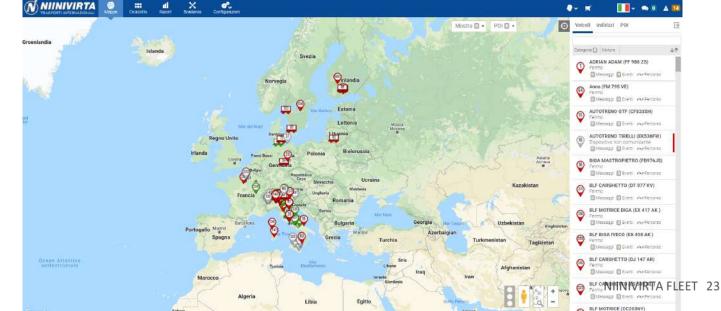




Monitoring System #2



All e-trucks are equipped with GPS system.





Monitoring System #3

TAMK UNIVERSITY

Since 2017, Niinivirta collaborates with TAMK Tampere University to develop new software to create IoT-based data reports.

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Monitoring System #4

VIRICITY

In addition to Visirun, all E-trucks are equipped with a software to monitor all internal data in real-time, like battery status, consumption, range left.

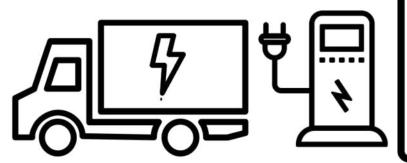
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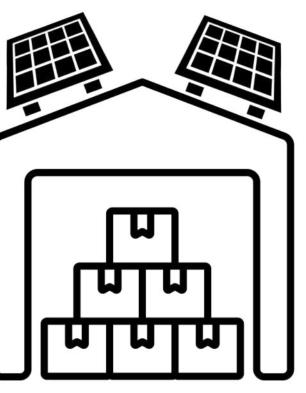
NIINIVIRTA GREEN LOGISITC SUPPLY CHAIN

In 2014, with the purchase of the 1st 100% electric truck, we have started a project.

At present we have created our own network, based on daily organization of charging time and truck range. By the end of 2021 we will install on the roof of our warehouse a 100 Kw photovoltaic system.

In this way we will be able to guarantee our customers a completely green supply chain both tank-to-wheel and well-to-wheel.







IN DECEMBER 2020 WE'VE REACHED A GREAT RESULT

763.361 km = 20 LAPS AROUND THE WORLD

THANK YOU!

NUMBER

NIINIVIRTA

www.niinivirta.it | info@niinivirta.it

NUNIVERT