WHOLE FLEET

NIINIVIRTA TRANSPORT spa ★★★★★

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.

14
E-TRUCKS

MAN 75
Milano

DAF LF 120
Milano

E-IVECO 120
Rimini

DAF LF 140
Vantaa (Finlandia)

DAF LF 140
Brescia

DAF LF 75
Milano

SMITH 100
Torino

DAF LF 140 SCARRABILE
Milano

MAN 180 SCARRABILE
Helsinki

SMITH 100
Vantaa (Finlandia)

SMITH 100
Firenze

MAN 180 SCARRABILE
Milano

DAF LF 180 SCARRABILE
Milano

MASTER ZE
Milano

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

NEW PROJECT

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

MILANO

BRESCIA

FIRENZE

TORINO

RIMINI

HELSINKI

VANTAA

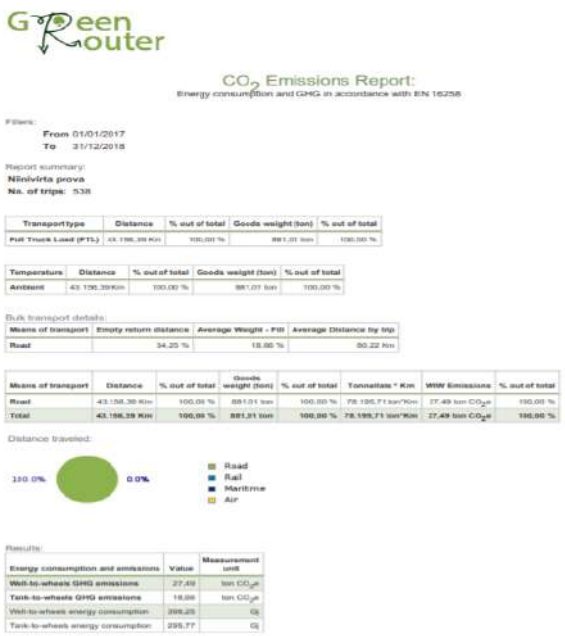
Monitoring system #1

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 Router

CO_2 Emissions Report:

Energy consumption and GHG in accordance with EN 16258

Filters:

From 01/01/2017

To 31/12/2018

Report summary:

Niinivirta prova

No. of trips: 538

Transport type	Distance	% out of total	Goods weight (ton)	% out of total
Full Truck Load (FTL)	43.156,39 Km	100,00 %	881,31 ton	100,00 %

Temperature	Distance	% out of total	Goods weight (ton)	% out of total
Ambient	43.156,39 Km	100,00 %	881,31 ton	100,00 %

Bulk transport details:

Means of transport	Empty return distance	Average Weight - Fill	Average Distance by trip
Road	34,25 %	18,66 %	80,22 Km

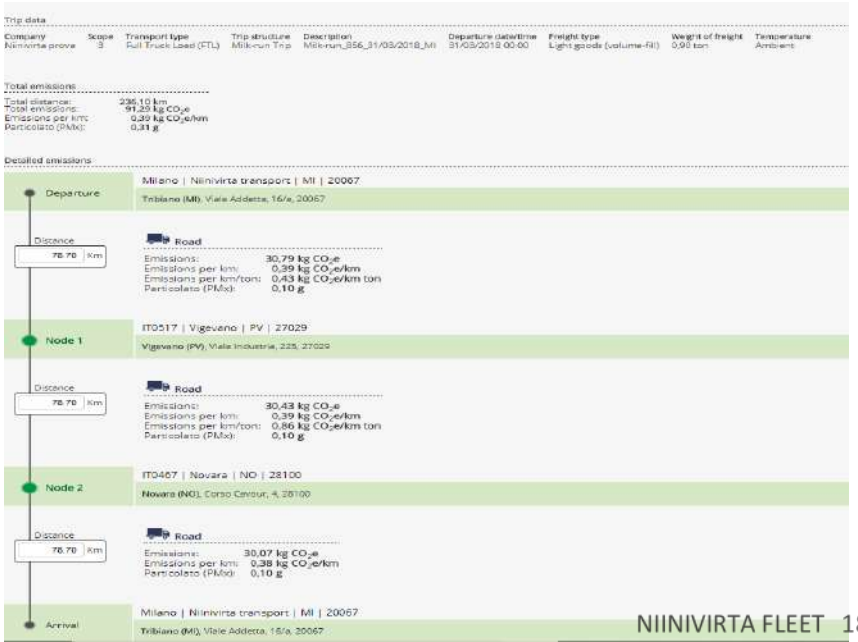
Means of transport	Distance	% out of total	Goods weight (ton)	% out of total	Tonnellate * Km	WtW Emissions	% out of total
Road	43.156,39 Km	100,00 %	881,31 ton	100,00 %	70.195,71 ton*Km	27,49 ton CO_2e	100,00 %
Total	43.156,39 Km	100,00 %	881,31 ton	100,00 %	70.195,71 ton*Km	27,49 ton CO_2e	100,00 %

Distance traveled:

Results:

Energy consumption and emissions	Value	Measurement unit
Well-to-wheels GHG emissions	27,49	ton CO_2e
Tank-to-wheels GHG emissions	18,08	ton CO_2e
Well-to-wheels energy consumption	399,25	GJ
Tank-to-wheels energy consumption	285,77	GJ

Reporting emission of CO_2



Trip data

Company	Scope	Transport type	Trip structure	Description	Departure date/time	Freight type	Weight of freight	Temperature
Niinivirta prova	3	Full Truck Load (FTL)	Milk-run Trip	Milk-run_856_31/03/2018_MI	31/03/2018 00:00	Light goods (volume-fill)	0,90 ton	Ambient

Total emissions

Total distance: 236,10 km
Total emissions: 91,29 kg CO_2e
Emissions per km: 0,39 kg CO_2e/km
Particolato (PMx): 0,31 g

Detailed emissions

Departure — Milano | Niinivirta transport | MI | 20067
Tribiano (MI), Viale Addetta, 16/a, 20067

Distance 78,70 Km — Road
Emissions: 30,79 kg CO_2e
Emissions per km: 0,39 kg CO_2e/km
Emissions per km/ton: 0,43 kg CO_2e/km ton
Particolato (PMx): 0,10 g

Node 1 — IT0517 | Vigevano | PV | 27029
Vigevano (PV), Viale Industria, 225, 27029

Distance 78,70 Km — Road
Emissions: 30,43 kg CO_2e
Emissions per km: 0,39 kg CO_2e/km
Emissions per km/ton: 0,86 kg CO_2e/km ton
Particolato (PMx): 0,10 g

Node 2 — IT0467 | Novara | NO | 28100
Novara (NO), Corso Cavour, 4, 28100

Distance 78,70 Km — Road
Emissions: 30,07 kg CO_2e
Emissions per km: 0,38 kg CO_2e/km
Particolato (PMx): 0,10 g

Arrival — Milano | Niinivirta transport | MI | 20067
Tribiano (MI), Viale Addetta, 16/a, 20067

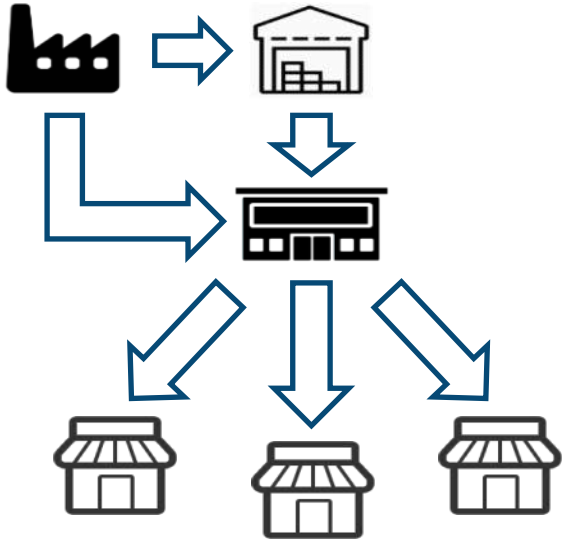
Monitoring & reporting details

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.

SGS

Dichiarazione di Verifica di Conformità n. IT17/1128

Con riferimento ai consumi di energia e alle emissioni di gas ad effetto serra calcolati e dichiarati mediante il software GreenRouter S.r.l., SGS Italia SpA dichiara che

La metodologia di calcolo e dichiarazione dei consumi energetici e delle emissioni di GHG dei siti in cui c'è stoccaggio di merci utilizzata dal software "GreenRouter" (v.3.0.0) sviluppato dalla società

GreenRouter S.r.l.

Sede legale:
Via Mascheroni, 15
20145 – Milano (MI)

è stata verificata in conformità a quanto raccomandato al capitolo 11 dalla Linea Guida emessa da CLECAT.

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

La presente dichiarazione di verifica è fornita a scopo informativo ed è valida per il periodo dal 29/12/2017 fino al 28/12/2019, se non vengono apportate modifiche al software, e rimane valida se sottoposta allo svolgimento regolare degli audit di sorveglianza periodica.
Rev. 0, prima emissione 29/12/2017

Lead Assessor: Cristiana Reho
Technical Reviewer: Angelo Ferlini

Authorized by: PAOLA SANTARELLI

SGS ITALIA S.p.A. – Certification and Business Enhancement
Via Caldera, 21 - 20153 MILANO - Italy
t + 39 02 73 93 11 f +39 02 70 10 94 99 www.sgs.com

SGS

Warehouses (and shopping points)

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

SGS

Dichiarazione di Verifica di Conformità n. IT16/0659

Con riferimento ai consumi di energia e alle emissioni di gas ad effetto serra calcolati e dichiarati mediante il software GreenRouter S.r.l. in accordo con EN 16258:2012, SGS Italia SpA dichiara che

La metodologia di calcolo e dichiarazione dei consumi energetici e delle emissioni di GHG di servizi di trasporto utilizzata dal software "GreenRouter" (v.3.0.0) sviluppato dalla società

GreenRouter S.r.l.

Sede Legale:
Via Mascheroni, 15
20145 – Milano (MI)

è stata verificata in conformità ai requisiti della norma

EN 16258:2012

La presente dichiarazione di verifica è valida dal 29/12/2017 fino al 03/08/2019 e rimane valida se sottoposta allo svolgimento regolare degli audit di sorveglianza periodica.
Ricertificazione da eseguirsi entro il 25/07/2019
Rev. 1, prima emissione 03/08/2016

Lead Assessor: Cristiana Reho
Technical Reviewer: Angelo Ferlini

Authorized by: PAOLA SANTARELLI

SGS ITALIA S.p.A. – Certification and Business Enhancement
Via Caldera, 21 - 20153 MILANO - Italy
t + 39 02 73 93 11 f +39 02 70 10 94 99 www.sgs.com

Questa dichiarazione di verifica è accompagnata da un allegato tecnico che illustra scopo, obiettivi, criteri e conclusioni.

SGS

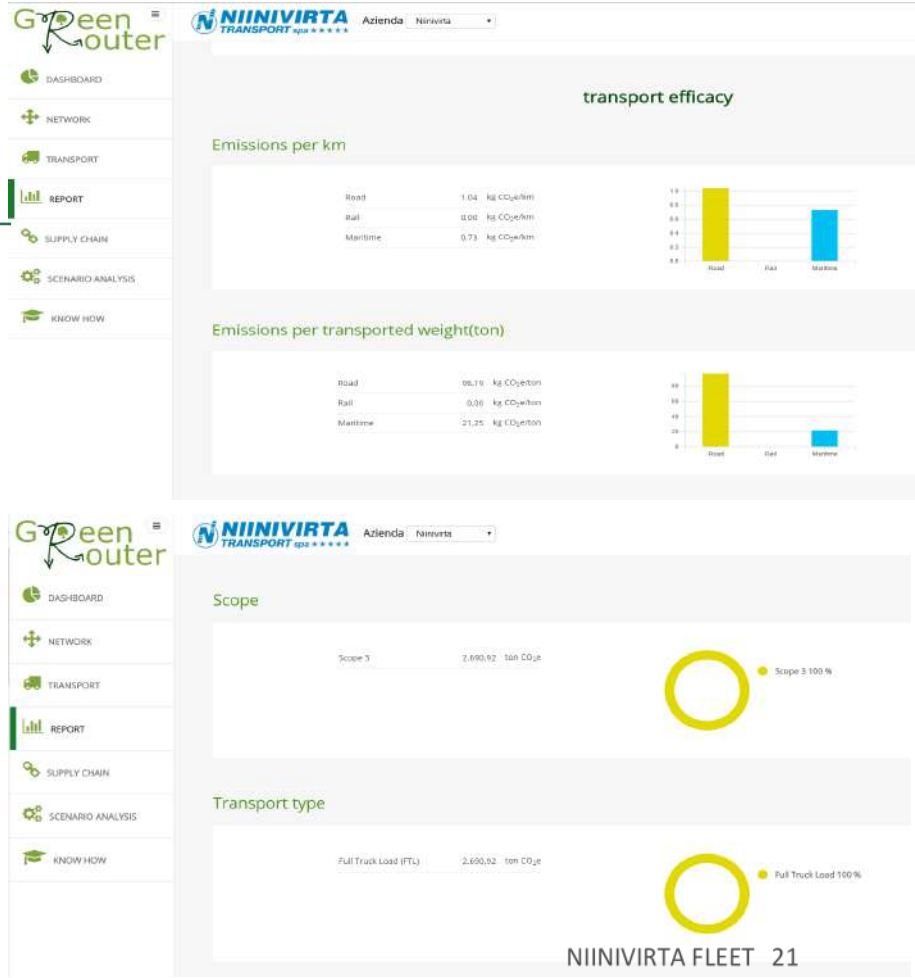
* Approach to the GHG protocol for the 1-2-3 scope included

Monitoring & Reporting layout

GREEN ROUTER

THE CO_2 MAPPING PROJECT

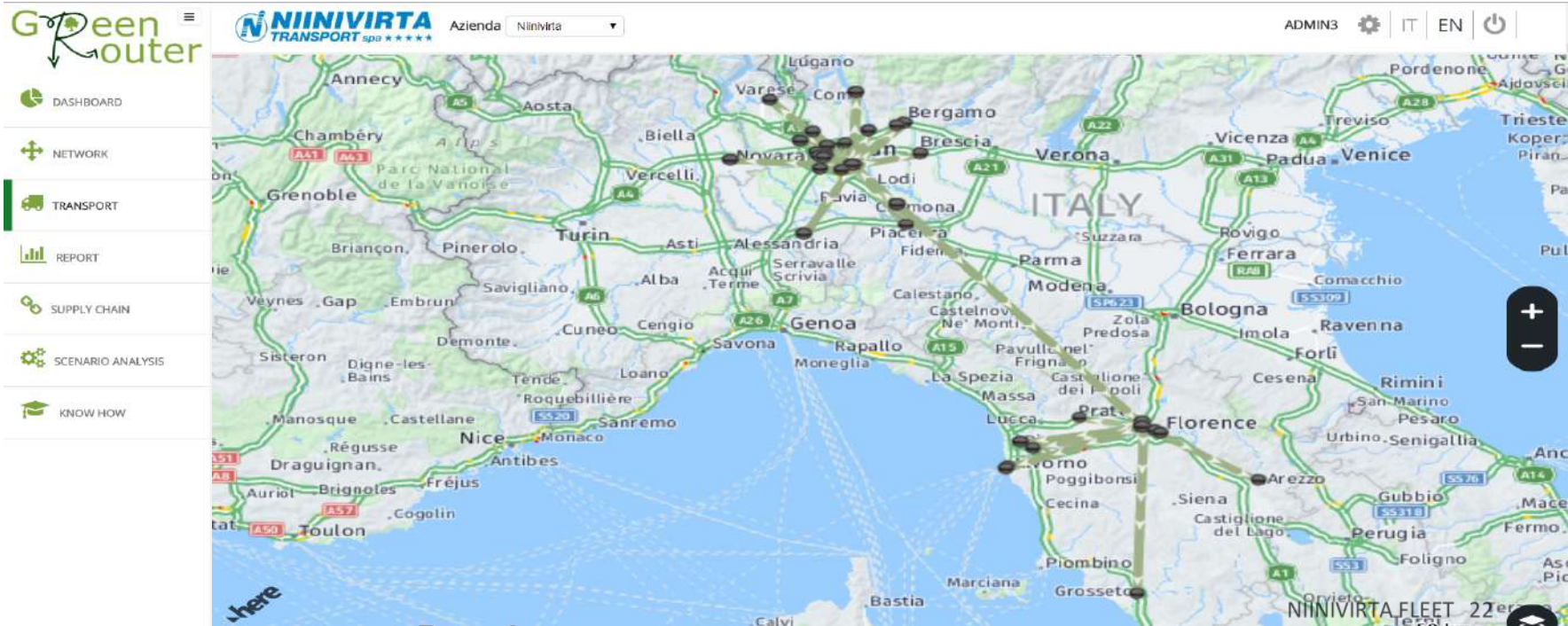
- The CO_2 monitoring project analyzes national and international transport.
- Data are uploaded quarterly.
- Data are directly sourched from Niinivirta transport management software.
- Results are shared with the management to support actions.

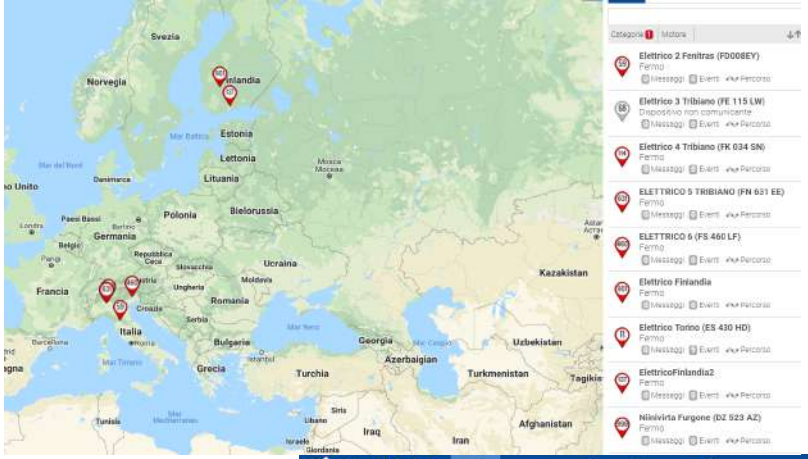


Monitoring & Reporting

GREEN ROUTER

MONITORING THE CO_2 EMISSION

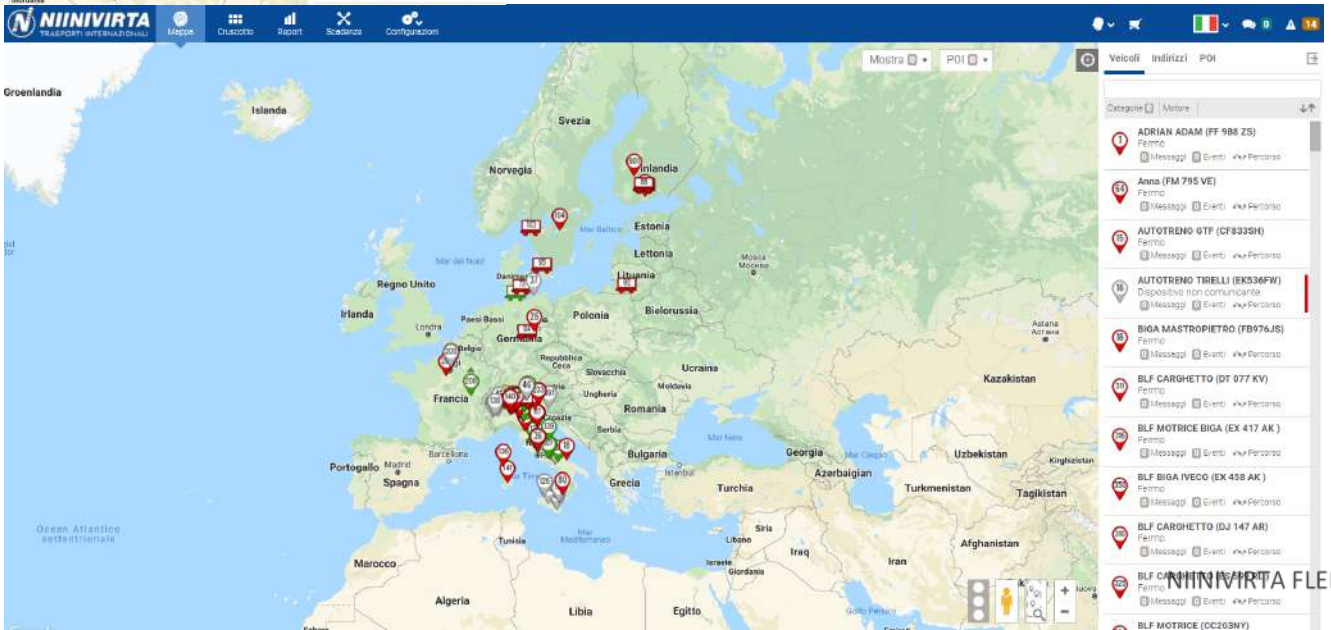




Monitoring System #2

VISIRUN

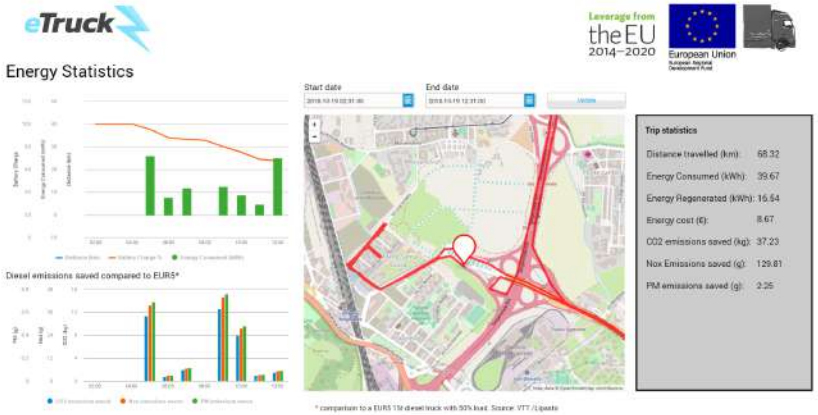
All e-trucks are equipped with GPS system.

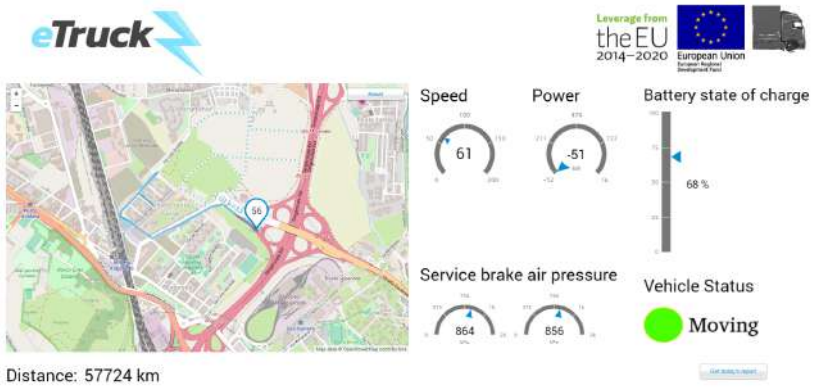


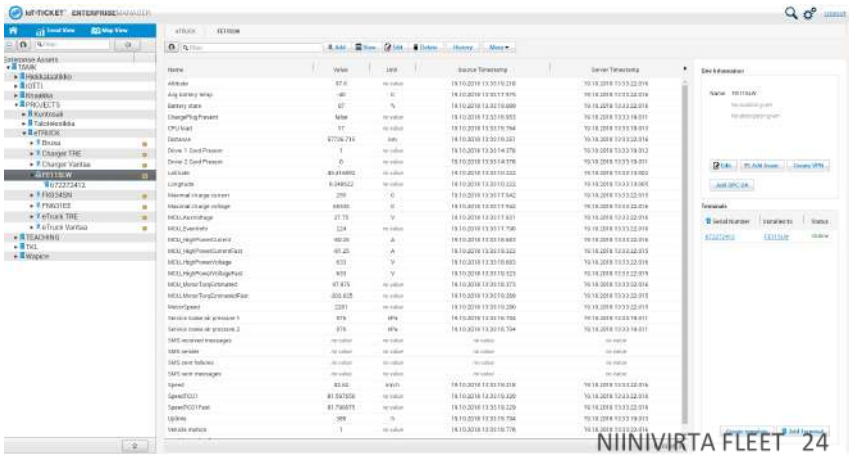
Monitoring System #3

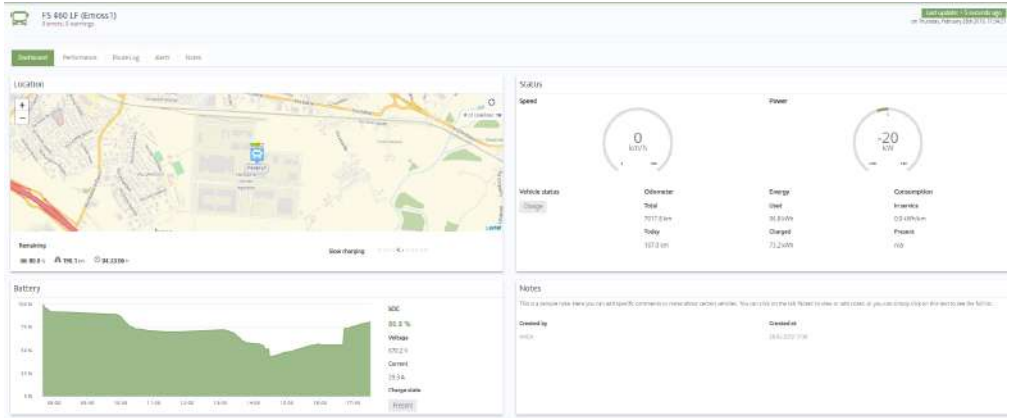
TAMK UNIVERSITY

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





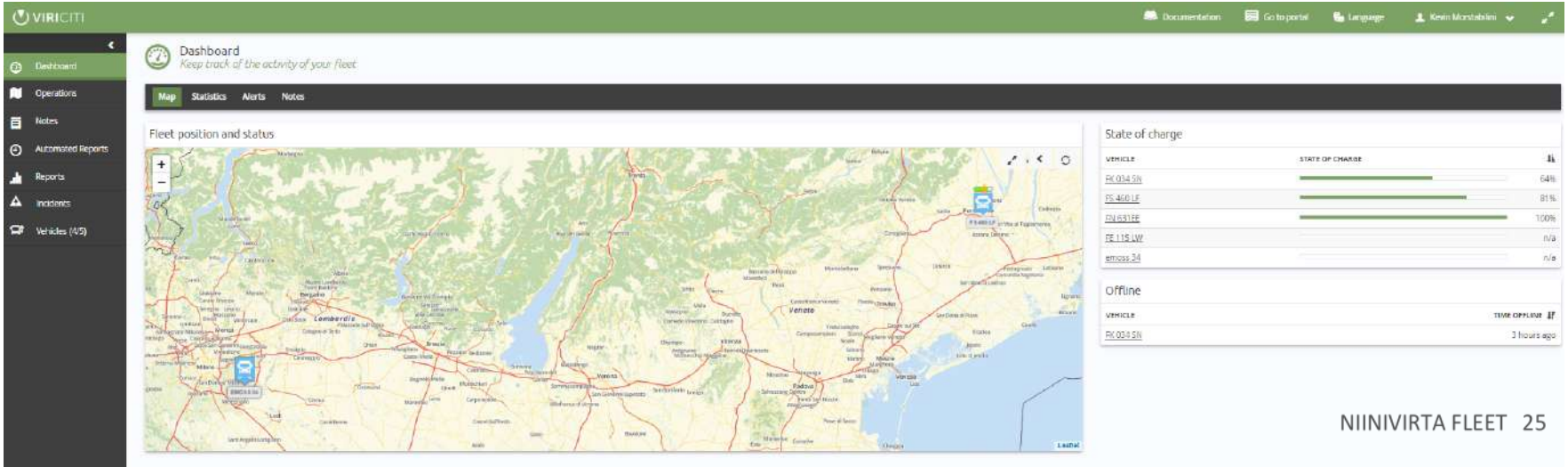




Monitoring System #4

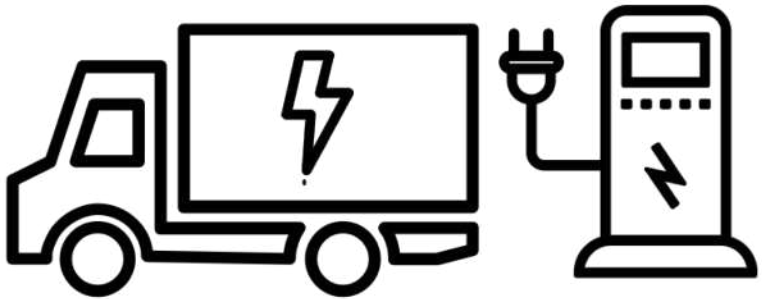
VIRICITY

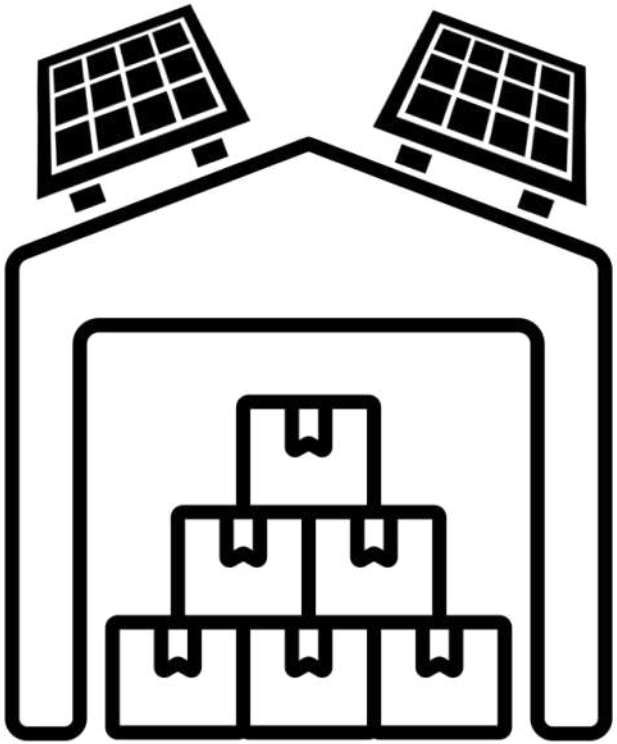
In addition to Visirun, all E-trucks are equipped with a software to monitor all internal data in real-time, like battery status, consumption, range left.



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!

www.niinivirta.it | info@niinivirta.it