



Examples



Clean Transportation

Please find below 20 examples on real, implemented green growth ideas in a field of **Clean Transportation**.

Examples are provided from these countries:

- Lithuania (4 units)
- Sweden (4 units)
- Denmark (4 units)
- Poland (4 units)
- Germany (4 units)



This material is prepared in accordance to INTERREG V-A South Baltic Programme project „SB BRIDGE – Building bridges for green tech future“ (2019-2021)



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1. Lithuania, **Dancer**, 2015



Made with significant use of recycled materials

Charging time < 10 min



Top speed - 70 km/h

Range - 90 km

<https://www.dancerbus.com/>

2. Lithuania, **Popa boat**, 2018



Electric catamarans use clean energy

Top speed - 10 km/h

Has an electric steering wheel

Can be controlled via bluetooth

<https://popaboat.com/>



3. Lithuania, Neematic, 2016

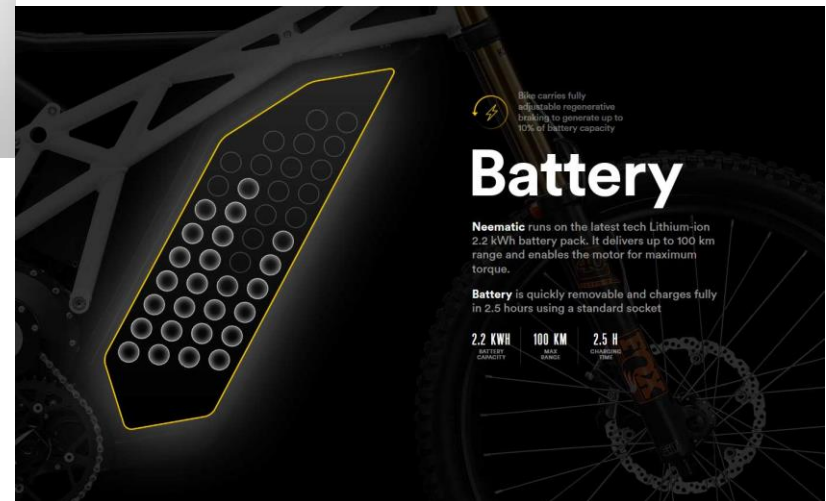


Range – 100 km

Weight – 52 kg

Top speed – 80 km/h

Power – 15 kw



<https://evnerds.com/buyers-guide/neematic-ebike-price/>

4. Lithuania, Rubbee, 2015



Fastest electric bicycle
conversion kit on the market

Patented Rhino lock technology

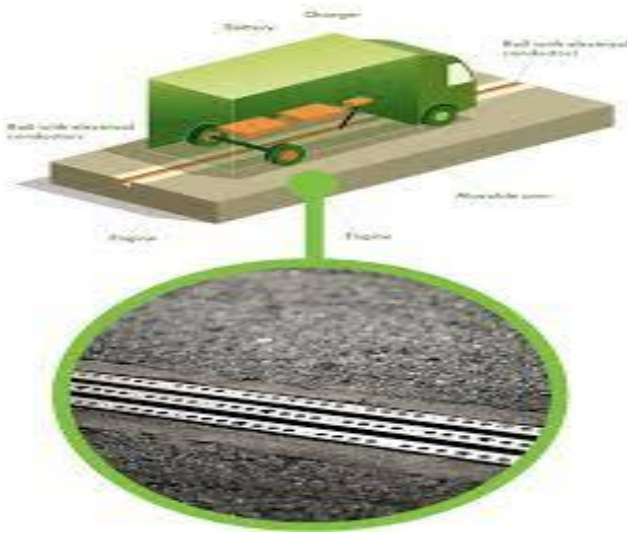
Bluetooth 4.2 low-energy

Replaceable CR2032 cell

<https://www.rubbee.co.uk/>



1. Sweden, eRoadArlanda, 2016



80-90% reduction of carbon emissions

Vehicles are powered and recharged while driven

Cars, buses and trucks can be recharged while in motion

Existing infrastructure can be utilized

<https://eroadarlanda.com/>



2. Sweden, Hybricon, 2014



100% pure electric heating

Heat pumps to recover waste heat

3 minutes charging for one hour operation



<https://www.hybricon.se/en/home.htm>

3. Sweden, Candela, 2015



World's first foiling electric boat
99% reduced local emissions

50 Nautical Miles of range at
20 knots
30 Knots Top Speed



https://candelaspeedboat.com/?gclid=EAIaIQobChMIkeqgkaSv7QIViwCiAx0tcwbQEAAAYASAAEGJE6_D_BwE

4. Sweden, **Scania**, 2020



The battery electric truck
100% emissions
free operation

Range - up to 250 km

9 Lithium Ion batteries



<https://www.scania.com/group/en/home/products-and-services/trucks/battery-electric-truck.html>

1. Denmark, **Cycle Serpent,** **Copenhagen, 2014**



235 metres long bicycle bridge

Opened in 2014

The bridge cost 38 million Danish kroner, 6 million of which came in funding from the state.



<http://www.cycling-embassy.dk/2014/09/26/the-cycle-serpent/>

2. Denmark, **Ellen (Danfoss A/S),** **2019**



The electrically powered ferry
Has the largest battery capacity
at sea

Travels 22 nautical miles
Navigates without
CO₂ emissions

<https://www.danfoss.com/en/about-danfoss/news/cf/danfoss-powers-up-the-world-s-strongest-electric-ferry/>



3. Denmark, Cargo bike parking facility, 2015



It consist of 1,860 bikes distributed on 90 docking-stations

A design line and bike rack

City of Malmö

Company (Hoe 360 Consulting)

<https://stateofgreen.com/en/partners/hoe360-consulting-urban-mobility/solutions/new-bike-share-system/>



4. Denmark, Triple-E Class Container Ship, 2013



The newest addition to Maersk's fleet

Will cut CO2 emissions by 35 percent per container

The most environmentally efficient container vessels

<https://www.ship-technology.com/projects/triple-e-class-container-ship/>



1. Poland, **Solaris Urbino electric,** **2018**



Exceptionally quiet,
emission-free

Lite hybrid bus, plug-in

Electrical installation based on
CAN-Bus system

Operation up to 24h



<https://www.solarisbus.com/en/vehicles/zero-emissions/urbino-electric>

2. Poland, **EN57 trains, Medcom, 2018**



EN57 is a three-car electric multiple unit train

Built for suburban and long-distance services

Speed - 226 km/h

SiC technology

Impuls 45WE train

<https://medcom.com.pl/en/our-desings/electric-and-diesel-multiple-units/>



3. Poland, Triggo, 2018



Unique electric vehicle

It takes up 1/5th the space of a standard passenger car

Vehicle width: 148 cm

Maximum speed: 90 km/h

<https://www.triggo.city/>

<https://siliconcanals.com/news/ev-polish-startup-traffic-commute-launch-2021/>



4. Poland, **Izera**, 2020



The first Polish electric car

A choice of two capacities,
and have a range of up to
400 km

Production lines in 2023

The cars will be capable of
accelerating from 0 to 100
km/h in 8 seconds



<https://notesfrompoland.com/2020/07/29/polands-first-electric-car-brand-izera-unveiled-with-prototypes/>

1. Germany, **Electric highway,** **2019**



First e-highway for trucks

5 kilometre section of the autobahn in the state of Hesse

Energy efficient, low cost,
zero emission

<https://www.mobility.siemens.com/global/en/portfolio/road/ehighway.html>



2. Germany, eActros, Daimler, 2018



The innovation fleet will therefore be in operation until at least mid-2020

Uses high voltages (>400 V) and currents (up to 1000 A) battery technology



<https://www.daimler.com/products/trucks/mecedes-benz/eactros.html>

3. Germany, Postal Service's Streetscoter Electric Van, 2017



Deutsche Post DHL

Wants to operate "70 percent of first and last mile services with clean pick-up and delivery solutions" by 2025

A few thousand units will still be built in 2021, but only for the company's own use



<https://www.electrive.com/2020/11/12/street-scooter-delays-end-of-production/>

<https://www.smmmt.co.uk/2018/06/streetscoter-opens-new-factory-to-meet-demand/>

4. Germany, E-Fan X, 2017



Siemens, Airbus and Rolls-Royce team up for electric future of flight

Hybrid electric aircraft

2MW electric motor

Cancelled in 2020 during pandemic

<https://www.airbus.com/innovation/zero-emission/electric-flight/e-fan-x.html>



THANKS

Thank You for attention!

SB BRIDGE – Building bridges for green tech future

More info is available here: www.sbbridge.eu



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