

KASI Technologies AB

Retrofit Conversion of Existing Gasoline- and Diesel vehicles into Electric Hybrid's

– Saving Fleet Customers both Fuel Cost and CO₂ instantly

Kasi Technologies AB founded in 2010 in Gothenburg and is operational in Smedjebacken since 2013.

Vision

Global provider of large scale vehicle fleet electrification solutions.

Mission

Accelerate vehicle fleet electrification through providing most cost effective solutions reducing global transportation carbon footprint immediately today.

Company

- ✓ Swedish-based Clean-tech company geared for global expansion
- ✓ Developer and manufacturer of NESS.

Granted Patents
+56

Team
+10

Team Automotive Experience
+130 yrs.

HQ's & Manufacturing
Smedjebacken



Signed customer orders 2023:
28

Suppliers:

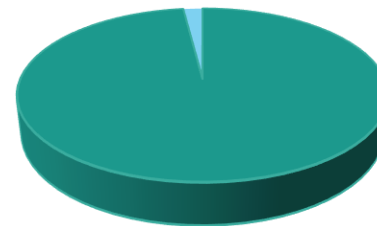




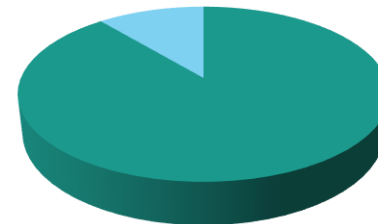
Public & Commercial Fleet owners

- High Need for faster Green CO₂ reducing than new EV cars sales alone can achieve.
- No scalable cost-effective electrification solutions for existing fleets are available.
- Not possible to shift out entire fleets to 100% Battery EV's at the same time.
- Fleet operation margins heavily affected by EV recharging times, .i.e. unacceptable down times.

2023 global vehicle fleet on the roads



2030 global vehicle fleet on the roads *



- Vehicles benefiting from NESS
- Battery Electric Cars (BEV's)

*IEA report on new vehicle sales prognosis 2020 - 2030



EU: 11.4M BEV's and **413M** cars in total on the roads in EU ^{*/**}

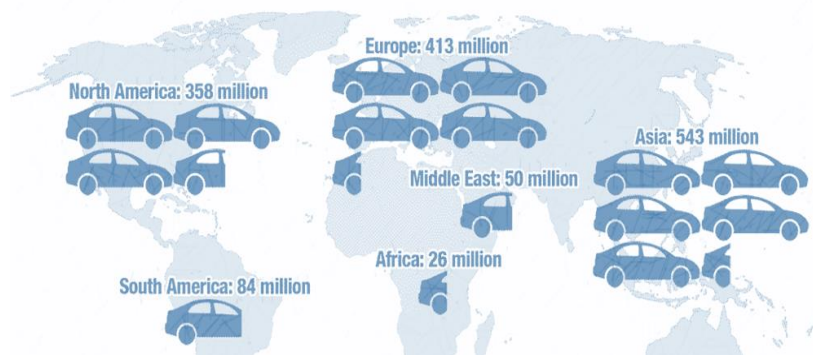
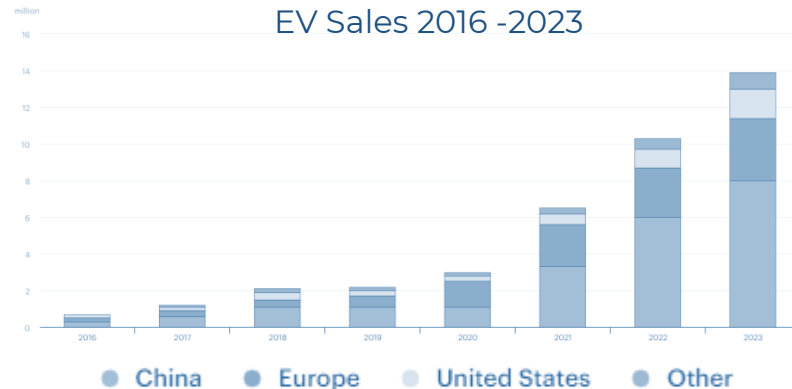
→ **+97% in EU** still propelled primarily by combustion engines.

US: 4.6M BEVs and **358M** in total on the roads in the US ^{*/**}

→ **+98% in US** still propelled primarily by combustion engines

5% turn-over/yr. by new car sales

→ **+20 years** to change entire fleet by new vehicle sales only.

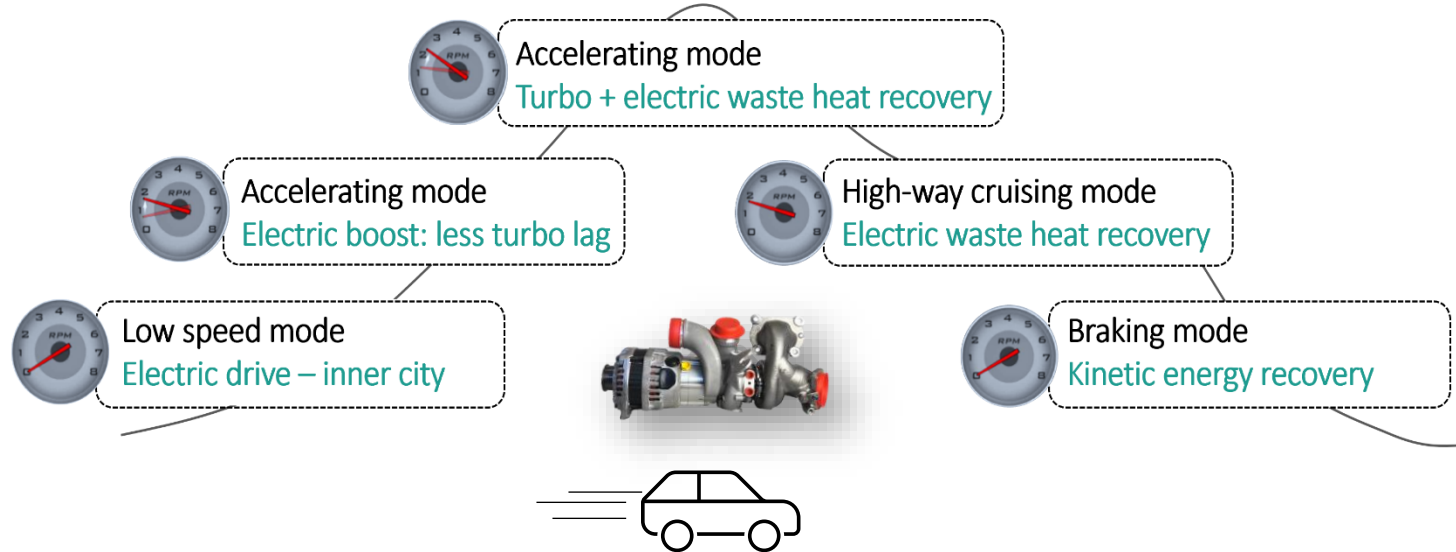


*IEA **Hedge & Company



A RETROFIT dual hybrid system converting all existing & new vehicles to H-EV's

Today's EV's & Hybrid cars recover energy during **8 %** of total driving time; only when braking.



NESS recovers energy during **100 %** of total driving time; when Accelerating, Highway driving and Braking

NESS product mode functionality

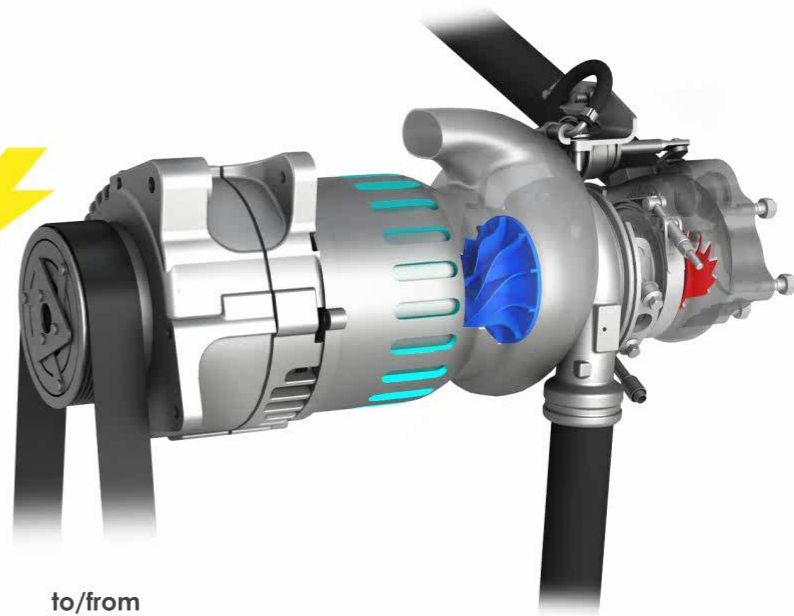
- Mode 1: Electrical drive and stop/start
- Mode 2: Transient Electrical supercharging and turbo spin-up
- Mode 3: Transient Turbo + waste heat recovery (TC control)
- Mode 4: Cruising, Waste heat recovery during steady state
- Mode 5: Kinetic energy recovery during braking



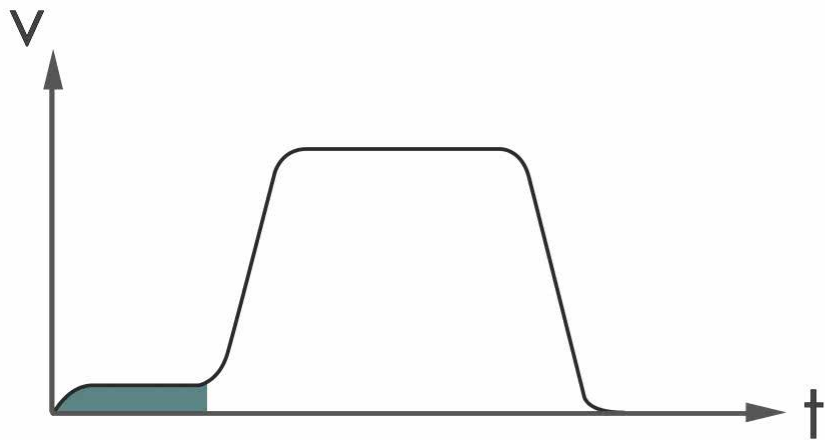
MODE 1

Low speed

Electric drive - inner city



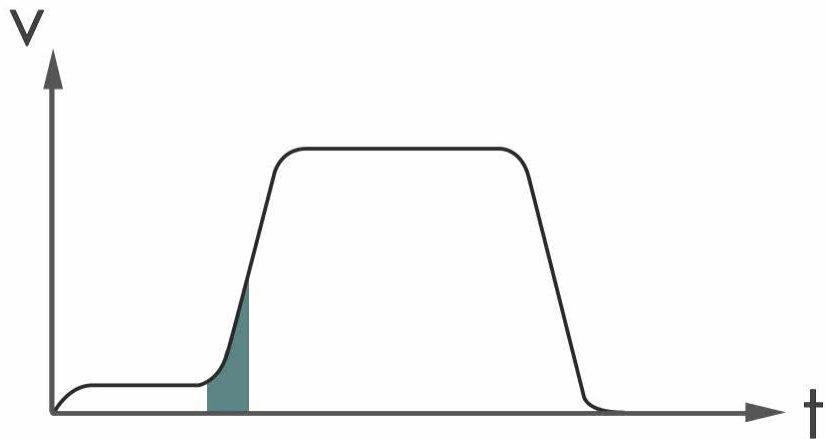
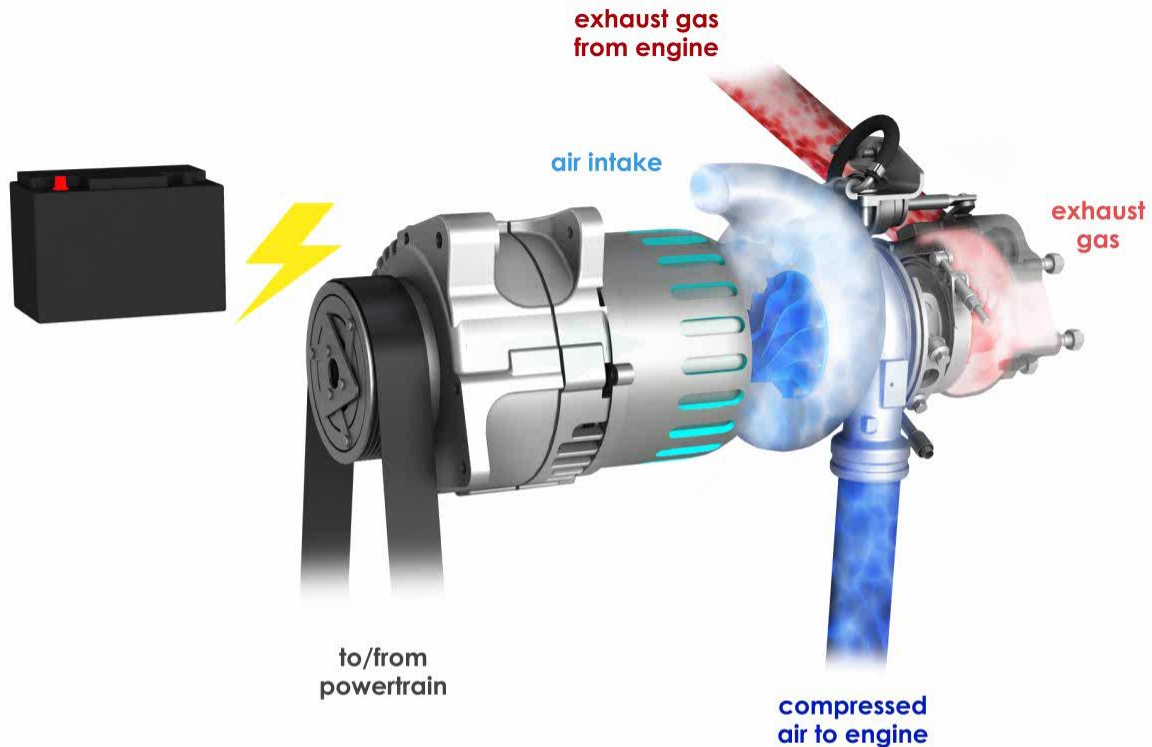
to/from
powertrain



ICE = OFF

MODE 2 Accelerating

Electric boost: less turbo lag

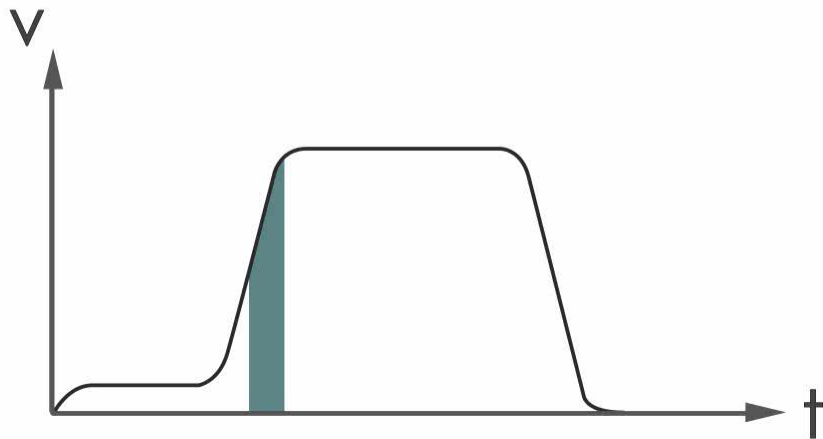
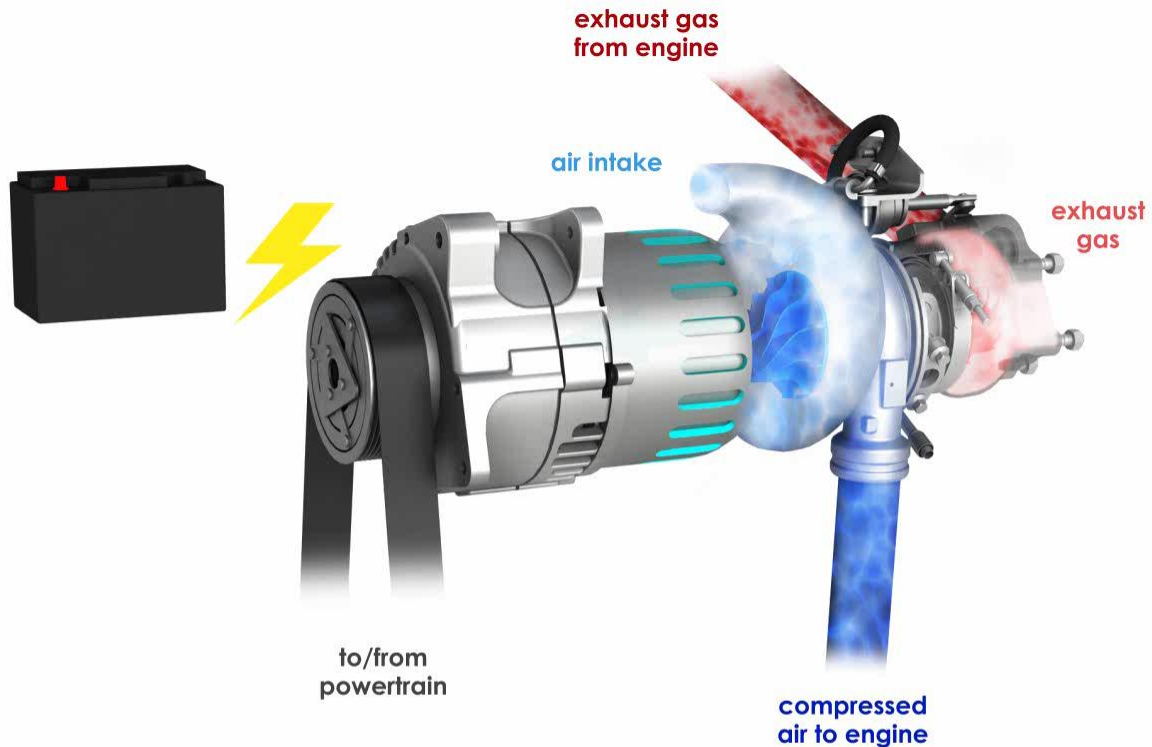



ICE = ON

MODE 3

Accelerating

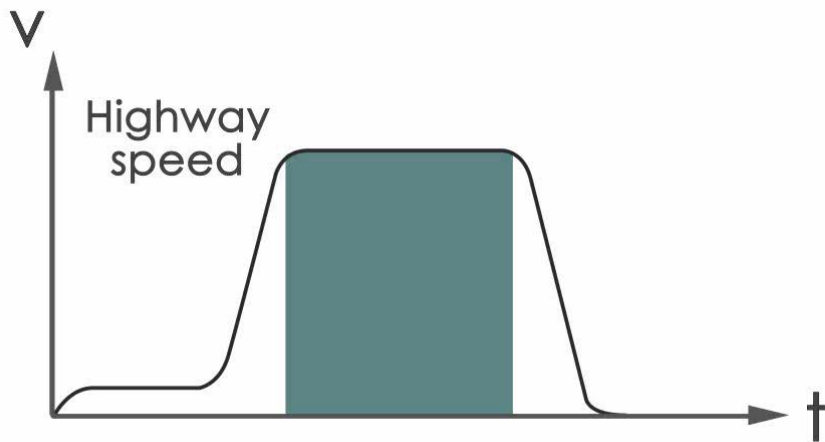
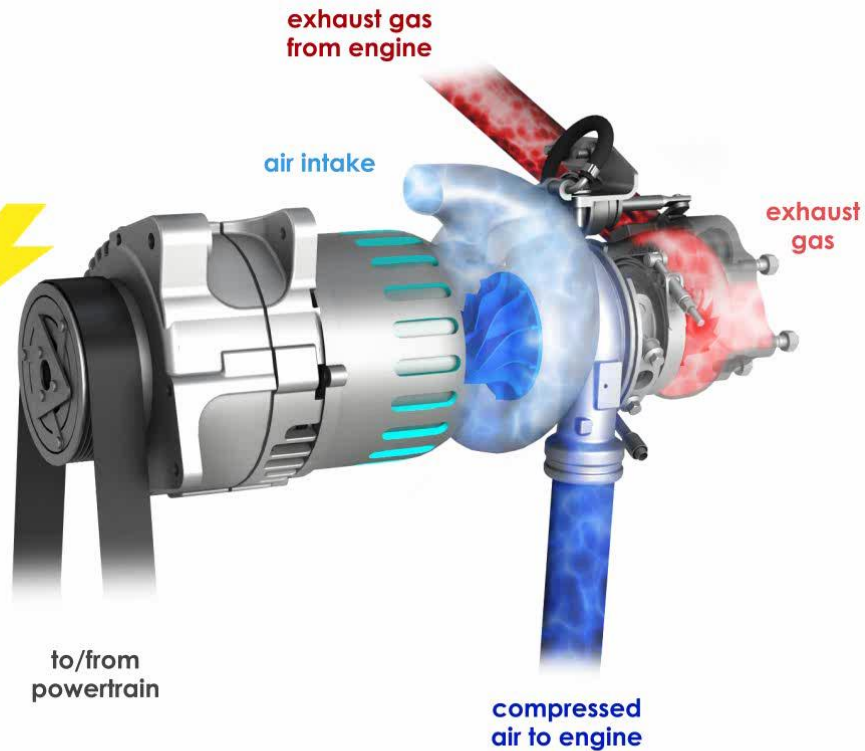
Turbo + energy recovery




ICE = ON

MODE 4 Cruising

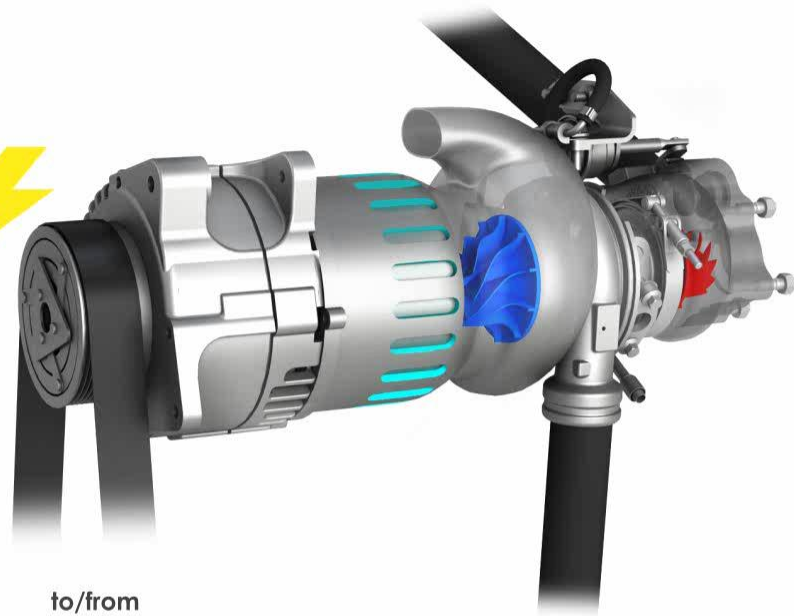
Waste heat recovery



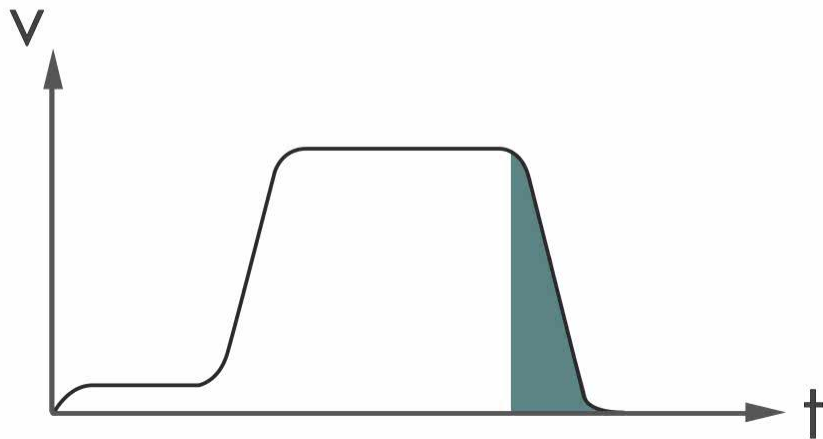
MODE 5

Braking

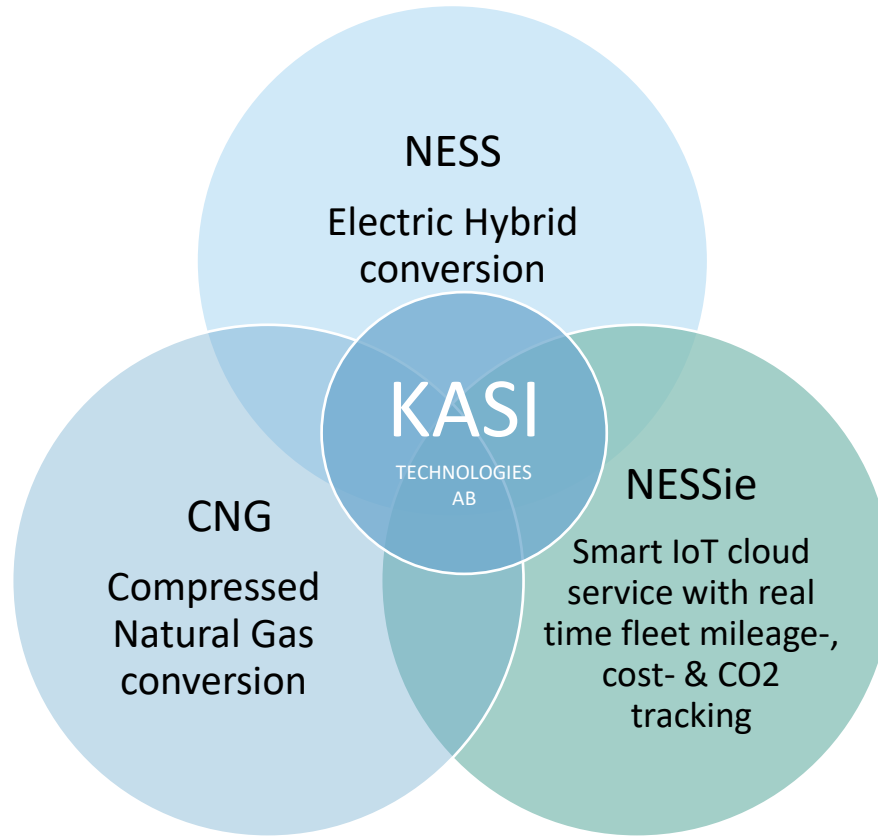
Kinetic energy recovery



to/from
powertrain



ICE = ON





Isak Löfgren
CEO

M.Sc. Applied physics & electronics engineer specialized in mechatronics and automotive with over 15 years' experience in the Automotive industry.



David Emilsson
Lead Engineer

Senior Mechanical Design- & Project Lead Engineer with over 17 years of experience in Mechanical- and Power electronics from ABB/Hitachi Energy.



Viktor Löfgren
COO

Serial entrepreneur with over 17 years of bringing products to market hands-on experience building teams and setting up offices on international level.



Michael Johansson
Retrofit Sales

Experienced sales representative with passion for creating sales networks and driving sale leads. Have closed 3 deals with our company within 6months.

- 10 employees and growing
- Senior Advisory board with +120 years of experience in the automotive sector

Board of Directors

- Viktor Löfgren – Working Chairman
- Kjell AC Bergström – former CEO GM Europe & Saab Powertrain
- Petter Järtby – former CIO Ericsson, CIO Emirates Investment Authority, mm.
- Agne Pettersson – former CEO Swedish Post / PostNord, mm.



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KASI TECHNOLOGIES AB

 **Isak Löfgren**
Founder & CEO

 **Viktor Löfgren**
COO

