



DECARBONIZATION OF HGV : A 1ST CHARGING POINT NETWORK ON THE APRR HIGHWAYS

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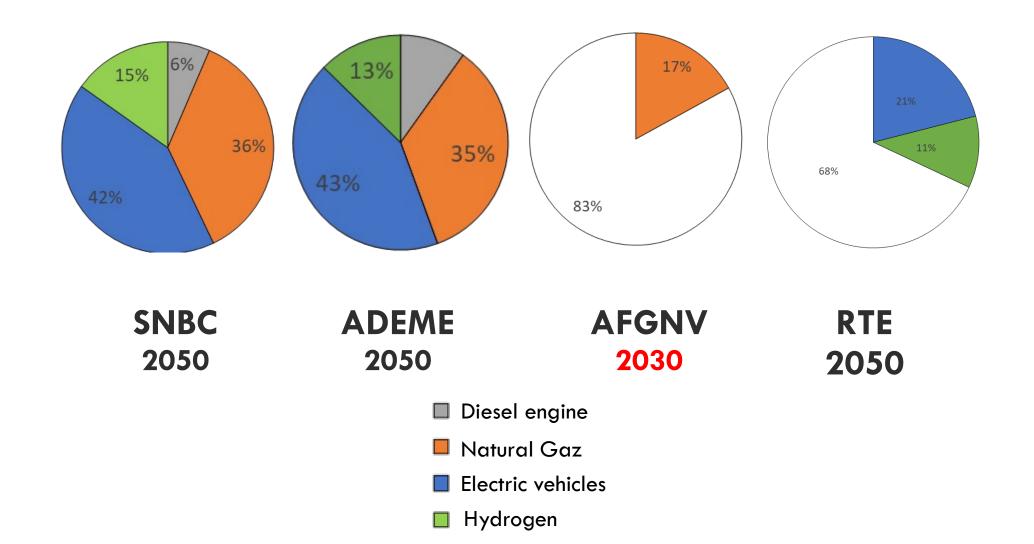


- Reflection on a scenario for the energy transition in freight transport
- Network principles
- Technical studies of recharging infrastructures
- Implementation and commissioning



Analysis and compilation of the french HGV decarbonisation scenarios

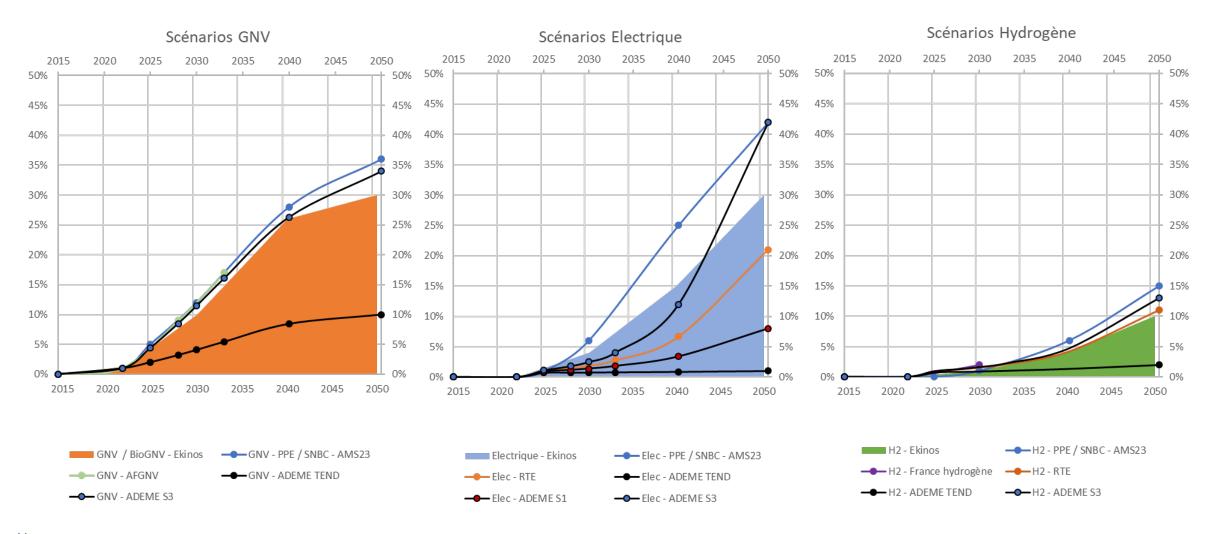






Analysis and compilation of the HGV decarbonisation scenarios



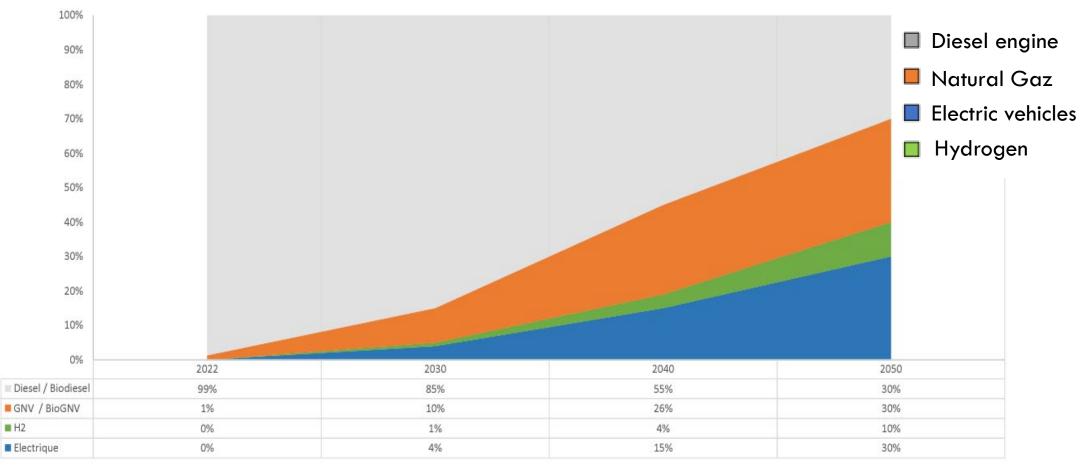




Analysis and compilation of the HGV decarbonisation scenarios



Evolution of vehicle motorization to 2050



General assumptions



• Available Electric HGV



RENAULT TRUCKS





DAIMLER TRUCKS





VOLVO TRUCKS



SCANIA



General assumptions



- Equipment on the Lyon-Paris corridor
- Average fuel consumption of vehicles : 150kWh/100km
- Average range of vehicles : 200 km with 300 kwh batteries
- Connection to a **500 kVa** electric transformer
- 2 charging point per area and 1 emergency charging point
- maintenance of overall parking capacity
- Commissioning on the june 2024



Lyon Paris Network



- Lyon → Beaune Merceuil :147 km
- Beaune Mercueil → Venoy : 144 km
- Venoy 🗲 Achères Est : 109 km
- Achères Est 🗲 Paris : 66 km





Paris Lyon Network

- Paris 🗲 La Galande : 50 km
- La Galande →La Réserve : 109 km
- La Réserve 🗲 La Forêt : 163 km
- La Forêt →Lyon : 172 km



ASECAP DAYS

Pelebrating



Partnership with Engie



- Signature of a contract between APRR and ENGIE as an extension of the LV recharging contract
- Installation of each area :
 - Electrical transformer up to 500 kW
 - One 400-480 kW electric charging facility
 - A second 100 kW emergency electric charging facility

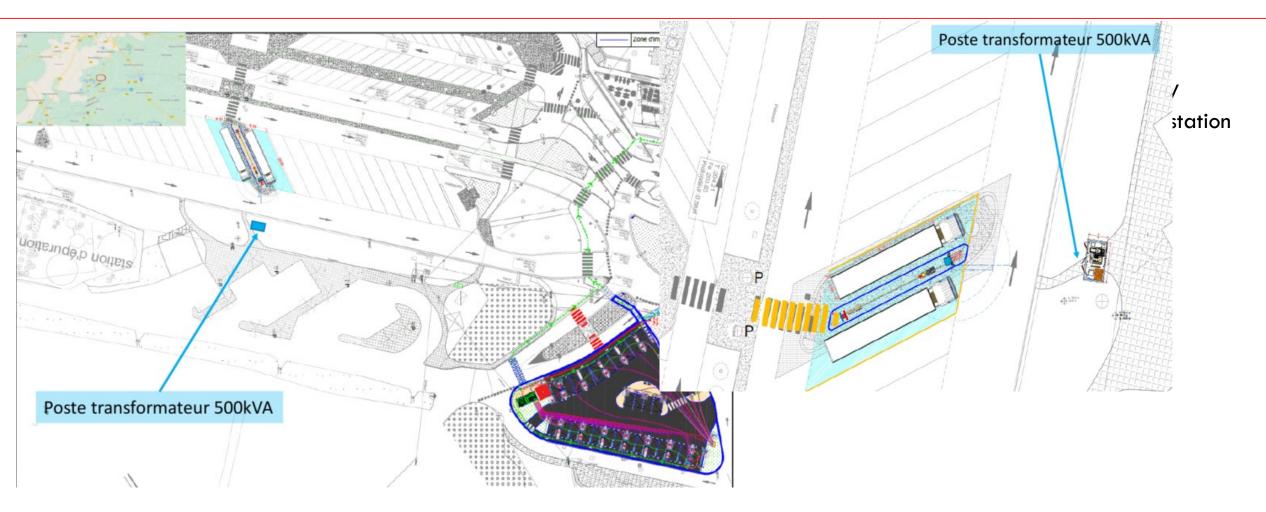


EVBox Troniq Modular Heavy Duty 480



Typical installation - Beaune Mercueil











- An innovative and ambitious network to encourage the decarbonation of freight transport
- A very high-powered recharging system to minimise stopping time of the HGV
- High availability with two terminals and a backup terminal
- Supply of energy from renewable sources





THANK YOU

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