

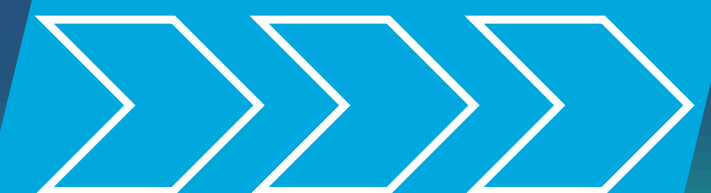


# ***TRANSPORT MEASURES IN ARTICLE 7/8 IMPLEMENTATION IN HUNGARY***

***Armin BÖHM***

*Energy Efficiency Expert  
Energy Engineer*

19th November 2024

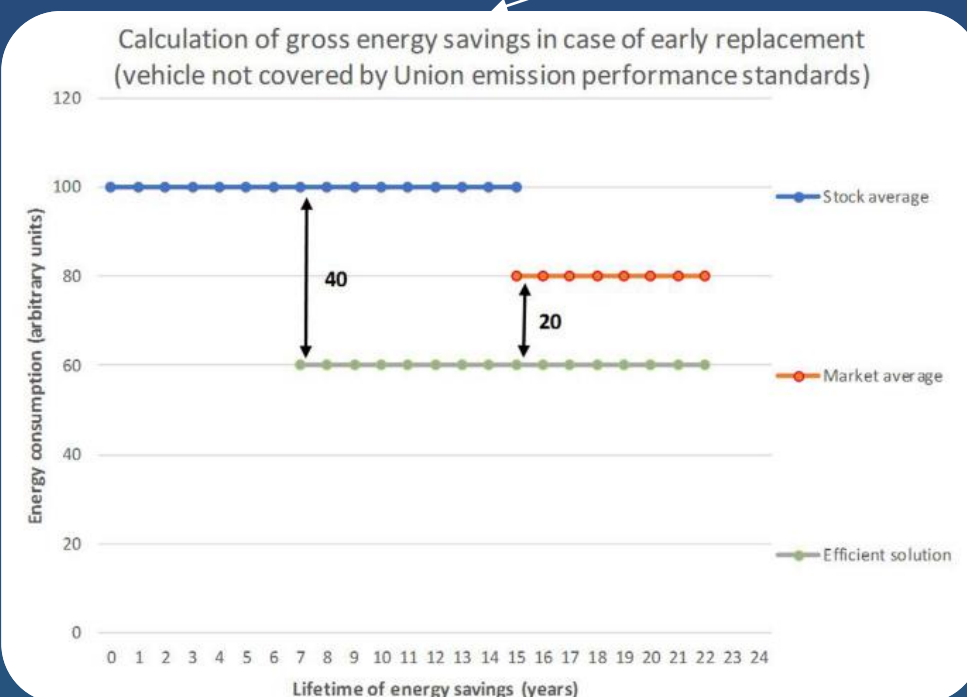




# ELECTRIC BUSES IN HUNGARY: THE FUNDING CHALLENGES

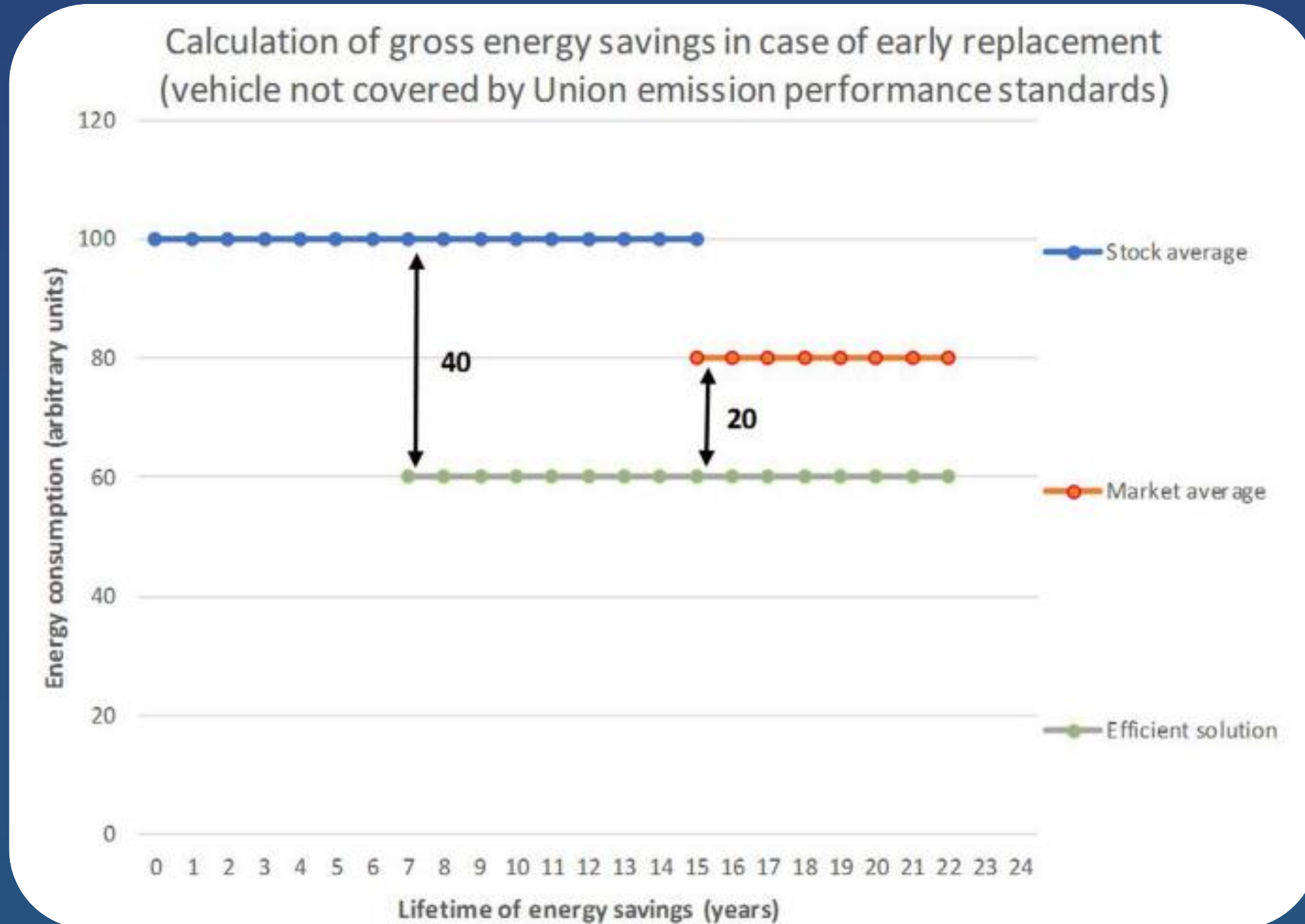
- **SIGNIFICANT DEMAND FOR FULL-INTENSITY SUPPORT DUE TO THE HIGH CAPEX**
- **OPERATORS WHO CAN CONTRIBUTE SOME OF THEIR OWN FUNDS MIGHT REDUCE COSTS THROUGH EEOS**

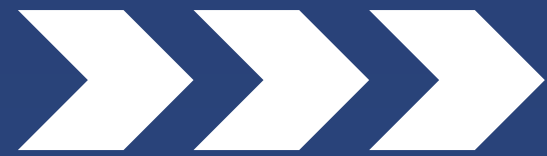
**HOWEVER, VARIOUS OBSTACLES CAN STILL HINDER EASY ACCESS TO THESE BENEFITS**





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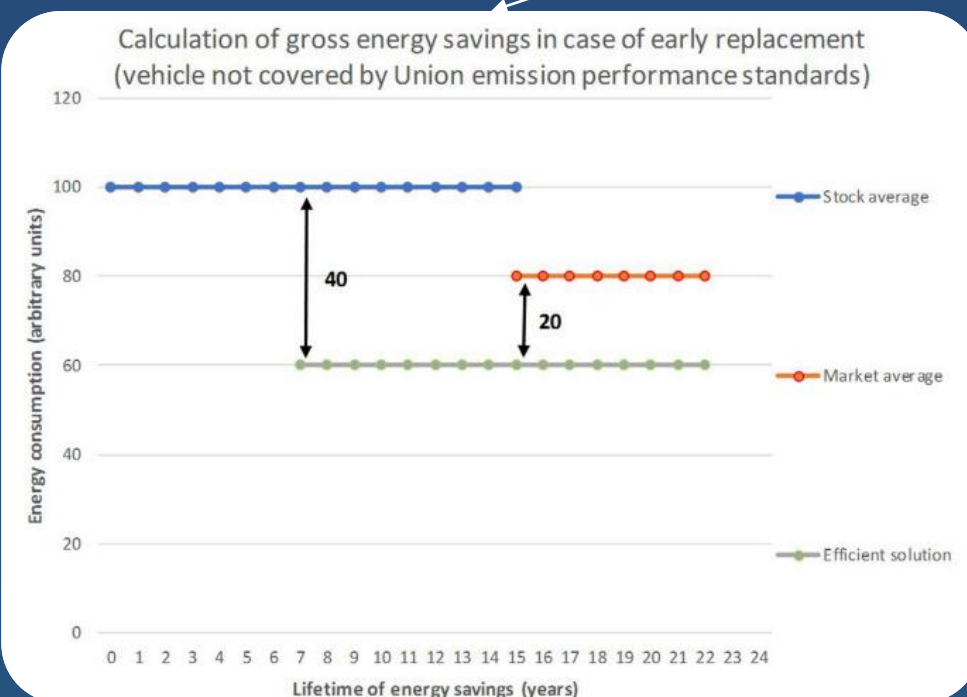




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# ***COMMON TECHNICAL ISSUES WITH ELECTRIC BUSES***



***OPERATORS OFTEN RETAIN  
OLDER BUSES AS BACKUPS***



**BUT WHY?**  




***ELECTRIC BUSES OFTEN COME WITH DIESEL HEATERS  
THAT ACTIVATE IN TEMPERATURES BELOW ~8°C***





# COMMON TECHNICAL ISSUES WITH ELECTRIC BUSES



BUT WHY?

ELECTRIC BUSES OFTEN COME WITH DIESEL HEATERS THAT ACTIVATE IN TEMPERATURES BELOW  $\sim 8^{\circ}\text{C}$

DIESEL HEATERS CAN CONSUME UP TO 40-44 LITERS OF DIESEL DAILY

FREQUENT BREAKDOWNS, INCREASING MAINTENANCE COSTS AND DOWNTIME

CAUSING VISIBLE EMISSIONS





## **INTERMODAL TRANSPORT: CHALLENGES IN IMPLEMENTATION**

- **THE CATALOGUE OF STANDARDIZED ENERGY EFFICIENCY MEASURES INCLUDES MEASURE TO SUPPORT INTERMODAL TRANSPORT AND SIMPLIFY ENERGY SAVING CALCULATIONS FOR ENERGY AUDITORS**
- **SLOWER BORDER CROSSINGS: RAIL FREIGHT EXPERIENCES SIGNIFICANTLY LONGER WAIT TIMES COMPARED TO ROAD TRANSPORT.**
- **INCREASED BUREAUCRACY: LOGISTICAL AND ADMINISTRATIVE PROCESSES ARE MORE COMPLEX FOR RAIL FREIGHT**
- **DYNAMIC FACTORS: SPECIFIC FUEL CONSUMPTION VALUES FOR ROAD TRANSPORT, [MJ/tKM], ARE BASED ON INTERNATIONAL REFERENCE VALUES (e.g. IEA) AND FREQUENTLY UPDATED, IMPACTING THE HUNGARIAN CATALOGUE, THUS THE MARKET TOO**



## **SUPPORT FOR ELECTRIC CAR PURCHASES: CHALLENGES**

- ***SUBSIDIES WITHOUT SCRAPPING MANDATES: STATE SUPPORT FOR ELECTRIC CAR PURCHASES IN HUNGARY DID NOT MANDATE THE SCRAPPING OF OLDER VEHICLES***
- ***RETENTION OF OLD CARS: MANY OWNERS KEPT THEIR OLD VEHICLES, USING THE NEW ELECTRIC CARS MAINLY FOR CITY DRIVING.***
- ***KILOMETER-BASED MONITORING COULD BE AN EFFECTIVE METHOD TO ENSURE THAT ELECTRIC VEHICLES ARE REPLACING TRADITIONAL ONES TO A CERTAIN EXTENT AND ACHIEVING ENERGY SAVINGS***
- ***PROVING KILOMETER READINGS BY END-USERS REMAINS A SIGNIFICANT CHALLENGE***







***POLICY CHALLENGES?  
LET'S ADD AN ENGINEERING EDGE!***

***SCAN TO CONNECT!***



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