Cape town energy storage for electric vehicles

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The transport sector has been identified as a keycontributor to global greenhouse gas (GHG) emissionsbecause of its reliance on fossil fuels. Of globalgreenhouse gas emissions, 15% can be attributed to thetransport sector. There is now a global consensus thatthe climate targets that have been set, particularly for theautomotive sector by 2030, cannot be met without EVsbeing incorporated into the transport system. Internalcombustion engine (ICE) improvements alone areinsufficient to achieve these targets.

The City of Cape Town’s Department of Enterprise and Investment partnered with GreenCape to gain insights about the electric vehicle ecosystem and its associated value chains, to explore the role that the City can play in the ecosystem.

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‘Our aim with this pilot project was to eventually have a solid local business case for the electrification of municipal vehicle fleets. Municipal fleet managers who are exploring the procurement of EVs for their fleets now have this case study to refer to and use as part of their business motivations. The greatest incentive of course being to reduce greenhouse gas emissions, improve air quality in our cities and to save on operational costs,’ said the City of Cape Town Mayoral Committee Member for Corporate Services, Alderman Theresa Uys.

‘The City of Cape Town has successfully completed a three year electric vehicle pilot project, which has proven the business case for the electrification of municipal vehicle fleets. Battery electric vehicle technology paired with renewable energy for charging is a viable mechanism to achieve the City’s net-zero emission goal by 2050,’ said Prian Reddy, Senior Analyst: Sustainable Mobility and Energy Storage at GreenCape.

The case study found the following key insights:

The City’s Traffic Services confirmed that the electric vehicles were effective as patrol vehicles in reducing fuel costs and were easy to use in and around the Cape Town CBD . The City believes it is important to explore new technology that is not only cost effective, but also efficient in delivering a service to Cape Town’s residents.

A copy of GreenCape’s latest case study is available via: https://greencape /wp-content/uploads/2023/06/Case-Study-%E2%80%93-Electrification-of-Municipal-Vehicle-Fleet.pdf

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