



REPORT TO:

CITY MANAGER

**TO BE REFERRED BY THE OFFICIAL TO MAYCO VIA THE RELEVANT *ENERGY*
PORTFOLIO SECTION 79 COMMITTEE [AFTER CONSIDERATION BY CITY
MANAGER]**

[OFFICIALS TRAVELLING OVERSEAS FOR COUNCIL RELATED ACTIVITIES]

1. ITEM NUMBER

2. SUBJECT

**FEEDBACK ON THE INTERNATIONAL/OUTSIDE THE BORDERS OF THE
RSA TRIP UNDERTAKEN FROM 2 SEPTEMBER 2024 TO 9 SEPTEMBER
2024 TO ATTEND THE 'SOUTH AFRICAN TRADE MISSION FOR
ELECTRIC VEHICLE (EV) INFRASTRUCTURE AND MANUFACTURING
OPPORTUNITIES' AND THE UK MET OFFICE SEMINAR ON RENEWABLE
ENERGY RESOURCE MAPPING FOR DECISION MAKING IN THE UNITED
KINGDOM (UK)**

ONDERWERP

**TERUGVOERING OOR DIE INTERNASIONALE REIS (BUITE DIE GRENSE
VAN DIE RSA) VAN 2 SEPTEMBER 2024 TOT 9 SEPTEMBER 2024 VIR
DIE BYWONING VAN DIE SUID-AFRIKAANSE HANDESENDING VIR
ELEKTRIESEVOERTUIGINFRASTRUKTUURS- EN -
VERVAARDIGINGSGELEENTHEDE EN DIE VK SE MET-
KANTOORSEMINAAR OOR HERNUBARE-
ENERGIEHULPBONKARTERING VIR BESLUITNEMING IN DIE
VERENIGDE KONINKRYK (VK)**

ISIHLOKO

**INGXELO ENGASEMVA KOHAMBO KUMAZWE APHESHEYA/
ANGAPHANDLE KWEMIDA YASEMZANTSI AFRIKA EQHUTYWE
UKUSUSELA NGOWE2 UKUYA KOWE9 KWEYOMSINTSI 2024
UKUZIMASA 'IPHULO ELIYINJONGO YEZORHWEBO EMZANTSI AFRIKA
NGOKUJOLISWE KWISAKHEKO ESINGUNDOQO ESINGEZOTHUTHI
EZIHAMBA NGOMBANE (EV) NAMATHUBA ANGEZOVELISO'
NENDIBANO EKWIOFISI ESE-UK NGOKUJOLISWE KULUNGISELELO
LOMTHOMBO WEZOMBANE OHLAZIYEKAYO UKUBA KUTHATYATHWE
ISIGQIBO, ESE UNITED KINGDOM (UK)**

LSU: R1055

3. EVENT SUMMARY

EVENT DETAILS	
CONFERENCE/SEMINAR	<ol style="list-style-type: none"> 1. 'SOUTH AFRICAN TRADE MISSION FOR ELECTRIC VEHICLE (EV) INFRASTRUCTURE AND MANUFACTURING OPPORTUNITIES' 2. THE UK MET OFFICE SEMINAR ON RENEWABLE ENERGY RESOURCE MAPPING FOR DECISION MAKING
OTHER	<ol style="list-style-type: none"> 1. The purpose of the EV Trade Mission was to better understand, first hand, the policies, technology and practices currently utilised in the UK to promote the uptake, use and management of electric vehicles (EVs) both in public transport and private vehicles. Furthermore, the trip offered opportunities to network with UK businesses, research centres and public entities to better understand the opportunities and challenges in the shift from petrol and diesel transport to mobility. A significant benefit of the trip was the opportunity to engage, in person, with key South African stakeholders to understand the views, targets and challenges experienced and how SA municipalities need to collaborate to align their EV programmes. 2. The purpose of the UK Met Office seminar is to share City of Cape Town experiences in renewable energy (RE) deployment and how a collaborative approach is needed for renewable resource mapping, grid planning and generation forecasting. Furthermore the seminar provided an opportunity to network and meet people currently working on projects in South Africa on RE resource mapping.
DATE	<ol style="list-style-type: none"> 1. 2-6 September 2024 2. 9 September 2024
VENUE	<ol style="list-style-type: none"> 1. Various venues around the UK including Milton Keynes, Coventry, Leeds, Millbrook, London, Wokingham 2. UK Met Office, Exeter
TOTAL COST TO THE CITY	R 50 668.19
CITY	Various (see above)
COUNTRY	UNITED KINGDOM (UK)

ATTENDEE DETAILS		
NAME AND SURNAME	DESIGNATION	
Mary Haw	MANAGER:	SUSTAINABLE ENERGY FACILITATION, SEM
PROVIDE SUMMARY OF HOST ORGANISATION / CITY		
<p><i>[Provide a brief background summary of the host organisation.]</i></p> <p>The British Foreign Commonwealth Development Office (FCDO) plays an important role in fostering positive relationships between the UK and other countries for the purposes of promoting trade, knowledge sharing and economic development. This office is a government department and funded by the British government.</p> <p>Foreign Commonwealth Development Office (FCDO) and Dept of Business and Trade (DBT) South Africa launched their inaugural UK-SA EV trade mission from 2nd – 6th September 2024, hosting delegates from South Africa's largest municipalities, national government, and automotive associations: City of Cape Town, eThekweni Municipality and City of Johannesburg; @DITC, SANTACO, AIDC Eastern Cape and E-mission.</p> <p>Funded by FCDO, the EV Trade Mission aimed to share the UK's experience of EV transition, and to form new trade relationships between the UK and SA in a fast-growing EV manufacturing and charging infrastructure industry.</p>		

4. OBJECTIVE

The intention of the Mission was to share the experience and lessons of transitioning to EVs in cities and towns within the UK, in terms of rolling out EV infrastructure, the electrification of public transport, and to make links with UK businesses who manufacture and operate EV infrastructure and e-buses.

The insights gained from the UK experience of the transition to emobility will add value to various elements of the City's EV work as EV adoption in South Africa is still in its infancy and there is a lot that can be learned from a country that is further along on the journey.

5. OUTCOMES

During the course of the Trade Mission we visited a number of businesses and government organisations to better understand bus manufacture and fleet management, charging infrastructure rollout, regulation and support, electricity grid impact and how the UK is adapting to the transition to eMobility.

The insights gained and the contacts we made both with people in the UK and with our SA colleagues provided incredible guidance on how we, in South Africa, and in Cape Town specifically, need to be preparing for EV adoption. For me in my work specifically, it was made clear that EVs provide an opportunity for electrical demand management but the regulations and registration processes must be in place to allow for smart charging and management by the utility.

Furthermore, a number of municipalities shared the processes they undertake for EV charger rollout and this procurement planning insight is critical as we embark on similar exercises.

The rich insights we gained could not have been achieved without going to the UK, seeing the EV fleets in action, speaking to people on the ground and understanding first-hand what measures need to be in place for a smooth transition to mobility.

Please see attached Power Point presentation

6. ACTIONS REQUIRED

Next steps are summarised below (Contact people are identified in the attached Power Point presentation)

- Request specifications from TfL tender on public charging hubs
- Consider a City Directive for consulting work to be undertaken for public charger rollout
- Continue to engage with MyCiti team / operators on dynamic charging control to limit supply requirement
- Better understand regulations regarding smart charging; customer interface; usability; payment options
- Consider engagement between SA national and munic level so that we can support each other:
 - Strategically so that national policies support on the ground work and national direction is embedded in munic plans
 - Risk mitigation: alignment between munics so we're all on the same page
 - How EV charger regulations can be implemented at a munic level
 - Should munics require EV charger registration for demand management?

7. IMPLICATIONS

7.1 Constitutional and Policy Implications No ☒ Yes ☐

7.2 Environmental implications No ☒ Yes ☐

7.3 Financial Implications No ☒ Yes ☐

7.4 Legal Implications No ☒ Yes ☐

7.5 Staff Implications No ☒ Yes ☐

7.6 Risk Implications No ☒ Yes ☐

7.7 POPIA Compliance

- ☒ It is confirmed that this report has been checked and considered for POPIA Compliance.

NOTE: POPIA Section MUST be completed otherwise the report will be returned to the author for revision.

Contact your Directorate POPIA Stewards should you require assistance.

The City has a contract in place with Izani Embassy Joint Venture for the safe-keeping of Traveller's personal information as required by the POPI Act.

8. RECOMMENDATIONS

It is recommended that the feedback report on the trip the 'South African Trade Mission for electric vehicle (EV) infrastructure and manufacturing opportunities' and the UK MET office seminar on renewable energy resource mapping for decision making in the United Kingdom (UK) undertaken by Mary Haw on 2 – 9 September 2024 **be considered and noted.**

AANBEVELINGS

Daar word aanbeveel dat die terugvoeringsverslag oor Mary Haw se reis van 2 tot 9 September 2024 vir die bywoning van die Suid-Afrikaanse handelsending vir elektriesevoertuiginfrastruktuurs- en -vervaardigingsgeleenthede en die VK se MET-kantoorseminaar oor hernubare-energiehulpbronskartering vir besluitneming in die Verenigde Koninkryk (VK) oorweeg word en dat daarvan kennis geneem word.

IZINDULULO

Kundululwe ukuba **makuthathelwe ingqalelo kwaye kuqwalaselwe** ingxelo engasemva kohambo kumazwe ukuzimasa 'iPhulo eliyinjongo yezoRhwebo emMzantsi Afrika ngokujoliswe kwisakheko esingundoqo esingezothuthi ezihamba ngombane (EV) namathuba angezoveliso nendibano ekwiofisi ese-UK/ i-UK MET ngokujoliswe kulungiselelo lomthombo wezombane ohlaziyekayo ukuba kuthatyathwe isigqibo, ese United Kingdom (UK), eqhutywe nguMary Haw, ukususela ngowe2 ukuya kowe9 kweyoMsintsi 2024.

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9. GENERAL DISCUSSION

As noted in the attached feedback presentation, I have highlighted the top 5 insights gained:

1. EV technology is the most cost effective low-emissions option for public transport. Not hydrogen or hybrids
2. Don't oversize electrical infrastructure. eg Waterloo: 2MVA for 60 buses vs our proposed 5MVA for 30 buses
3. Modular PV, Battery, Charge stations for fast charging in poor grid locations
4. For public charging rollout, municipalities need to do quite a lot of homework to determine locations, specs and procurement models
5. "EVs are a fantastic opportunity for demand management...or a complete disaster". MUST have smart charging regulations and a registration system.

10. ANNEXURES

Annexure A: SA EV Mission to UK September presentation

FOR FURTHER DETAILS, CONTACT:

DATE	September 2024		
NAME	Mary Haw	CONTACT NUMBER	021 400 1245
E-MAIL ADDRESS	Mary.Haw@capetown.gov.za		
DIRECTORATE	Energy	FILE REF NO	N/A
SIGNATURE :			
			<small>Digitally signed by Leila Mahomed Weideman Date: 2024.09.30 14:10:55 +02'00'</small>

EXECUTIVE DIRECTOR: ENERGY

[KADRI NASSIEP]

COMMENT:

The ED's signature represents support for report content and confirms POPIA compliance.

SIGNATURE:

NAME

DATE


KADRI NASSIEP.

01 OCT 2024

MANAGER: INTERNATIONAL RELATIONS

COMMENT:

DR. DENVER VAN SCHALKWYK

Actions noted

SIGNATURE:

DATE

☐ REPORT COMPLIANT WITH THE PROVISIONS OF COUNCIL'S DELEGATIONS, POLICIES, BY-LAWS AND ALL LEGISLATION RELATING TO THE MATTER UNDER CONSIDERATION.

LEGAL COMPLIANCE

☐ NON-COMPLIANT

COMMENT:

NAME

TEL

DATE

Certified as legally compliant based on the contents of the report.

CITY MANAGER

☒ NOTED

☒ REFER TO THE MAYORAL COMMITTEE VIA THE RELEVANT SECTION 79 COMMITTEE

DATE

COMMENT: