



**Kadri Nassiep**  
Executive Director: Energy

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**MEMORANDUM**

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Date: 4 September 2023  
To: City Manager  
Subject: Trip Feedback report for international trips: Shane Prins RES4Africa ATC Milan  
November 2022- late report

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The attached trip feedback report dated 12 December 2022 has reference.

The manager Generation Development and Municipal Energy Efficiency attended the RES4Africa Advanced Training Course in Milan, Italy in November 2022.

A trip feedback report was submitted to the office of the Executive Director on 14 December 2022 for submission and inclusion on the Mayco agenda for January 2023.

Due to an administrative oversight, the report was not processed for ED approval since the official responsible for processing the report was about to proceed on annual leave in December 2022 and only returned to the office on 16 January 2023. The official was then booked off sick for 7 weeks between February and March 2023. No handover or follow-up was completed and subsequently the report was not submitted for further approval.

Once the oversight came to light, appropriate and immediate corrective action was implemented against the responsible official and an informal counselling session was concluded.

The attached report is now submitted for further approval and onward submission to Mayco.

Yours sincerely,

Mr. Kadri M Nassiep  
Executive Director: Energy



**REPORT TO: CITY MANAGER**

**TO BE REFERRED BY THE OFFICIAL TO MAYCO VIA THE RELEVANT ENERGY  
PORTFOLIO COMMITTEE 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 18 NOVEMBER 2022 TO 3 DECEMBER  
2022 TO ATTEND THE RES4AFRICA ADVANCED TRAINING COURSE IN  
MILAN, ITALY**

**ONDERWERP**

**TERUGVOERING OOR DIE INTERNASIONALE REIS (BUITE DIE GRENSE  
VAN DIE RSA) VAN 18 NOVEMBER 2022 TOT 3 DESEMBER 2022 VIR DIE  
BYWONING VAN DIE RES4AFRICA- GEVORDERDE  
OPLEIDINGSKURSUS IN MILAAN, ITALIë**

**ISIHLOKO**

**INGXELO ENGOHAMBO OLUYA PHESHEYA OKANYE NGAPHAYA  
KWEEBHODA ZOMZANTSI AFRIKA OLUTHATYATHWE UKUSUSELA  
NGOWE18 KWEYENKANGA 2022 UKUYA KOWE3 KWEYOMNGA 2022  
LOKUZIMASA IZIFUNDO ZOQEQESHO OLUPHUCULIWEYO LWE-  
RES4AFRICA EMILAN, ITALY**

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**3. EVENT SUMMARY**

EVENT DETAILS	
CONFERENCE/SEMINAR	RES4Africa Advanced Training Course
OTHER	Attending of advanced training course on renewable energy technologies, integration and financing
DATE	10 days
VENUE	1) Polimi Graduate School of Management, Milan, Italy 2) Bocconi University, Milan, Italy
TOTAL COST TO THE CITY	R29 276.59
CITY	Milan
COUNTRY	Italy

ATTENDEE DETAILS	
NAME AND SURNAME	DESIGNATION
Shane Marcelo Prins	<b>MANAGER: GENERATION DEVELOPMENT AND MUNICIPAL ENERGY EFFICIENCY</b>
PROVIDE SUMMARY OF HOST ORGANISATION / CITY	
RES4Africa Foundation is a non-profitable foundation, whose purpose is to promote the dialogue with key stakeholders from Southern and Eastern Mediterranean countries. The association is currently widening the scope of its activity through the RES4Africa Project to Sub-Saharan Africa.	

#### 4. OBJECTIVE

RES4Africa Foundation arranged a two weeks Advanced Training course (ATC) in partnership with Enel Foundation, Politecnico di Milano and Bocconi University. The course was primarily addressed to middle managers with an appropriate seniority, selected among public institutions, energy companies, energy centers, universities and research agencies operating in the Mediterranean basin and in Sub-Saharan Africa.

The Advanced Training Course covered a broad range of topics highly relevant to the City's transition towards sustainable energy use. The course covered topics from both an energy procurement, as well as own-build generation perspective. Technical issues, commercial considerations and financing of projects within the changing international energy landscape was explored in-depth.

#### 5. OUTCOMES

The transition to an energy secure and resilient City will create further opportunities for economic growth and jobs within the City. Balancing this transition and maximizing the potential benefits related to renewable energy roll-out and additional generation capacity will be valuable learnings obtained from the training provided by RES4Africa. City will benefit from the learnings as part of the Advanced Training Course in structuring our response to the energy transition, both locally and internationally.

The City has embarked on a strategic drive towards energy security, the use of sustainable energy technologies and the creation of opportunities for economic growth. This knowledge exchange through a sponsored training course with international experts and utility executives will enhance the ability of Cape Town to consider and implement learnings related to the energy transition, utilisation of existing power generation technologies and the optimal creation of economic opportunities for its citizens.

Some of the learnings obtained at the 10day course:

- Out of total global RE capacity deployed over the past decade, only 2% has been in Africa.
- It is foreseen that both oil and gas demand will start to decrease over the next decade, leading to lower investment and availability of the fossil fuels.
- Africa possesses a significant wind energy resource, able to meet continental electricity demand many times over.

- Four phases of VRE integration can be identified according to penetration and resulting effort and costs for the system to accommodate this integration. These are:
  - Phase 1 – RE generation not noticeable
  - Phase 2 – Net load changes
  - Phase 3 – Enhanced flexibility required
  - Phase 4 – Possible stability issues
- RE integration challenges can be overcome by selecting the most appropriate technical and optimal economic solutions
- The efficacy of energy efficiency initiatives can be enhanced and its footprint broadened through the use of incentives
- Green Hydrogen will play a key role in the net zero scenario but cannot be the only solution. Its best use is to decarbonize those sectors of the economy that cannot be easily or economically electrified, e.g. hard-to-abate industries such as transport.
- Energy Communities is a very powerful tool to cede control of distributed energy sources to those consumers most directly affected. This is an exciting development and has the potential to be rolled out in the country.
- A Circular Economy is an economy based on the principles of designing out waste and pollution by keeping products and materials in use, and maximizing the value of resources, thus regenerating natural systems. This principle can be employed e.g. in the design, manufacturing and recycling of wind turbines.
- Responding to climate change involves a two-pronged approach:
  - Mitigation
  - Adaptation
- It must be noted that the costs associated with adaptation far exceeds that of mitigation, however the actual impact of mitigation is limited.
- An overview of battery energy storage technologies and applications revealed multiple use cases that can be deployed for the benefit of the City, and aligns very well with our current thinking within the Energy Directorate.
- The various commercial options on engaging the market, including through auctions was thoroughly covered, specifically the various pros and cons of closed vs open auctions.
- Project vs Corporate Finance, their applications in financing energy projects and the allocation of risk between the off-taker, lender and IPP was thoroughly expanded upon. The best approach to mitigate risks is to share them among the parties who are the best-placed to efficiently handle them.√
- The electricity grid, as a powerful enabler of decarbonisation, was covered in detail.

## 6. ACTIONS REQUIRED

Application of course learnings in the development and implementation of the City's renewable energy program. The implementation of these various learnings will be driven through the Manager: Generation Development and Municipal Energy Efficiency (GDMEE), as part of Sustainable Energy Markets (SEM) in the Energy Directorate.

## 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 XL Embassy Travel 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 RES4Africa Advanced Training Course undertaken by Shane Marcelo Prins on 18 November 2022 be considered and noted.

### AANBEVELINGS

Daar word aanbeveel die terugvoeringsverslag oor Shane Marcelo Prins se reis vir die bywoning van die RES4Africa- gevorderde opleidingskursus van 18 November 2022 tot 3 Desember 2022 oorweeg word en daarvan kennis geneem word.

### IZINDULULO

Kundululwe ukuba makuthathelwe ingqalelo kwaye kuqwalaselwe ingxelo engohambo oluya kwiZifundo zoQeqesho oluPhuculiweyo lweRES4Africa oluthatyathwe nguShane Marcelo Prins ngowe18 kweyeNkanga 2022 ukuya kowe3 kweyoMnga 2022.


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## 9. GENERAL DISCUSSION

None

10. ANNEXURES  
None

FOR FURTHER DETAILS, CONTACT:

DATE	12 December 2022		
NAME	Shane Marcelo Prins	CONTACT NUMBER	0796970063
E-MAIL ADDRESS	Shane.prins2@capetown.gov.za		
DIRECTORATE	Energy	FILE NO	REF n/a
SIGNATURE :			

EXECUTIVE DIRECTOR: ENERGY

KADRI NASSIEP

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

COMMENT:

CONDONATION OF LATE  
PROCESSING OF TRAVEL REPORT  
REQUESTED

SIGNATURE:

NAME

DATE

  
KADRI NASSIEP

04/09/23

MANAGER: INTERNATIONAL RELATIONS

COMMENT:

DR. DENVER VAN SCHALKWYK

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 content of the report.

**CITY MANAGER**

☒ NOTED

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

DATE

COMMENT: