

| PART A REQUEST FOR INFORMATION (RFI)    |  |  |  |  |
|---|--|--|--|--|
| Description of the works/goods/services | Request for Information on the Product Realisation and Innovation  |  |  |  |
| Deadline for submission                 | 01 August 2022  At (South African Standard Time)  At (South Indian India |  |  |  |
| Tender Office address                   | Retail Centre Megawatt Park 1 Maxwell Drive Sunninghill 2000   |  |  |  |

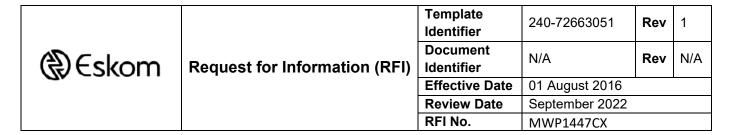
Eskom Holdings SOC Ltd ("Eskom") invites you to submit an:

- Request for information (RFI) to submit information for the works/goods/services as stated in the
  table. This RFI is a stand-alone information-gathering and market-testing exercise, intended only
  to inform and assist Eskom's further deliberation and development of a strategy for the Unsolicited
  Research and Evaluation of the Product Realisation and Innovation in the following areas:
  - a) Renewables and green technology and storage.
  - b) Application of artificial intelligence (AI), machine learning, blockchain, cyber security, drones, etc.
  - c) Repurposing of fossil fuel fed power plants.
  - d) New energy production technologies.
  - e) Green fuels production and applications.
  - f) Demand side management
  - g) E-mobility.
  - h) Transmission Technologies
  - i) Distribution Technologies
  - j) Generation Technologies
  - k) Waste to Energy Technologies

Eskom has delegated the responsibility for this **RFI** to the signatory of this document, whose details can be found below.

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We look forward to receipt of your response.

## Yours faithfully

| Name             | Designation         | Signature                 | Date        |
|------------------|---------------------|---------------------------|-------------|
| Damela Mathetja  | Procurement Manager | Matheja                   | 22 Jun 2022 |
| Telephone number | 011 800 5611        | Fax and/or e-mail address |             |

#### 1. BACKGROUND INFORMATION

The government has provided a framework within which unsolicited proposals/concepts may be considered in state owned enterprises (SOE)

This has created an environment where advantage can be taken, by SOE's of the private sector's capacity to conceptualise, package and develop projects whilst ensuring and protecting public policy objectives at the same time.

To take advantage of these provisions, Eskom through RT&D is scoping the market for novel and innovative solutions that may assist in addressing and alleviating the present challenges experienced by the business to enhance its competitive advantage.

# 2. OBJECTIVE OF THE RFI

- Reduction of emissions and compliance to national standards;
- Stabilise electricity supply resulting in a gradual cessation of load-shedding;
- Optimum management of municipality debt;
- Acquiring technologies to enable repurposing of fossil fuelled power stations whilst maintaining social cohesion and stability in affected communities and livelihoods.
- Maintaining a competitive stake in power production environment.
- Acquiring a market leader status in power generation, transmission and distribution whilst maintaining a reduced carbon footprint and adopting green energy technologies.
- Knowledge of the market trends in power generation, distribution, and transmission.
- Influence Eskom's corporate strategy and key performance indicators.

#### METHOD AND PLACE OF DELIVERY

All the responses must be sealed and be delivered at the tender box located at the following:

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# Request for Information (RFI)

| Template<br>Identifier | 240-72663051   | Rev | 1   |
|------------------------|----------------|-----|-----|
| Document Identifier    | N/A            | Rev | N/A |
| Effective Date         | 01 August 2016 |     |     |
| Review Date            | September 2022 |     |     |
| RFI No.                | MWP1447CX      |     |     |

THE TENDER OFFICE
Eskom Megawatt Park Tender office
Northside (Retail Centre)
Maxwell Drive
Sunninghill

All RFI responses must be clearly marked: "MWP1447CX Request for Information on the Product Realisation and Innovation"

#### FORMAT OF SUBMISSION

The respondent shall be submitted as 1 (one) printed original RFI, plus 1 (one) printed copy.

| PART B RESPONSE SHEET IN TERMS OF A REQUEST FOR AN EXPRESSION OF INTEREST /REQUEST FOR INFORMATION To be completed by the supplier |                        |                |                     |  |  |
|--|------------------------|----------------|---------------------|--|--|
| То   | Eskom Holdings SOC Ltd | Date           | 22 June 2022        |  |  |
| Attention  | Zekhaya Nzima          |                |                     |  |  |
| Tel no   | 011 516 7042           | E-mail address | NzimaZZ@eskom.co.za |  |  |
| From   |                        | Address        |                     |  |  |
| Address  |                        |                |                     |  |  |
| Sender   |                        |                |                     |  |  |
| Description of the works/goods/services  |                        |                |                     |  |  |

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| AD Calaana |                               | Document               | N/A            | Rev  | N/A  |
| €skom      | Request for Information (RFI) | Identifier             | 14,7 (         | 1101 | ,, . |
| <b>Q</b> , |                               | Effective Date         | 01 August 2016 |      |      |
|            |                               | Review Date            | September 2022 |      |      |
|            |                               | RFI No.                | MWP1447CX      |      |      |

Please find below our response to Eskom's questions:

# Table A:

| No. | Question   | Please indicate your response in this |
|-----|--|---------------------------------------|
|     |  | column                                |
|     | Company name and registration number   |                                       |
| 1.  | Company name and registration number.  |                                       |
|     |  |                                       |
| 2.  | Contact name and details.  |                                       |
|     |  |                                       |
|     |  |                                       |
| 3.  | Detailed description of the proposed technology solution.                        |                                       |
|     | Solution.  |                                       |
| 4.  | Brief description of previous experience on the                                  |                                       |
|     | proposed technology solution.  |                                       |
|     |  |                                       |
| 5.  | At what stage of development is the solution.                                    |                                       |
|     |  |                                       |
| 6.  | Description of the operation of the solution.                                    |                                       |
|     |  |                                       |
| _   |  |                                       |
| 7.  | PLEASE PROVIDE THE DETAILS OF WHERE THE INSTALLATIONS. THE INFORMATION TO INCLUD |                                       |
|     | INSTALLATIONS. THE INFORMATION TO INCLUD   | E, INTER ALIA, THE FOLLOWING:         |
|     |  |                                       |
| 7.1 | Year of installation.  |                                       |
|     |  |                                       |
| 7.2 | Size of installation.  |                                       |
| 1.2 | Size of installation.  |                                       |
|     |  |                                       |
| 7.3 | Detailed discussion of the problem that the                                      |                                       |
|     | solution is to solve.  |                                       |
|     |  |                                       |

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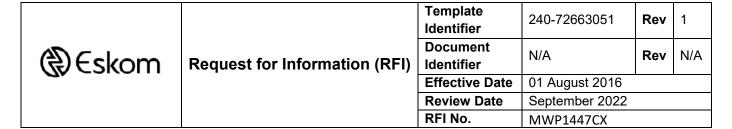


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|                               | RFI No.        | MWP1447CX      |      |      |

| 7.4 | Why is the solution preferred?  |           |
|-----|---|-----------|
| 7.5 | Has the solution been modelled or simulated? Elaborate on methodology.  |           |
| 7.6 | Technical outcomes/results of the modelling or performance of the installation.   |           |
| 7.7 | Has a Life Cycle Assessment (LCA) of the proposed solution been undertaken (ISO 14040)? If yes, provide detailed assessment.  |           |
| 7.8 | Provide Return on Investment calculations and analysis.   |           |
| 7.9 | List of sites where the solution is planned to be implemented and estimated timelines.  |           |
| 8.  | TECHNOLOGY RESEARCH (If currently in research   | n phase). |
| 8.1 | Detailed studies of the proposed solution.  |           |
| 8.2 | Date of release of the proposed solution: Describe the status of the solution, for example as generally available, solution to be released, solution to be designed or by equivalent terminology. |           |
| 9.  | TECHNOLOGY SUPPORT IN SOUTH AFRICA  |           |
| 9.1 | List the local and international suppliers of the solution.   |           |
| 9.2 | List the local and international support of the solution.   |           |
| 9.3 | Provide spare management philosophy/ policy   |           |

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| 9.4  | Are specification and operational documents of the solution available?  |  |
|------|---|--|
| 10.  | TRAINING SKILLS REQUIREMENTS  |  |
| 10.1 | Identify the training/skills requirements to install, operate and maintain the solution.  |  |
| 10.2 | Is the proponent able to provide training for installation, operation and maintenance for the proposed solution to Eskom employees? |  |

# Yours faithfully

| Name             | Designation | Signature         | Date |
|------------------|-------------|-------------------|------|
|                  |             |                   |      |
|                  |             |                   |      |
| Telephone number |             | Fax and/or e-mail |      |
|                  |             | address           |      |

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