











PROPOSED GRID CONNECTION FOR KOUP 2 WIND ENERGY FACILITY

NEAR BEAUFORT WEST, WESTERN CAPE PROVINCE

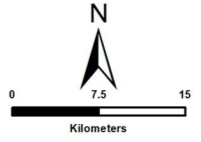
REGIONAL CONTEXT


Legend

-  Main Towns
 -  Provincial Boundary
 -  Local Municipal Boundaries
 -  National Routes
 -  Main Arterial Routes
 -  Koup 2 WEF Application Site
 -  Central Strategic Transmission Corridor
- #### Proposed Grid Connection
-  Grid Connection Assessment Corridors
 -  Proposed Substations Site Alternatives
 -  Proposed Koup 1 Collector Substation Alternatives

SOURCE:
DFFE, 2021
MUNICIPAL DEMARCATION BOARD, 2016
NGI, 2014





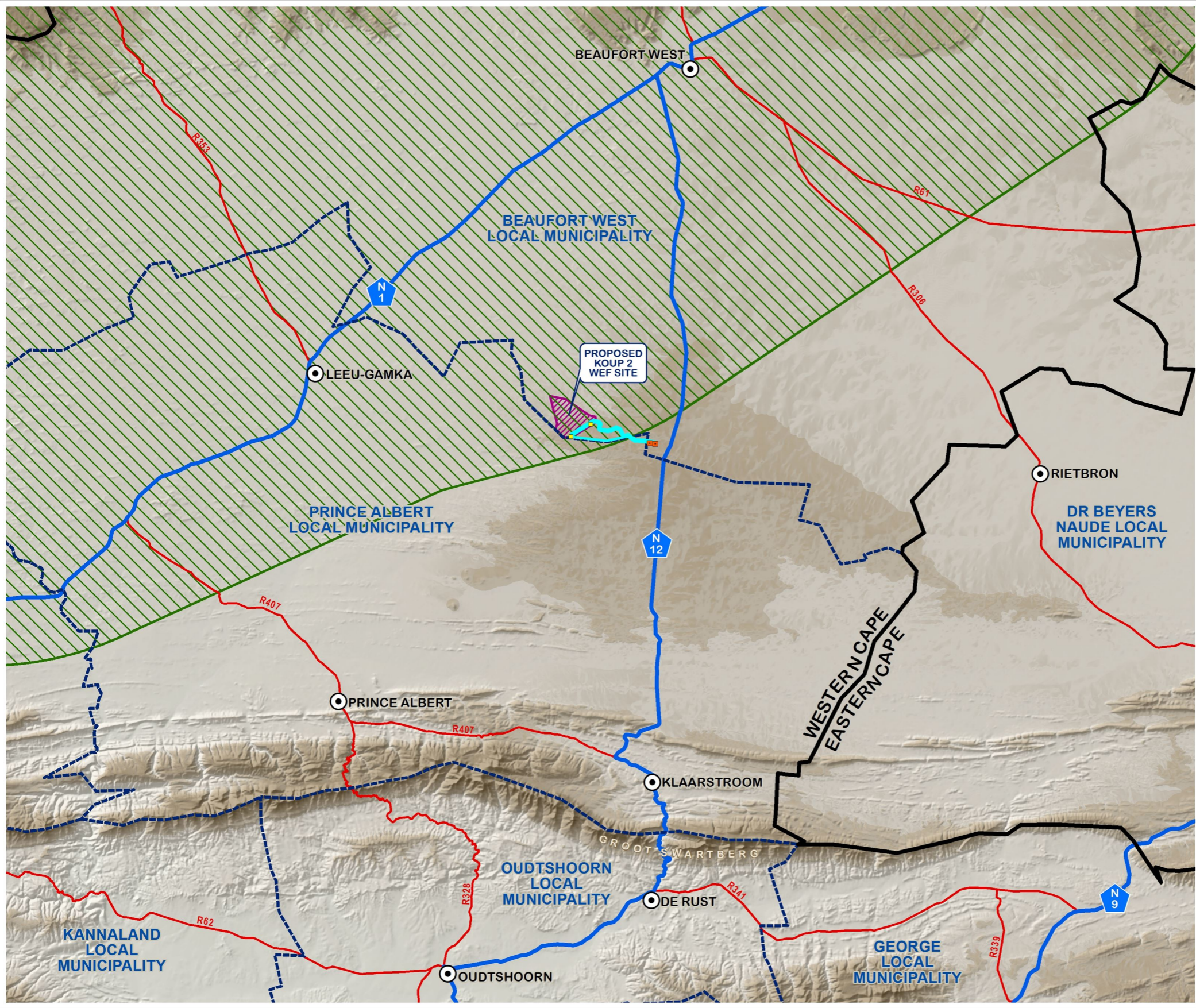


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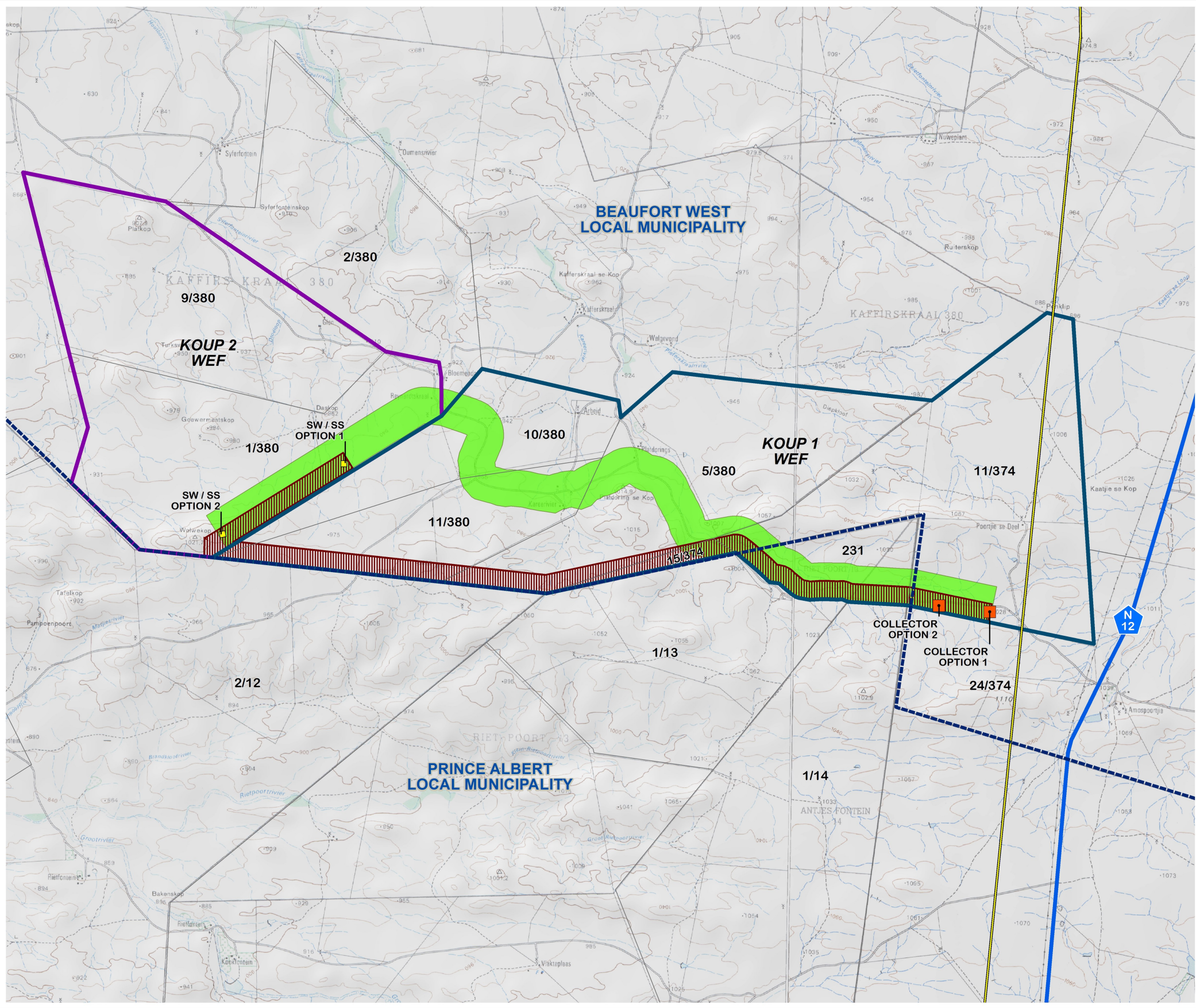
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PROPOSED GRID CONNECTION FOR KOUPI 2 WIND ENERGY FACILITY

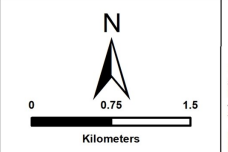
NEAR BEAUFORT WEST, WESTERN CAPE PROVINCE

ROUTE ALIGNMENT



- Legend**
- Local Municipal Boundaries
 - National Route (N12)
 - Local Access
 - Existing High Voltage Power Lines (400kV)
 - Farm Portions
 - Koupi 1 WEF Application
 - Koupi 2 WEF Application
- Proposed Grid Connection**
- Power Line Corridor Option 1
 - Power Line Corridor Option 2
 - Proposed Substation Site Alternatives
 - Proposed Koupi 1 Collector Substation Alternatives

SOURCE:
ESKOM, 2011
MUNICIPAL DEMARCATION BOARD, 2016
NGI, 2014



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**PROPOSED
GRID CONNECTION FOR
KOUPI 2 WIND ENERGY
FACILITY**
NEAR BEAUFORT WEST,
WESTERN CAPE PROVINCE
TOPOGRAPHY




Legend

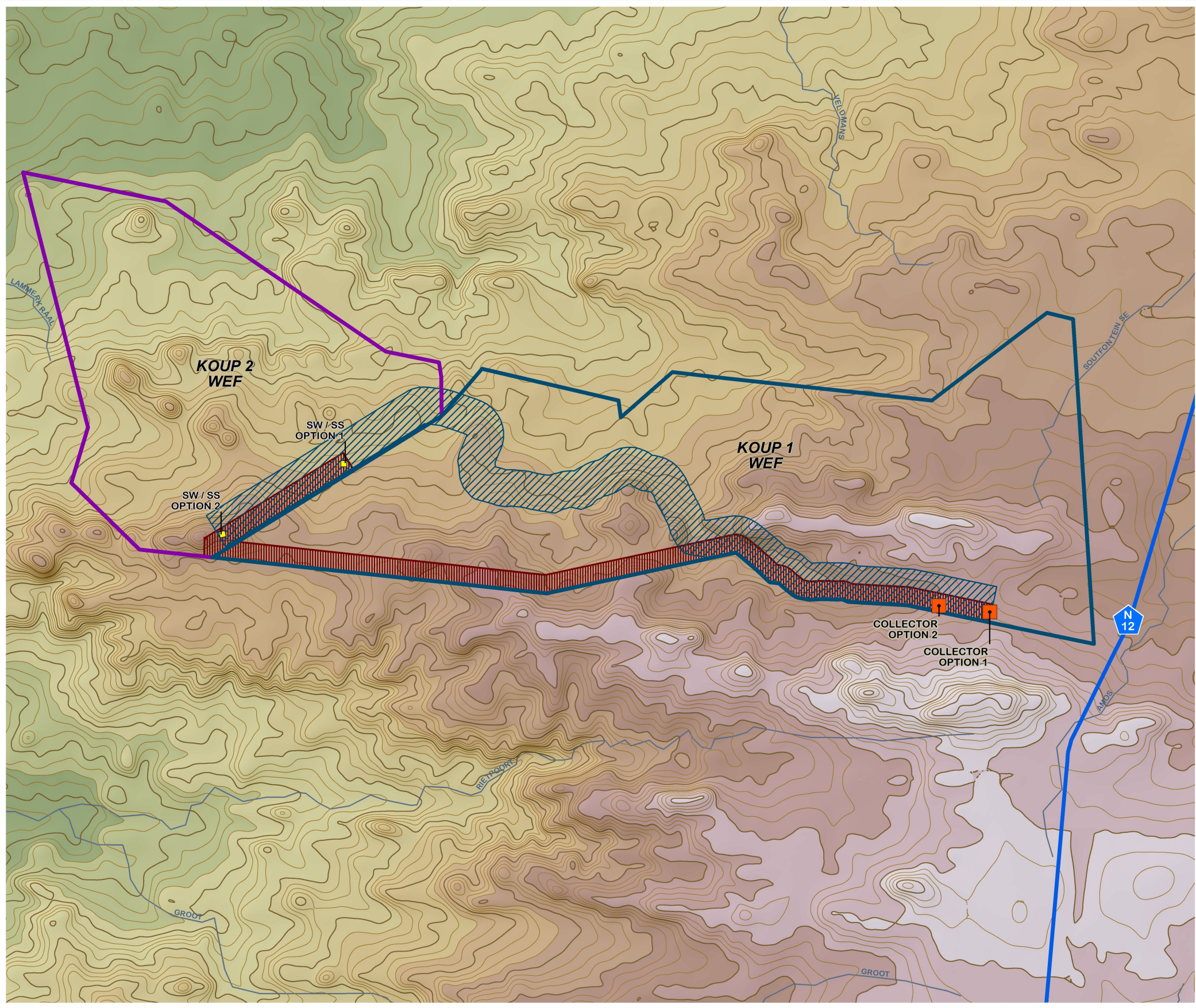
-  National Route (N12)
-  Rivers
-  Contours (20m Interval)
-  Contours (5m Interval)
-  Koupi 1 WEF Application Site
-  Koupi 2 WEF Application Site

Proposed Grid Connection

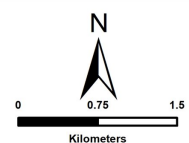
-  Power Line Corridor Option 1
-  Power Line Corridor Option 2
-  Proposed Substation Site Alternatives
-  Proposed Koupi 1 Collector Substation Alternatives

Elevation (msl)

-  High: >1,060m
- 
-  Low: <= 800m



SOURCE:
NFEPA, 2011
NGI, 2014



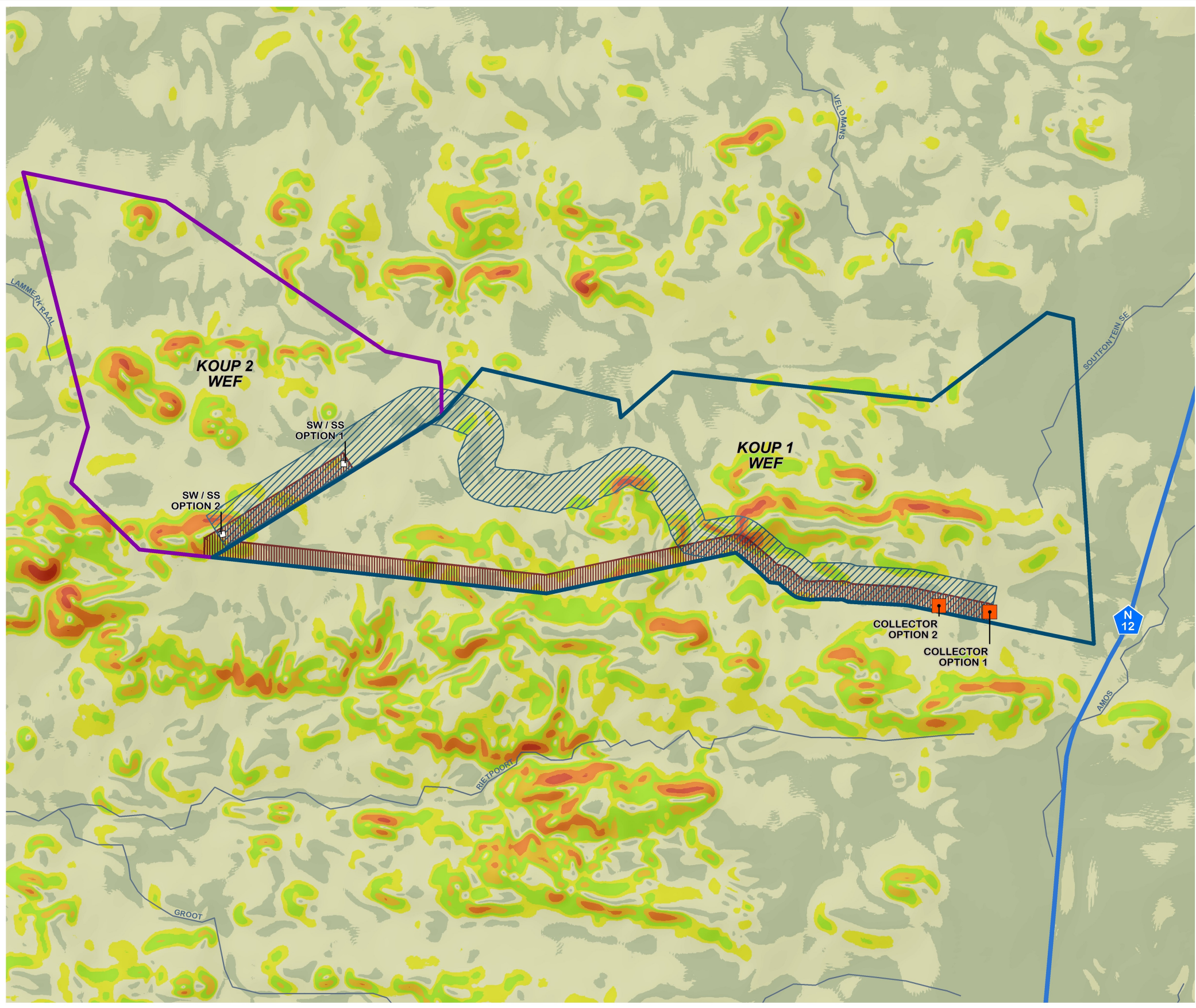
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**PROPOSED
GRID CONNECTION FOR
KOUPI 2 WIND ENERGY
FACILITY**
NEAR BEAUFORT WEST,
WESTERN CAPE PROVINCE
SLOPE CLASSIFICATION










Legend

-  National Route (N12)
-  Rivers
-  Koupi 1 WEF Application Site
-  Koupi 2 WEF Application Site

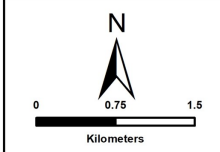
Proposed Grid Connection

-  Power Line Corridor Option 1
-  Power Line Corridor Option 2
-  Proposed Substation Site Alternatives
-  Proposed Koupi 1 Collector Substation Alternatives

Slope Classification

-  Flatter than 1:50
-  1:50 - 1:20
-  1:20 - 1:15
-  1:15 - 1:10
-  1:10 - 1:7.5
-  1:7.5 - 1:5
-  Steeper than 1:5

SOURCE:
NFEPA, 2011
NGI, 2014



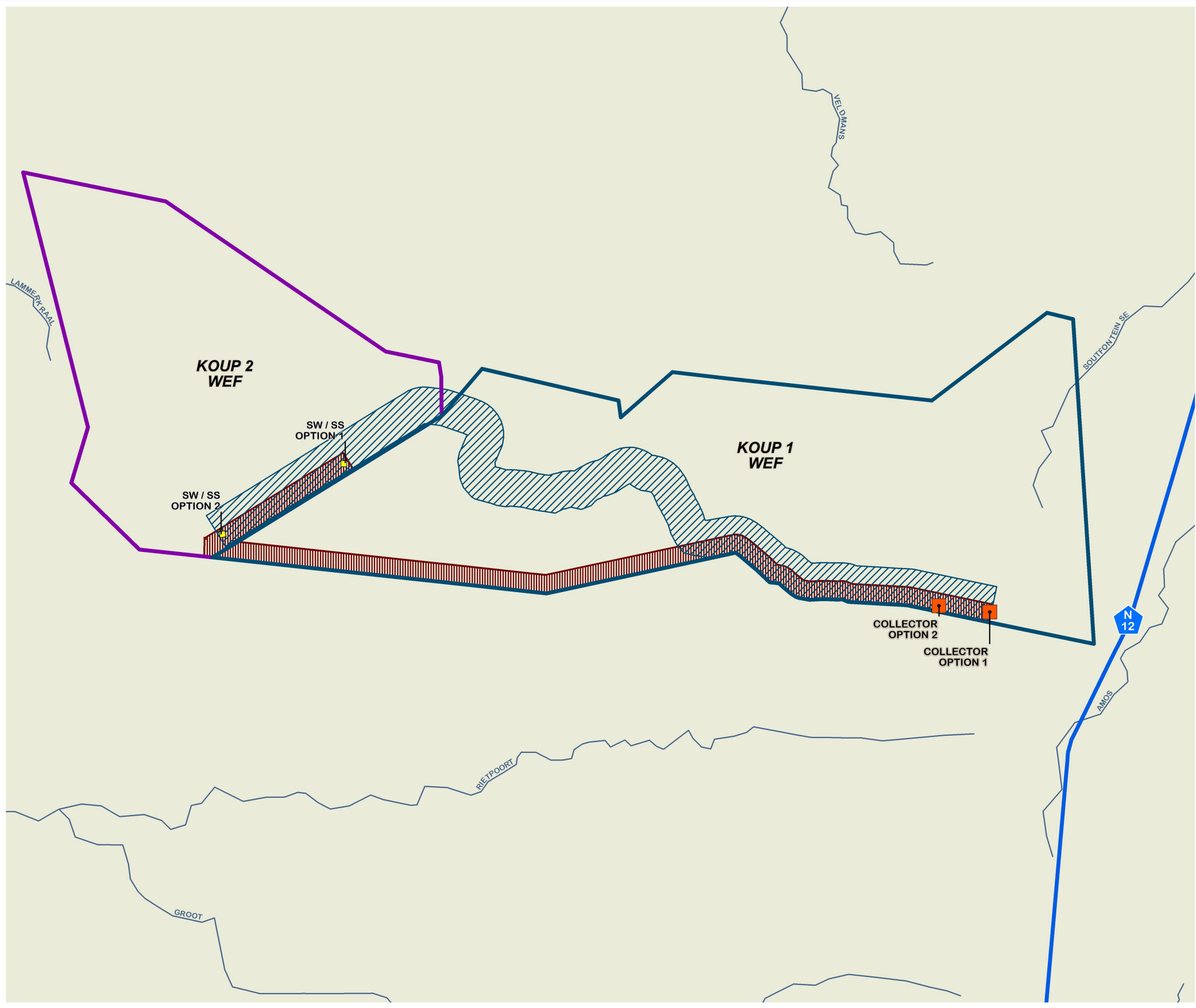
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Map Ref No 16017/K2_G04	Revision 0	Date










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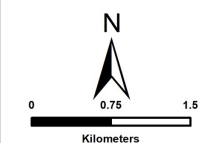
**PROPOSED
GRID CONNECTION FOR
KOUPI 2 WIND ENERGY
FACILITY**
NEAR BEAUFORT WEST,
WESTERN CAPE PROVINCE
VEGETATION CLASSIFICATION



Legend

-  National Route (N12)
-  Rivers
-  Koupi 1 WEF Application Site
-  Koupi 2 WEF Application Site
- Proposed Grid Connection**
-  Power Line Corridor Option 1
-  Power Line Corridor Option 2
-  Proposed Substation Site Alternatives
-  Proposed Koupi 1 Collector Substation Alternatives
- Vegetation Classification**
-  Gamka Karoo

SOURCE:
NFEPA, 2011
SANBI, 2018



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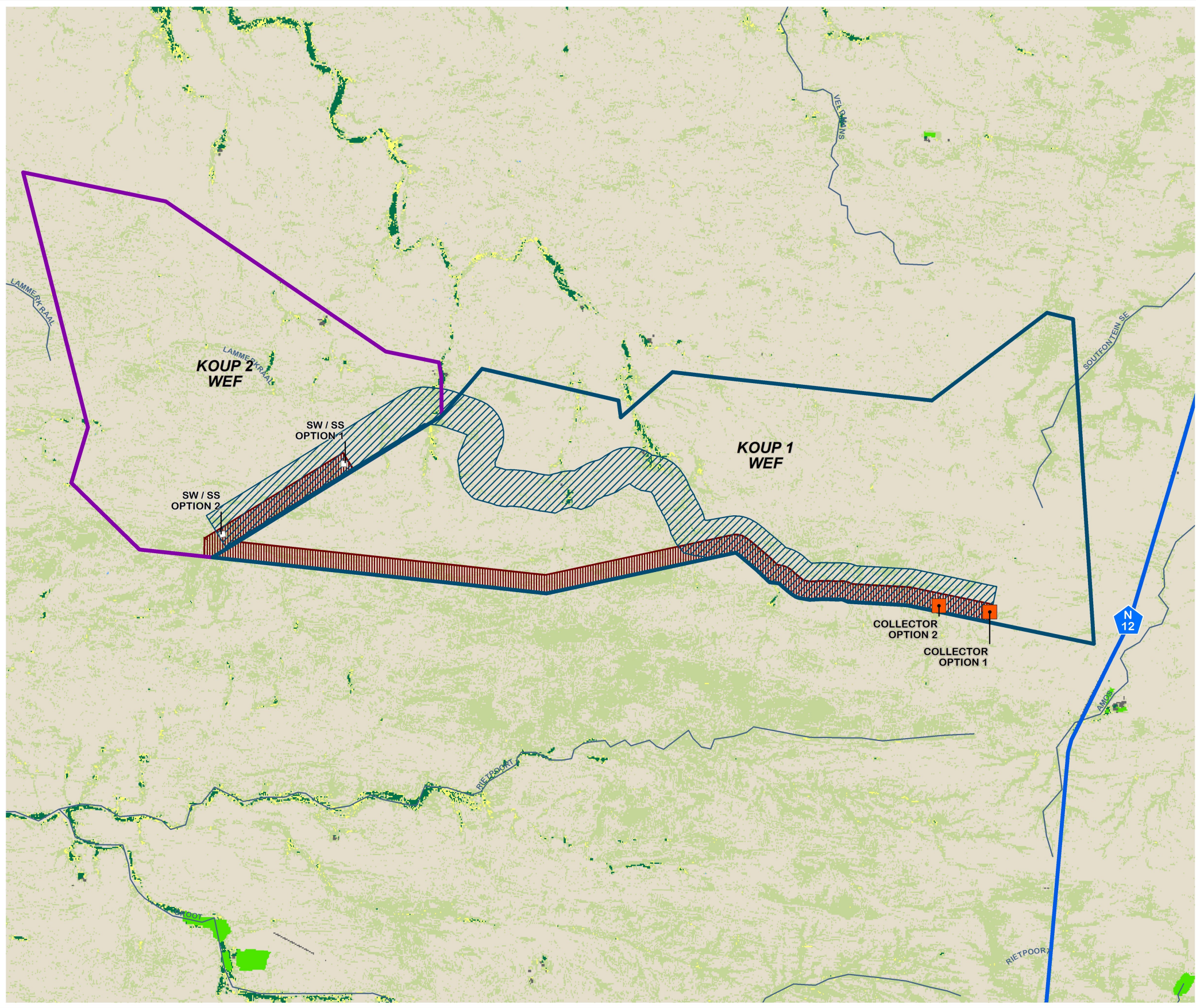
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






**PROPOSED
GRID CONNECTION FOR
KOUPI 2 WIND ENERGY
FACILITY**
NEAR BEAUFORT WEST,
WESTERN CAPE PROVINCE
BROAD LAND COVER
CLASSIFICATION




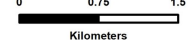
Legend


-  National Route (N12)
-  Rivers
-  Koupi 1 WEF Application Site
-  Koupi 2 WEF Application Site
- Proposed Grid Connection**
-  Power Line Corridor Option 1
-  Power Line Corridor Option 2
-  Proposed Substation Site Alternatives
-  Proposed Koupi 1 Collector Substation Alternatives

Land Cover Classification

-  Bare / Barren Land
-  Built-Up Areas
-  Cultivated Land
-  Forested Land
-  Grassland
-  Shrubland
-  Wetlands / Waterbodies

SOURCE:
NFEMA, 2011
2018 SA NATIONAL LAND COVER
(© GEOTERRAIMAGE - 2018)

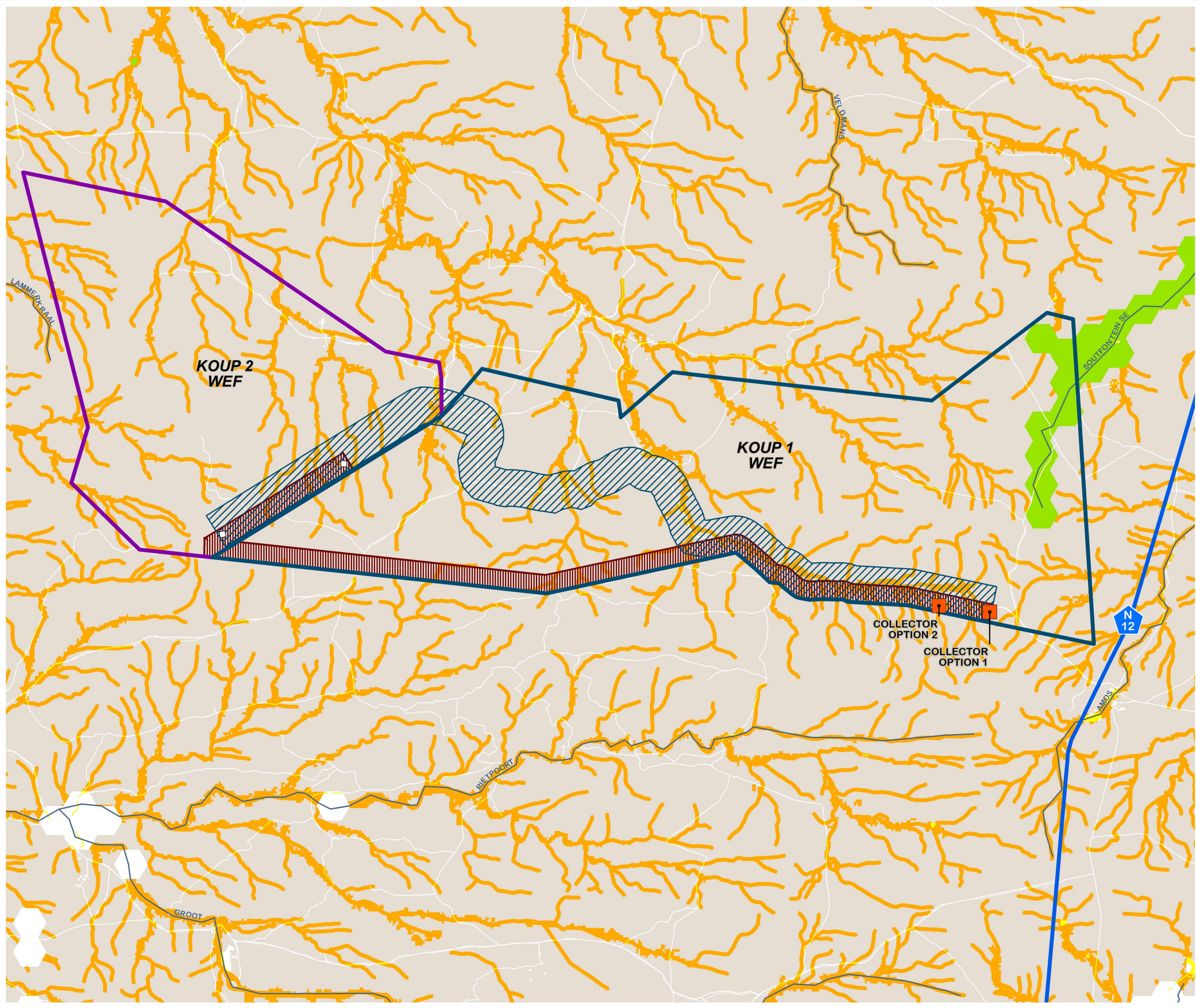

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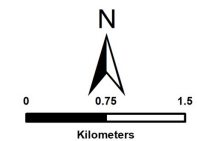
**PROPOSED
GRID CONNECTION FOR
KOUPE 2 WIND ENERGY
FACILITY**
NEAR BEAUFORT WEST,
WESTERN CAPE PROVINCE
CRITICAL BIODIVERSITY
AREAS



Legend

-  National Route (N12)
-  Rivers
-  Koupe 1 WEF Application Site
-  Koupe 2 WEF Application Site
- Proposed Grid Connection**
-  Power Line Corridor Option 1
-  Power Line Corridor Option 2
-  Proposed Substation Site Alternatives
-  Proposed Koupe 1 Collector Substation Alternatives
- CBA Classification**
-  CBA 1
-  ESA 1
-  ESA 2
-  Other Natural Areas

SOURCE:
NFEPA, 2011
WESTERN CAPE BIODIVERSITY SPATIAL PLAN, 2017



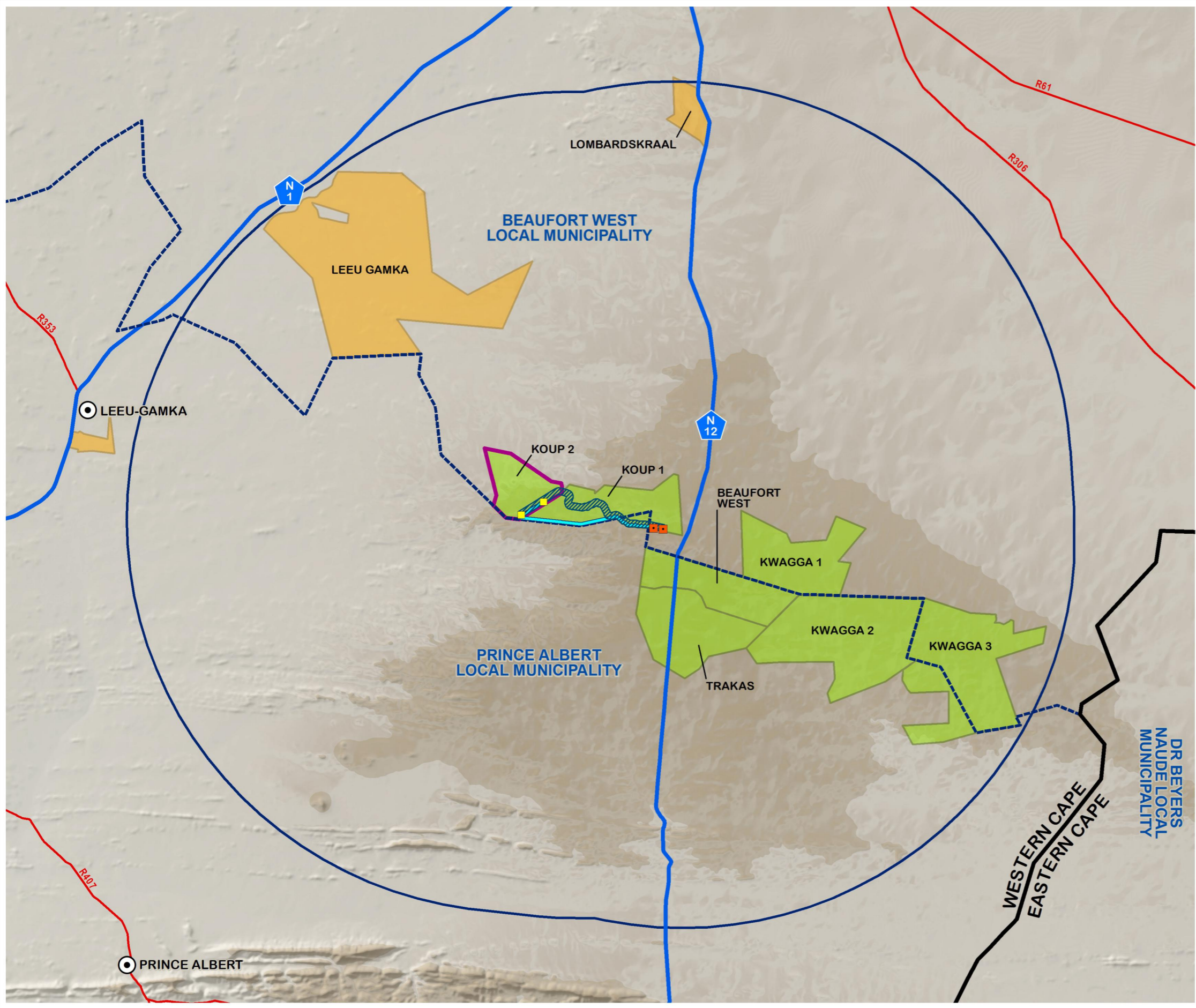
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**PROPOSED
GRID CONNECTION FOR
KOUPI 2 WIND ENERGY
FACILITY**
NEAR BEAUFORT WEST,
WESTERN CAPE PROVINCE
RENEWABLE ENERGY PROJECTS
(EXISTING AND PROPOSED)



Legend

- Main Towns
- Provincial Boundary
- Local Municipal Boundaries
- National Routes
- Main Arterial Routes
- Koup 2 WEF Application Site
- 35km Radius

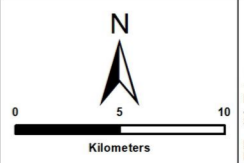
Proposed Grid Connection

- Power Line Corridor Option 1
- Power Line Corridor Option 2
- Proposed On-Site Substations
- Proposed Koup 1 Collector Substation Alternatives

Renewable Energy Application Sites

- Solar
- Wind

SOURCE:
DEFF, 2020
MUNICIPAL DEMARCATION BOARD, 2016
NGI, 2014



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