













## **Appendix 5**

### **Maps**




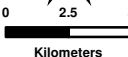
**PROPOSED  
CONSTRUCTION OF THE  
WONDERHEUVEL SOLAR  
PHOTOVOLTAIC (PV)  
ENERGY FACILITY  
NEAR NOUPOORT,  
NORTHERN CAPE PROVINCE  
REGIONAL CONTEXT**


**Legend**

-  Provincial Boundary
-  Local Municipal Boundaries
-  National Routes
-  Main Arterial Routes
-  Main Roads
-  Secondary Roads
-  Railways
-  Main Towns
-  Wonderheuveul Solar PV Application Site
-  Proposed On-Site Substations

SOURCE:  
MUNICIPAL DEMARCATION BOARD, 2011  
NGI, 2014



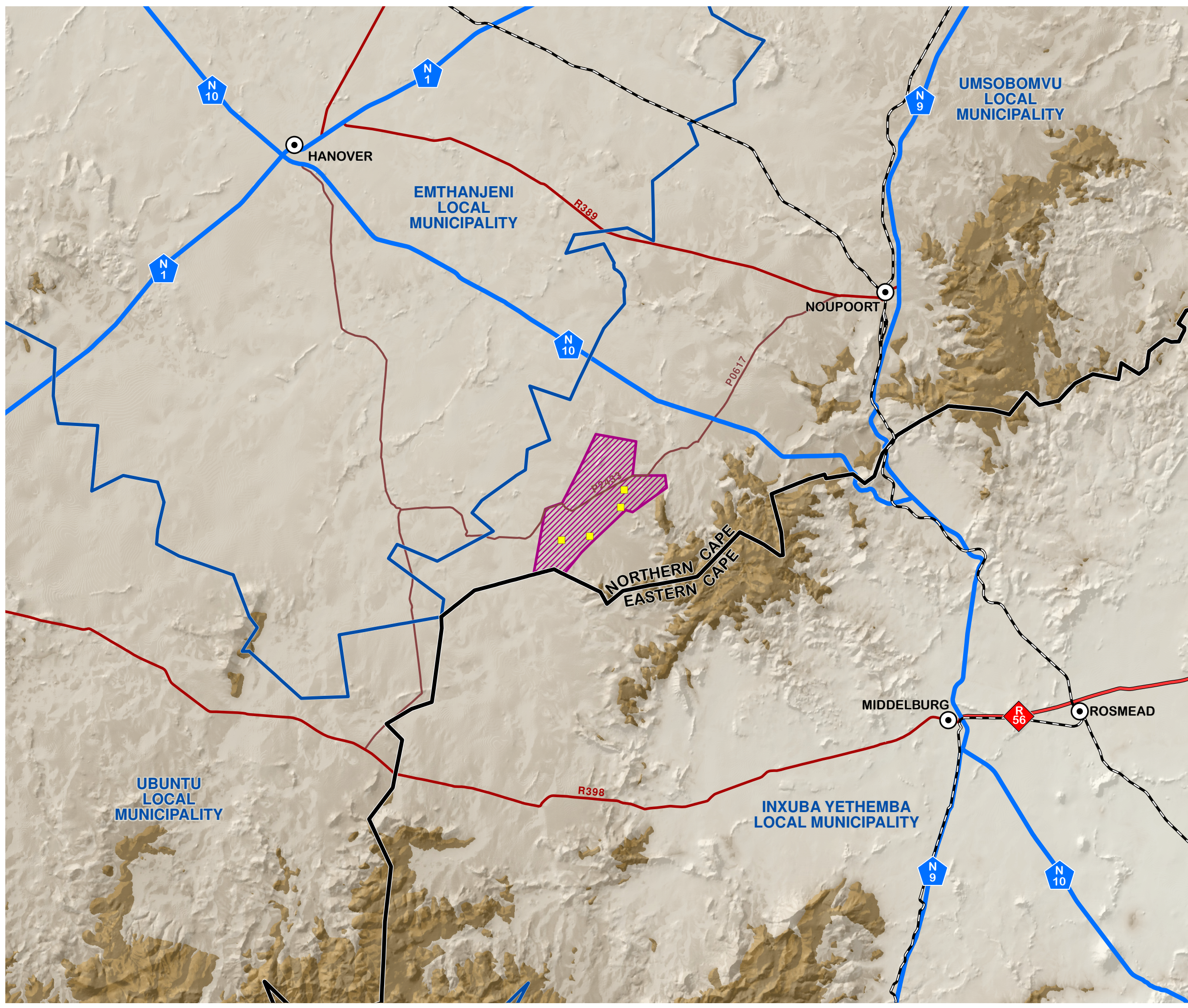
  


  
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<b>Project No</b> 15324	<b>Prepared By</b> KLS	<b>Date</b> 05/11/2019
<b>Map Ref No</b> 15324/WE_01	<b>Revision</b> 0	<b>Date</b> 

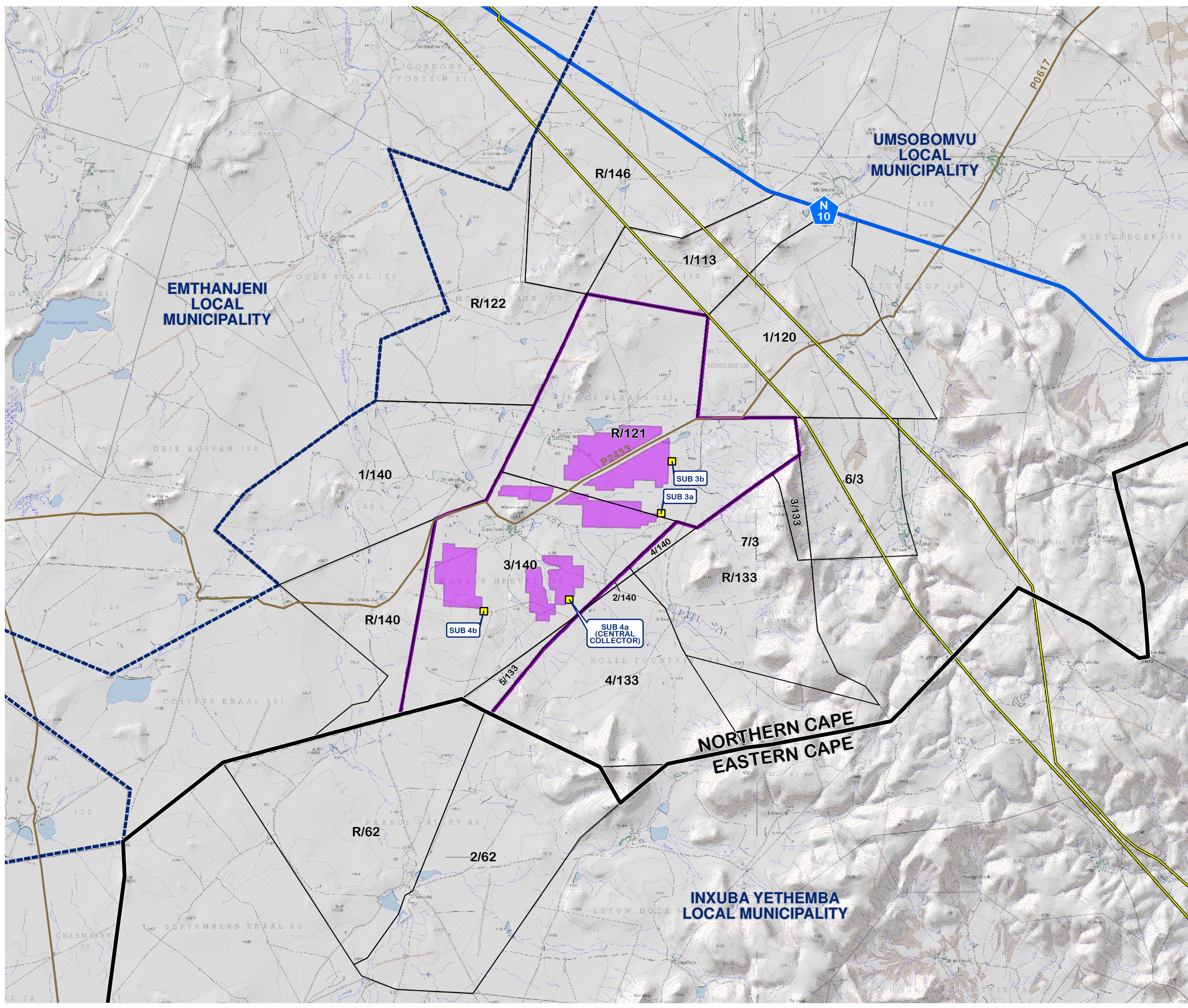
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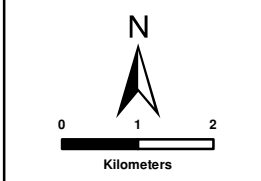
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PHOTOVOLTAIC (PV)  
ENERGY FACILITY**  
**NEAR NOUPOORT,  
NORTHERN CAPE PROVINCE  
SITE LOCALITY**



**Legend**

- Provincial Boundary
- Local Municipal Boundaries
- National Route (N10)
- Secondary Roads
- Existing High Voltage Power Lines (400kV)
- Farm Portions
- Wonderheuveld Solar PV Application Site
- PV Array Areas
- Proposed On-Site Substations

SOURCE:  
ESKOM, 2012  
MUNICIPAL DEMARCATION BOARD, 2016  
NGI, 2014



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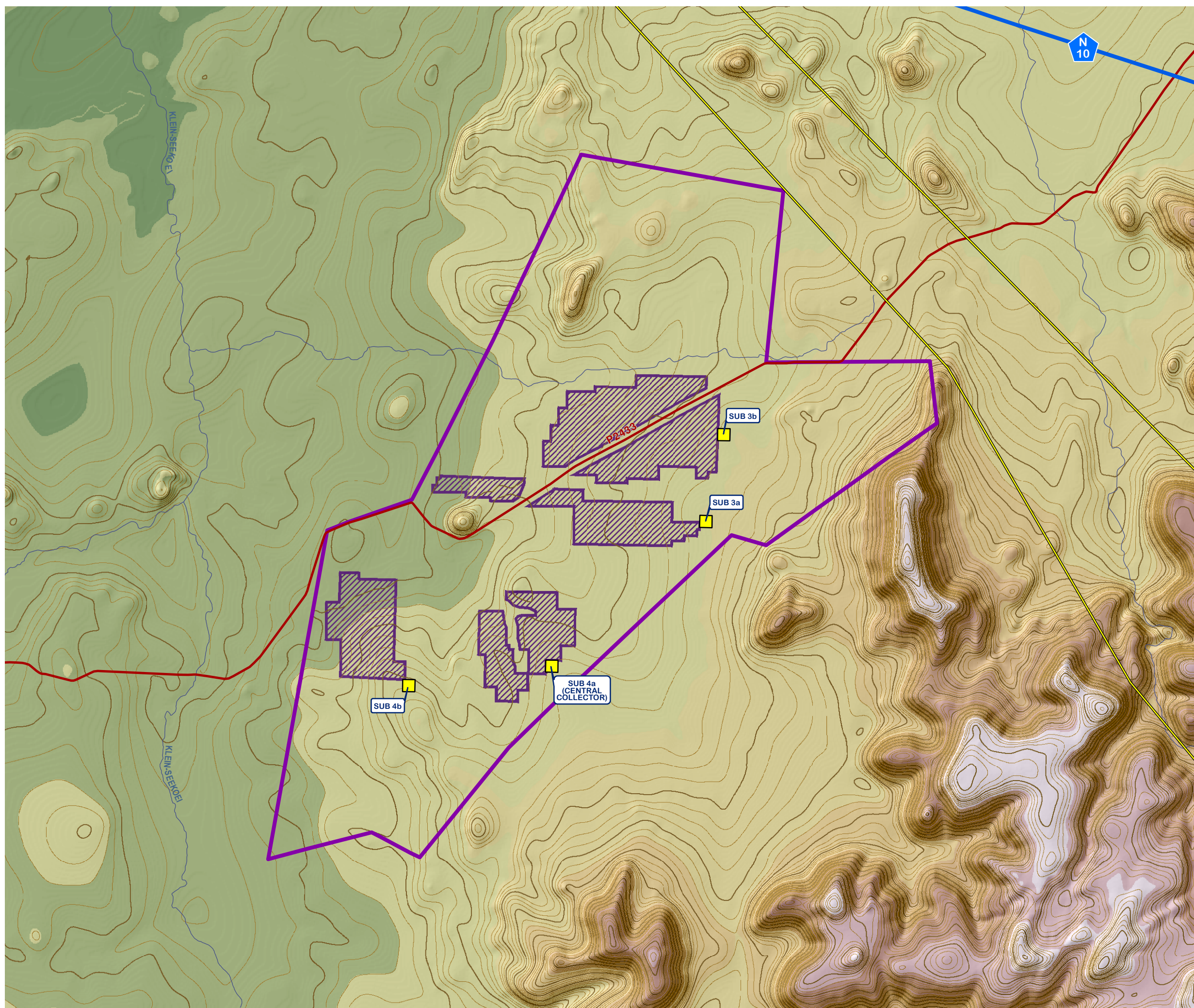
**PROPOSED  
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PHOTOVOLTAIC (PV)  
ENERGY FACILITY**  
**NEAR NOUPOORT,  
NORTHERN CAPE PROVINCE**  
**TOPOGRAPHY**

**Legend**


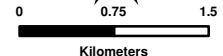

-  National Route (N10)
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Contours (20m Interval)
-  Contours (5m Interval)
-  Wonderheuvel Solar PV Application Site
-  PV Array Areas
-  Proposed On-Site Substations

**Elevation (msl)**

-  High: >1,800m
-  Low: <=1,400m



SOURCE:  
ESKOM, 2012  
MUNICIPAL DEMARCATION BOARD, 2016  
NGI, 2014

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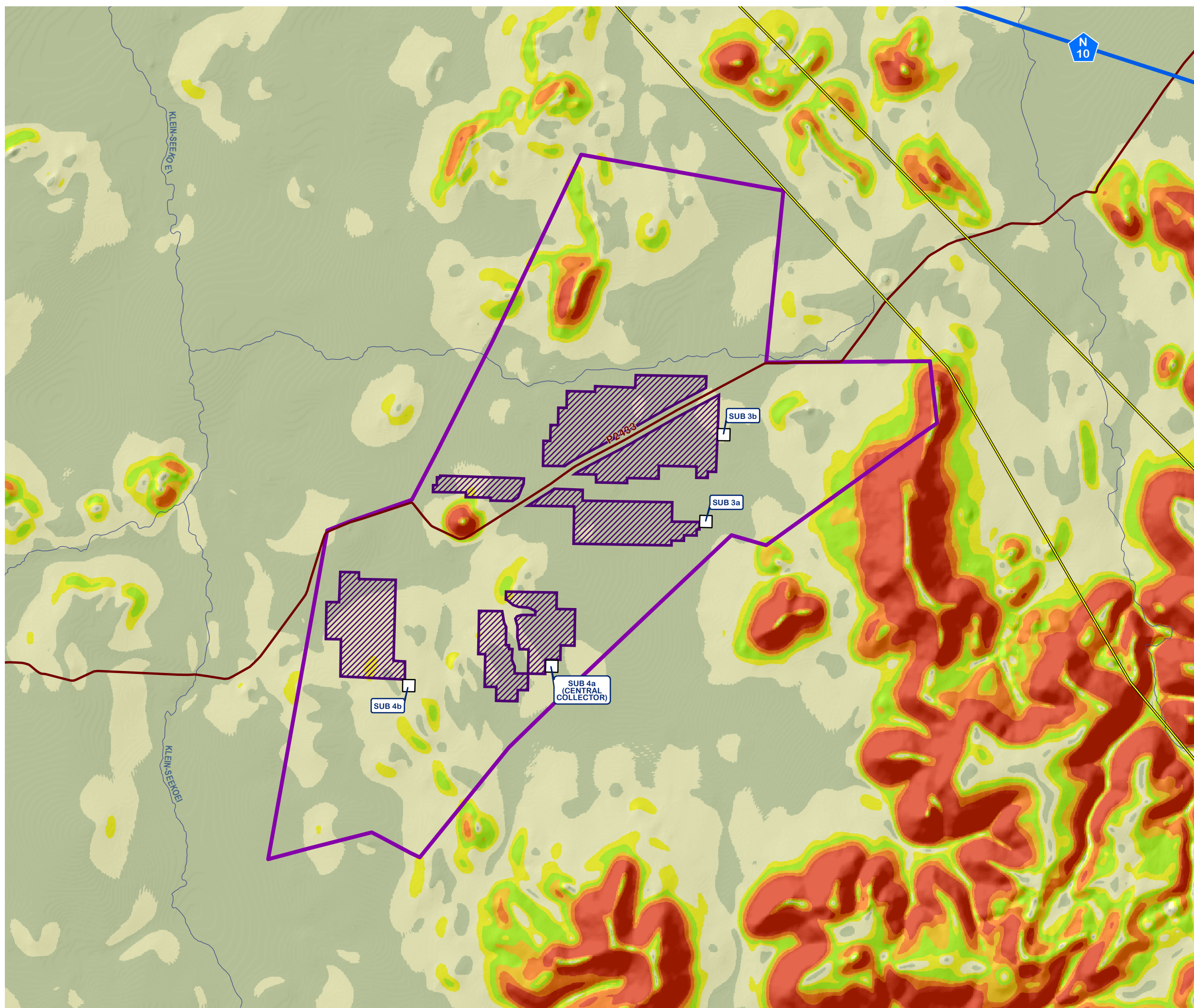
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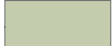






**PROPOSED  
CONSTRUCTION OF THE  
WONDERHEUVEL SOLAR  
PHOTOVOLTAIC (PV)  
ENERGY FACILITY**  
**NEAR NOUPOORT,  
NORTHERN CAPE PROVINCE**  
**SLOPE CLASSIFICATION**



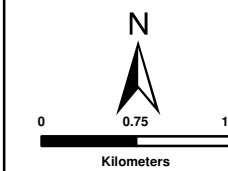
**Legend**

-  National Route (N10)
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Wonderheuvel Solar PV Application Site
-  PV Array Areas
-  Proposed On-Site Substations

**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:  
ESKOM, 2012  
MUNICIPAL DEMARCATION BOARD, 2016  
NGI, 2014



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PHOTOVOLTAIC (PV)  
ENERGY FACILITY**  
**NEAR NOUPOORT,  
NORTHERN CAPE PROVINCE**  
**VEGETATION CLASSIFICATION**

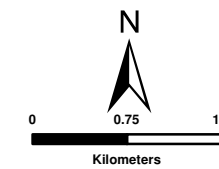
**Legend**

-  National Route (N10)
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Wonderheuvel Solar PV Application Site
-  PV Array Areas
-  Proposed On-Site Substations

**Vegetation Classification**

-  Besemkaree Koppies Shrubland
-  Eastern Upper Karoo

SOURCE:  
ESKOM, 2012  
NGI, 2014  
SANBI, 2012



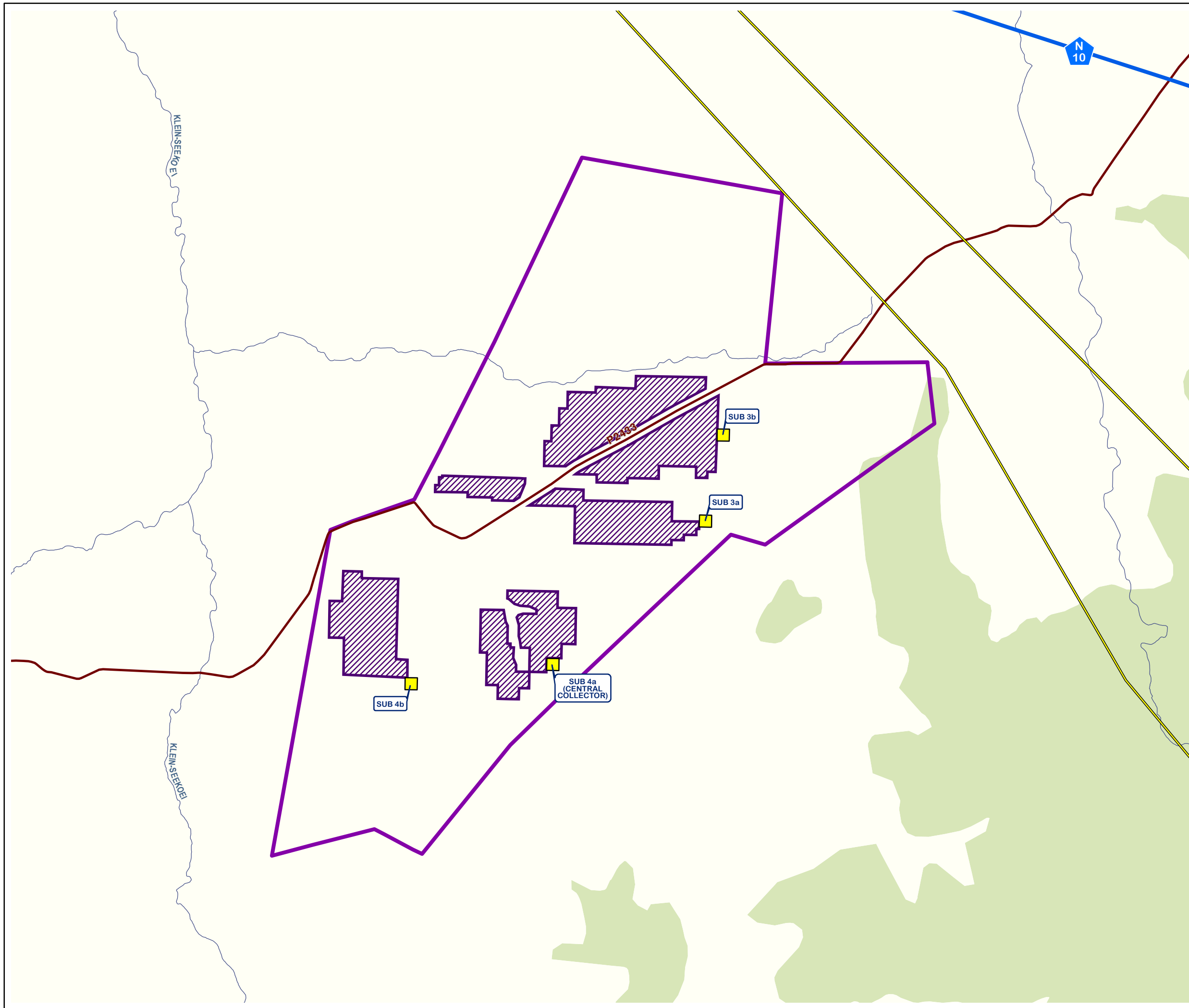
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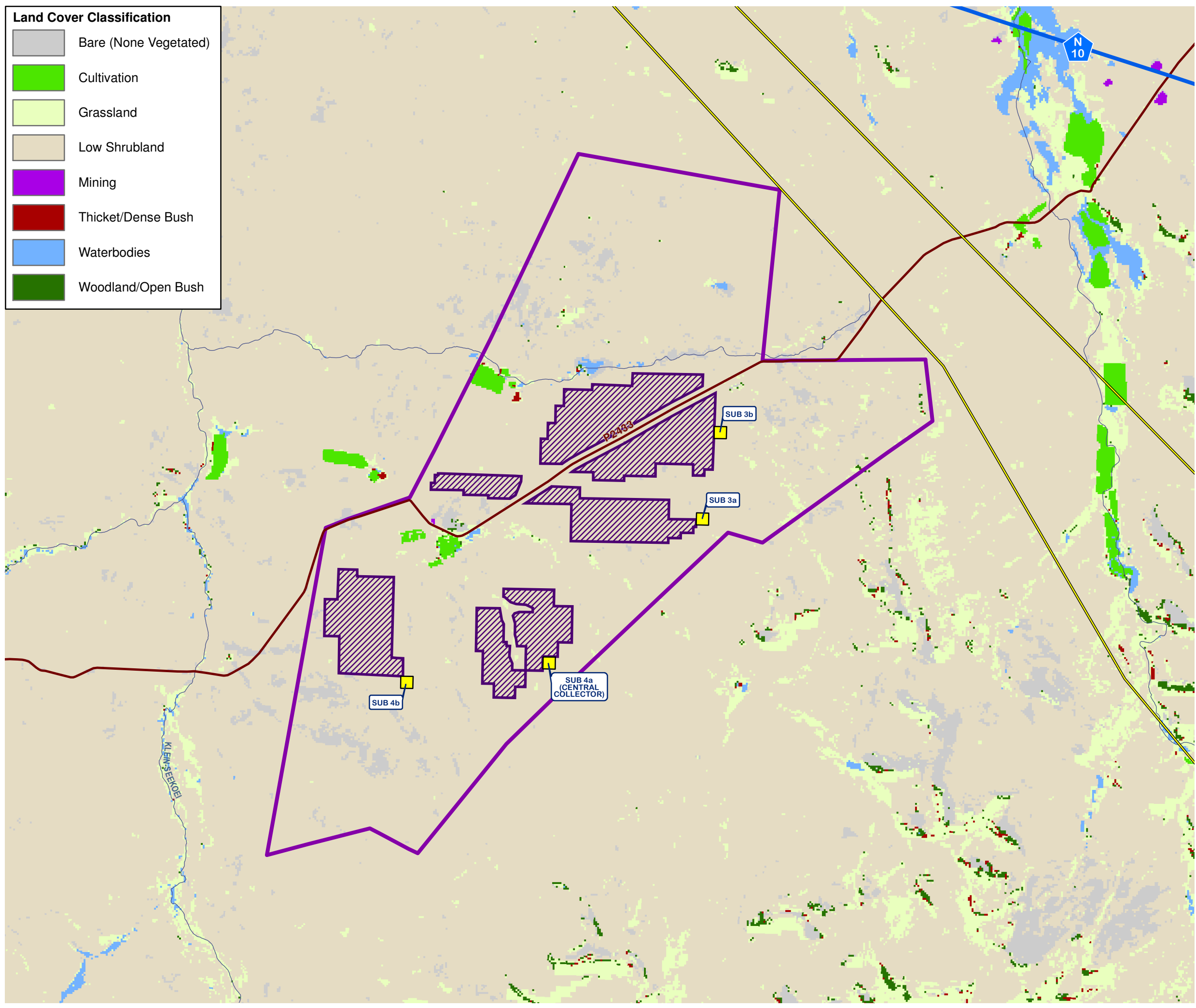
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**Land Cover Classification**

-  Bare (None Vegetated)
-  Cultivation
-  Grassland
-  Low Shrubland
-  Mining
-  Thicket/Dense Bush
-  Waterbodies
-  Woodland/Open Bush




**PROPOSED  
CONSTRUCTION OF THE  
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PHOTOVOLTAIC (PV)  
ENERGY FACILITY**

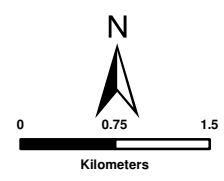
**NEAR NOUPOORT,  
NORTHERN CAPE PROVINCE**

**BROAD LAND COVER  
CLASSIFICATION**

**Legend**

-  National Route (N10)
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Wonderheuveld Solar PV Application Site
-  PV Array Areas
-  Proposed On-Site Substations

SOURCE:  
ESKOM, 2012  
NGI, 2014  
2013-2014 SA NATIONAL LAND COVER  
(© GEOTERRAIMAGE - 2014)



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**PROPOSED  
CONSTRUCTION OF THE  
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PHOTOVOLTAIC (PV)  
ENERGY FACILITY**  
**NEAR NOUPOORT,  
NORTHERN CAPE PROVINCE  
CRITICAL BIODIVERSITY AREAS**

**Legend**

-  Provincial Boundary
-  National Route (N10)
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Wonderheuveul Solar PV Application Site
-  PV Array Areas
-  Proposed On-Site Substations

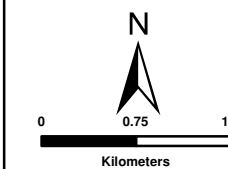
**CBA Classification (Northern Cape)**

-  Critical Biodiversity Area One
-  Critical Biodiversity Area Two
-  Ecological Support Area
-  Other Natural Areas

**CBA Classification (Eastern Cape)**

-  Other Natural Areas

SOURCE:  
ESKOM, 2012  
NFEPA, 2011  
NORTHERN CAPE DEPT OF ENVIRONMENT AND  
CONSERVATION, 2016  
EASTERN CAPE BIODIVERSITY CONSERVATION PLAN, 2007

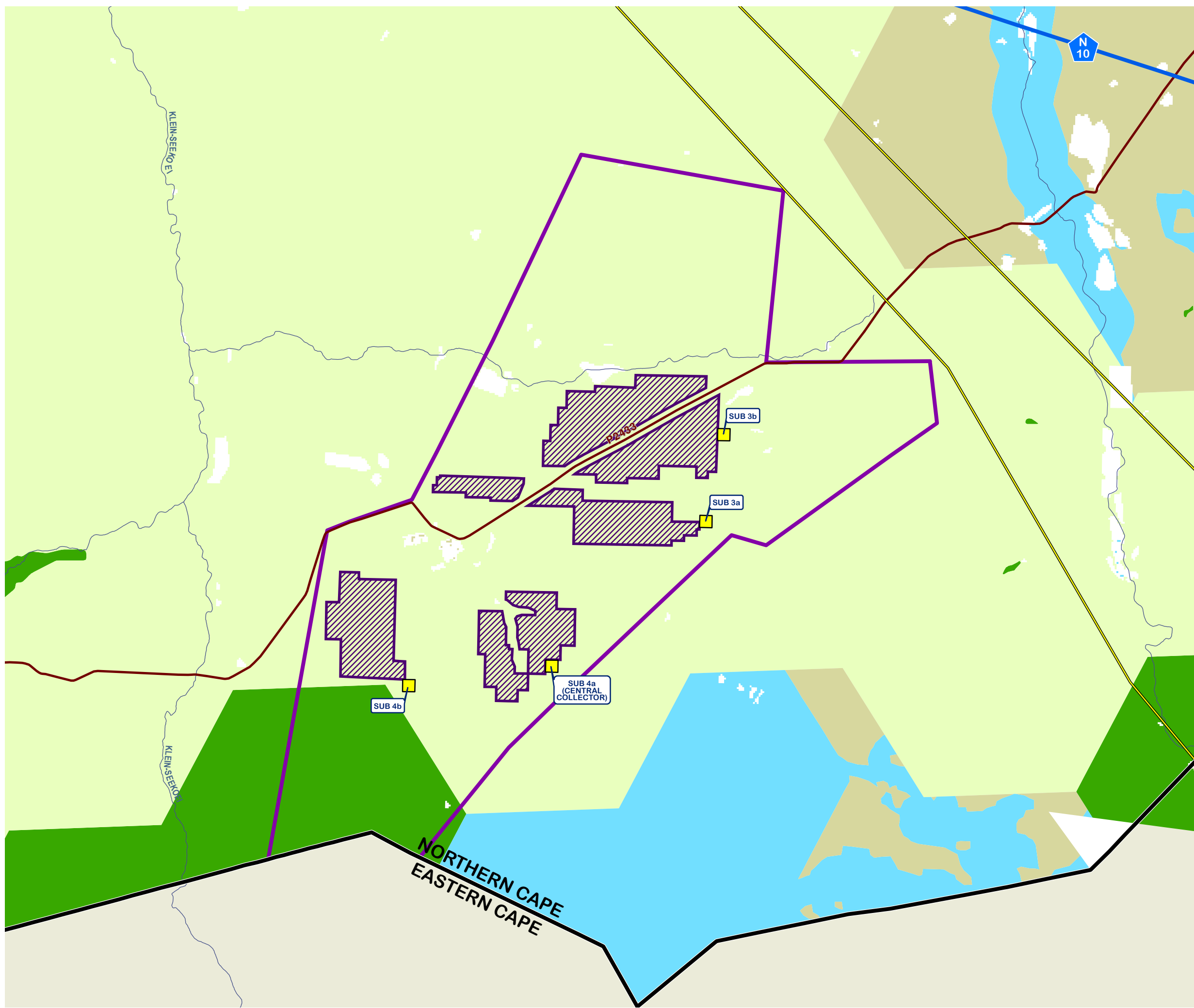


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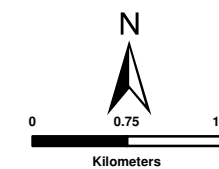


**PROPOSED  
CONSTRUCTION OF THE  
WONDERHEUVEL SOLAR  
PHOTOVOLTAIC (PV)  
ENERGY FACILITY  
NEAR NOUPOORT,  
NORTHERN CAPE PROVINCE  
PRELIMINARY LAYOUT**

**Legend**

-  Provincial Boundary
  -  National Route (N10)
  -  Secondary Roads
  -  Existing High Voltage Power Lines (400kV)
  -  Wonderheувel Solar PV Application Site
  -  Preliminary PV Development Area
  -  Proposed On-Site Substations
- Environmental Sensitivity**
-  Agricultural 'No-Go' Areas
  -  Ecological 'No-Go' Areas
  -  Palaeontology 'No-Go' Areas
  -  Visual 'No-Go' Areas
  -  Perennial Water Courses
  -  Perennial Water Course Buffers (15m)

SOURCE:  
ESKOM, 2012  
NFEPA, 2011

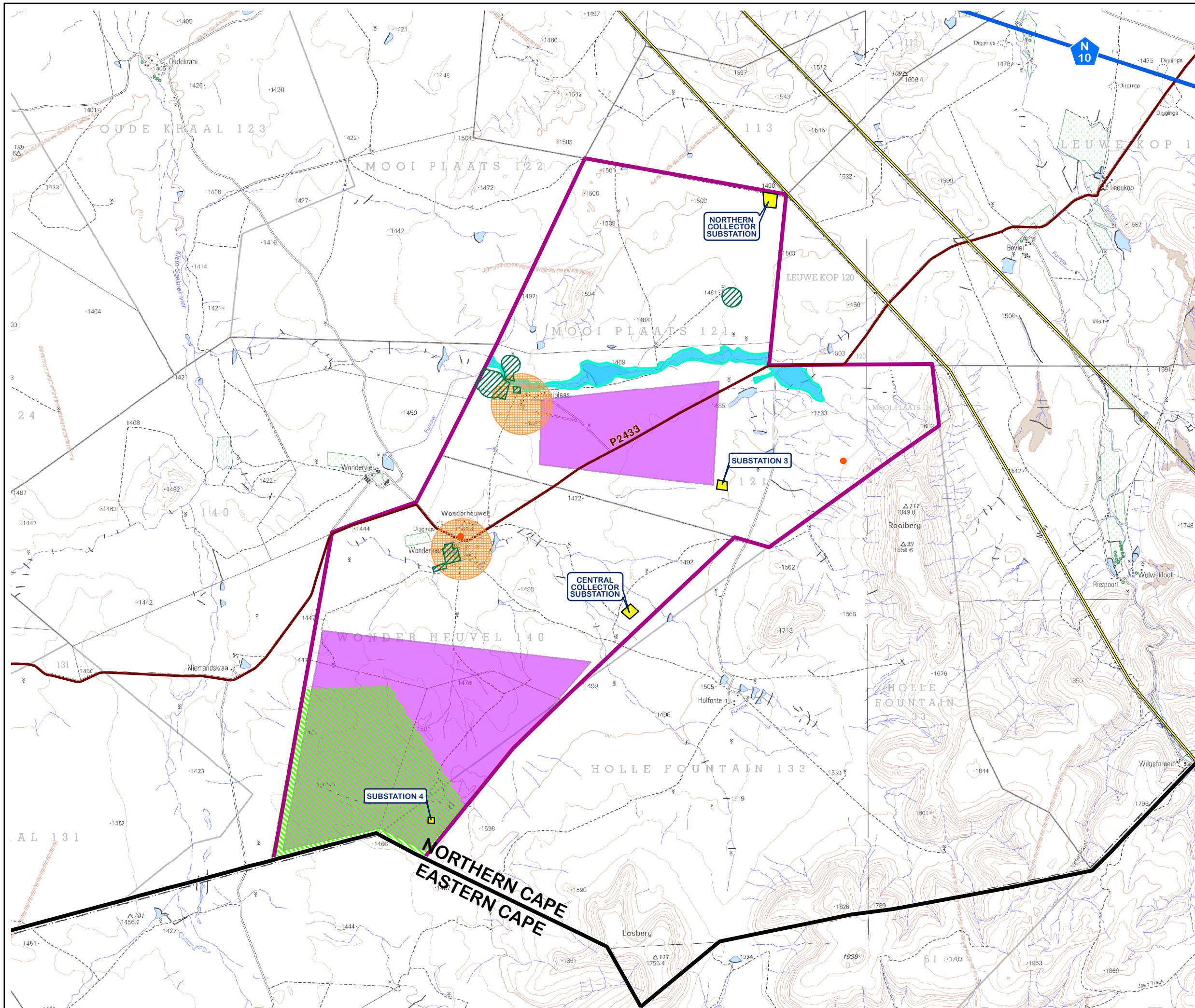


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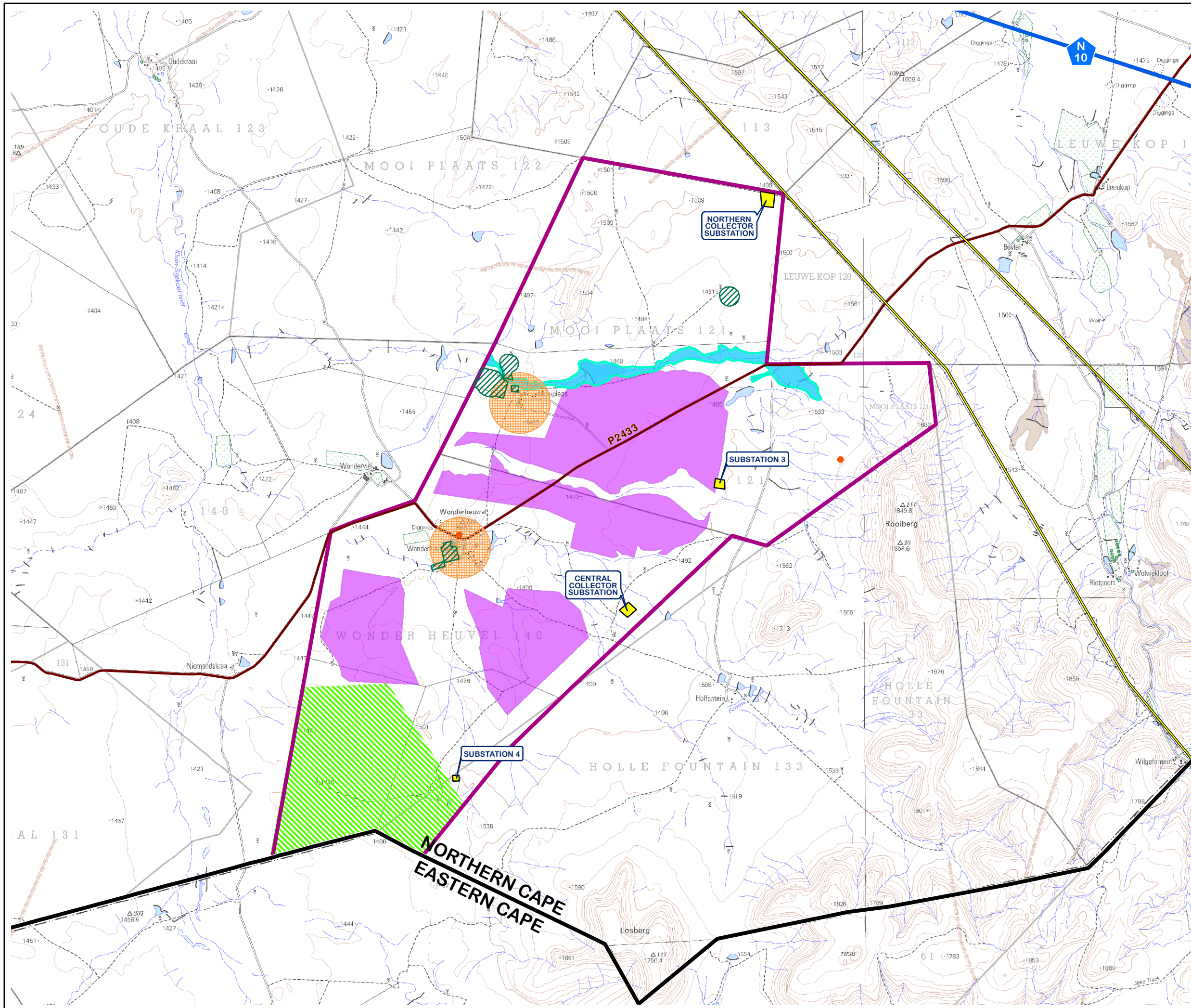
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**PROPOSED  
CONSTRUCTION OF THE  
WONDERHEUVEL SOLAR  
PHOTOVOLTAIC (PV)  
ENERGY FACILITY**  
**NEAR NOUPOORT,  
NORTHERN CAPE PROVINCE**  
**PROPOSED LAYOUT**



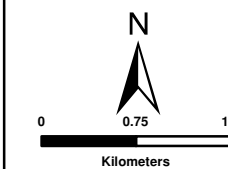
**Legend**

- Provincial Boundary
- National Route (N10)
- Secondary Roads
- Existing High Voltage Power Lines (400kV)
- Wonderheuvel Solar PV Application Site
- Proposed PV Development Area
- Proposed On-Site Substations

**Environmental Sensitivity**

- Agricultural 'No-Go' Areas
- Ecological 'No-Go' Areas
- Palaeontology 'No-Go' Areas
- Visual 'No-Go' Areas
- Perennial Water Courses
- Perennial Water Course Buffers (15m)

SOURCE:  
ESKOM, 2012  
NFEPA, 2011



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Map Ref No 15324/WSC_09	Revision 2	Date 02/09/2019

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**Environmental Sensitivity**






-  Agricultural 'No-Go' Areas
-  Ecological 'No-Go' Areas
-  Palaeontology 'No-Go' Areas
-  Visual 'No-Go' Areas
-  Perennial Water Courses
-  Perennial Water Course Buffers (15m)

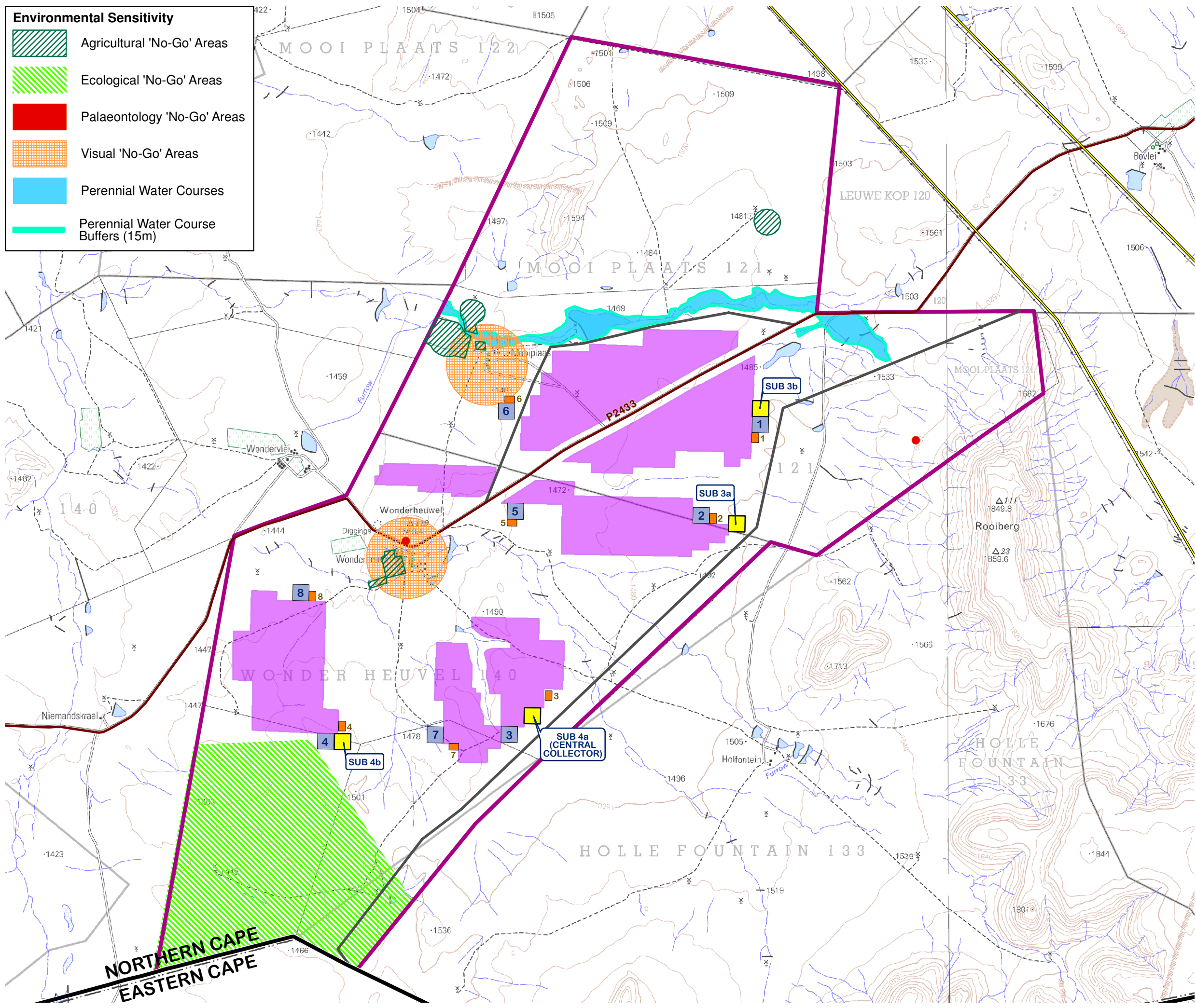
**PROPOSED CONSTRUCTION OF THE WONDERHEUVEL SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY**  
**NEAR NOUPOORT, NORTHERN CAPE PROVINCE**  
**PROPOSED LAYOUT ALTERNATIVES**

**Legend**

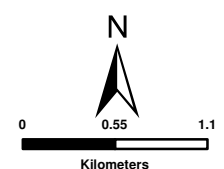
-  Provincial Boundary
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Wonderheuvvel Solar PV Application Site

**Proposed PV Layout Components**

-  PV Array
-  On-Site Substations
-  Laydown Area
-  O&M Site Alternatives
-  Internal Road Network



SOURCE: ESKOM, 2012  
NGI, 2014



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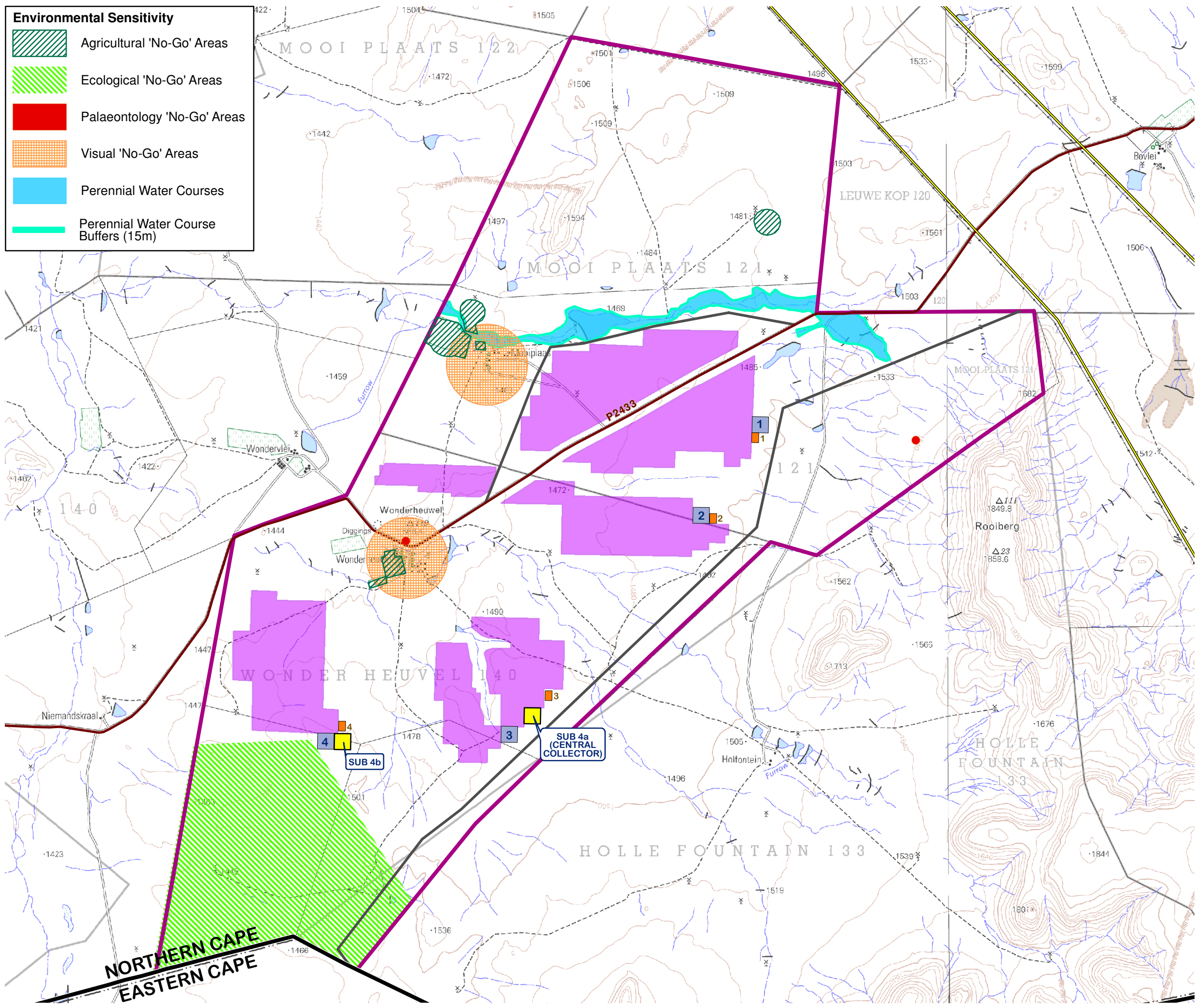
**NORTHERN CAPE**  
**EASTERN CAPE**



**Environmental Sensitivity**

- Agricultural 'No-Go' Areas
- Ecological 'No-Go' Areas
- Palaeontology 'No-Go' Areas
- Visual 'No-Go' Areas
- Perennial Water Courses
- Perennial Water Course Buffers (15m)

**PROPOSED CONSTRUCTION OF THE WONDERHEUVEL SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY**  
**NEAR NOUPOORT, NORTHERN CAPE PROVINCE**  
**PREFERRED LAYOUT ALTERNATIVES**



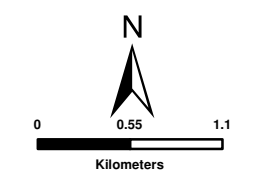
**Legend**

- Provincial Boundary
- Secondary Roads
- Existing High Voltage Power Lines (400kV)
- Wonderheuveld Solar PV Application Site

**Proposed PV Layout Components**

- PV Array
- On-Site Substations
- Laydown Area
- O&M Site Alternatives
- Internal Road Network

SOURCE: ESKOM, 2012  
NGI, 2014



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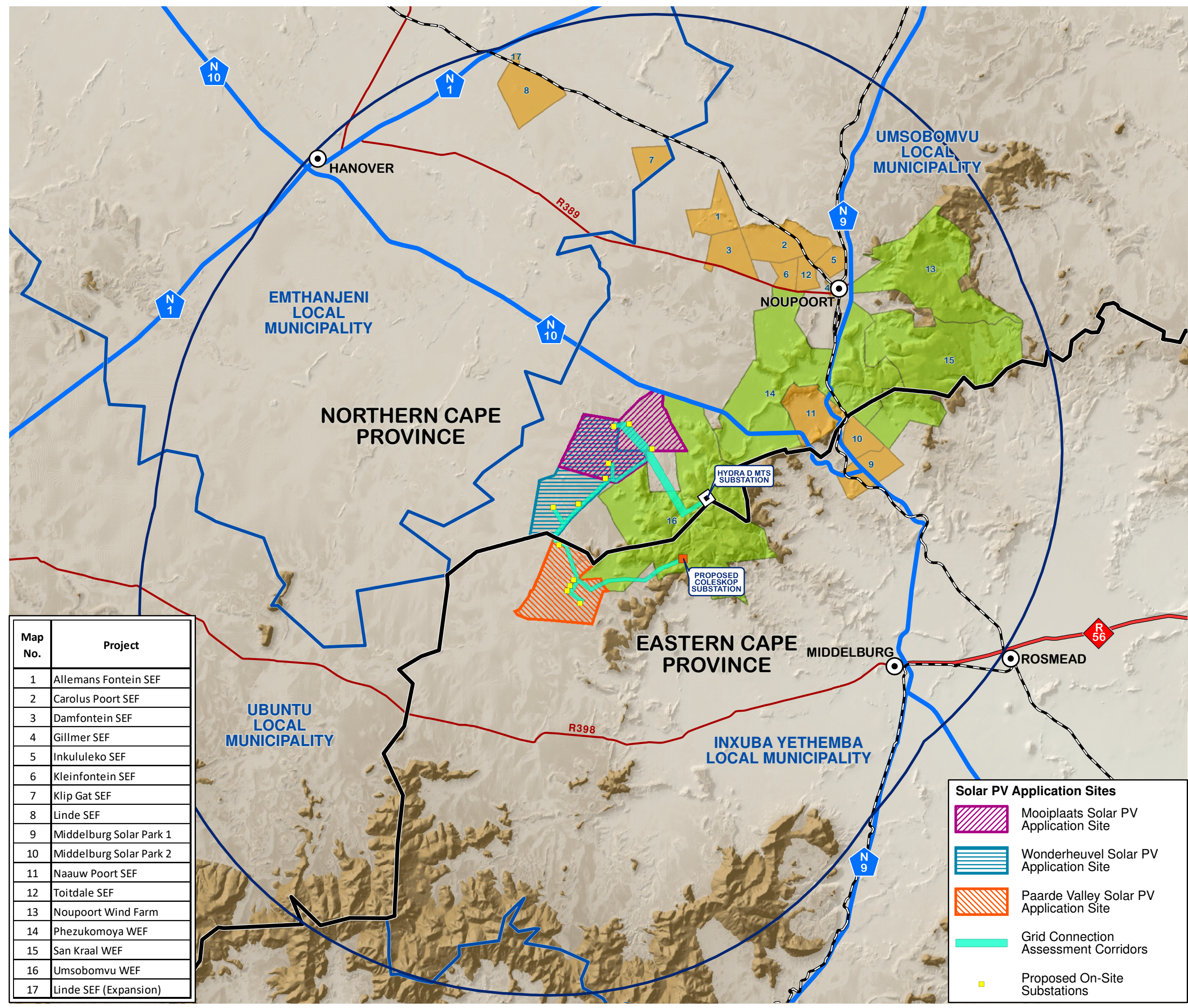
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**PROPOSED CONSTRUCTION OF THREE SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITIES NEAR NOUPOORT, NORTHERN AND EASTERN CAPE PROVINCES**  
**RENEWABLE ENERGY PROJECTS (EXISTING AND PROPOSED)**



**Legend**

- Local Municipal Boundaries
- National Routes
- Main Arterial Routes
- Main Roads
- Railways
- Main Towns
- 35km Radius

**Renewable Energy Application Sites**

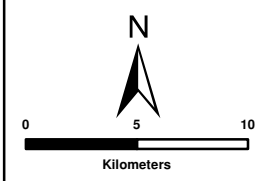
- Solar
- Wind

**Solar PV Application Sites**

- Mooiplaats Solar PV Application Site
- Wonderheuvel Solar PV Application Site
- Paarde Valley Solar PV Application Site
- Grid Connection Assessment Corridors
- Proposed On-Site Substations

Map No.	Project
1	Allemans Fontein SEF
2	Carolus Poort SEF
3	Damfontein SEF
4	Gillmer SEF
5	Inkululeko SEF
6	Kleinfontein SEF
7	Klip Gat SEF
8	Linde SEF
9	Middelburg Solar Park 1
10	Middelburg Solar Park 2
11	Naauw Poort SEF
12	Toitdale SEF
13	Noupoort Wind Farm
14	Phezukomoya WEF
15	San Kraal WEF
16	Umsobomvu WEF
17	Linde SEF (Expansion)

SOURCE: DEA, 2018 MUNICIPAL DEMARCATION BOARD, 2011 NGI, 2014



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Project No 15324	Prepared By KLS	Date 05/11/2019
Map Ref No 15324/ERE_01	Revision 0	Date

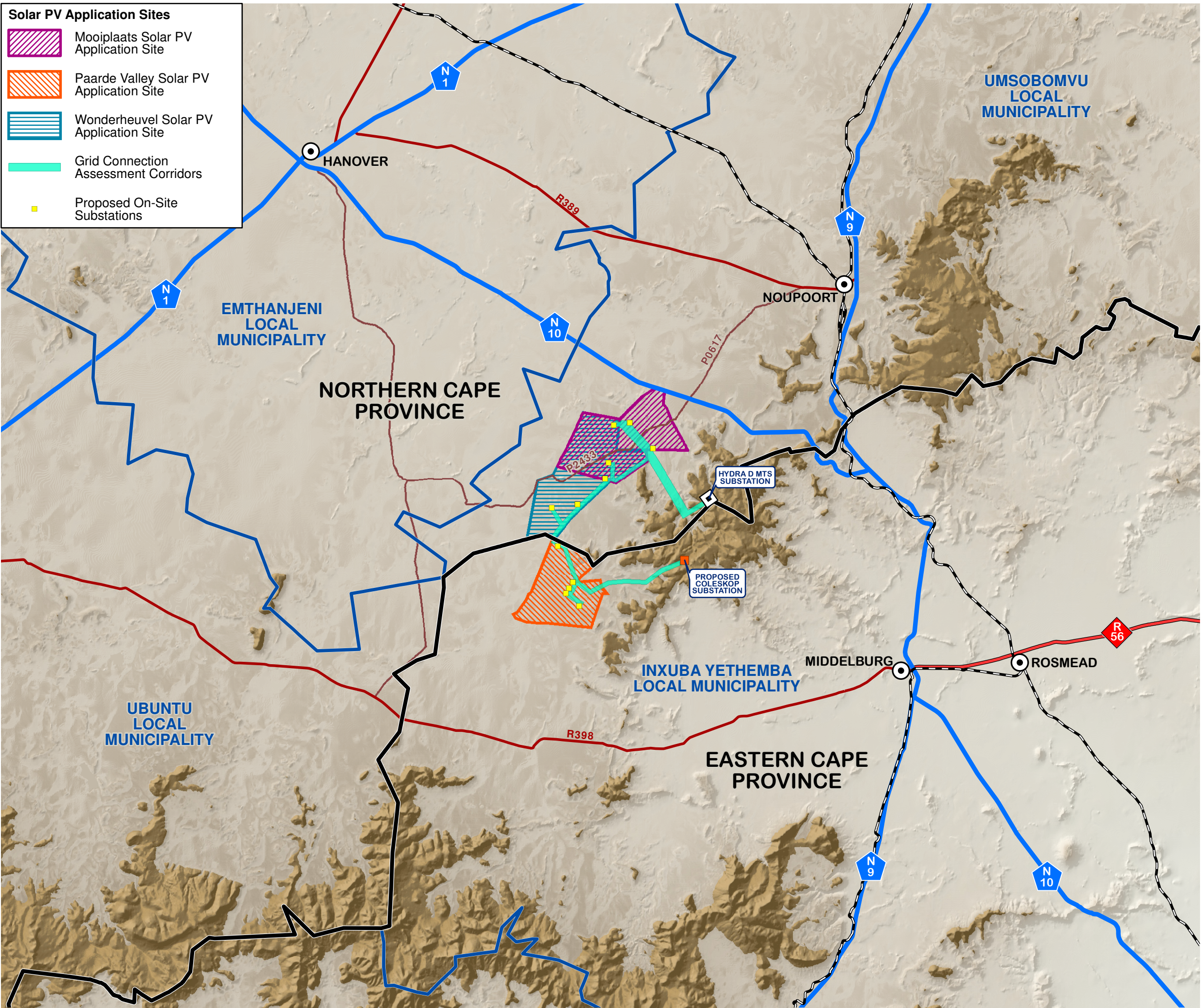
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**Solar PV Application Sites**

-  Mooiplaats Solar PV Application Site
-  Paarde Valley Solar PV Application Site
-  Wonderheuveld Solar PV Application Site
-  Grid Connection Assessment Corridors
-  Proposed On-Site Substations



**PROPOSED CONSTRUCTION OF THREE SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITIES NEAR NOUPOORT, NORTHERN AND EASTERN CAPE PROVINCES REGIONAL CONTEXT**

**Legend**

-  Provincial Boundary
-  Local Municipal Boundaries
-  National Routes
-  Main Arterial Routes
-  Main Roads
-  Secondary Roads
-  Railways
-  Main Towns
-  Hydra D MTS Substation
-  Proposed Coleskop WEF Substation

SOURCE: MUNICIPAL DEMARCATION BOARD, 2011  
NGI, 2014



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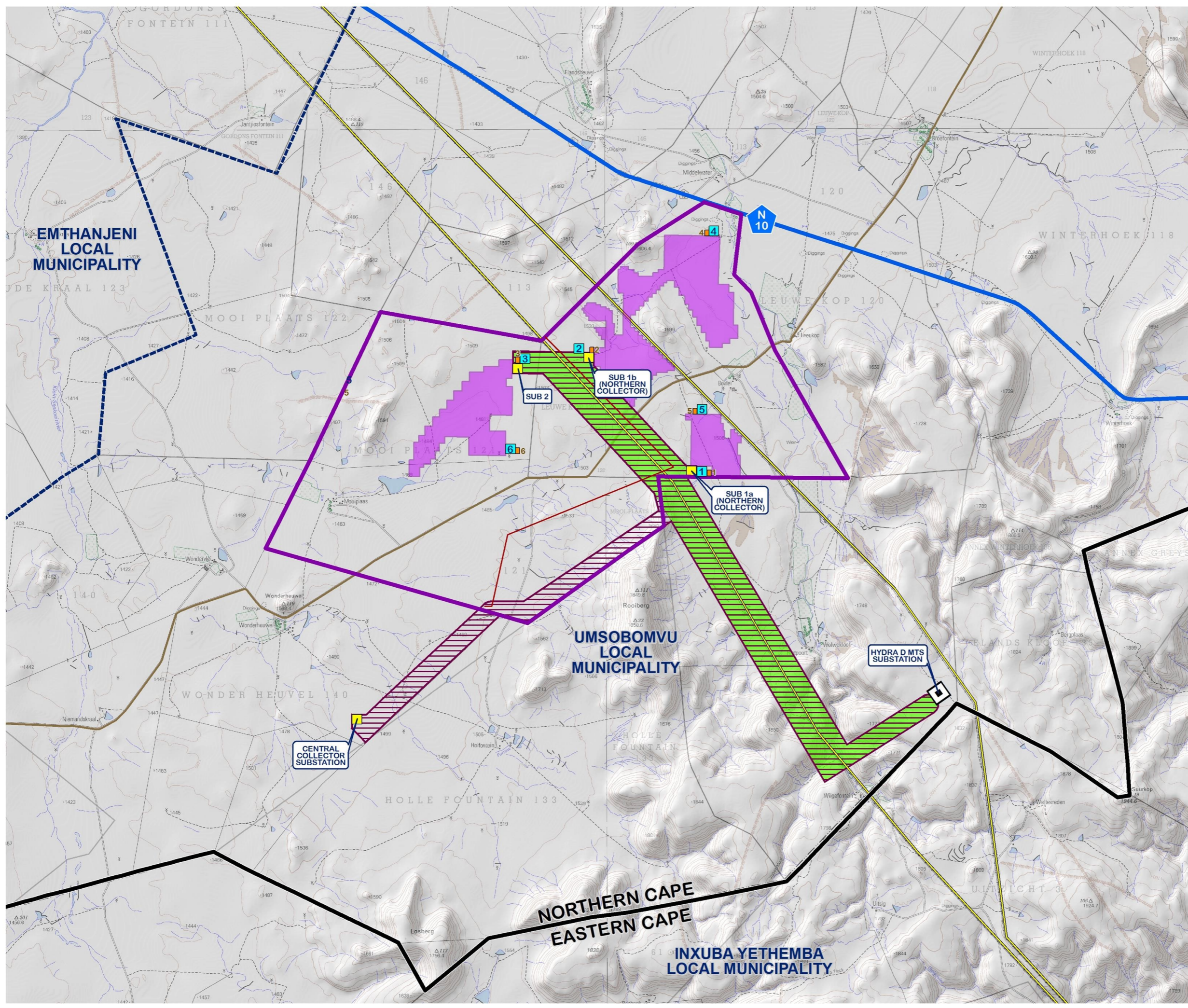
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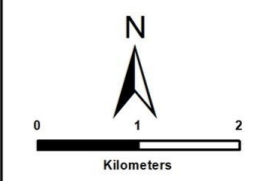


**PROPOSED  
CONSTRUCTION OF THREE  
SOLAR PHOTOVOLTAIC (PV)  
ENERGY FACILITIES  
NEAR NOUPOORT,  
NORTHERN AND EASTERN  
CAPE PROVINCES  
MOOI PLAATS PROJECT**



**Legend**

- Main Towns
- Provincial Boundary
- Local Municipal Boundaries
- National Route (N10)
- Secondary Roads
- Existing High Voltage Power Lines (400kV)
- Hydra D MTS Substation
- Mooiplaats Solar PV Application Site
- Proposed PV Layout Components**
  - PV Array Areas
  - Laydown Area Alternatives
  - O&M Site Alternatives
  - Internal Road Network
- Proposed Grid Connection**
  - Power Line Corridor Option 1
  - Power Line Corridor Option 2
  - Substations



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