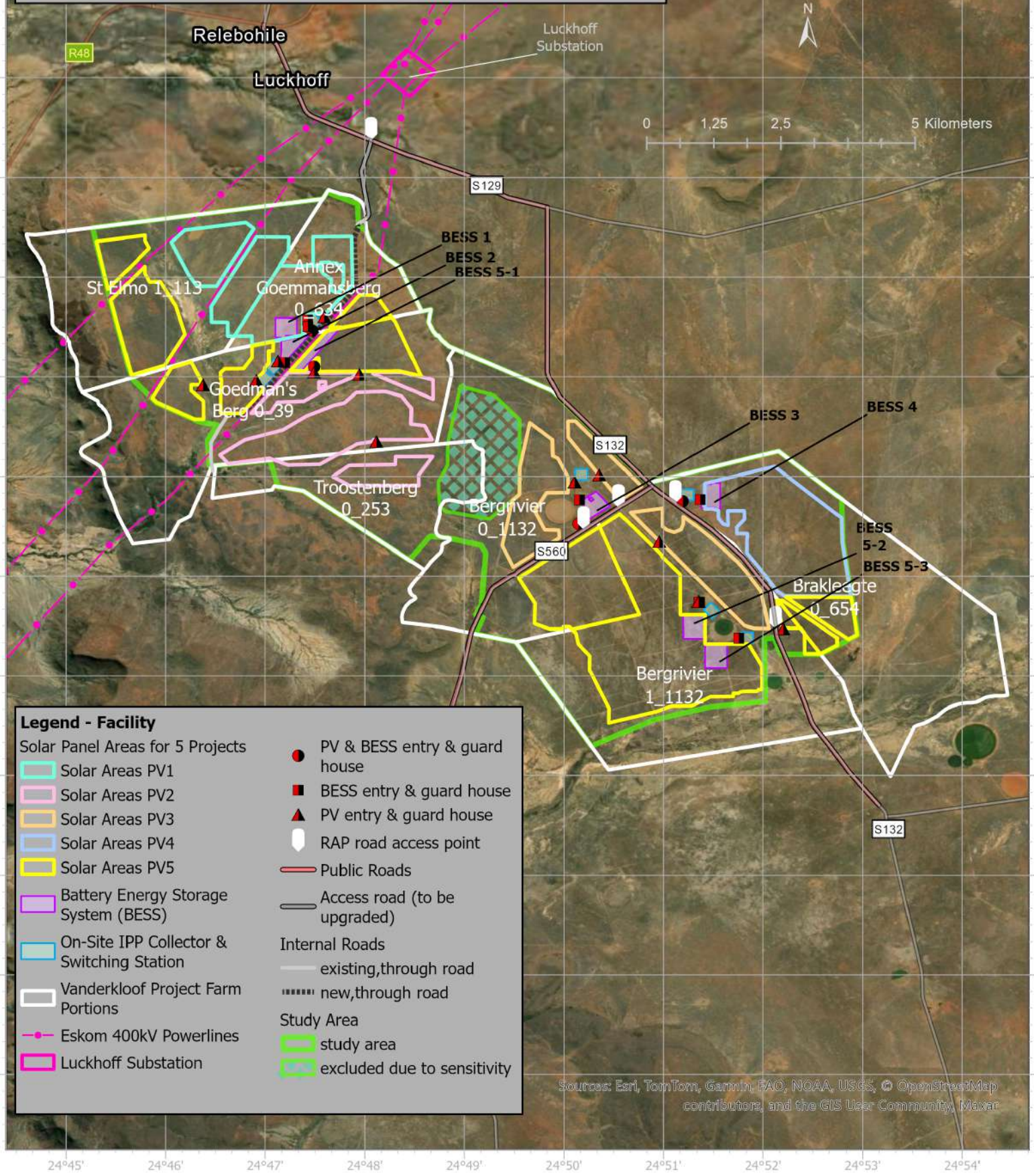


# Vanderkloof Solar - Overview of 5 PV & 5 BESS projects



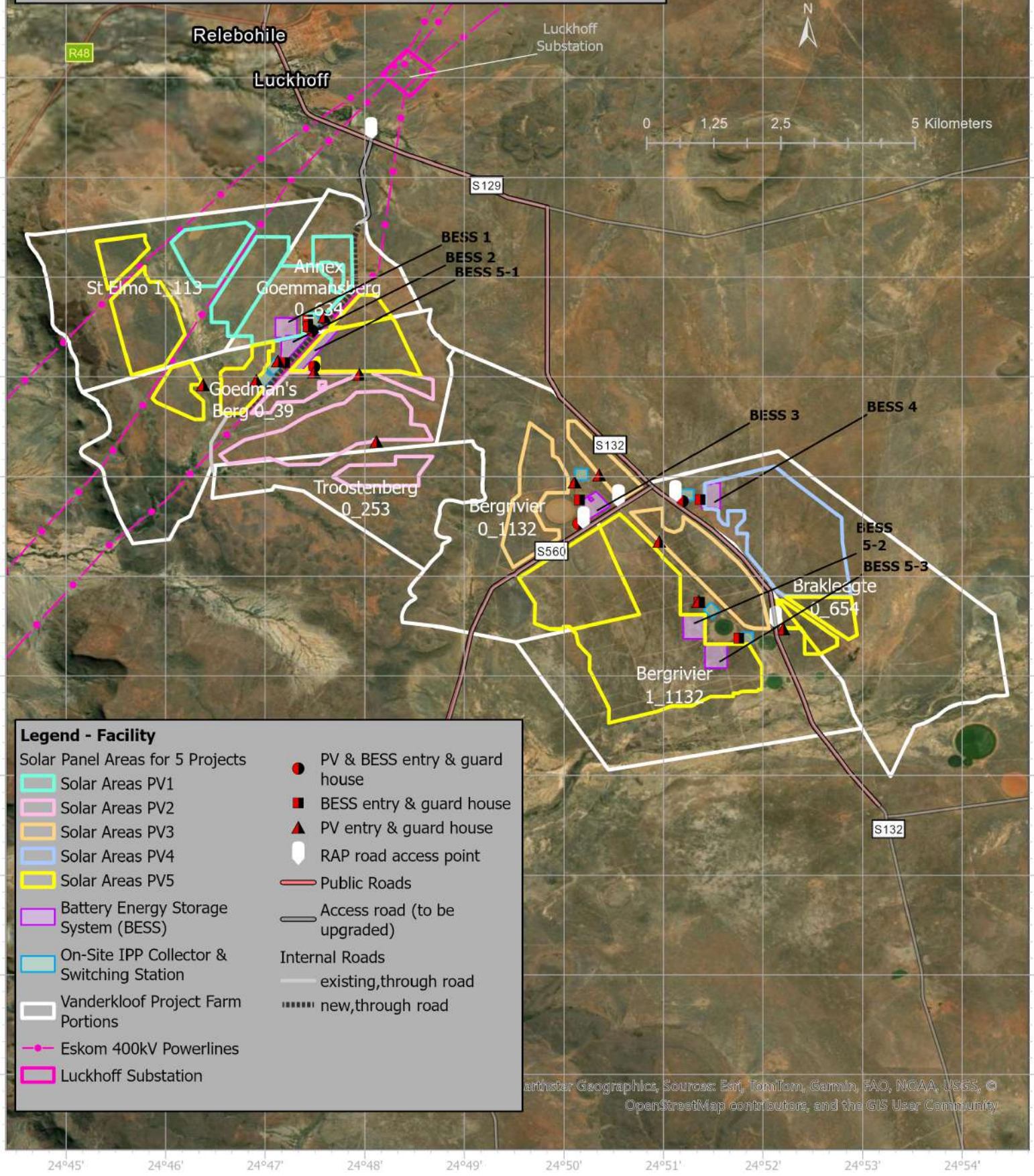
**Legend - Facility**

|   |   |                                 |
|---|---|---------------------------------|
| <b>Solar Panel Areas for 5 Projects</b> |   | ● PV & BESS entry & guard house |
|   | Solar Areas PV1                           | ■ BESS entry & guard house      |
|   | Solar Areas PV2                           | ▲ PV entry & guard house        |
|   | Solar Areas PV3                           | ⬇️ RAP road access point        |
|   | Solar Areas PV4                           | — Public Roads                  |
|   | Solar Areas PV5                           | — Access road (to be upgraded)  |
|   | Battery Energy Storage System (BESS)      | <b>Internal Roads</b>           |
|   | On-Site IPP Collector & Switching Station | — existing, through road        |
|   | Vanderkloof Project Farm Portions         | ⋯ new, through road             |
|   | Eskom 400kV Powerlines                    | <b>Study Area</b>               |
|   | Luckhoff Substation                       | ▭ study area                    |
|   |   | ▭ excluded due to sensitivity   |

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Maxar



# Vanderkloof Solar - Overview of 5 PV & 5 BESS projects



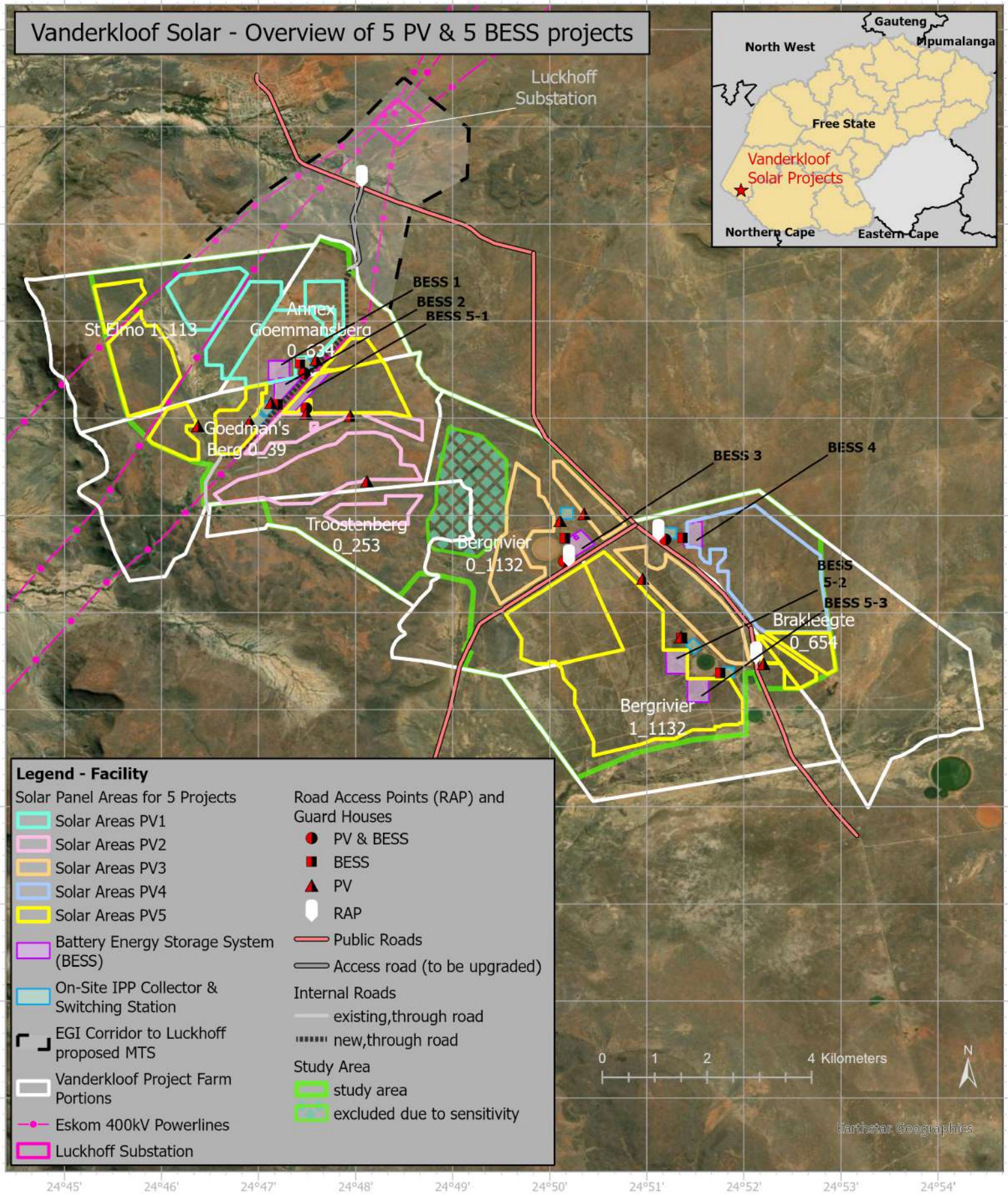
**Legend - Facility**

|                                  |   |
|----------------------------------|---|
| Solar Panel Areas for 5 Projects |   |
|                                  | Solar Areas PV1                           |
|                                  | Solar Areas PV2                           |
|                                  | Solar Areas PV3                           |
|                                  | Solar Areas PV4                           |
|                                  | Solar Areas PV5                           |
|                                  | Battery Energy Storage System (BESS)      |
|                                  | On-Site IPP Collector & Switching Station |
|                                  | Vanderkloof Project Farm Portions         |
|                                  | Eskom 400kV Powerlines                    |
|                                  | Luckhoff Substation                       |
|                                  | PV & BESS entry & guard house             |
|                                  | BESS entry & guard house                  |
|                                  | PV entry & guard house                    |
|                                  | RAP road access point                     |
|                                  | Public Roads                              |
|                                  | Access road (to be upgraded)              |
| Internal Roads                   |   |
|                                  | existing, through road                    |
|                                  | new, through road                         |

artists: Geographics, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



# Vanderkloof Solar - Overview of 5 PV & 5 BESS projects



**Legend - Facility**

|   |   |  |                              |
|---|---|--|------------------------------|
| <b>Solar Panel Areas for 5 Projects</b> |   | <b>Road Access Points (RAP) and Guard Houses</b> |                              |
|   | Solar Areas PV1                           |  | PV & BESS                    |
|   | Solar Areas PV2                           |  | BESS                         |
|   | Solar Areas PV3                           |  | PV                           |
|   | Solar Areas PV4                           |  | RAP                          |
|   | Solar Areas PV5                           |  | Public Roads                 |
|   | Battery Energy Storage System (BESS)      |  | Access road (to be upgraded) |
|   | On-Site IPP Collector & Switching Station |  | Internal Roads               |
|   | EGI Corridor to Luckhoff proposed MTS     |  | existing, through road       |
|   | Vanderkloof Project Farm Portions         |  | new, through road            |
|   | Eskom 400kV Powerlines                    |  | Study Area                   |
|   | Luckhoff Substation                       |  | excluded due to sensitivity  |



## NOTES

|   |
|---|
| <p>All areas outside defined development areas (fenced areas) are considered no-go areas for construction, apart from linking, linear structures, like roads and the EGI. The EGI will be applied for and assessed as part of a separate environmental application.</p>   |
| <p>Internal roads of 4.5 m wide, will be restricted to development areas, or inter-connect PV footprints and other project facilities. Primary roads will have a width of 8m and give heavy-vehicle access to each laydown and the site buildings.</p>  |
| <p>MV cabling to be installed underground within development areas or, where possible, follow roads indicated as “(wide)”. Note that these “wide” roads are still 4.5 wide roads but have a reserved total width of 20m to allow trenching for cable routes. The trenching is for up to 33kV cables and no deeper than 1 meter and about 30cm wide with topsoil re-instatement. Two watercourse crossings will possibly need conduit for cabling, cables will cross watercourses where the road crossing occurs</p>                       |
| <p>DC cabling will be installed underground within development areas or attached to PV structures.</p>  |
| <p>Inverters/Transformers and mini-substations are to be distributed within the development areas.</p>  |
| <p>Building footprints include space for Offices, Operations Control Room, Workshops, each with parking and ablutions.</p>  |
| <p>Laydown footprints show temporary larger footprints, which will be reduced to the smaller permanent footprints after construction.</p>   |
| <p>Guard House points will be entry gates and have guard houses up to 200m<sup>2</sup> and include parking and ablutions at each.</p>   |
| <p>Accommodation footprints will be larger during construction and a part will remain permanently for operations phase on-site accommodation. Accommodations will be shared for the PV and BESS projects.</p>   |
| <p>These footprints include parking and ablutions.</p>  |
| <p><u>Watercourse crossings.</u></p> <ul style="list-style-type: none"> <li>- Access roads bridges. There are two existing narrow bridges on public road S129 that will need upgrading or a second, temporary low level crossing with culverts for construction phase heavy vehicles.</li> <li>- Existing farm access, private road from RAP 1 to PV and BESS projects 1, 2, and 5-1 may need a low level crossing for trucks, in case of rain.</li> <li>- Internal new 4.5m wide road from PV2-1 to PV2-2 and PV5-1- to PV5-1</li> </ul> |
| <p>Fences/Development areas are outside of highly sensitive areas and the PV or buildings are set back 7m from fence lines. Along fence lines, in the 7m gap there will be perimeter 4.5m wide roads. The fence and road can serve as firebreaks. The position and width of firebreaks will be determined as part of the detailed design of the facility</p>  |
| <p>The IPP side of the Collector/Switching On-site Substations are within the fence of each project (note that this demarcation is approximate and will be subject to Eskom’s requirements)</p>   |