

Zonneveld Roodehaan

Huidige situatie

Het beoogde testveld maakt onderdeel uit van Zonneveld Roodehaan. Dit zonneveld bestaat uit drie delen (zie inzet), waarvan het eerste deel al is gerealiseerd en de laatste twee delen nog niet zijn gebouwd maar wel zijn vergund. Deze laatste twee delen zijn hieronder in kleur afgebeeld. Het rechter deel (rood omlijnd) wordt gerealiseerd door Solarfield. Het paars omlijnde deel betreft het testveld van een kleine hectare waarvoor nu de vergunning wordt aangevraagd. Het (technisch) ontwerp is afgebeeld op de volgende pagina.



Landschapontwerp Groot Roodehaan (bron: Laos). in paars. plangebiedsgrens testveld.
In rood, plangebiedsgrens vergunde zonneveld Roodehaan 3.

Zonneveld Roodehaan

Gewenste situatie

Vanwege de eisen aan de onderzoekopstelling en de beperkte beschikbare oppervlakte is gekozen deze ruimte zo optimaal mogelijk in te vullen. Hierdoor is een andere oriëntatie noodzakelijk. De oriëntatie en de verschillende opstellingen zijn in onderstaande technische tekening verder uitgewerkt.



| Geographical Coordinates | | Areas | |
|--------------------------|-----------------|---------|-------|
| Country: | Netherlands | Field A | 7.168 |
| Address: | Groot Roodehaan | Field A | 462 |
| Latitude: | 53.196304° | | |
| Longitude: | 6.646224° | | |
| Altitude: | 4, -2 m | Total | 7.168 |
| | | | 462 |

| 1 Typical South Facing Substructure | | Orientation: 31, South | |
|---|---------------|------------------------|--|
| not to scale | | | |
| equator-facing racks: High density/ Low density | | | |
| Module dimensions (mm) | 2300x1150x40 | | |
| Panel tilt (°) | 12 | | |
| Clearance (m) | 0,700 | | |
| Height (m) | 1,400 | | |
| Pitch (°) | 4,031 / 9,074 | | |
| Axis width a (m) | 1,566 / 6,303 | | |
| Width (m) | 3,460 | | |
| Prog. width w ₀ (m) | 3,371 | | |
| No. of panels | 168 / 96 | | |

| 2 Typical East-West Substructure | | Orientation: 31, East / West | |
|--|----------------|------------------------------|--|
| not to scale | | | |
| east west racks: High density/ Low density | | | |
| Module dimensions (mm) | 2300x1150x40 | | |
| Panel tilt (°) | 12 | | |
| Clearance (m) | 0,700 | | |
| Height (m) | 1,400 | | |
| Pitch (°) | 6,756 / 13,004 | | |
| Axis width a (m) | 1,914 / 6,102 | | |
| Width (m) | 3,460 | | |
| Prog. width w ₀ (m) | 6,543 | | |
| Opening width O (m) | 6,100 | | |
| No. of panels | 192 / 144 | | |

| 3 Typical East-West Substructure | | Orientation: 31, East / West | |
|--|----------------|------------------------------|--|
| not to scale | | | |
| east west racks: High density/ Low density | | | |
| Module dimensions (mm) | 2300x1150x40 | | |
| Panel tilt (°) | 12 | | |
| Clearance (m) | 0,700 | | |
| Height (m) | 1,400 | | |
| Pitch (°) | 6,803 / 12,800 | | |
| Axis width a (m) | 1,360 / 5,900 | | |
| Width (m) | 3,460 | | |
| Prog. width w ₀ (m) | 7,243 | | |
| Opening width O (m) | 6,900 | | |
| No. of panels | 192 / 144 | | |

| 4 Typical East-West Substructure | | Orientation: 31, East / West | |
|--|----------------|------------------------------|--|
| not to scale | | | |
| east west racks: High density/ Low density | | | |
| Module dimensions (mm) | 2300x1150x40 | | |
| Panel tilt (°) | 12 | | |
| Clearance (m) | 0,700 | | |
| Height (m) | 1,400 | | |
| Pitch (°) | 6,476 / 11,960 | | |
| Axis width a (m) | 0,87 / 2,500 | | |
| Width (m) | 3,460 | | |
| Prog. width w ₀ (m) | 7,613 / 9,303 | | |
| Opening width O (m) | 6,870 / 2,560 | | |
| No. of panels | 192 / 144 | | |

| 5 Deer Fence | |
|--------------------------|--|
| not to scale, units in m | |
| | |

Legend

- Fence
- PV Area - with 3m distance to fence
- Application Boundary
- PV East West Rack 3 x 8 (landscape orientation)
- PV South Facing Rack 3 x 8 (landscape orientation)

Before undertaking any civil works, the location of overhead lines, buried cables, gas and water pipes are to be checked on site and also the corresponding owners of the utilities are to be contacted

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| Date | Drawn/Checked/Approved | Revision Description |
|-----------------|------------------------|---|
| 10 Sep 21 15:24 | SSA | Rack orientation changed to 0° for Panels 3 and 4 |
| 20 Jul 21 15:24 | SSA, DMU | Pitch changed to south facing, 0° and backside. Number of modules increased |
| 08 Jul 21 15:24 | SSA, DMU | Original drawing |

Scale: 1:250

Project: Solar Eco Plus Solar Farm

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