Mediclinic Rooftop PV Projects: Monthly report

Prepared for:

Moshesh Partners

Reference No:

HAR\_215\_Moshesh Mediclinic Monthly Report

May 2022

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# Portfolio Overview

Harmattan Renewables (Harmattan) has been appointed by Moshesh Partners (the Client) to provide asset management support for its rooftop assets at the various Mediclinic sites.

This document is intended to assist the Client in understanding the operational status of its active installations. The document provides details of energy production at Vergelegen, Midstream, Hermanus, Highveld, and Durbanville Mediclinic’s. The following table provides an overview of Commercial Operation Dates (COD). Harmattan will conduct a detailed review of plants performance in the asset management report to determine any factors that have affected plants performance.

|  |  |  |
| --- | --- | --- |
| **Name** | **COD (Commercial Operation Date)** | **Capacity DC (kW)** |
| Moshesh Mediclinic Durbanville Solar PV | 11 Nov 2021 | 705.7 |
| Moshesh Mediclinic Hermanus Solar PV | 10 Mar 2022 | 219.4 |
| Moshesh Mediclinic Highveld Solar PV | 30 Mar 2022 | 262.7 |
| Moshesh Mediclinic Midstream Solar PV | 27 Oct 2021 | 227.9 |
| Moshesh Mediclinic Vergelegen Solar PV | 28 Oct 2021 | 689.6 |

Table 1: Project Overview

## Scope of Work

The scope of work is fully described in Harmattan proposal “*HAR\_P215\_MOSHESH\_MediclinicAssetManagement \_v2”*, dated 15 July 2021”.

## Site Visits

Harmattan has not yet conducted operational monitoring site visits to any of the Project, however site visits are planned to Durbanville, Midstream and Vergelegen operational sites for June 2022.

# Revenue

## Revenues This month

Figure : Revenue Year to Date

|  |  |  |  |
| --- | --- | --- | --- |
| Plants | Actual ZAR | Forecast ZAR | Var % |
| Mediclinic Durbanville | 42149.02 | 47715.92 | -12% |
| Mediclinic Vergelegen | 37110.00 | 36465.55 | 2% |
| Mediclinic Highveld | 21364.50 | 24253.22 | -12% |
| Mediclinic Midstream | 18145.07 | 20377.57 | -11% |
| Mediclinic Hermanus | 17771.48 | 17225.23 | 3% |

Table 2: Project Overview

# Hermanus Technical Performance

|  |  |  |
| --- | --- | --- |
| Moshesh Mediclinic Hermanus Solar PV | | |
| A picture containing outdoor, sky, grass  Description automatically generated | Capacity (kW DC): | 219.4 |
| Resource | Solar |
| Project Company: | Moshesh Solar PV 1 (Pty) Ltd |
| Address: | Ravenscroft Rd Hermanus – 7200 – South Africa |
|  |  |
|  |  |  |

## Hermanus Production vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual kWh | Forecast P50 KWh | Var% | | Mar - 22 | 17949.20 | 33133.54 | -45.83% | | Apr - 22 | 21947.00 | 24642.89 | -10.94% | | May - 22 | 19453.00 | 18855.06 | 3.17% | | **Grand Total** | **59349.20** | **76631.49** | **-22.55%** | |  |
| Table 3: Hermanus Production and Forecast | Figure : Hermanus Production Vs Forecast |

## Hermanus Irradiation vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual kWh/m² | Forecast P50 kWh/m² | Var % | | Mar - 22 | 15.73 | 184 | -91.45% | | Apr - 22 | 125.57 | 135.3 | -7.19% | | May - 22 | 111.23 | 102.9 | 8.09% | | **Total** | **252.52** | **422.2** | **-40.19%** | |  |
| Table 4: Hermanus irradiation and Forecast | Figure Hermanus Irradiation Vs Forecast |

## Hermanus Availability vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | ` | Actual % | Availability Guaranteed % | Var % | | Mar - 22 | 100.00 | 95.00 | 5.26% | | Apr - 22 | 93.46 | 95.00 | -1.62% | | May - 22 | 95.92 | 95.00 | 0.97% | | Grand Total | **96.46** | **95.00** | **1.54%** | |  |
| Table 5: Hermanus Availability and Forecast | Figure :Hermanus Availability Vs Forecast |

## Hermanus Performance Ratio Vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual % | Forecast P50 % | Var % | | Mar - 22 | 100.41 | 85.06 | 18.04% | | Apr - 22 | 78.08 | 86.03 | -9.24% | | May - 22 | 81.53 | 86.55 | -5.80% | | Grand Total | 86.67 | 85.88 | 0.92% | |  |
| Table 6: Hermanus PR and Forecast | Figure : Hermanus PR Vs Forecast |

# Durbanville Technical Performance

|  |  |  |
| --- | --- | --- |
| Moshesh Mediclinic Durbanville Solar PV | | |
| A picture containing outdoor, sky, grass  Description automatically generated | Capacity (kW DC): | 705.7 |
| Resource | Solar |
| Project Company: | Moshesh Solar PV 1 (Pty) Ltd |
| Address: | Wellington Road Durbanville  South Africa |
|  |  |

## Durbanville Production vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual kWh | Forecast P50 kWh | Var % | | Nov - 21 | 67694.70 | 122450.00 | -44.72% | | Dec - 21 | 94632.70 | 130720.80 | -27.61% | | Jan - 22 | 100806.40 | 130944.06 | -23.02% | | Feb - 22 | 91369.80 | 111813.67 | -18.28% | | Mar - 22 | 89806.30 | 111969.25 | -19.79% | | Apr - 22 | 70141.50 | 85867.72 | -18.31% | | May - 22 | 60420.90 | 68401.09 | -11.67% | | Grand Total | 574872.30 | 762166.59 | -24.57% | |  |
| Table 7: Durbanville Production and Forecast | Figure : Durbanville Production Vs Forecast |

## Durbanville Irradiation vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual kWh/m² | Forecast P50 kWh/m² | Var % | | Mar - 22 | 35.13 | 208.7 | -83.17% | | Apr - 22 | 126.11 | 156.9 | -19.62% | | May - 22 | 118.87 | 122.1 | -2.65% | | Grand Total | 280.11 | 487.7 | -42.57% | |  |
| Table 8: Durbanville irradiation and Forecast | Figure Durbanville Irradiation Vs Forecast |

## Durbanville Availability vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual % | Availability Guaranteed % | Var % | | Mar - 22 | 100.00 | 95.00 | 5.26% | | Apr - 22 | 93.46 | 95.00 | -1.62% | | May - 22 | 95.92 | 95.00 | 0.97% | | Grand Total | 96.46 | 95.00 | 1.54% | |  |
| Table 9: Durbanville Availability and Forecast | Figure :Durbanville Availability Vs Forecast |

## Durbanville Performance Ratio Vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual % | Forecast P50 % | Var % | | Mar - 22 | 86.14 | 76.14 | 13.13% | | Apr - 22 | 59.89 | 77.67 | -22.89% | | May - 22 | 71.88 | 79.51 | -9.59% | | Grand Total | 72.64 | 77.77 | -6.60% | |  |
| Table 10: Durbanville PR and Forecast | Figure : Durbanville PR Vs Forecast |

# Vergelegen Technical Performance

|  |  |  |
| --- | --- | --- |
| Moshesh Mediclinic Vergelegen Solar PV | | |
| A picture containing outdoor, sky, grass  Description automatically generated | Capacity (kW DC): | 689.6 |
| Resource | Solar |
| Project Company: | Moshesh Solar PV 1 (Pty) Ltd |
| Address: | Vergelegen, Main Road Somerset West South Africa |
|  |  |

## Vergelegen Production vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual KWh | Forecast P50 kWh | Var% | | Oct - 21 | 15875.70 | 106909.00 | -85.15% | | Nov - 21 | 114666.80 | 124191.30 | -7.67% | | Dec - 21 | 126249.60 | 135649.00 | -6.93% | | Jan - 22 | 127624.60 | 134331.04 | -4.99% | | Feb - 22 | 96946.40 | 108571.18 | -10.71% | | Mar - 22 | 94648.10 | 100729.11 | -6.04% | | Apr - 22 | 70139.10 | 70910.55 | -1.09% | | May - 22 | 52487.90 | 51576.41 | 1.77% | | Grand Total | 698638.20 | 832867.59 | -16.12% | |  |
| Table 11: Vergelegen Production and Forecast | Figure : Vergelegen Production Vs Forecast |

## Vergelegen Irradiation vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual kWh/m² | Forecast P50 kWh/m² | Var % | | Mar - 22 | 38.21 | 185.2 | -79.37% | | Apr - 22 | 121.69 | 127.1 | -4.25% | | May - 22 | 92.27 | 90.9 | 1.51% | | Grand Total | 252.17 | 403.2 | -37.46% | |  |
| Table 12: Vergelegen irradiation and Forecast | Figure Vergelegen Irradiation Vs Forecast |

## Vergelegen Availability vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual % | Availability Guaranteed % | Var % | | Mar - 22 | 100.00 | 95.00 | 5.26% | | Apr - 22 | 96.77 | 95.00 | 1.86% | | May - 22 | 90.56 | 95.00 | -4.67% | | Grand Total | 95.78 | 95.00 | 0.82% | |  |
| Table 13: Vergelegen Availability and Forecast | Figure : Vergelegen Availability Vs Forecast |

## Vergelegen Performance Ratio Vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual % | Forecast P50 % | Var % | | Mar - 22 | 82.45 | 78.02 | 10.41% | | Apr - 22 | 73.31 | 80.03 | -25.16% | | May - 22 | 77.96 | 81.39 | -11.68% | | Grand Total | 77.91 | 79.81 | -8.99% | |  |
| Table 14: Vergelegen PR and Forecast | Figure : Vergelegen PR Vs Forecast |

# Highveld Technical Performance

|  |  |  |
| --- | --- | --- |
| Moshesh Mediclinic Hermanus Solar PV | | |
| A picture containing outdoor, sky, grass  Description automatically generated | Capacity (kW DC): | 262.7 |
| Resource | Solar |
| Project Company: | Moshesh Solar PV 1 (Pty) Ltd |
| Address: | 46 Barney Molokwane, Trichardt South Africa |
|  |  |

## Highveld Production Vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual kWh | Forecast P50 kWh | Var% | | Apr - 22 | 21643.97 | 32408.21 | -33.21% | | May - 22 | 28195.21 | 32007.52 | -11.91% | | Grand Total | 49839.18 | 64415.73 | -22.63% | |  |
| Table 15: Highveld Production and Forecast | Figure : Highveld Production Vs Forecast |

## Highveld Irradiation Vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual kWh/m² | Forecast P50 kWh/m² | Var % | | Apr - 22 | 5163% | 156.2 | -66.95% | | May - 22 | 13866% | 155.2 | -10.66% | | Grand Total | 19029% | 311.4 | -38.89% | |  |
| Table 16: Highveld irradiation and Forecast | Figure Highveld Irradiation Vs Forecast |

## Highveld Availability vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual % | Availability Guaranteed % | Var % | | Apr - 22 | 95.00 | 95.00 | 0.00% | | May - 22 | 97.61 | 95.00 | 2.75% | | Grand Total | 96.31 | 95.00 | 1.37% | |  |
| Table 17: Highveld Availability and Forecast | Figure :Highveld Availability Vs Forecast |

## Highveld Performance Ratio Vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual % | Forecast P50 % | Var % | | Apr - 22 | 69.85 | 78.98 | -11.56% | | May - 22 | 66.90 | 78.51 | -14.79% | | Grand Total | 68.37 | 78.75 | -13.17% | |  |
| Table 18: Highveld PR and Forecast | Figure : Highveld PR Vs Forecast |

# Midstream Technical Performance

|  |  |  |
| --- | --- | --- |
| Moshesh Mediclinic Midstream Solar PV | | |
| A picture containing outdoor, sky, grass  Description automatically generated | Capacity (kW DC): | 227.9 |
| Resource | Solar |
| Project Company: | Moshesh Solar PV 1 (Pty) Ltd |
| Address: | Midstream Drive, Hill Boulevard Midstream Estate, Olifantsfontein. - South Africa |
|  |  |

## Midstream Production vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual kWh | Forecast P50 kWh | Var % | | Oct - 21 | 4349.60 | 35710.00 | -87.82% | | Nov - 21 | 18453.80 | 35427.20 | -47.91% | | Dec - 21 | 48330.80 | 37840.00 | 27.72% | | Jan - 22 | 34169.20 | 36357.19 | -6.02% | | Feb - 22 | 32936.60 | 31490.67 | 4.59% | | Mar - 22 | 29032.30 | 32436.40 | -10.49% | | Apr - 22 | 23635.80 | 27151.55 | -12.95% | | May - 22 | 23406.50 | 26286.34 | -10.96% | | Grand Total | 214314.60 | 262699.35 | -18.42% | |  |
| Table 19: Midstream Production and Forecast | Figure : Midstream Production Vs Forecast |

## Midstream Irradiation vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual kWh/m² | Forecast P50 kWh/m² | Var % | | Mar - 22 | 4304% | 180.8 | -76.19% | | Apr - 22 | 11689% | 149.1 | -21.60% | | May - 22 | 13718% | 141.7 | -3.19% | | Grand Total | 29711% | 471.6 | -37.00% | |  |
| Table 20: Midstream irradiation and Forecast | Figure Midstream Irradiation Vs Forecast |

## Midstream Availability vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual % | Availability Guaranteed | Var % | | Mar - 22 | 100.00 | 95.00 | 5.26% | | Apr - 22 | 96.69 | 95.00 | 1.93% | | May - 22 | 95.94 | 95.00 | 4.48% | | Grand Total | 97.54 | 95.00 | 3.89% | |  |
| Table 21: Midstream Availability and Forecast | Figure :Midstream Availability Vs Forecast |

## Midstream Performance Ratio Vs Forecast

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Month | Actual % | Forecast P50 % | Var % | | Mar - 22 | 86.96 | 78.72 | 10.46% | | Apr - 22 | 81.26 | 79.90 | 1.71% | | May - 22 | 74.75 | 81.40 | -8.17% | | Grand Total | 80.99 | 80.01 | 1.23% | |  |
| Table 22: Midstream PR and Forecast | Figure : Midstream PR Vs Forecast |

# Events

## Scheduled Maintenance

## Unscheduled Maintenance