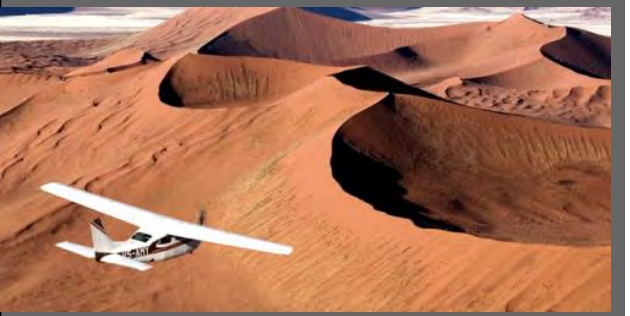
OTJIKOTO MINE, NAMIBIA
REALIZING FUEL AND CARBON SAVINGS WITH AN AUTONOMOUS HYBRID SOLUTION



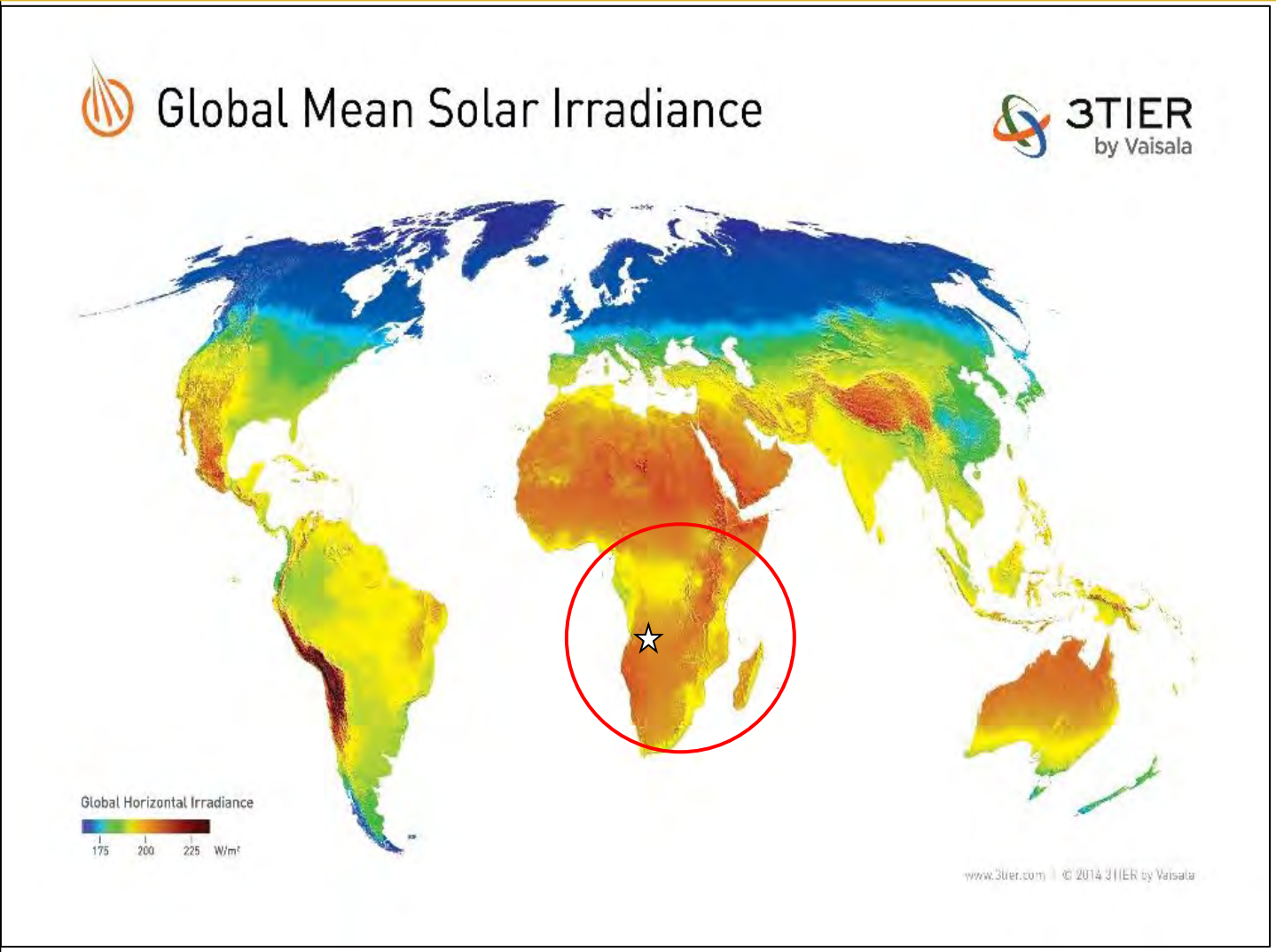
OTJIKOTO SOLAR PLANT

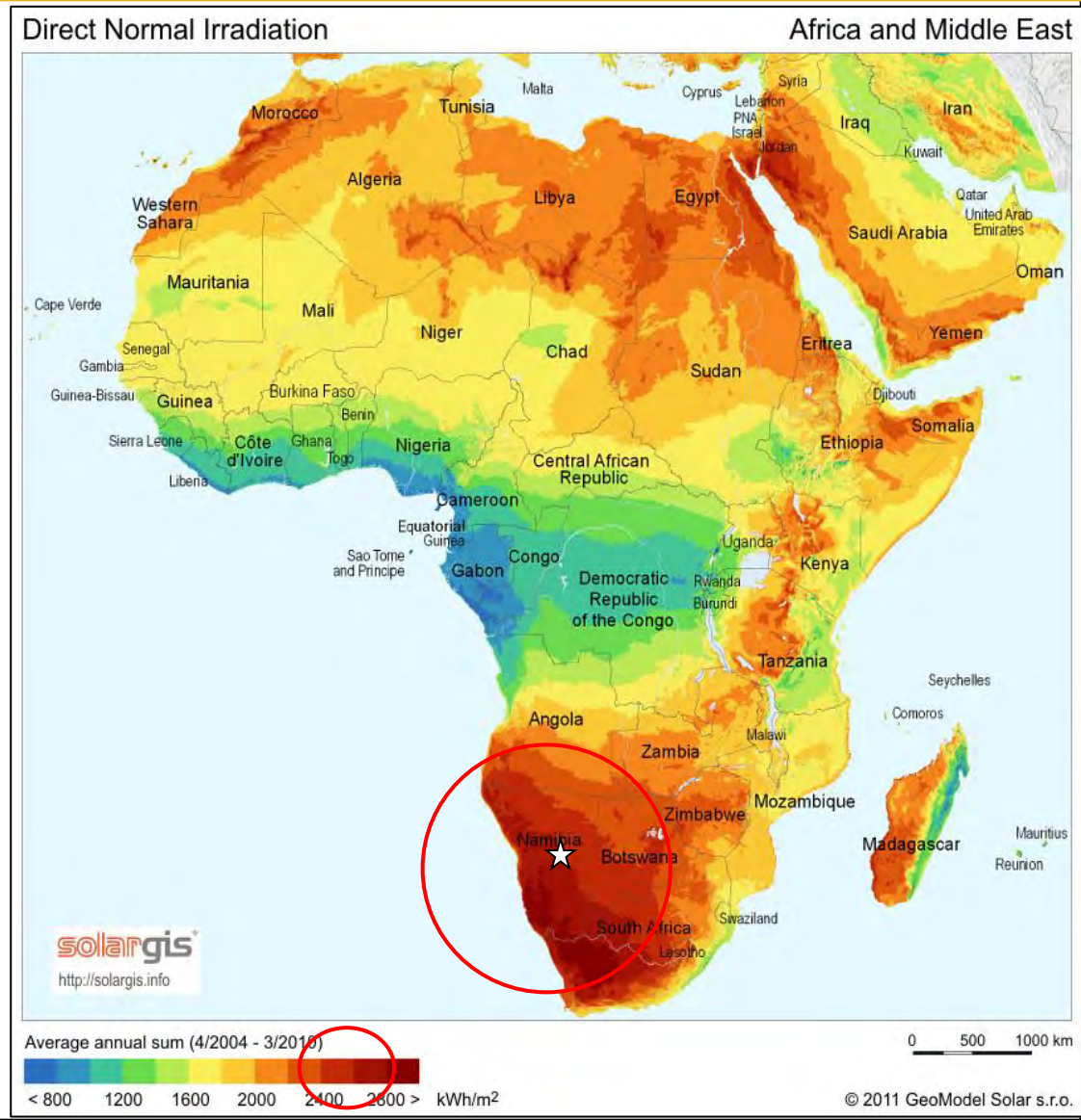
POST-CONSTRUCTION INFORMATION

- 7 MWdc Installed capacity
- 20 Hectare Solar Farm Area
- 62,400 x CAT Thin-film Panels
- 7 x 1MW Transformers
- 260 SMA String Inverters
- 105k Injury-free hours worked during construction
- 42.3 Million kWh's generated since commissioning (41.9 Million kWh's projected)
- Consumption of HFO reduced by 9.1 Million liters

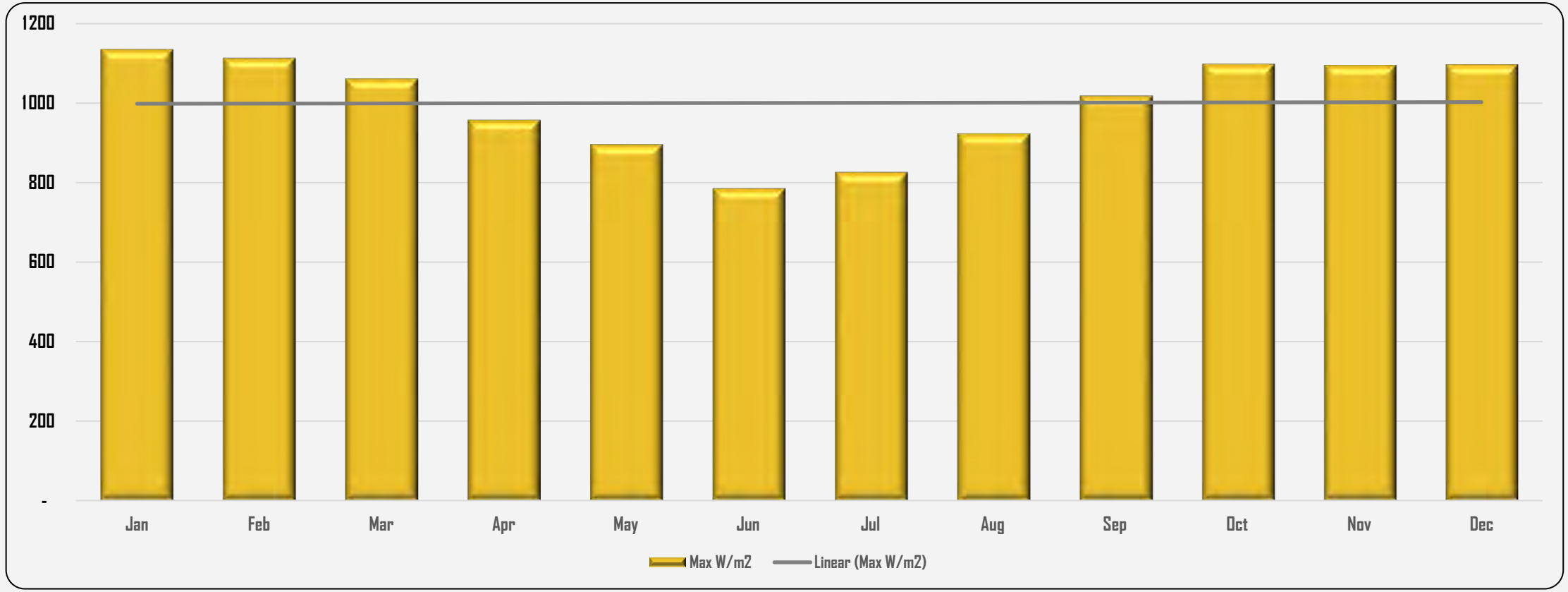
  YTD June 2021
- Actual performance **exceeds** feasibility

  study projections





- Namibia ranks as one of the best locations globally to generate solar energy.

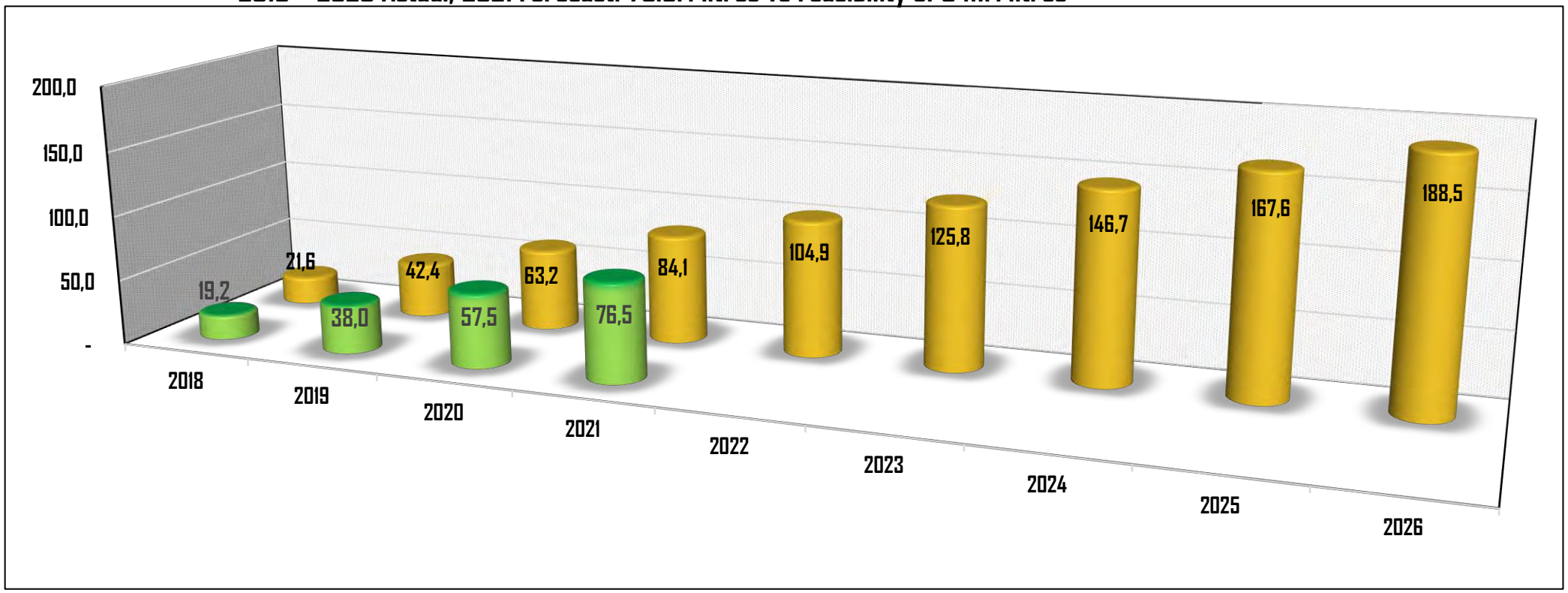


The graph above indicates the maximum irradiance levels in W/m^2 measured per month over a 5 year period at the Otjikoto Mine. The trendline indicates an average irradiance of +/- 1,000 W/m^2 which translates to an annual index of 2,591 kW/m^2 per annum (assuming an average 7.31 hours sunlight per day). **Actual irradiance data logged at the Solar Plant compare well to the overall recorded numbers in Northern Namibia (see map on previous page).**

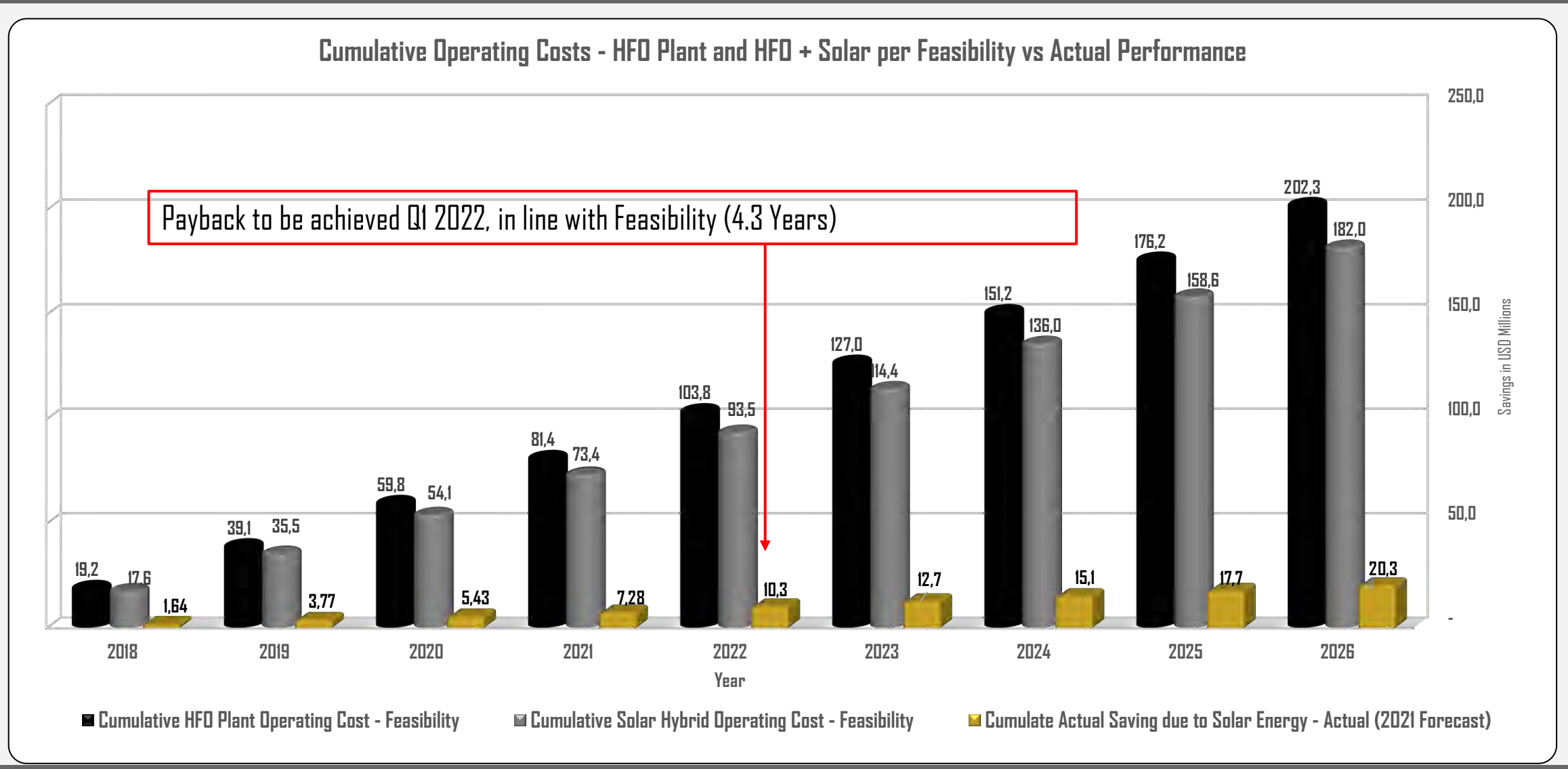
As of end June 2021:

- 42.3 Million kWh's generated post commissioning vs 41.9 Million kWh's projected.
- Consumption of HFO reduced by 9.1 Million litres post commissioning – in line with projections.
- 13% overall reduction in fuel consumption since commissioning – in line with projections.

Cumulative HFO Consumption in Millions of liters: Phase 1 - Solar + HFO:
2018 – 2020 Actual; 2021 Forecast: 76.5M litres vs Feasibility of 84.1M litres



CUMULATIVE SAVINGS EXPECTED FROM THE OTJIKOTO SOLAR PLANT - MUSD



NamPower Project Background

- Construction of a 21-kilometer overhead powerline to link the Otjikoto Mine to the Nampower Grid
- 13M USD Capital investment
- Reduction in running hours on HFO Gensets, resulting in:
  - Reduced carbon emissions
  - Significantly reduced HFO consumption

The NamPower Grid Link Project is on schedule to be fully commissioned and online by August 2022.

Golden Opportunities to make a real difference
and leave a Lasting Legacy

GREATER WATERBERG PARTNERSHIP PARK

- Creation of a 400 000 Ha Park in partnership with farmers, local communities and the government.
- Proposal under consideration – to include the Otjikoto Nature Reserve into the GWPP and generate continuous income for ongoing CSI activities from the sale of PV power to the local grid
- Comprehensive Master Plan completed 2018