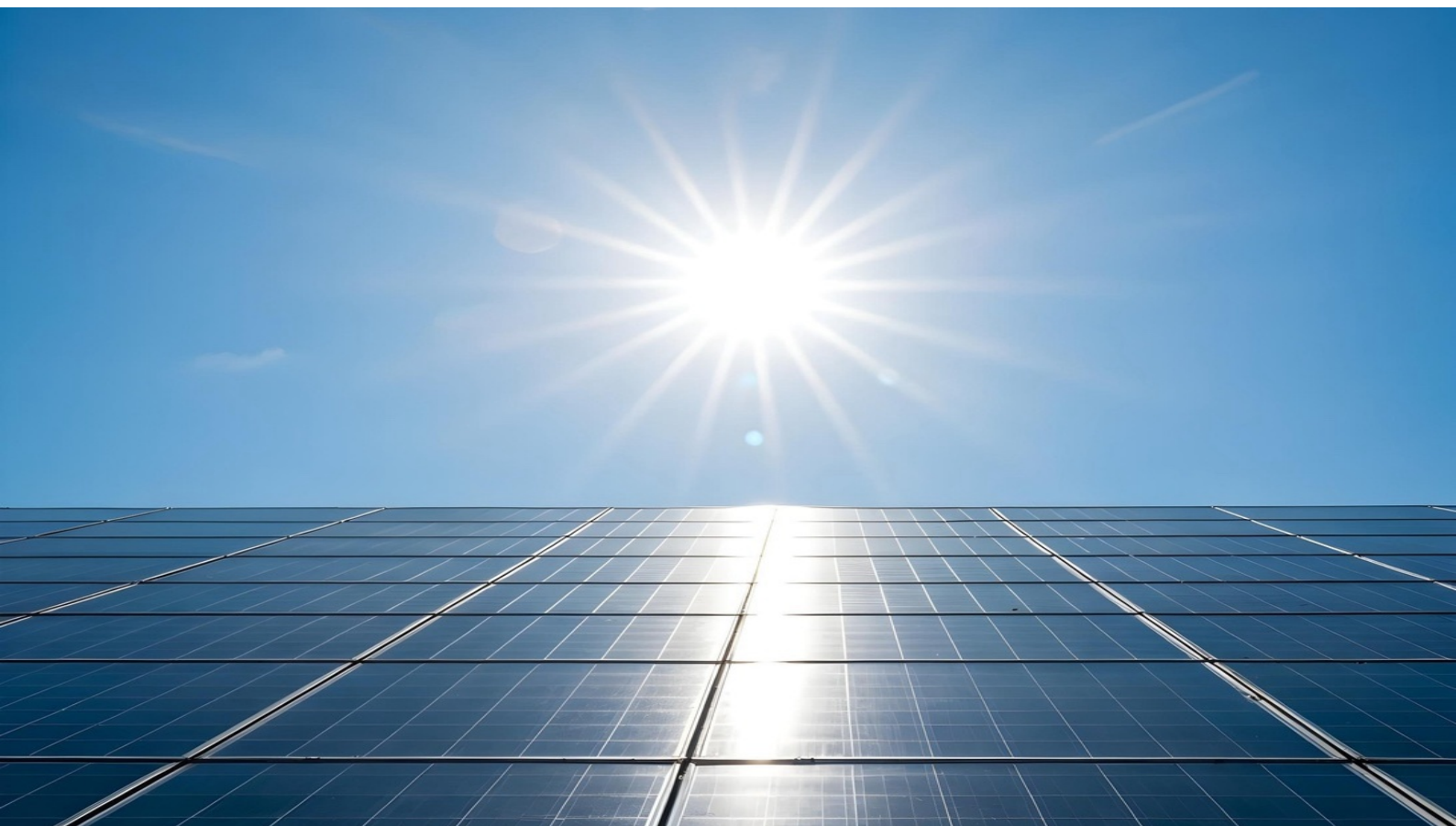


# 600MW DRC 태양광 발전

## 프로젝트 RTB



**MERGERSCORP**

## 600MW DRC

## RTB

콩고민주공화국(DRC)의 600MW 태양광 발전 프로젝트는 아프리카의 가장 심각한 전력 부족 문제를 해결하기 위한 전략적 재생 에너지 투자입니다. 킌샤사 북동쪽에 위치한 이 프로젝트는 900헥타르의 부지에 걸쳐 높은 일사량을 활용하여 연간 약 1,040,600MWh의 전력을 생산하게 됩니다.

이 시설에는 1축 추적 시스템(+/- 60°)에 장착된 모노퍼크(모노페이셜 또는 바이페이셜) 태양광 모듈(1500V DC)이 사용되어 최적의 성능과 효율성을 보장합니다. 이 발전소의 출력은 39.6km 송전선을 통해 킌웬자 변전소(220kV)와 연결되어 전력망 안정성을 높이고 국가 에너지 접근성을 확대할 것입니다.

이 이니셔티브는 DRC 국영 전력회사(SNEL)와의 25년 전력 구매 계약(PPA)에 따라 개발되었으며, 간주 에너지 공급을 포함하는 수용가 지불 모델로 구성되어 있습니다. PPA는 킌샤사 주 정부의 지원을 받으며 영국 법률에 따라 제네바 국제상공회의소(ICC)를 통해 중재가 이루어집니다.

## PPA

- SNEL(국립 전력 회사)
- SUNPLUS SARL
- 25년
- kWh당 0.095달러(첫 3년간 고정), 이후 미국 CPI에 따라 조정됨
- 연결 중단 또는 분쟁 발생 시에도 계속 지불하는 선불 결제 구조
- 정부 인센티브: 토지 무상 제공 및 독점권 부여
  - 관세 및 세금 전액 면제
  - 주 의회 비준
- BOOT/IPP 결제 보증

미화 4.5 ~ 4.8달러 (MWp 평균 75 기준)

- EPC(설계, 자재 및 시공 포함): 미화 2억~2억 2천만 달러(60~70%)
- 태양 전지판: 미화 1억 1,500만 달러
- 토지 취득: 미화 2천만 달러
- 마운팅 구조물: 미화 9천만 달러
- 전기 인프라: 미화 3천만 달러
- 모니터링 및 제어 시스템: 5백만 달러

## TARGET PRICE

\$ 450,000,000

## BUSINESS TYPE

재생 에너지

## COUNTRY

콩고

## BUSINESS ID

L#20261025

- 기타/비상사태: USD 10백만

미화 4억 5천만 달러(기본 사례)

( ):

- IRR: 20%
- 5년 :
- 미화 9880만 달러
- 25년

이러한 지표는 강력한 현금 흐름 창출과 장기 PPA에 따른 조기 자본 회수 등 탄탄한 재무적 생존력을 반영합니다.

이 프로젝트는 DR콩고의 에너지 전환에 혁신적인 역할을 할 것입니다:

- 100 제공
- 건설 및 운영 기간 동안 창출
- 안정적인 전력 공급을 통한 지역 경제 발전 촉진
- 60CO<sub>2</sub> 배출량 감소
- DR콩고민주공화국의 (SDG 이행 지원)

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