NOOR OUARZAZATE COMPLEX

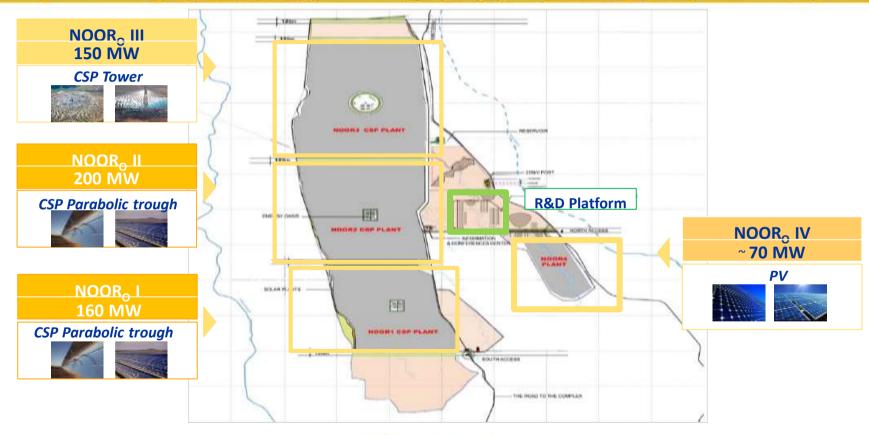
Février 2020





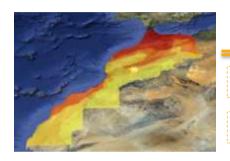


NOOR OUARZAZATE COMPLEX, A GRADUAL DEPLOYMENT OF MORE THAN 550 MW



SELECTING ADEQUATE SITES AND ACQUIRING THE LAND

For the purpose of the development of the complex NOOR, Masen has acquired the necessary land



COMPLEX NOOR

3000 hectares

Near a 440 hm3 dam

10 km North-Est of Quarzazate

Next to 225/60 KV substation and lines



Required land plot per project have been made available through a surface right

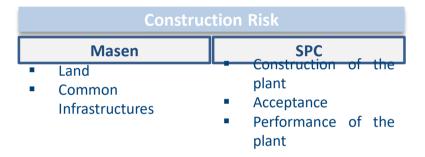
Surface right entitles the Project
Companies to the ownership of the plant
for the duration of its operation

Masen has aslo performed all qualification studies related to the site



NEED TO DEFINE CLEAR RISK ALLOCATION AND MODALITIES

Clear and optimized risk allocation translated into contractual documents made available to bidders



Commercial Risk			
Masen	SPC		
 Offtake volulme 	 Payment 		

Operating Risk			
Masen Transmission			SPC
 Performance availability Infrastructures Availability of was 	and of	•	Management of the plant Solar resource



NOOR OUARZAZATE: A MULTI TECHNOLOGIES COMPLEX



A SOLAR COMPLEX OF 580 MW COMBINING 3 DIFFERENT SOLAR TECHNOLOGIES



NOORo I



IN OPERATION

- Technology: CSP trough wet cooling
- Capacity: 160 MW
- Storage: 3 heures
- Location : Ouarzazate complex
- Emissions CO2 évitées:
- ~ 280 000 tCO2 / an

Industrial Integration: 30%*

NOORo II



IN OPERATION

- Technology: CSP trough dry cooling
- Capacity: 200 MW
- Storage: > 7 heures
- Location : Ouarzazate complex
- Emissions CO2 évitées : ~ 380 000 tCO2 / an
 - Industrial Integration: 35%

NOORo III



IN OPERATION

- Technology: CSP Tower dry cooling
- Capacity: 150 MW
- Storage: > 7 heures
- Location : Ouarzazate complex
- Emissions CO2 évitées:
 - ~ 250 000 tCO2 / an
 - Industrial Integration: 35%

NOORo PV I



IN OPERATION

- Technology: PV avec tracking
- Capacity: 170 MW

Location : Ouarzazate complex,

Emișsiane GAd B⊌itfasdour ~ 87 000 tCO2 / an

Peak price reduction of 15.6% (pour NOORo II) and 12.2% (pour NOORo III) compared to NOORo I



NOOR OUARZAZATE: THE PERFORMANCE

