

# aggreko

Hybrid Power Solution Development with Aggreko

29 July 2021

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# Safely working with energy

- Always identify and isolate all sources of energy
- Always secure any isolation using unique lock
- Always prove that isolations are effective before starting work
- Never carry out tasks or activities beyond your level of authorisation





## **KEY FACTS**

6,008 MW

Average power on hire

£1,365m

2020 revenue

182 locations

Sales and service centres

**80** countries

Where we operate

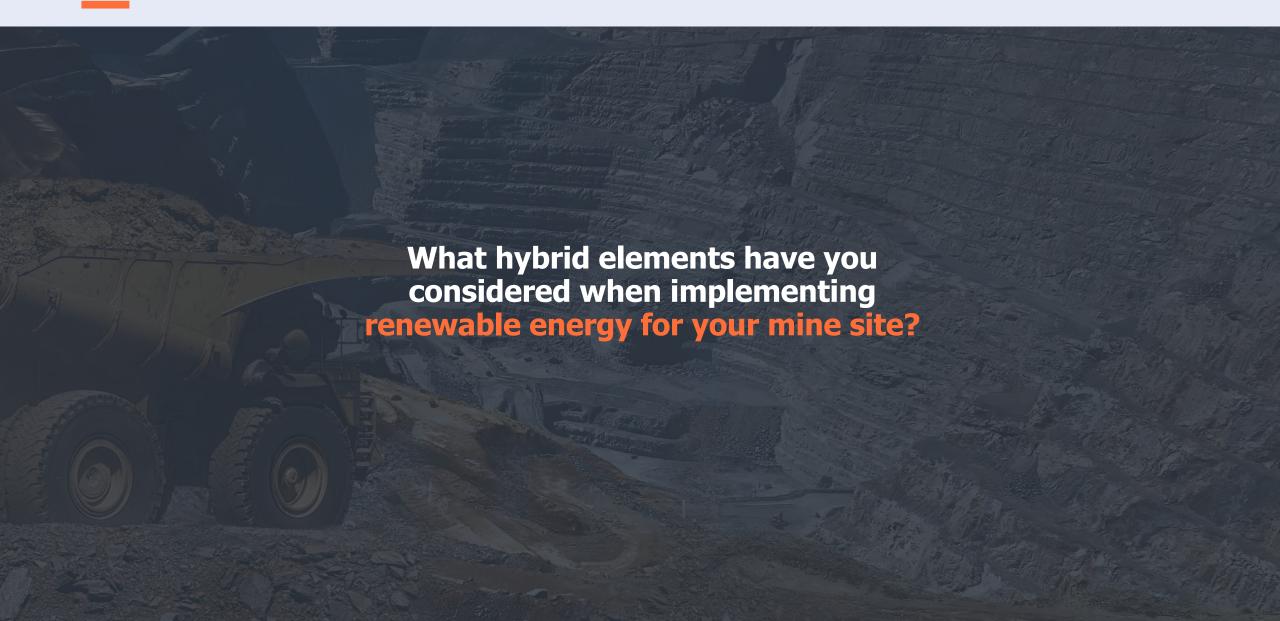


# Global knowledge, local expertise

Supporting mining customers worldwide

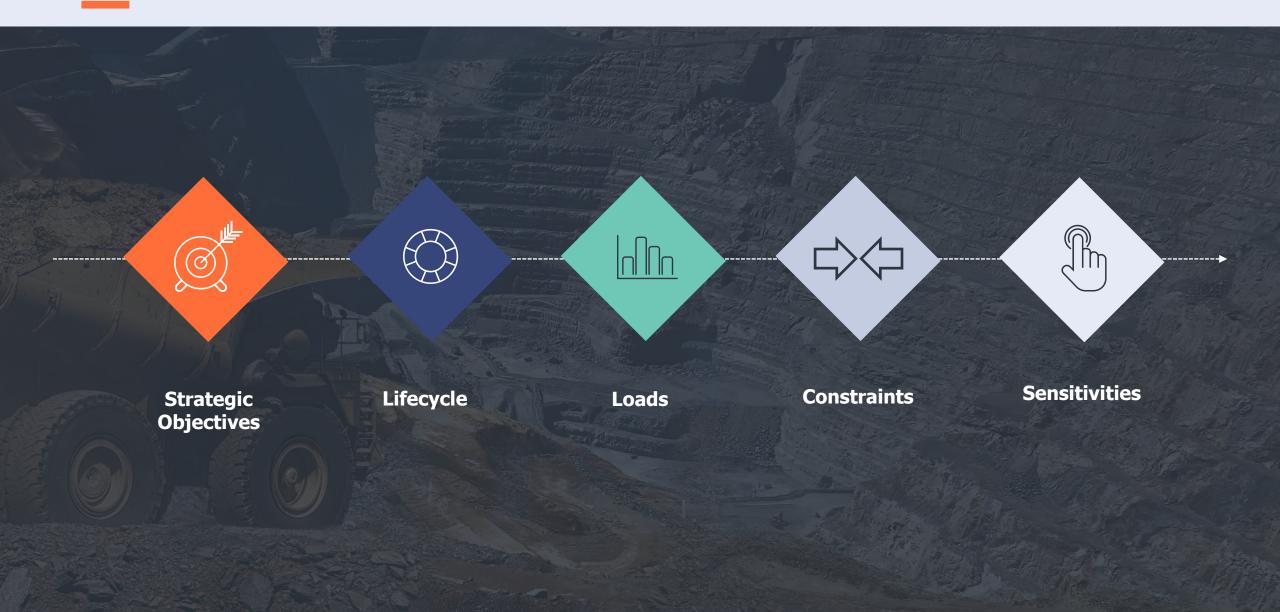






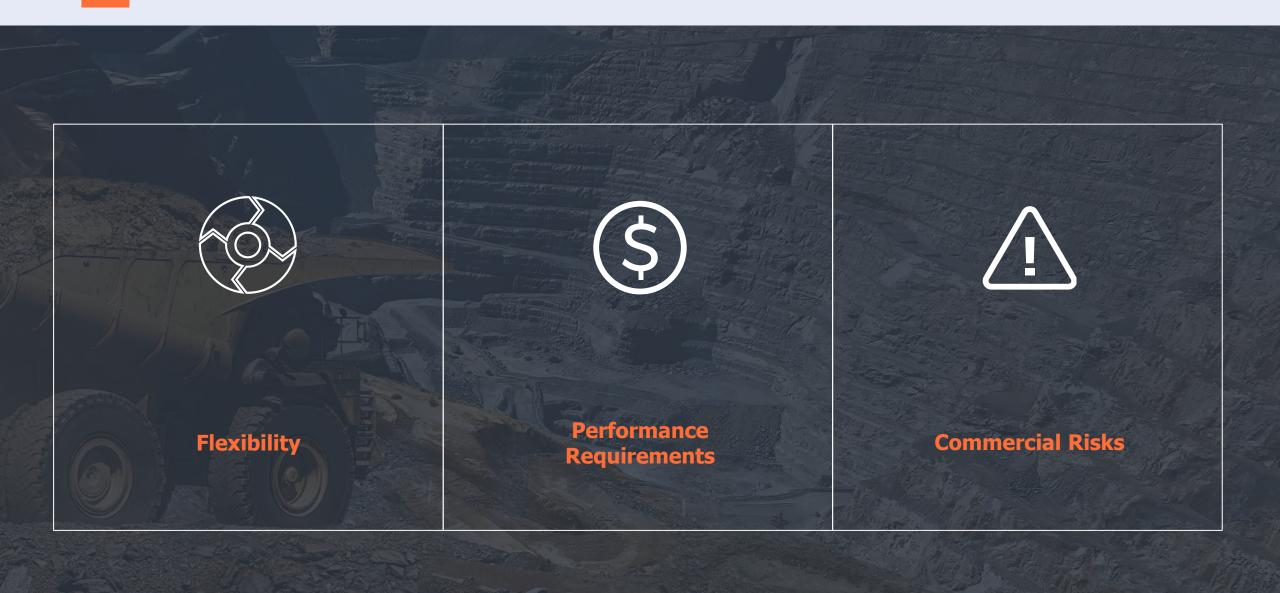
# **CLIENT REQUIREMENTS**





## **COMMERCIAL CONSIDERATIONS**







#### **Technical Tools**





PowerFactory 2020





#### **Economic Tools**





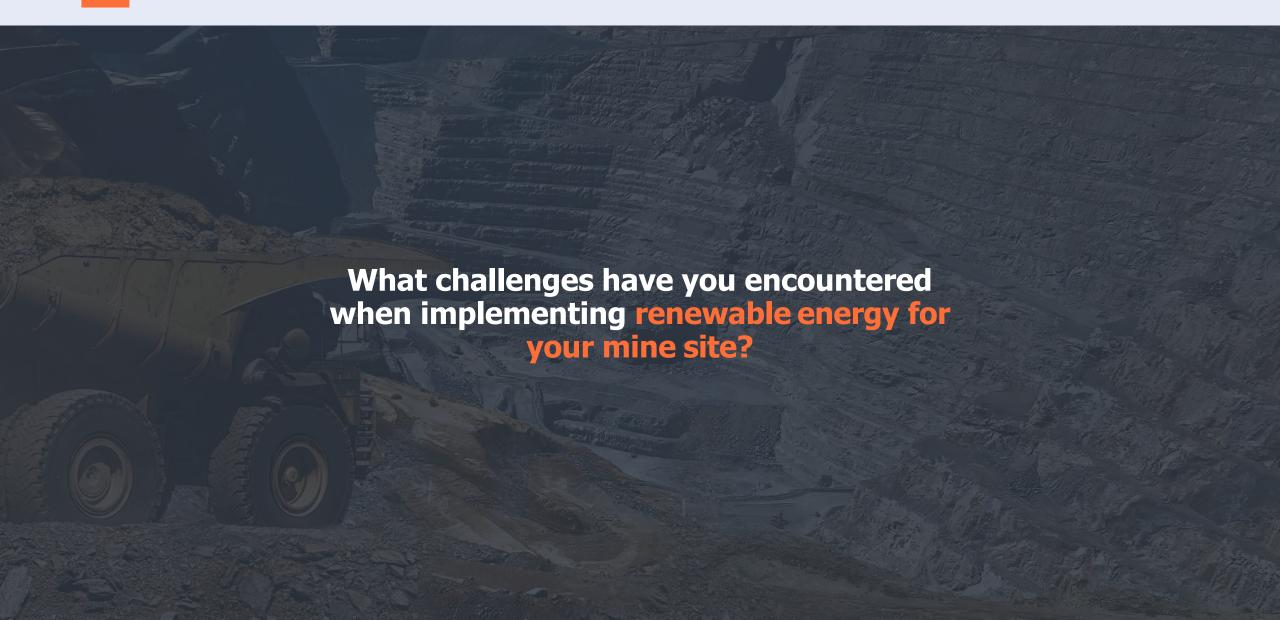












#### **CASE STUDY INPUTS**





#### **RENEWABLE OPTIONS**



**Redeployable Solar Tracking Solar** Wind

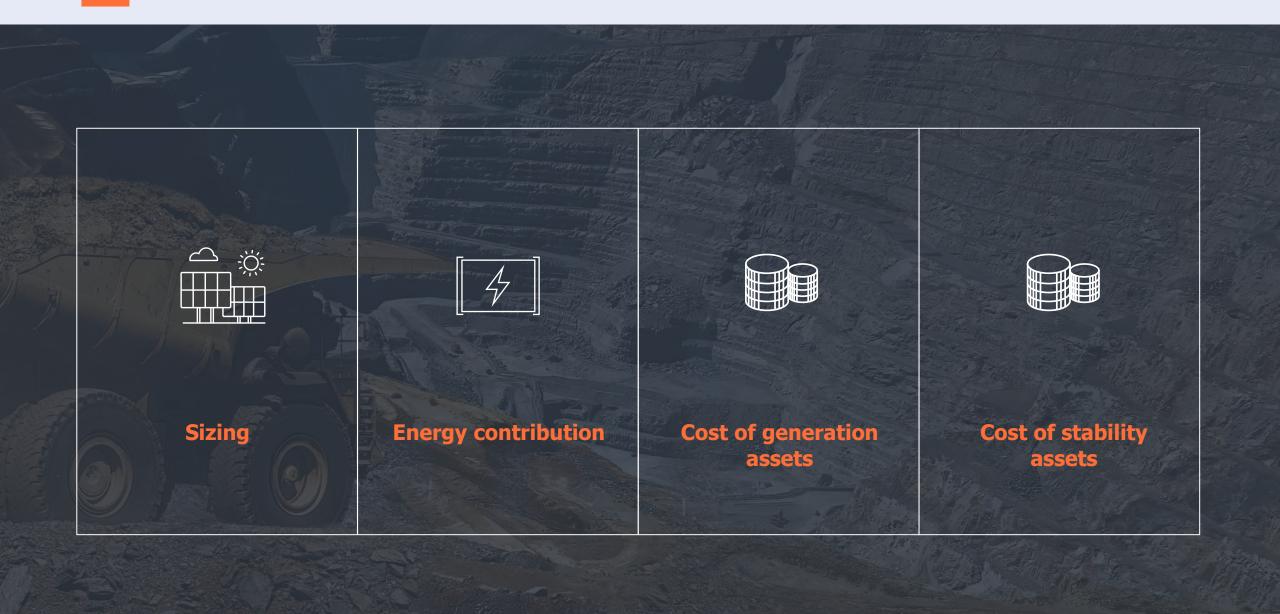


**System Demand side System** requirements for requirements for considerations stability Redundancy

**HYBRID POWER SOLUTION DEVELOPMENT** 

#### **ECONOMIC ASSESSMENT**



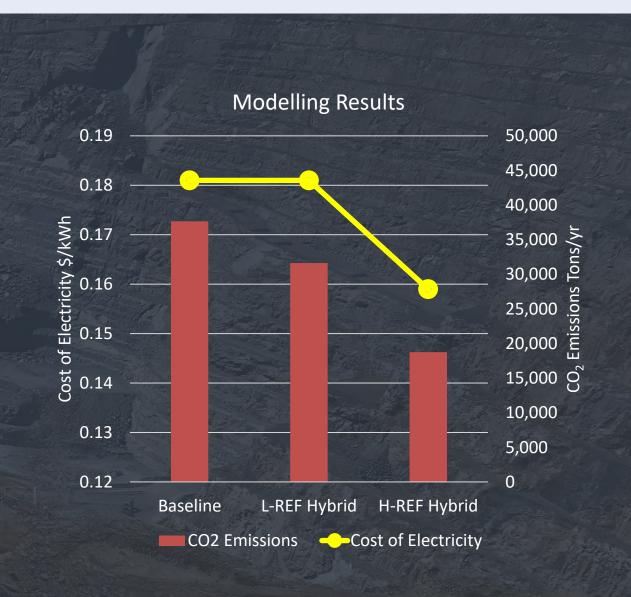


#### **MODELLING RESULTS**



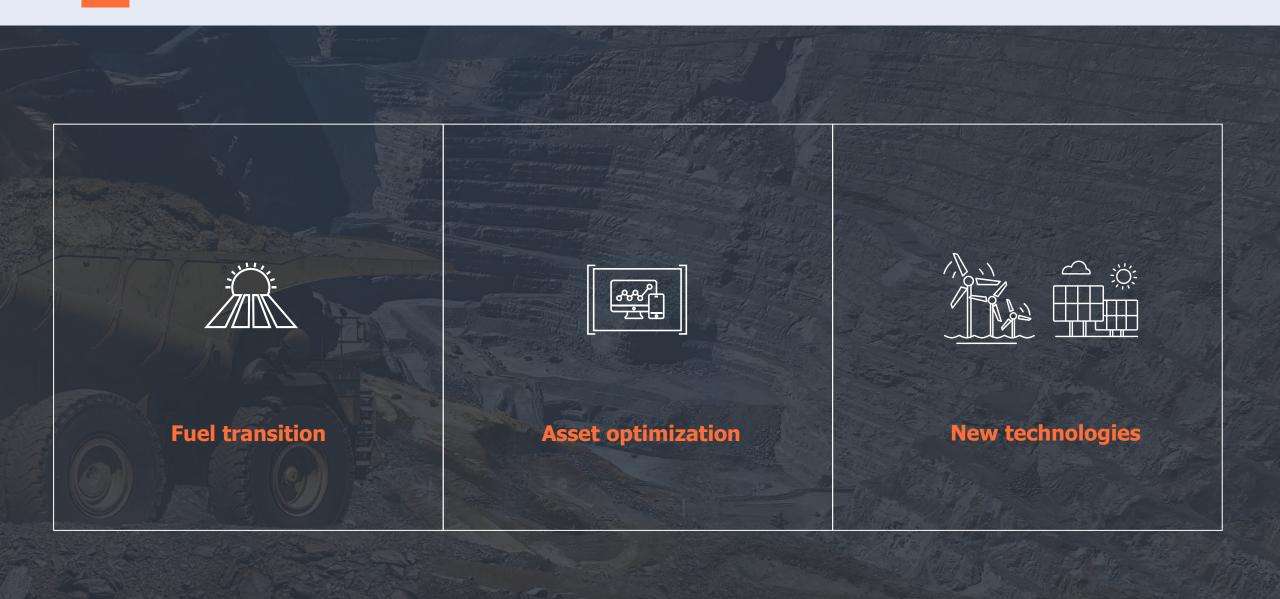
	Baseline	L-REF Hybrid	H-REF Hybrid	
Primary Generation	ICE - 10.8MW NGG	ICE - 10.8MW NGG PV - 5.99MWp	ICE - 10.8MW NGG Wind - 8.0MW PV - 2.4MWp	
Stability Elements	ICE	ICE Y.Cube BESS	ICE Y.Cube BESS SynCon	
Renewable Energy Fraction		17.90%	52%	

Results				
Cost of Electricity	0.181	0.181	0.159	
CO2 Emissions	37,661	31,624	18,759	



# **DEPLOYMENT, OPERATIONS AND MAINTENANCE**





#### **SOLAR HYBRID PROJECTS**





# Q&A aggreko