

Reinventing On-Site Power

From Diesel to data-driven microgrids

Julio Tome Atlas Copco Portable Power division





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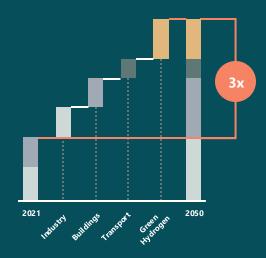
Let's connect!

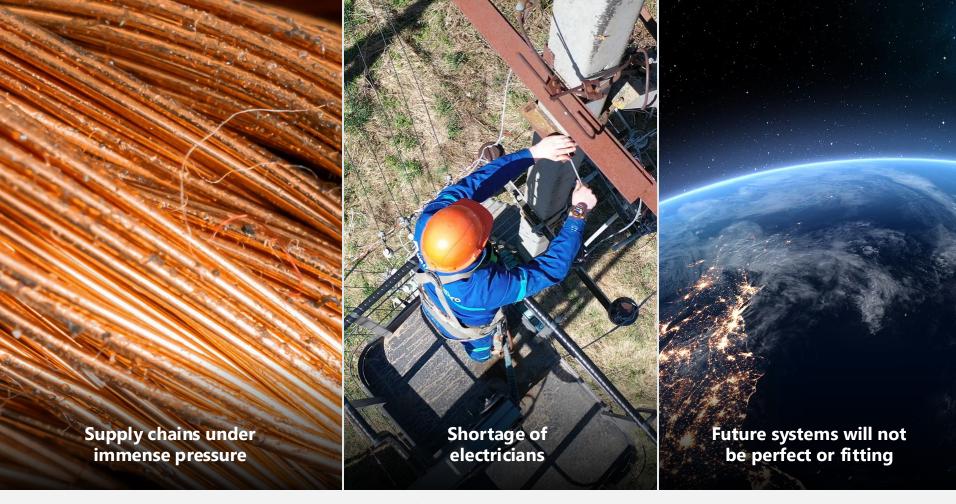


Atlas Copco Group



Electrification will cause demand to triple by 2050



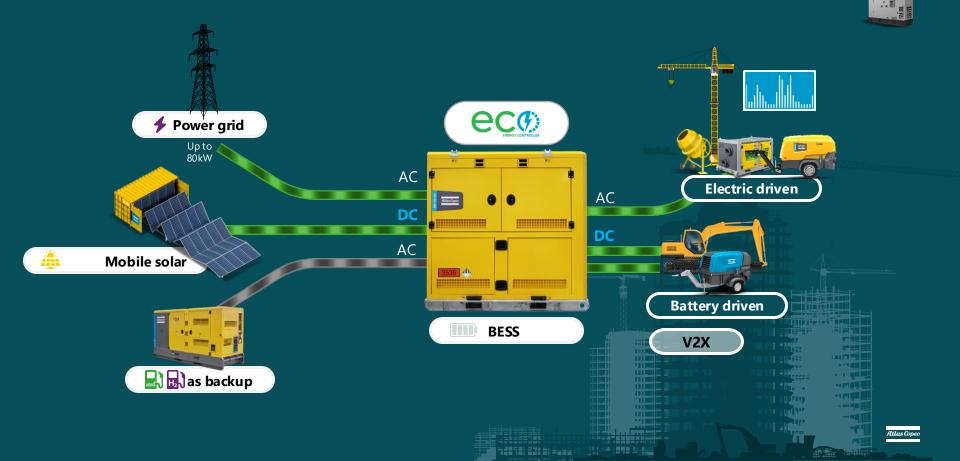


Huge opportunities for innovative and quick movers

On-site Power as we know it...



On-site Power changing to a microgrid (AC & DC)











Lower Consumption



Less engine hours



Less maintenance



Downtime costs



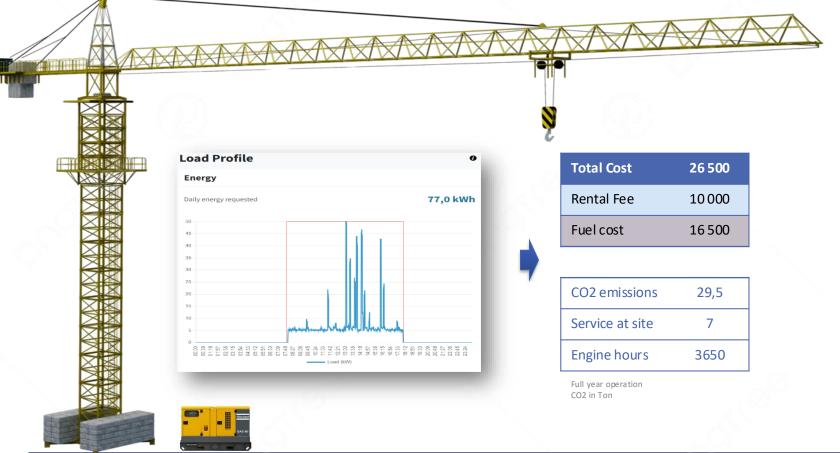
CO2 reduction

Challenges for Rental companies

- Construction sites typically with load profiles (<20% avrg)
- Stage 5 engines very sensitive to low loads
- Hybrid could be solution but...BESS units are expensive and complex
- Difficult to convince end customer to pay extra
- CO2 reductions not always relevant



ERA Convention 2025 |





ERA Convention 2025 | + load bank **Load Profile Total Cost** +8 500 26500 35 000 Energy ~150 kWh Rental Fee 10 000 10 000 Daily energy requested **Fuel cost** + 8 500 16500 25 000

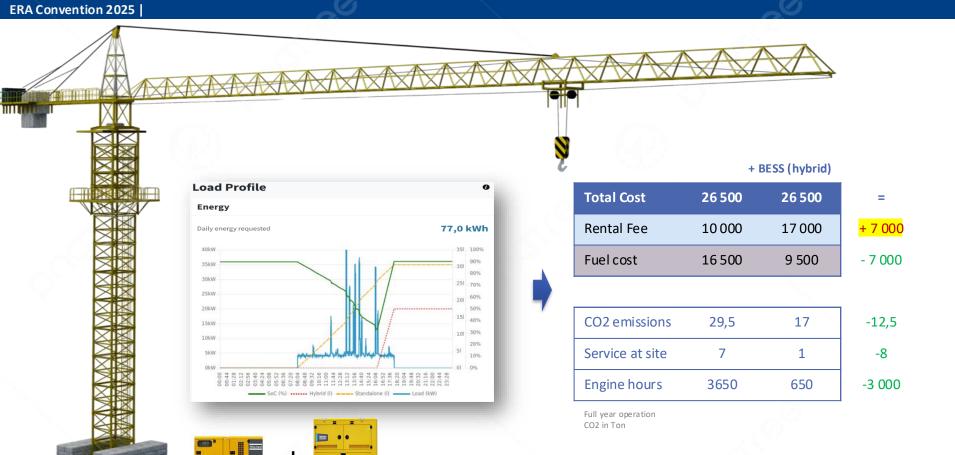
| CO2 emissions | 29,5 | 49 |
|-----------------|------|------|
| Service at site | 7 | 7 |
| Engine hours | 3650 | 3650 |

Full year operation CO2 in Ton





+20









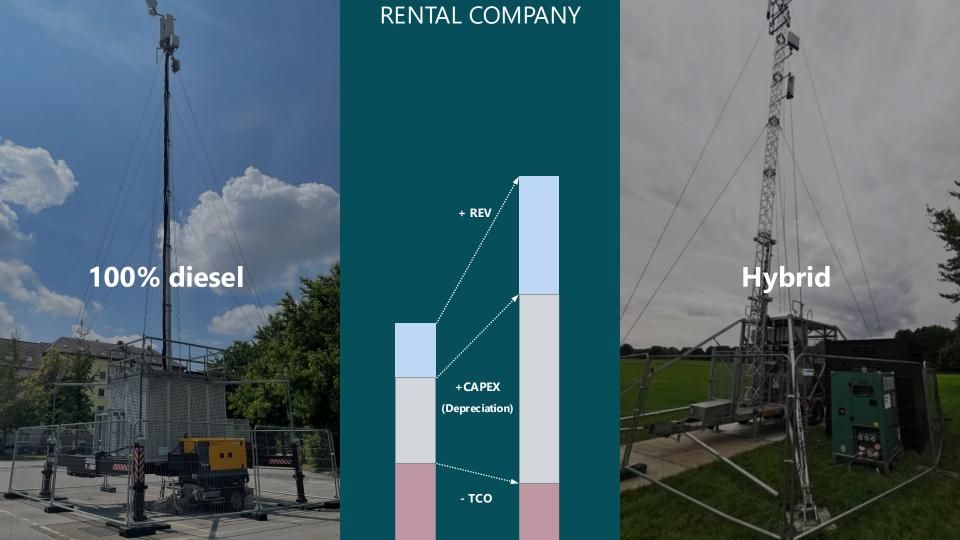
Full year operation CO2 in Ton



ERA Convention 2025 | Total Cost (full year) 26500 26500 35 000 26500 Rental Fee 10000 10000 17000 26000 Fuel cost 16500 25 000 9 500 500 CO2 emissions (Ton) 29,5 49 17 1,2 7 7 Service at site 1 0 Engine hours 3 650 3 650 650 50

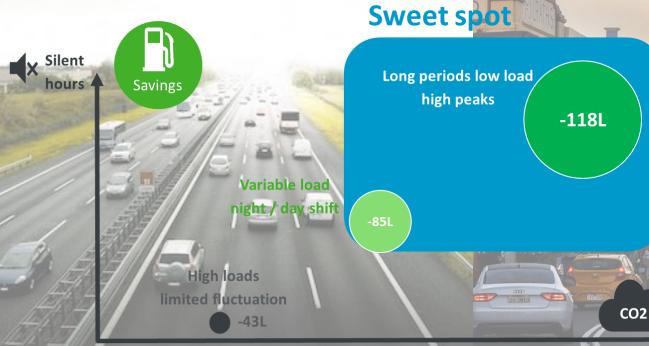


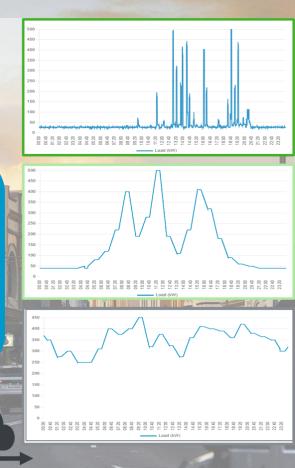




Off-grid hybrid power solution (GEN + BATT)

Sweet spot for adoption





CO2 reduction (kg)

Load profile data: Using AI to find the "sweet spots" (and optimal solution)





Some references:





Thank You