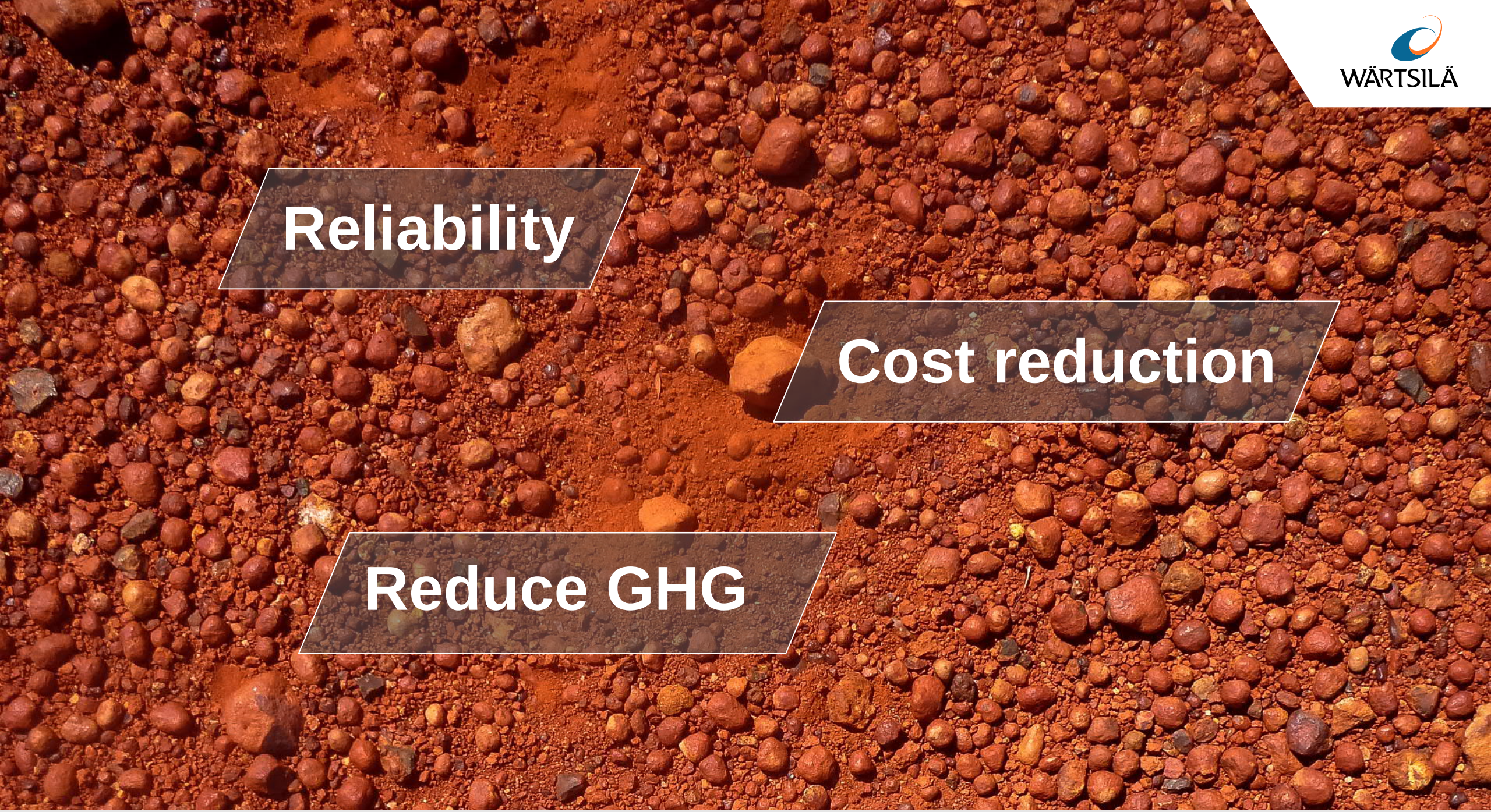
WÄRTSILÄ

Microgrids for Mines

Go green and reduce operation costs with smart storage tech + high efficiency gensets

2020 Energy and Mines Virtual Summit



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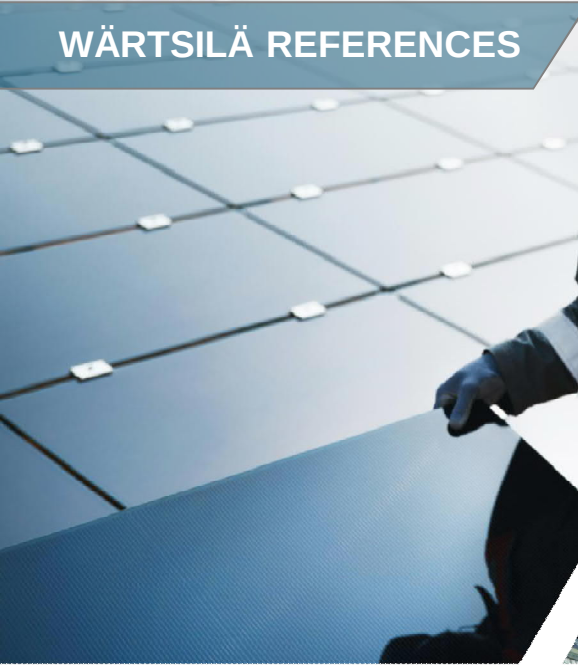


Essakane

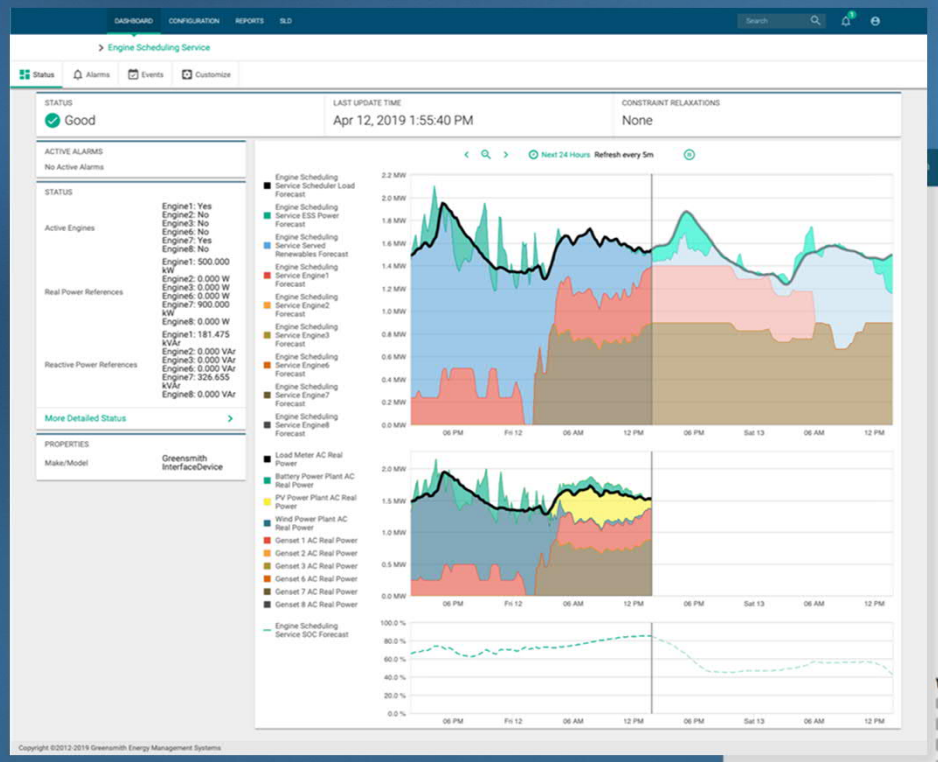
- **Largest solar PV-engine hybrid** solution in Africa
- Solar plant 15 MWp + 11 x Wartsila gensets (**total 57 MW**)

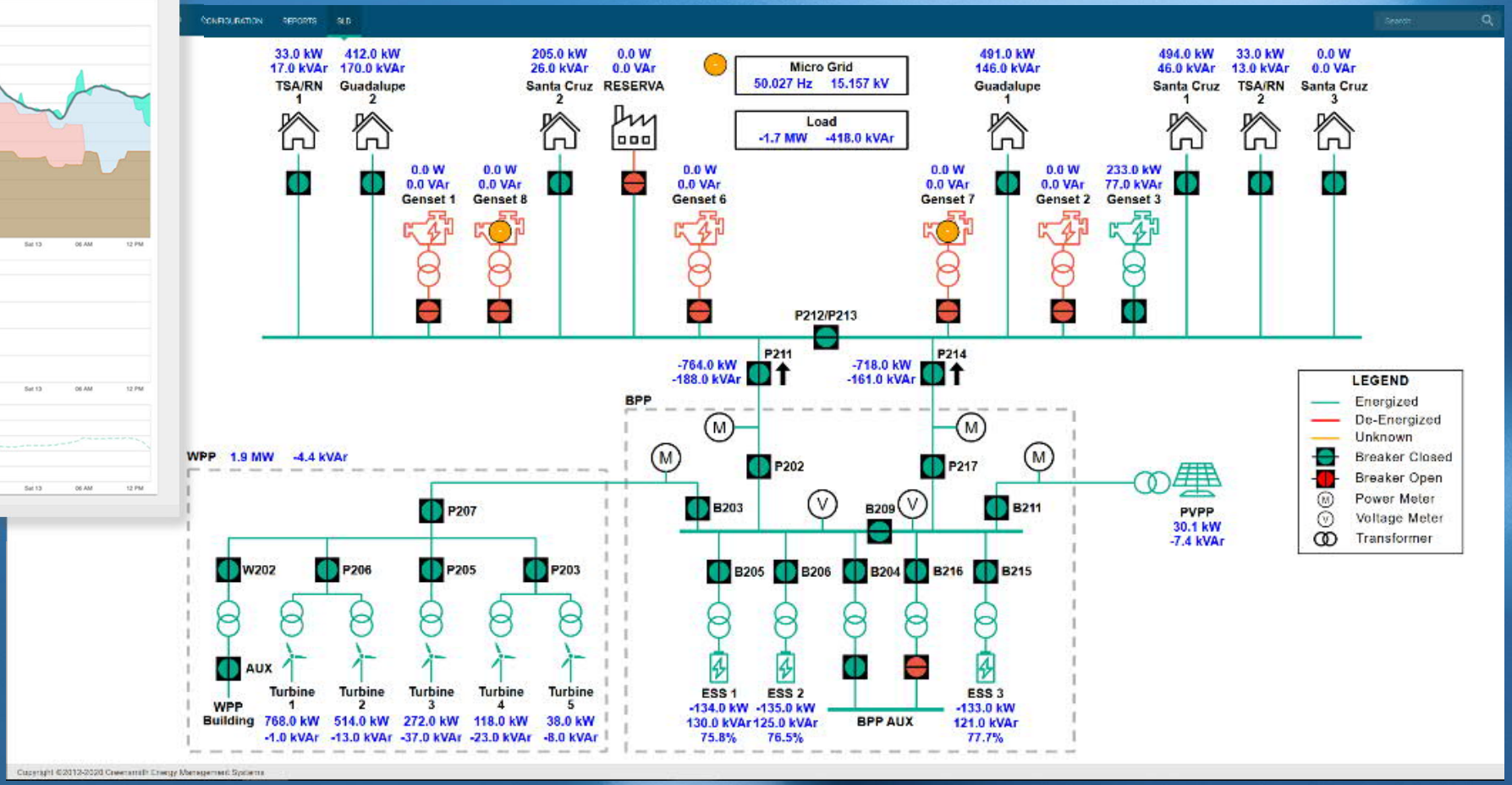
Fekola Mine

- **Optimised energy production** at a fuel-dependent, energy-intensive operational mining facility
- Wartsila delivering **17MW / 15MWh BESS**
- **Project is expected to reduce:**
  - Gold processing costs **by more than 7%**
  - Long-term savings on mining operations, **~ 13 million L fuel savings / year**

AUS mining projects

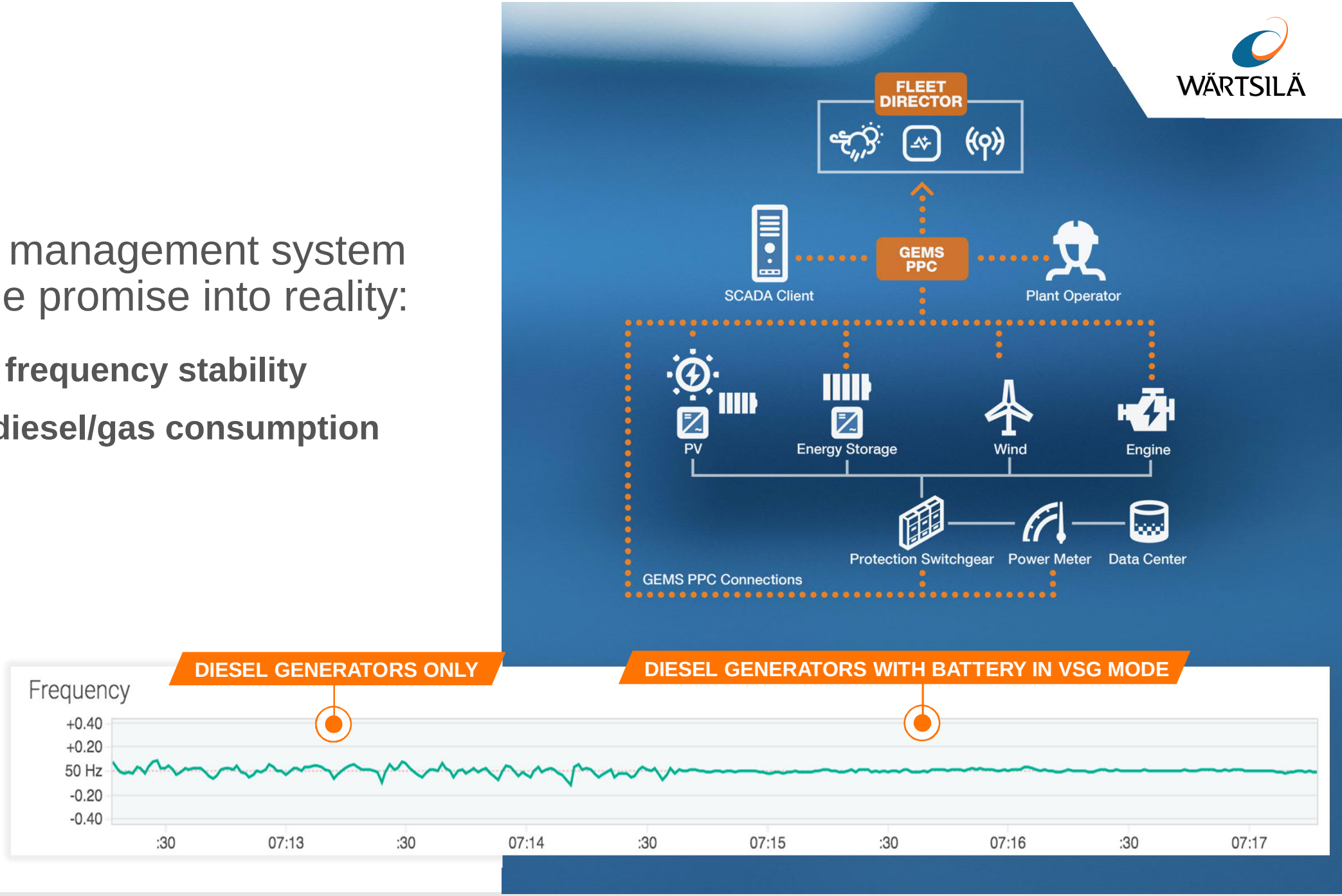
Pretty complex systems!





The energy management system is turning the promise into reality:

- ▲ **Increased** frequency stability
- ▼ **Reduced** diesel/gas consumption



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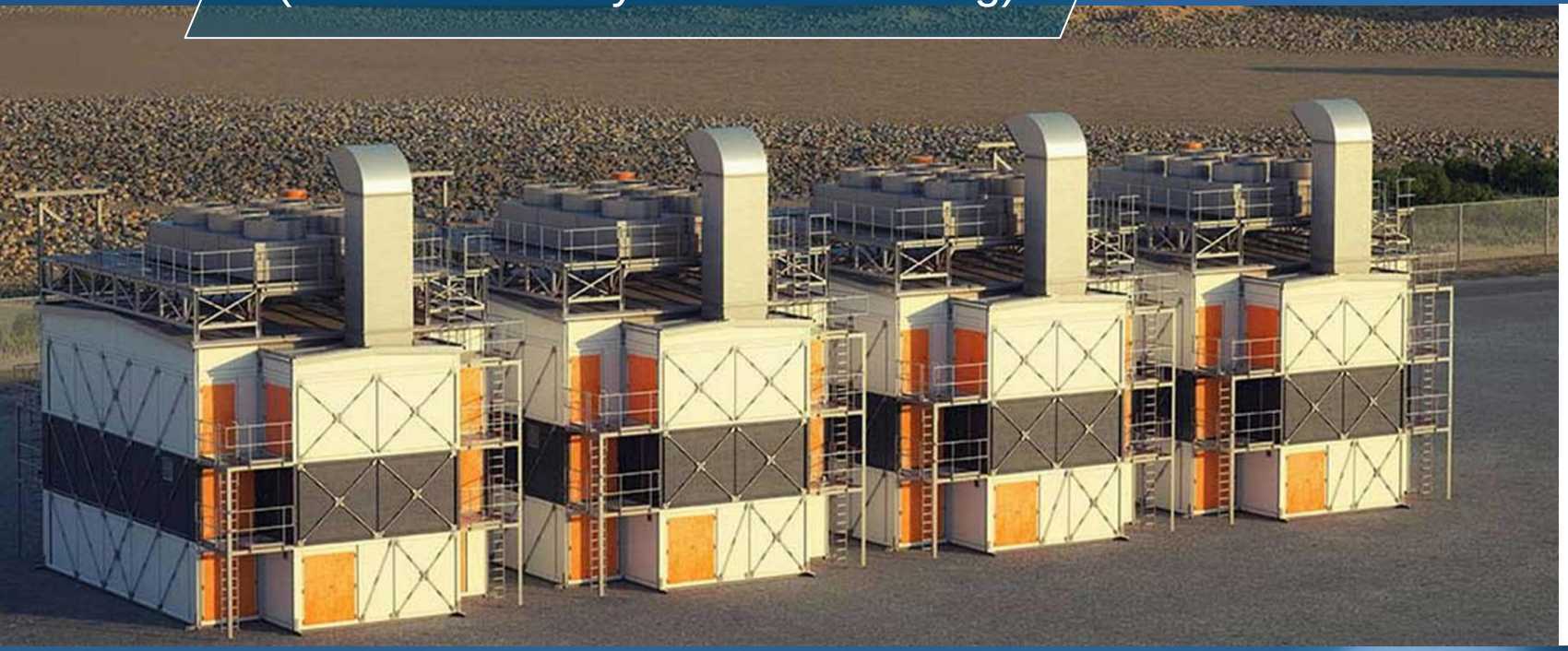
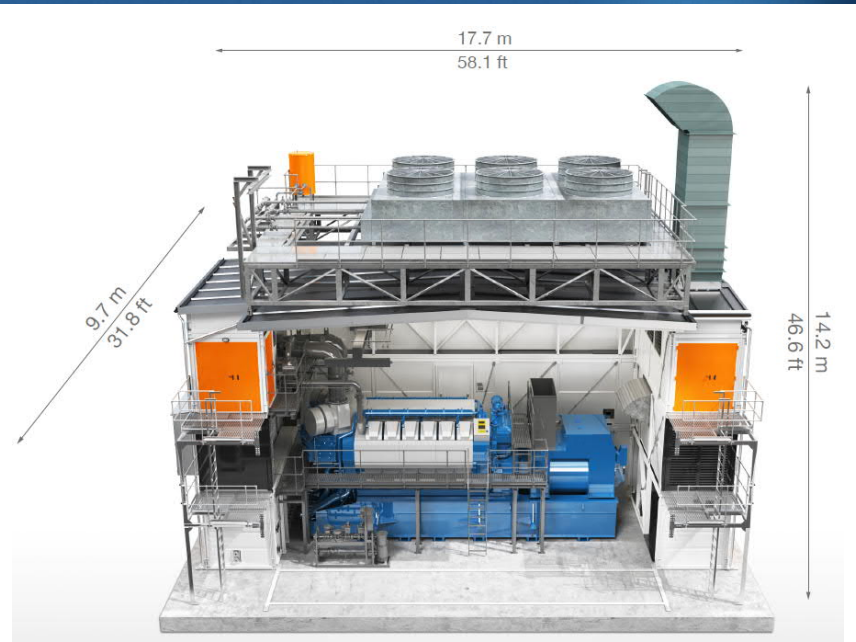
Highly-prefabricated and expandable solution

High-efficiency gensets

Deployed on Syama Gold mine (Mali - owned by Resolute Mining)





Thank you!

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