

How relevant is wind for mining?

Amiram Roth-Deblon – August 4th 2020



Image credit: **GOLD FIELDS**

Agenda

1

From daytime only to 24/7 renewable energy

2

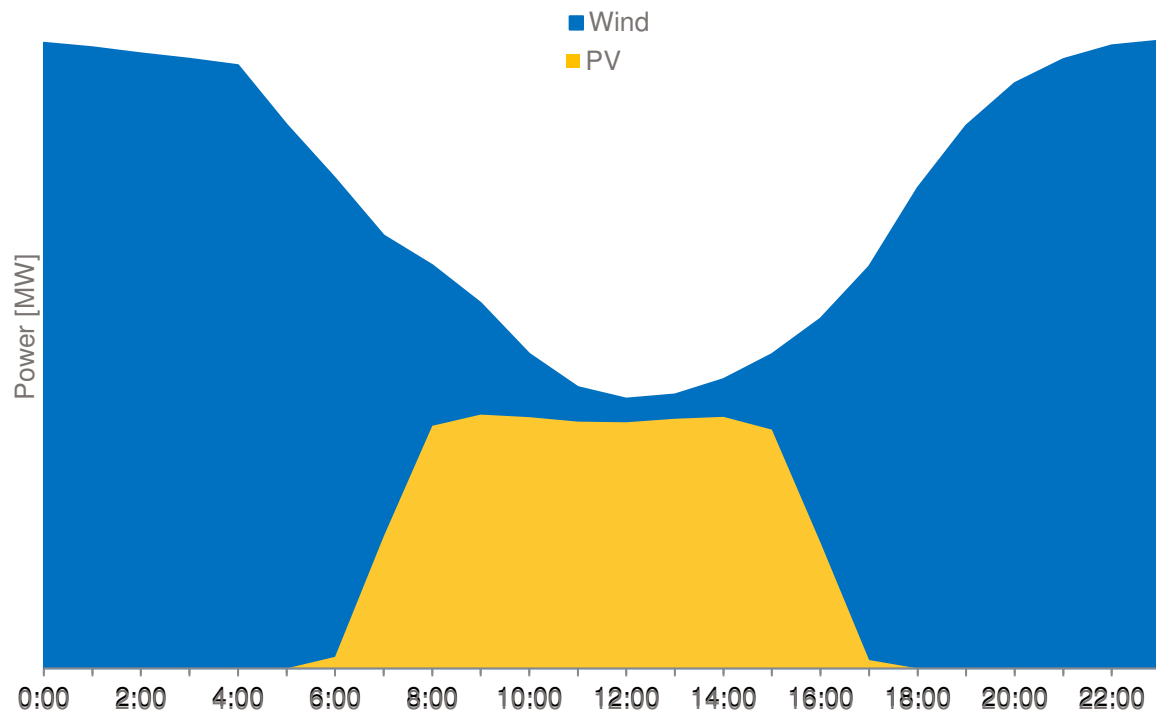
Lessons learned from landmark hybrids

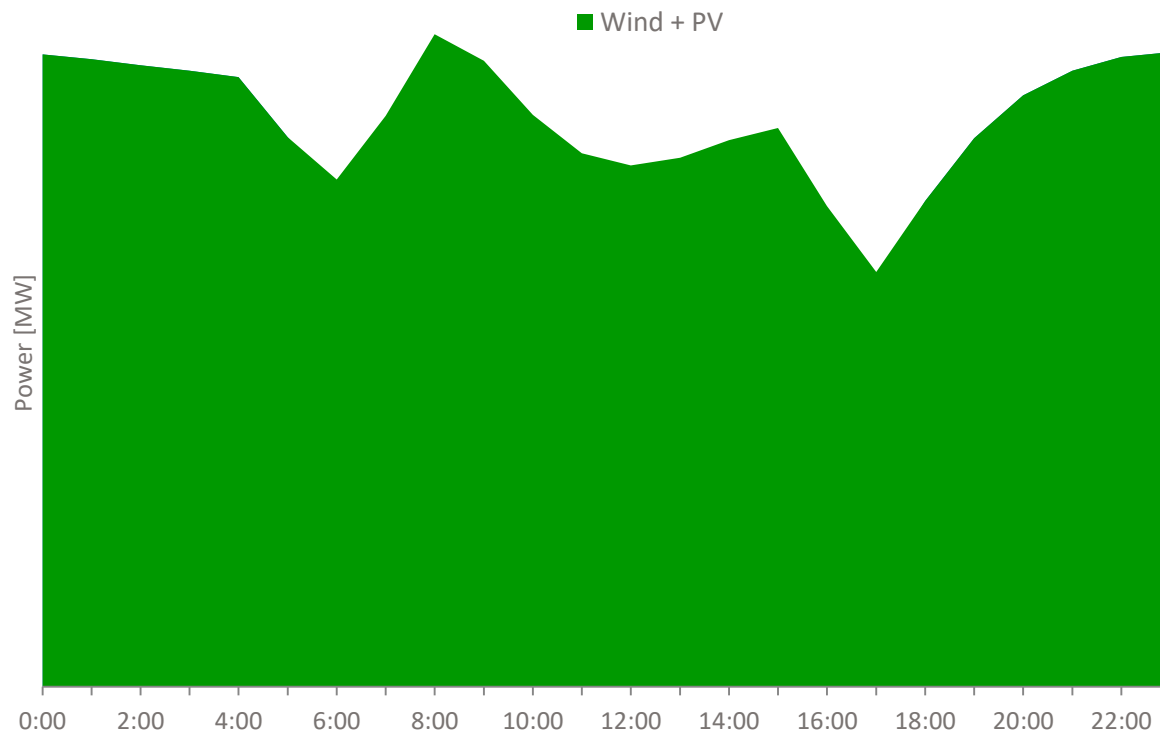
3

Benefits and risks of windpower

4

Where to use windpower





Lessons learned

- Solar provides the lowest cost for daytime electricity
- Batteries increase security & enable more renewable energy
- Wind is competitive & provides power at night
- Solar and wind complement each other in Australia
- The most reliable & lowest cost combine wind, solar and battery



What are the risks of windpower?

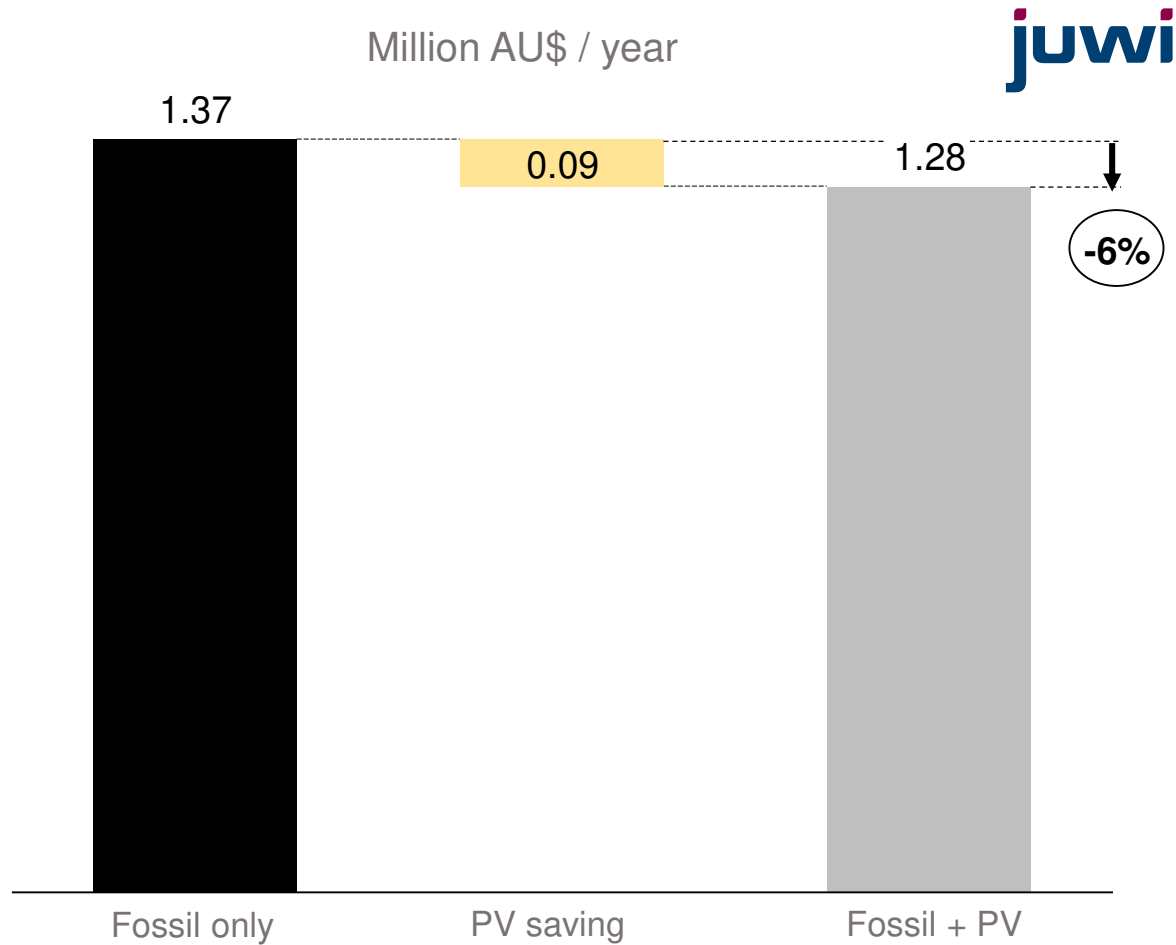
- Energy forecast, permitting and project delivery
- CAPEX instead of OPEX
- Complexity with multiple energy sources

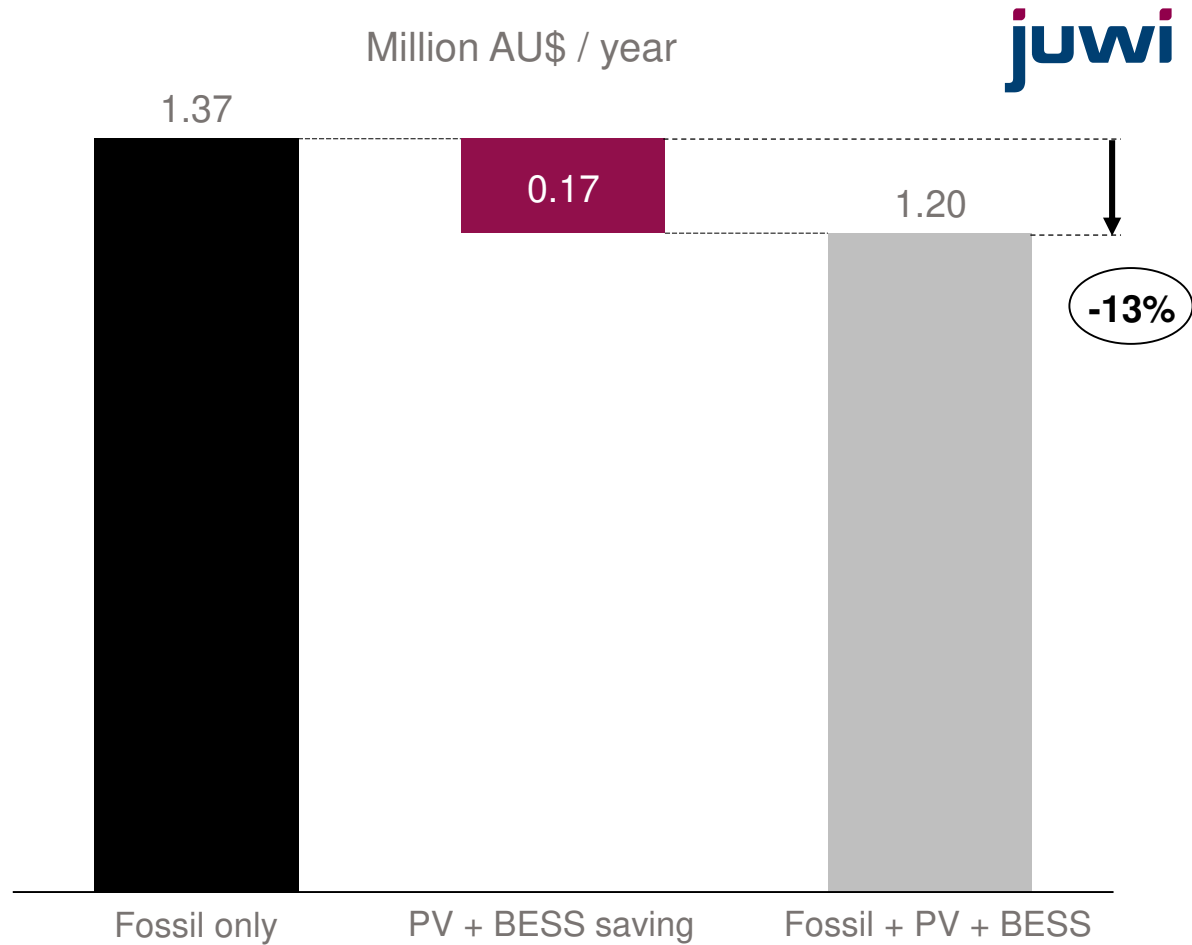
Benefits of adding wind

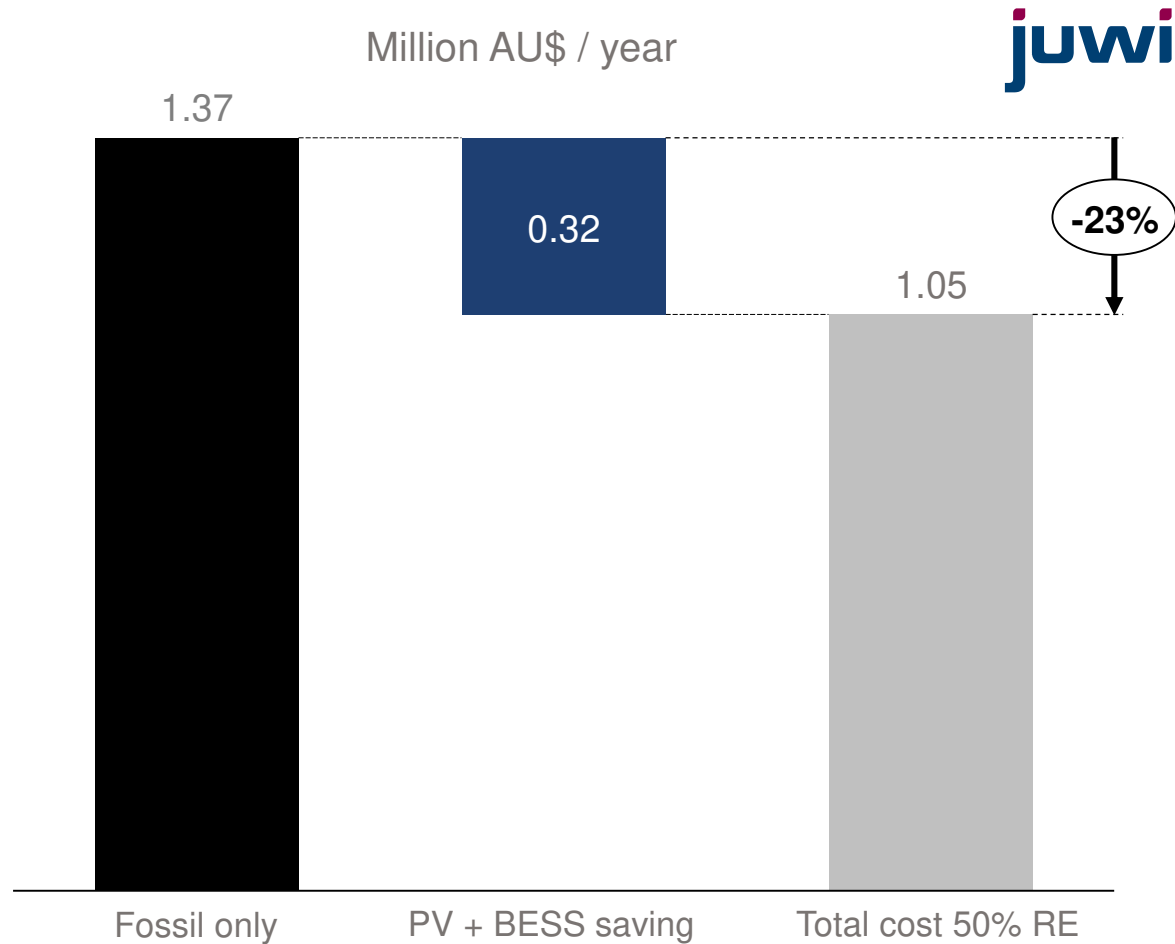
- Double reductions in cash operating costs
- Double carbon savings
- Reduced fuel price exposure

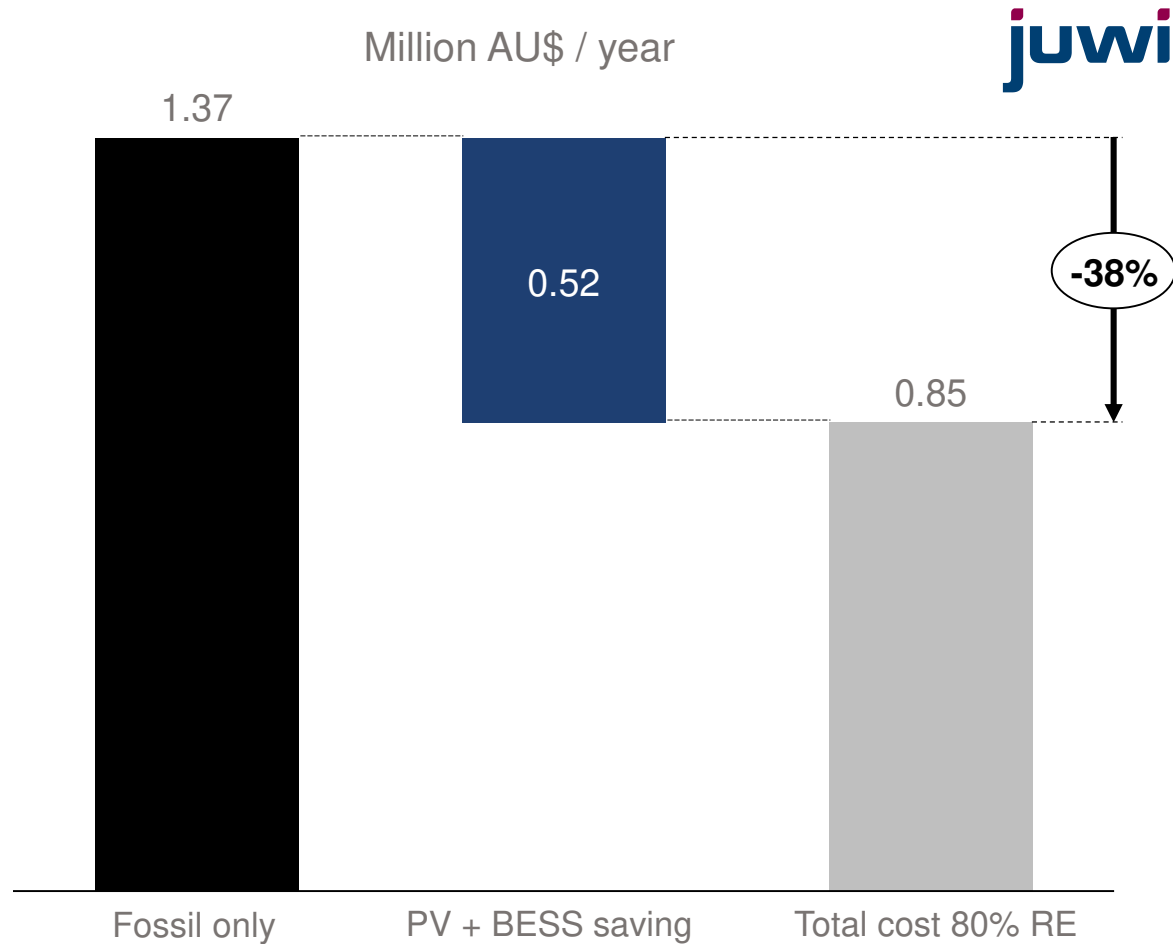


juwi



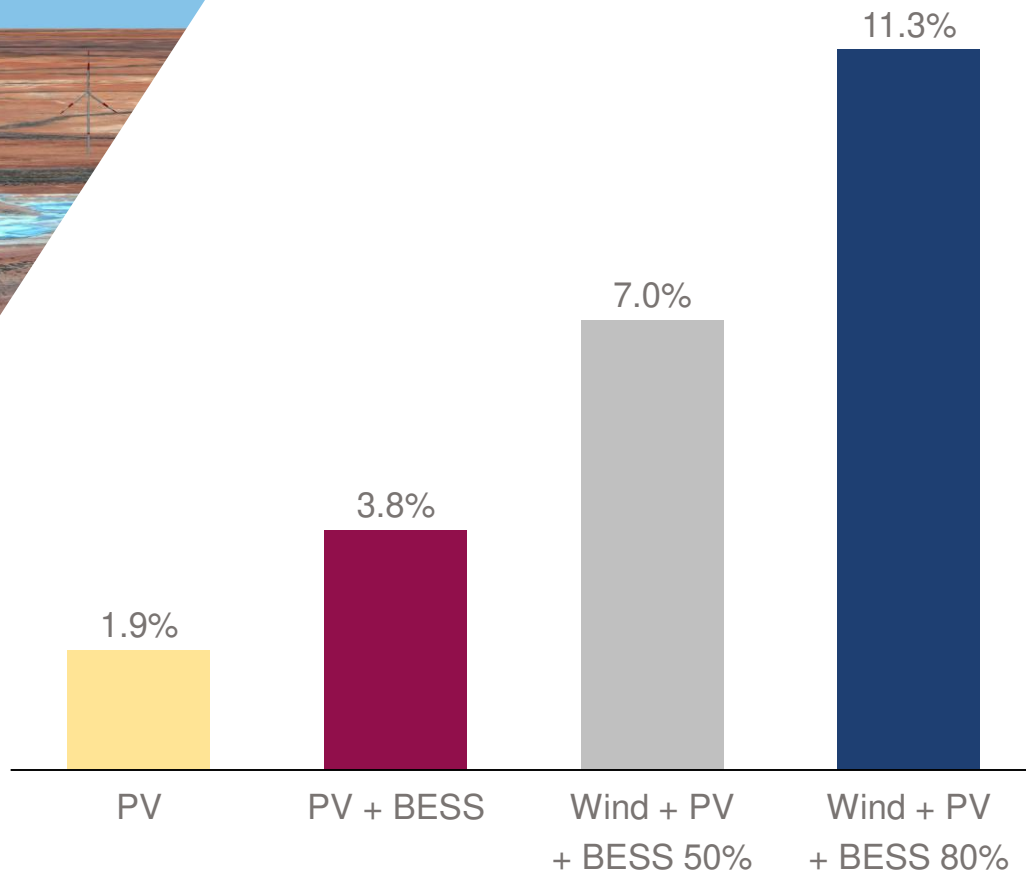






Reducing Cash operating cost

juwi



Where to use windpower?

- Life of mine >8 years
- Power demand at night or seasonal climate
- Average windspeed of ≥ 7 m/s





juwi

How can we support you?

Thank You

Amiram Roth-Deblon

Head fo Global Business Initiatives

juwi AG

roth-deblon@juwi.com

Mob. +49 174 3482 711

Fon. +49 6732 96 57-1051

www.juwi.com

Energie-Allee 1

55286 Wörrstadt / Germany

The logo for juwi, featuring the word "juwi" in a white, lowercase, sans-serif font. The letter "j" is stylized with a vertical bar that extends downwards and slightly to the left, creating a unique graphic element. The logo is positioned on a dark blue background.