

P90 and the financial value of accurate modelling

PVPMC Workshop
8-May-2024



Mark Reusser



Ken Elser



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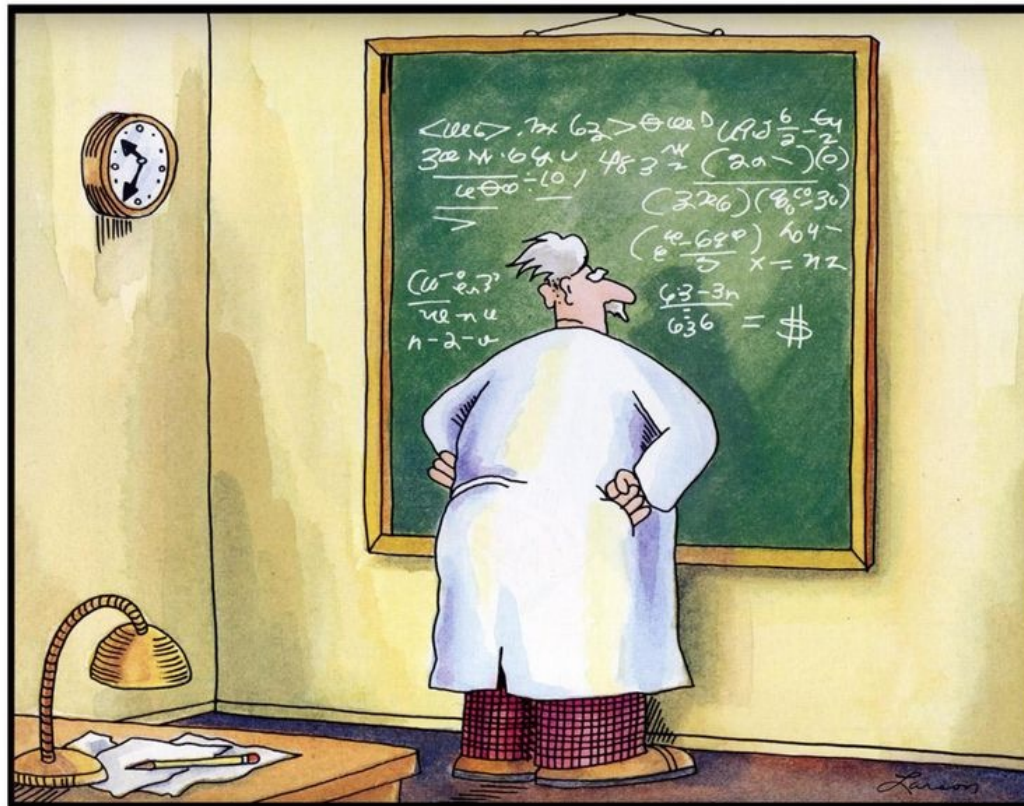


Cliff Hansen



Keith McIntosh

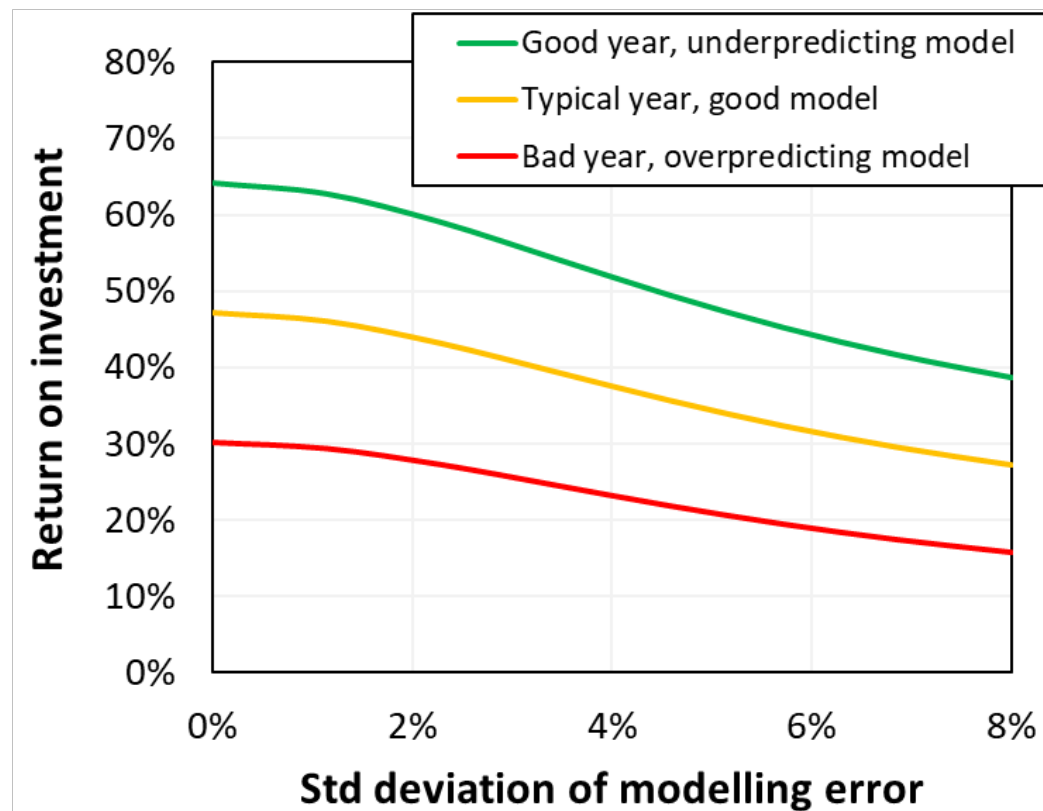
Background



Einstein discovers that ~~time~~ is money.....

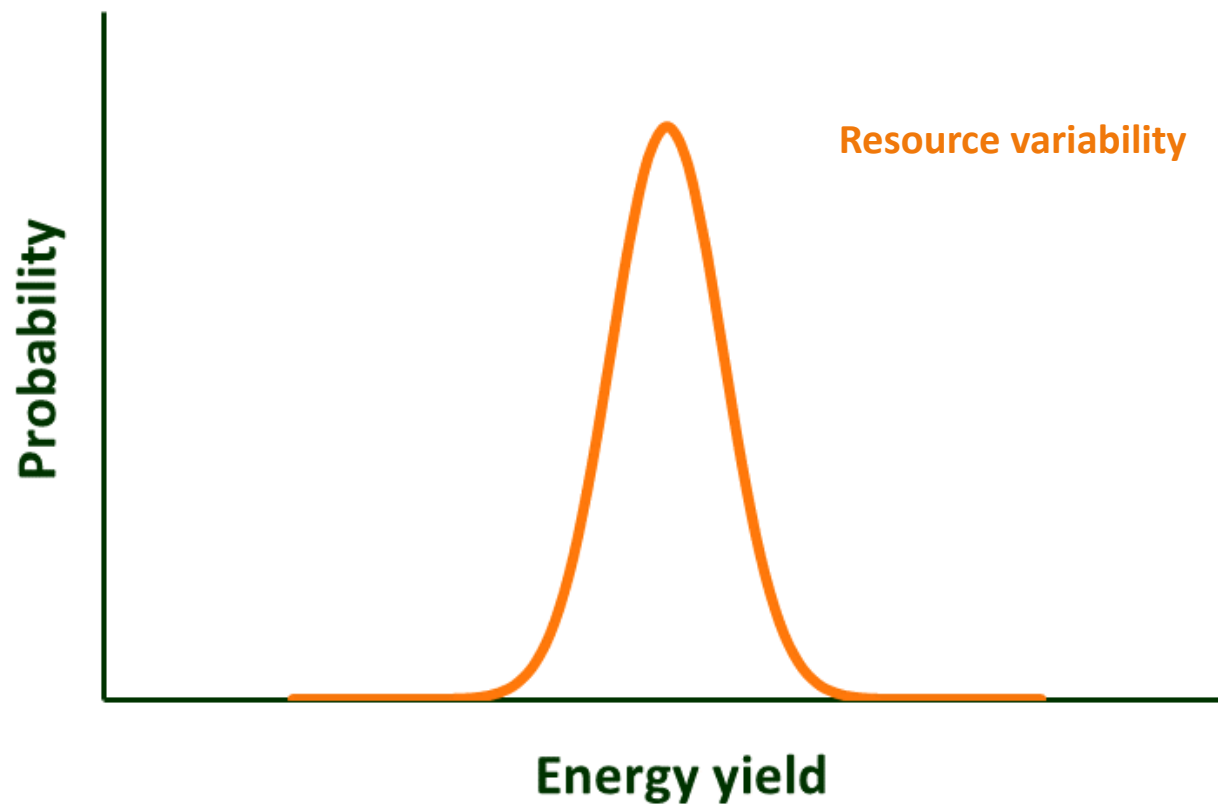
accuracy

Background

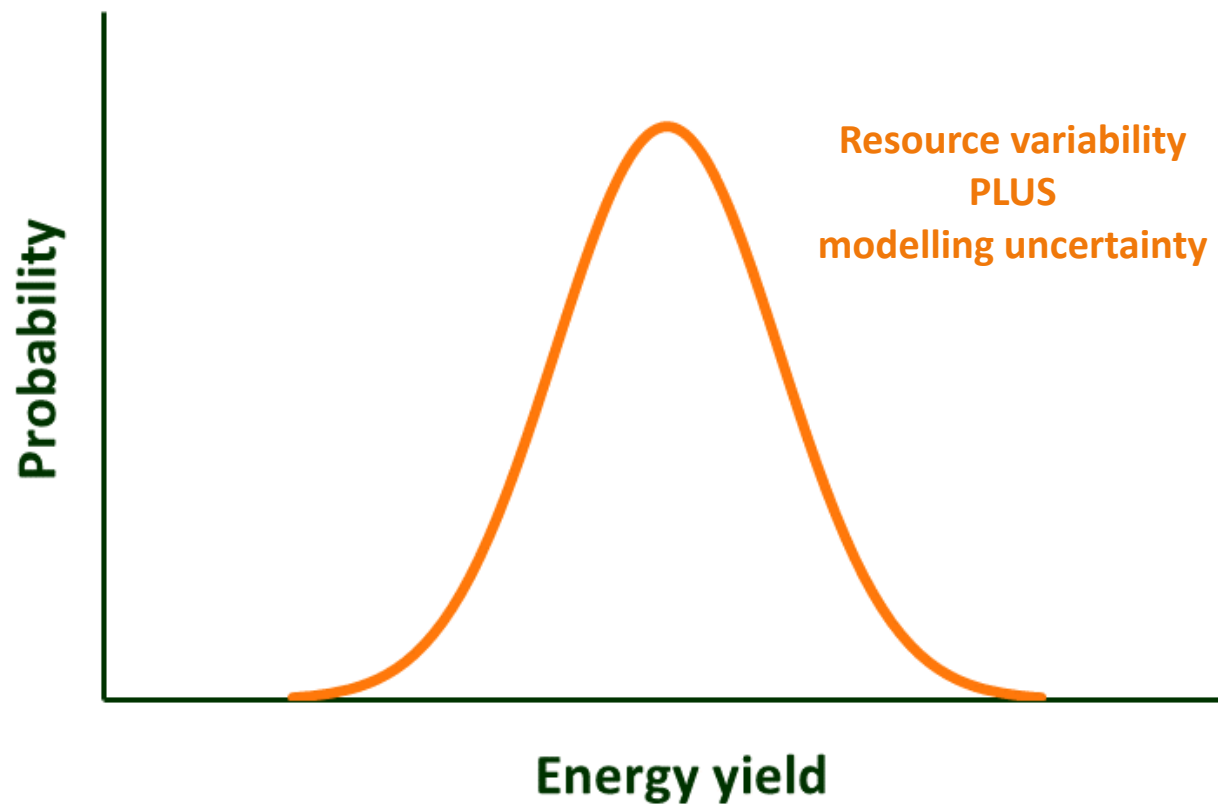


Theoretical example.
Not a real study.

Energy yield assessment

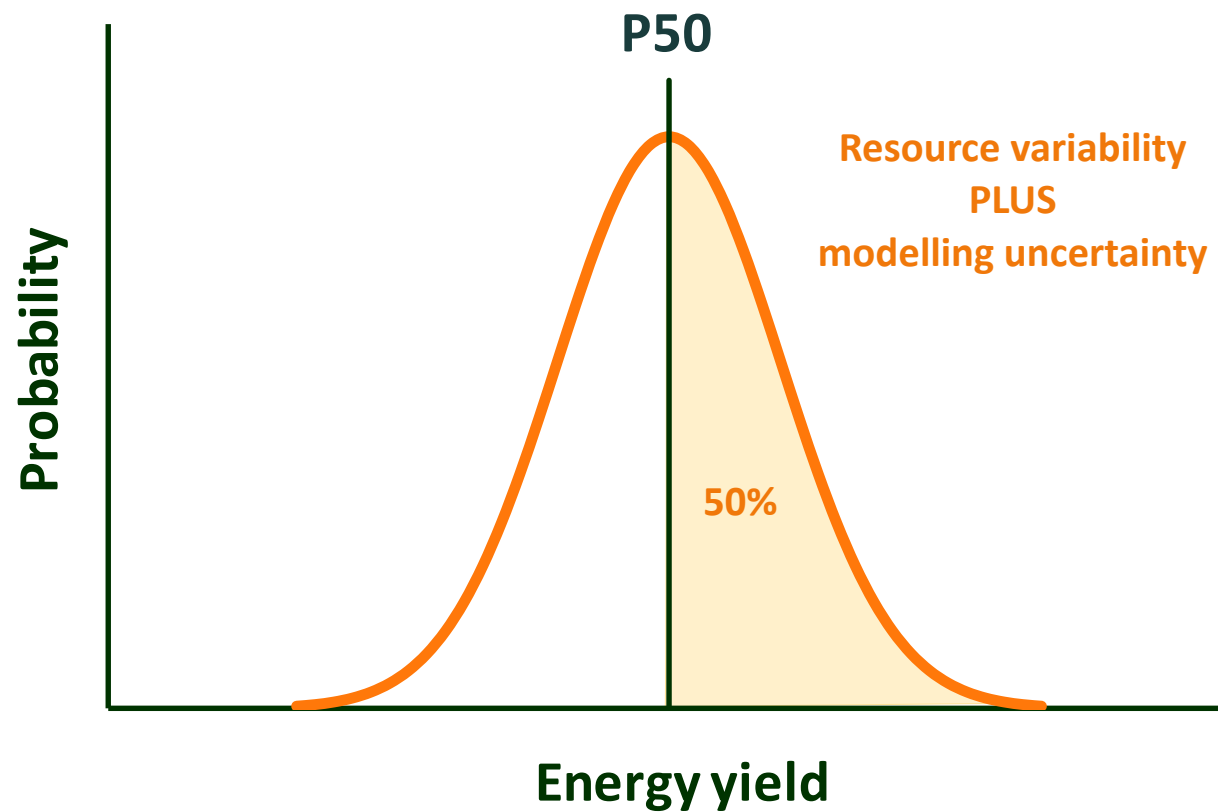


Energy yield assessment



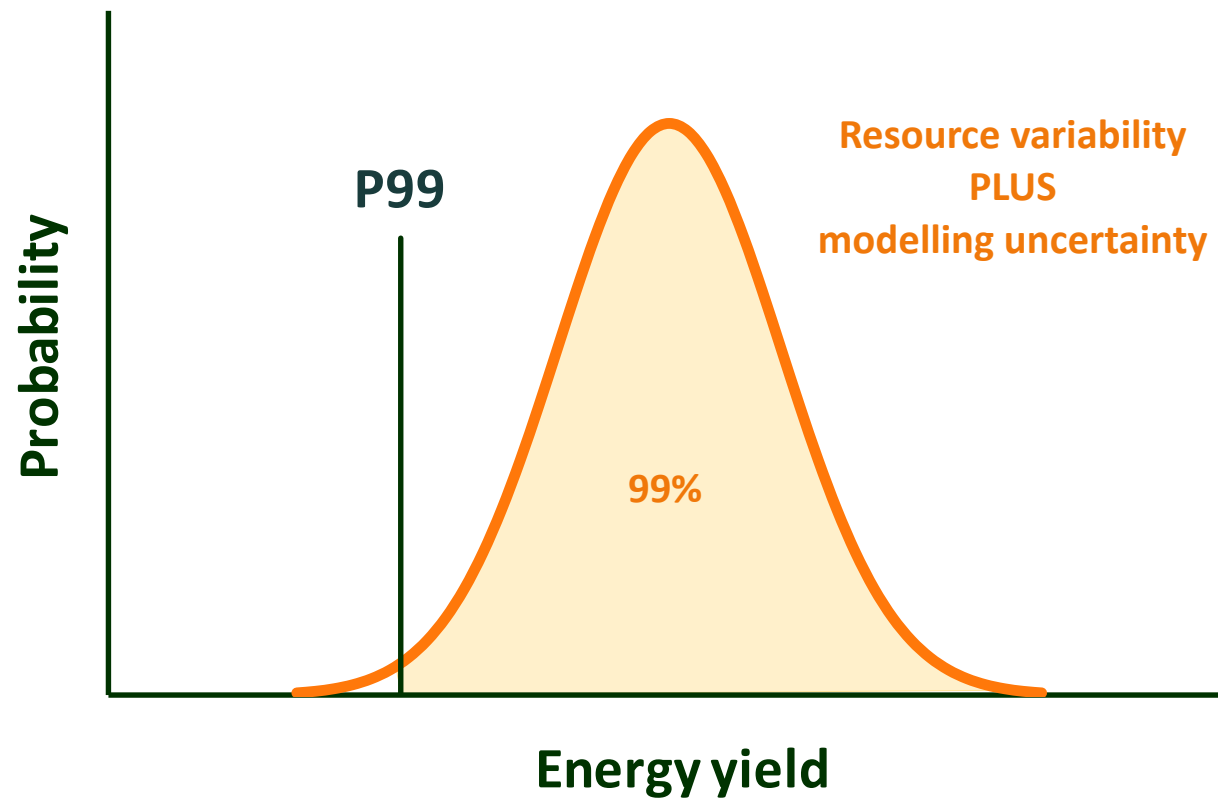
Background

The financing of solar projects depends on the best-estimate forecast, P50, and...



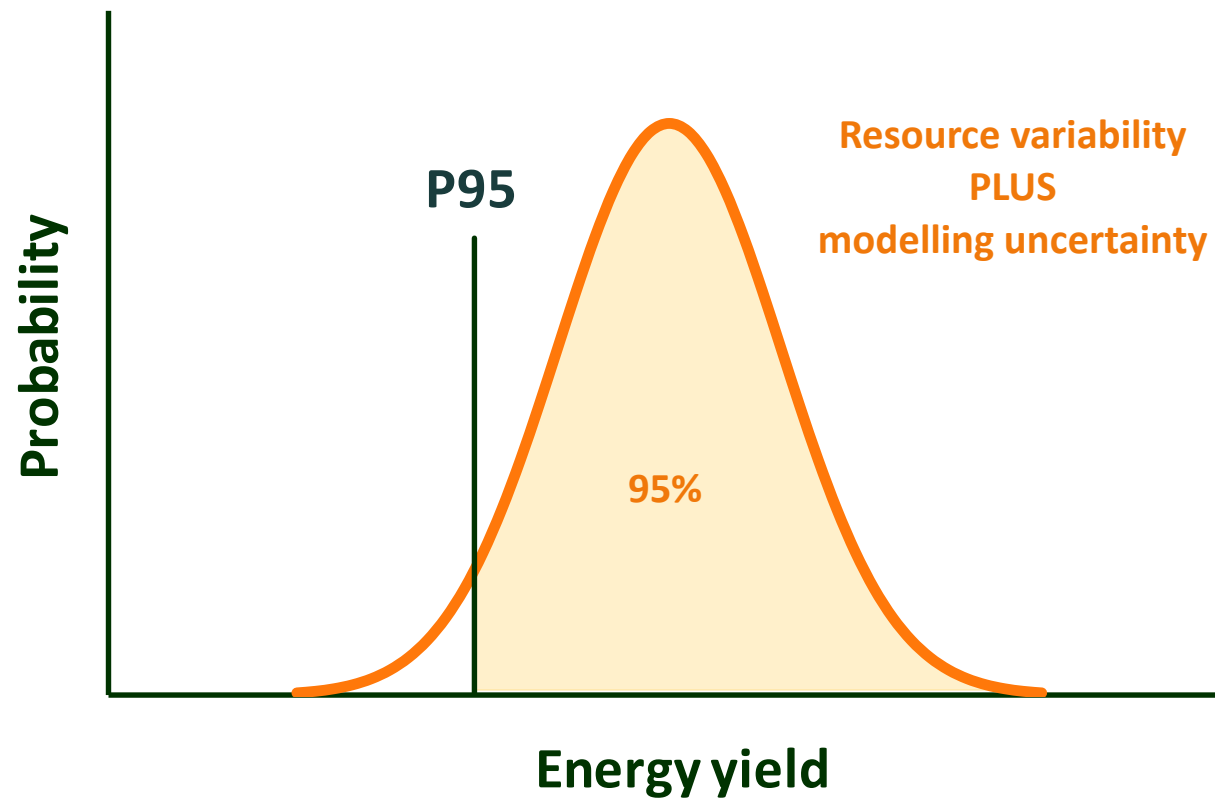
Background

... the financing of solar projects depends on 'downside' forecasts, like P99, P95 & P90.



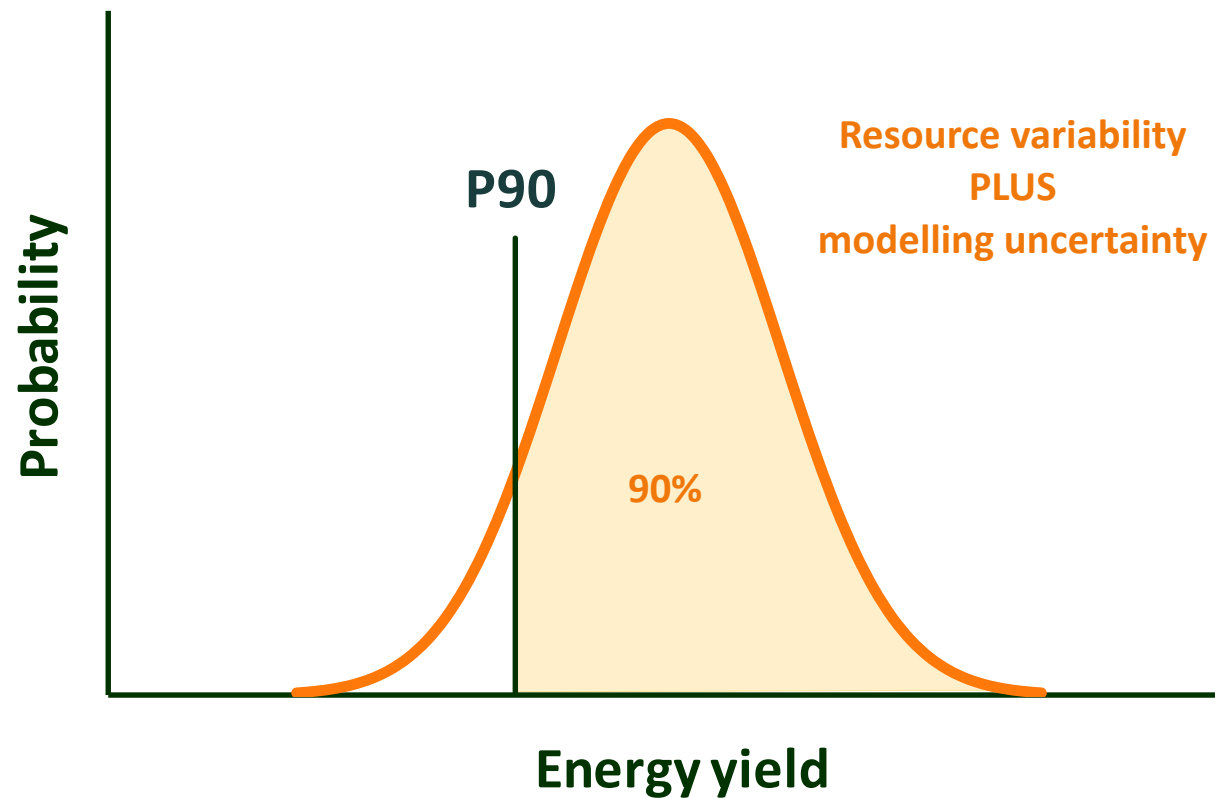
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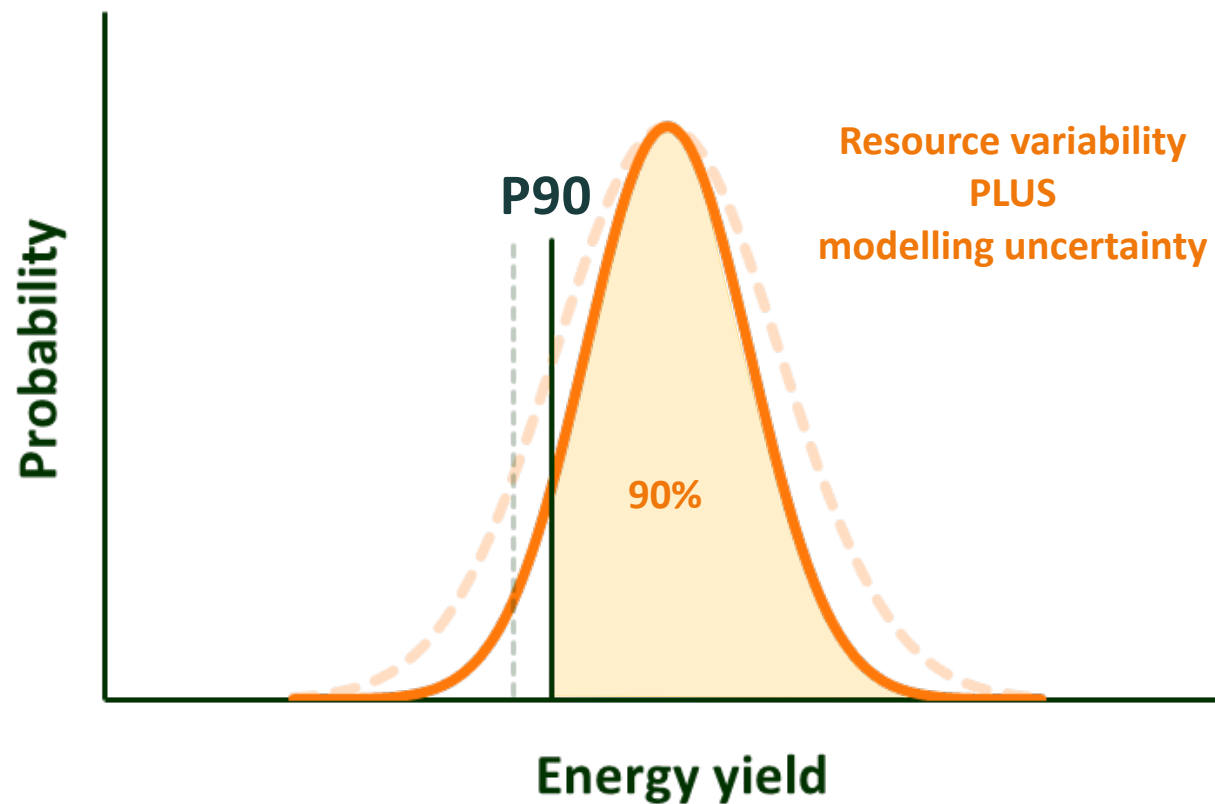
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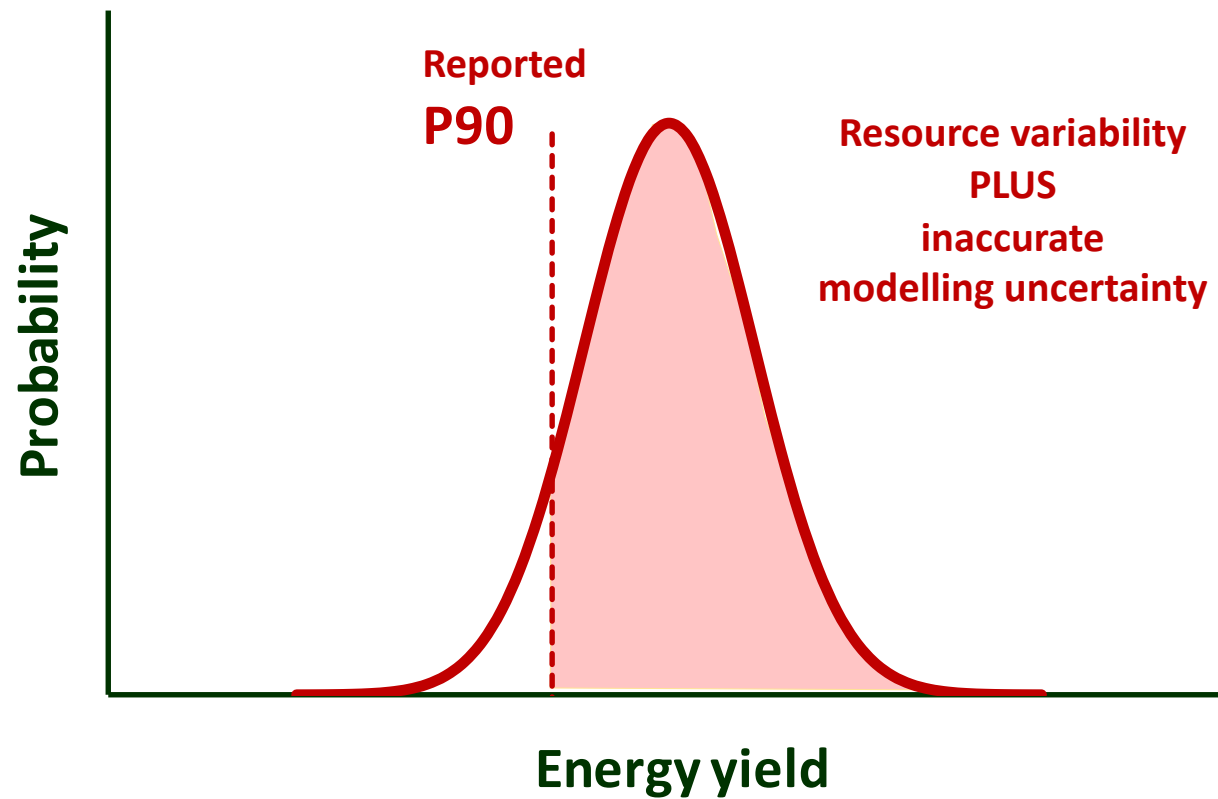


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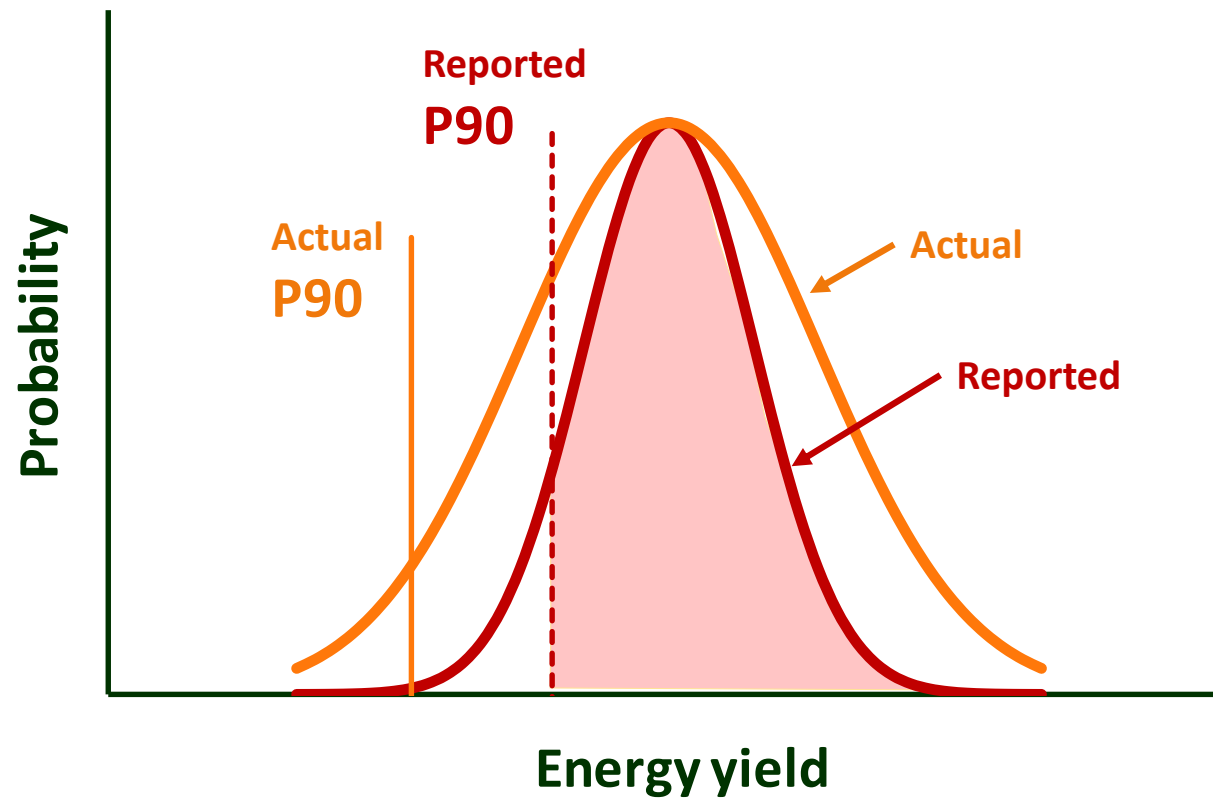
Reduce uncertainty → higher P90 → less financial risk → better terms → cheaper solar



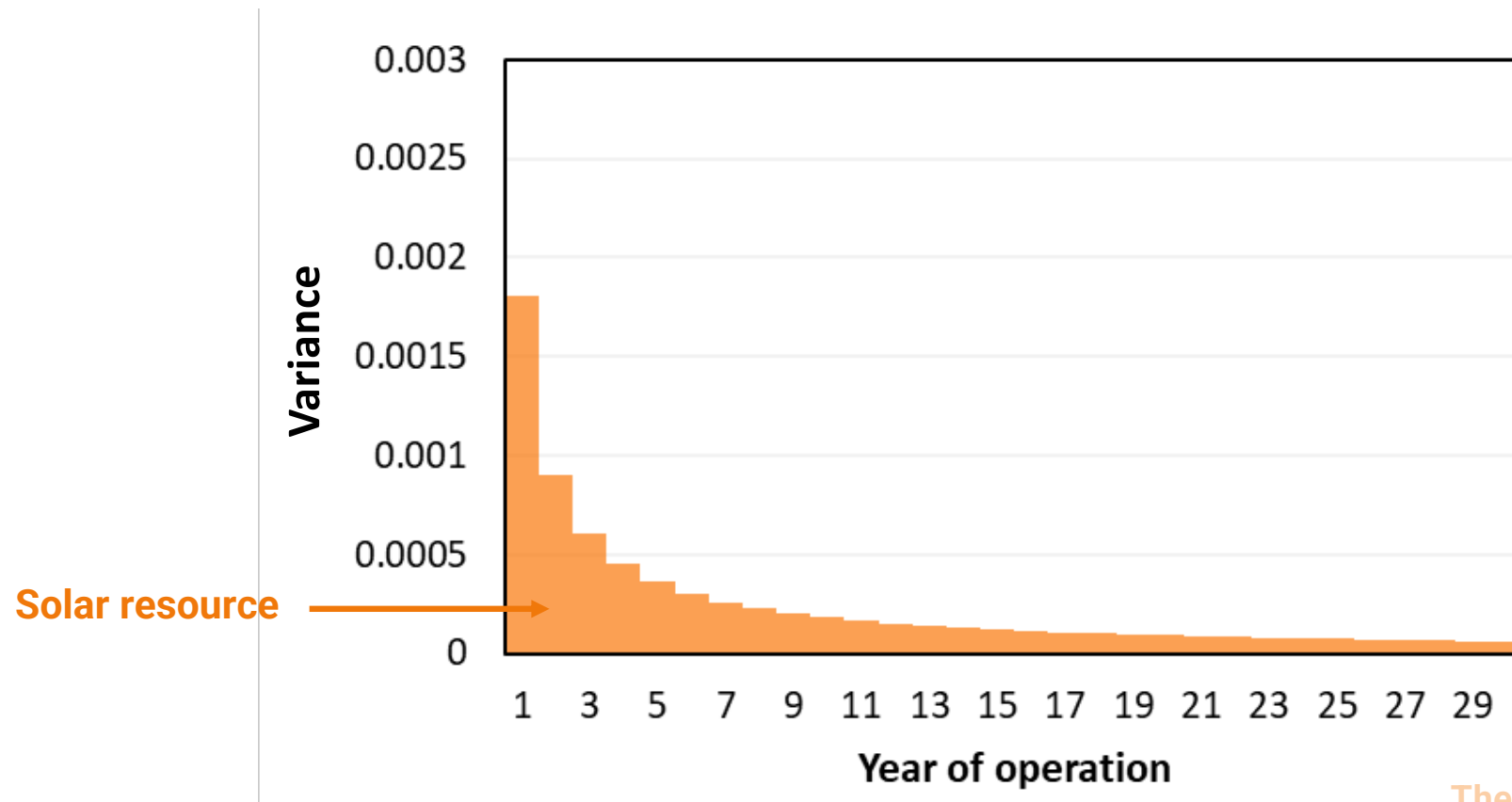
Complication 1: How to determine P90?



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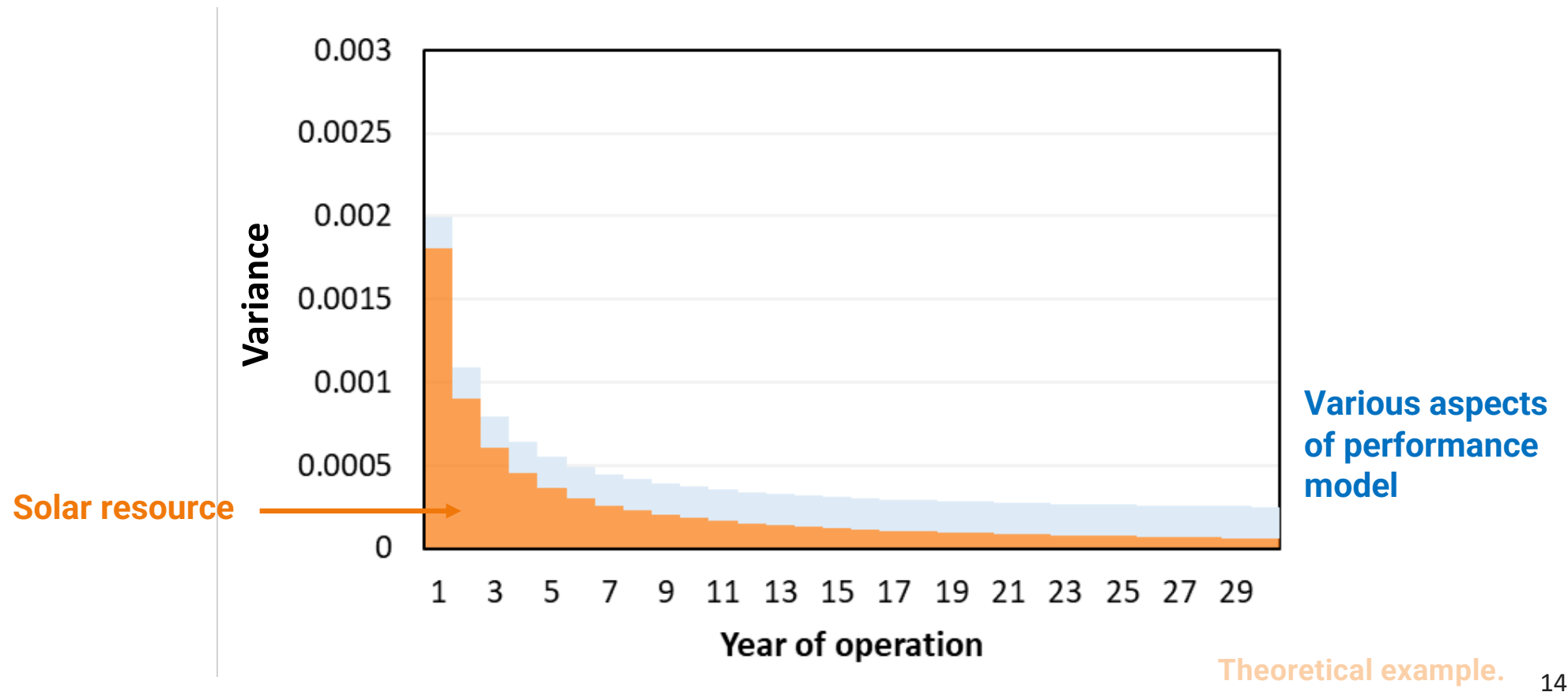


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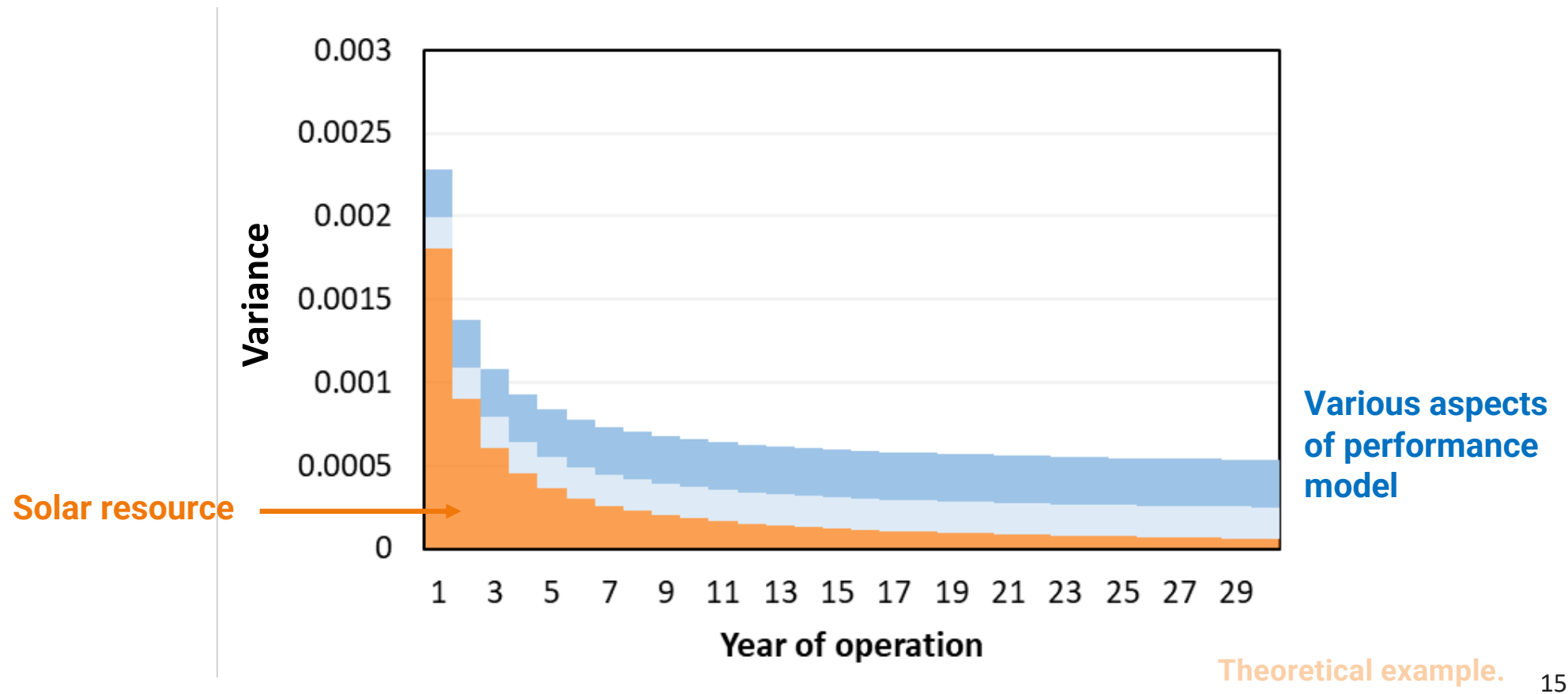


Theoretical example.

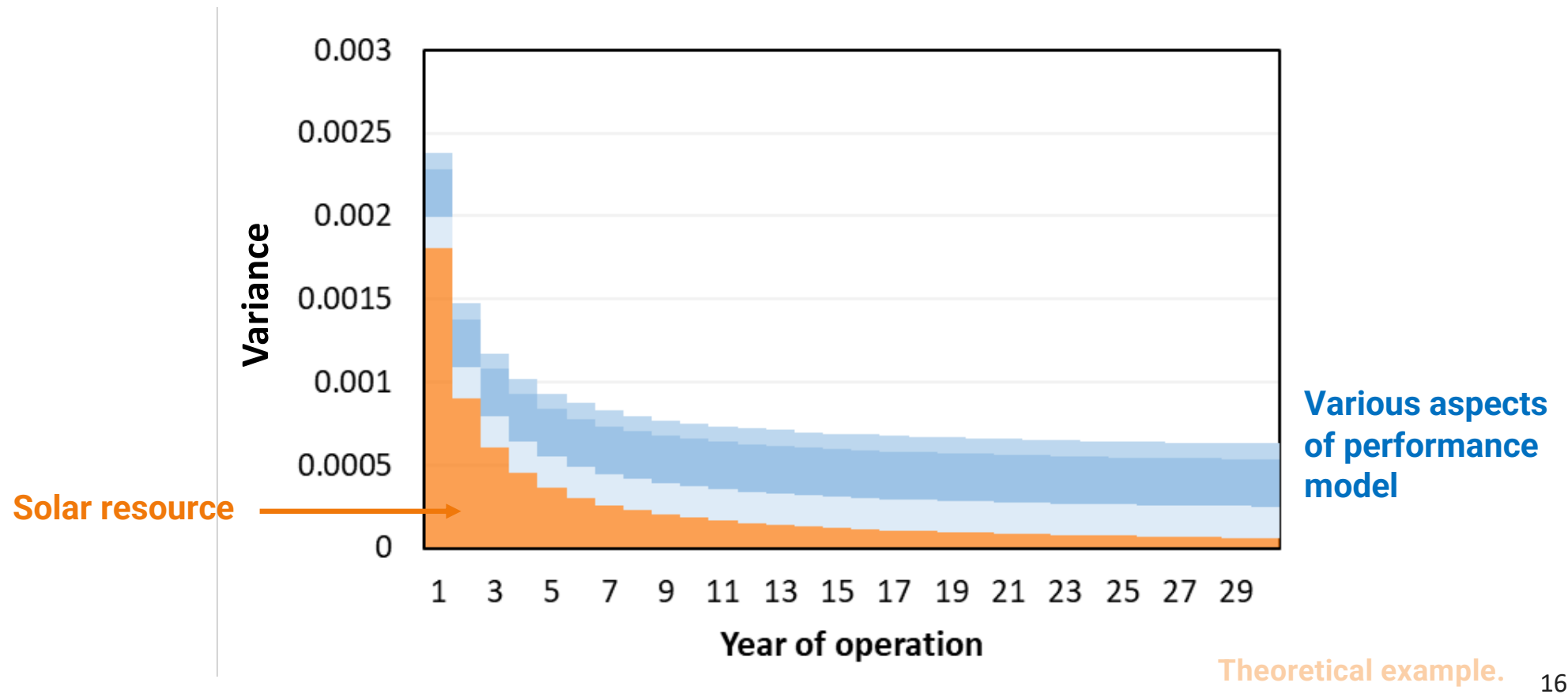
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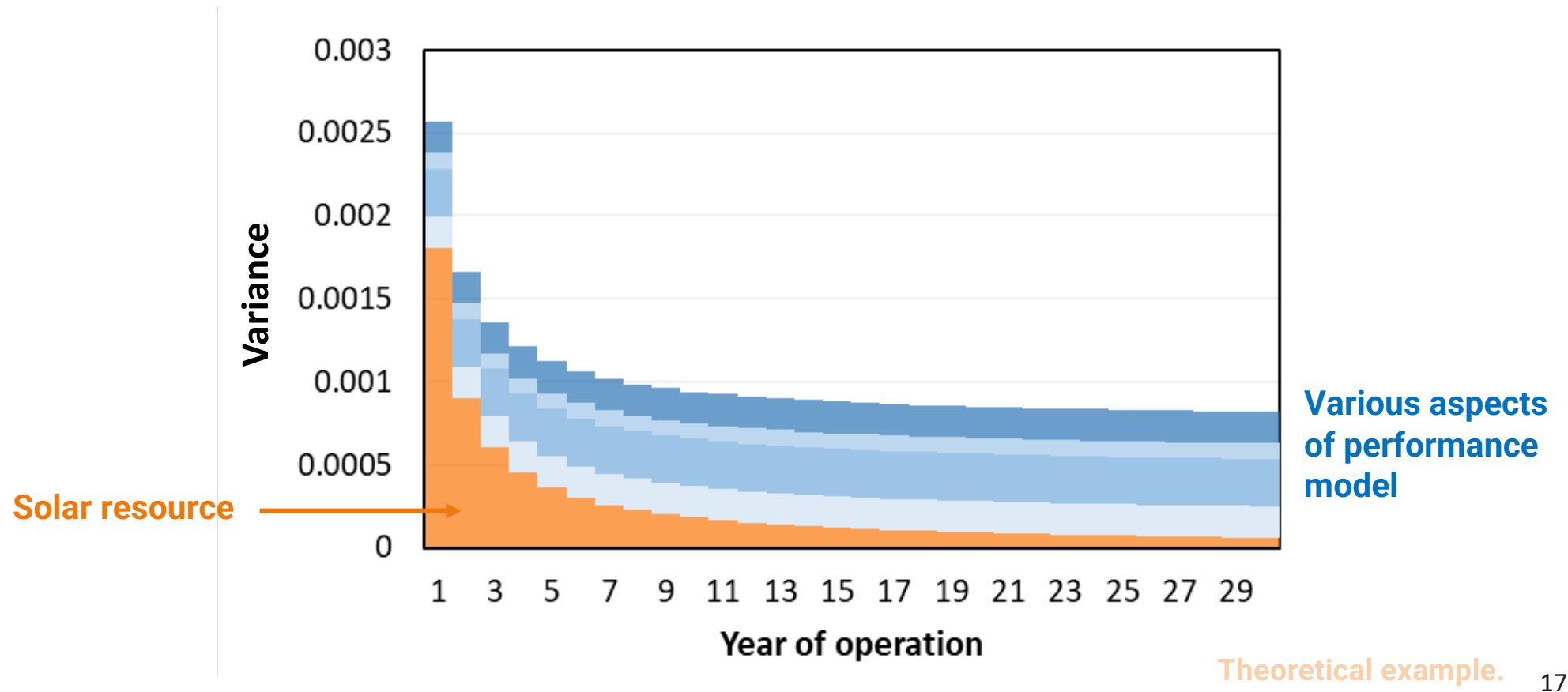
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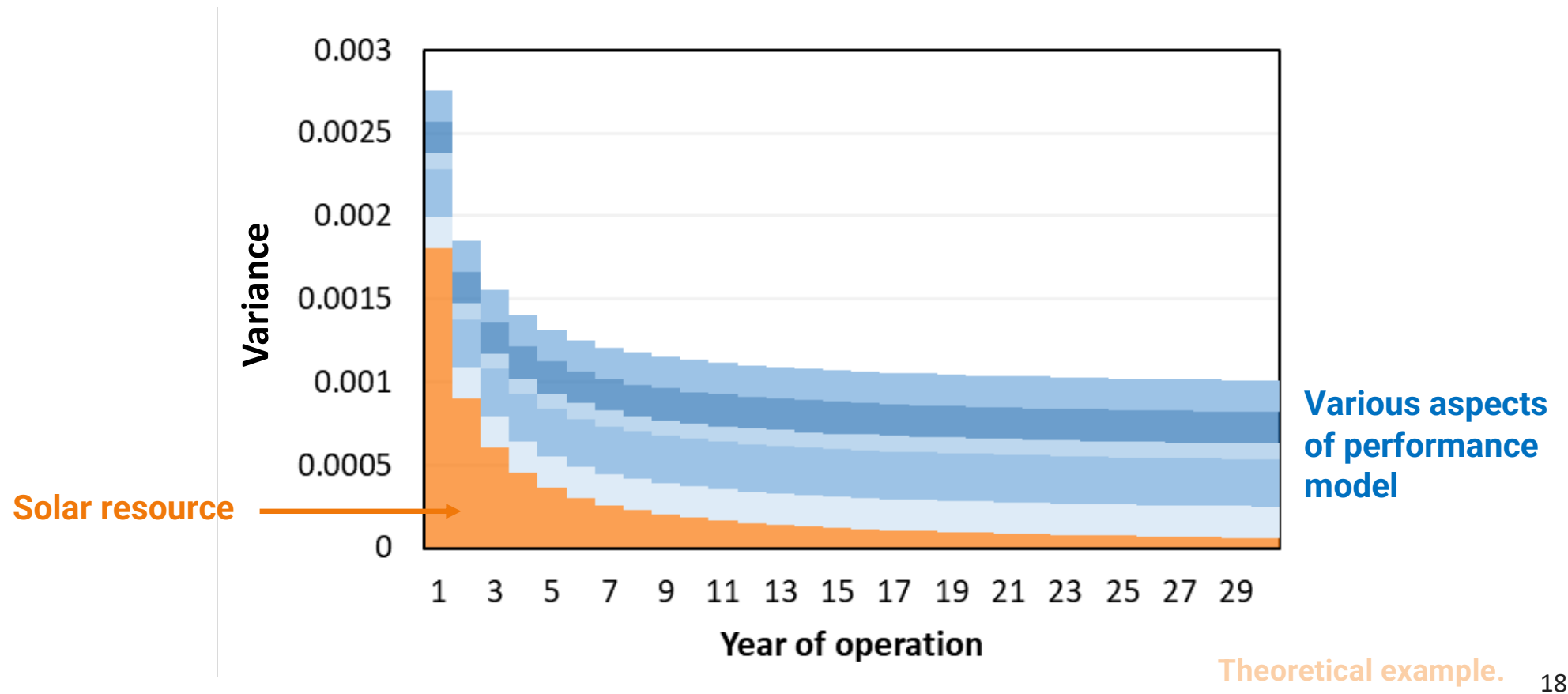
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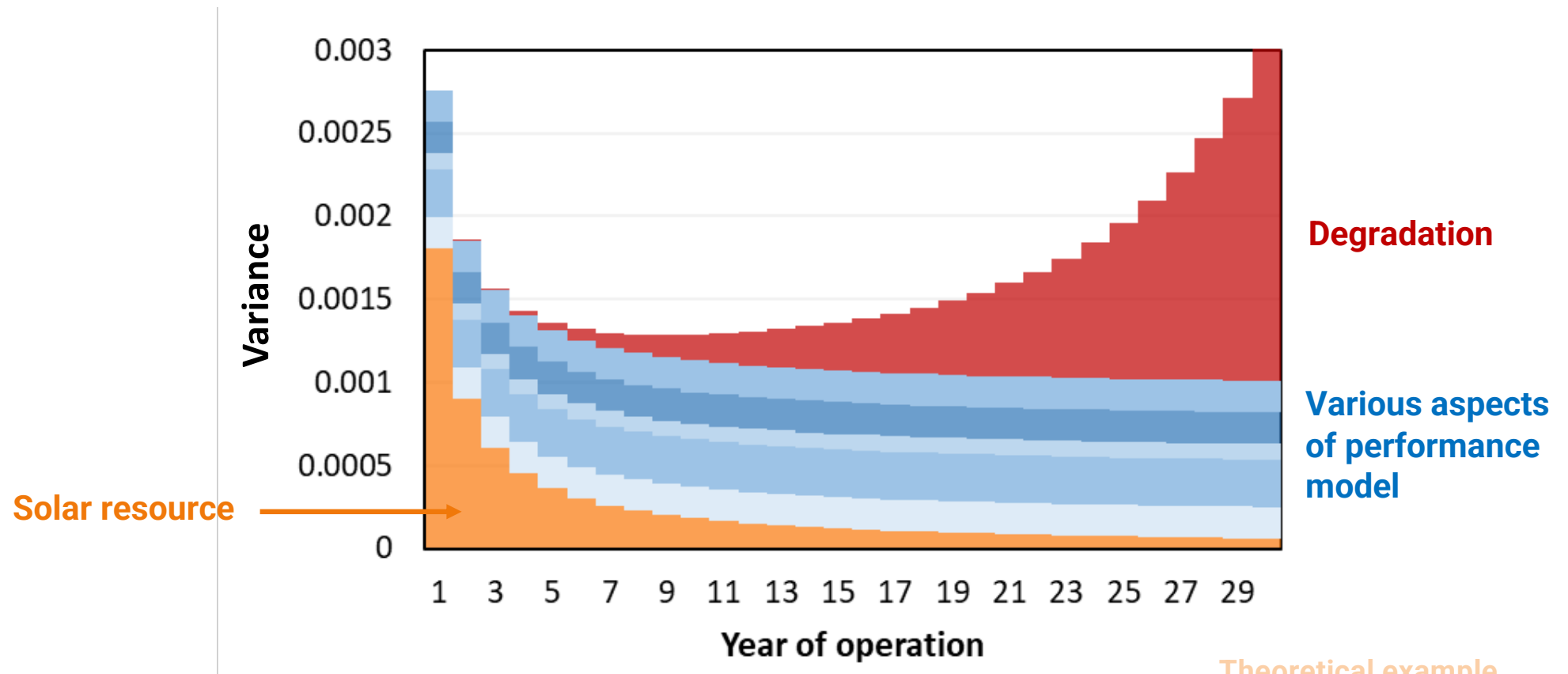
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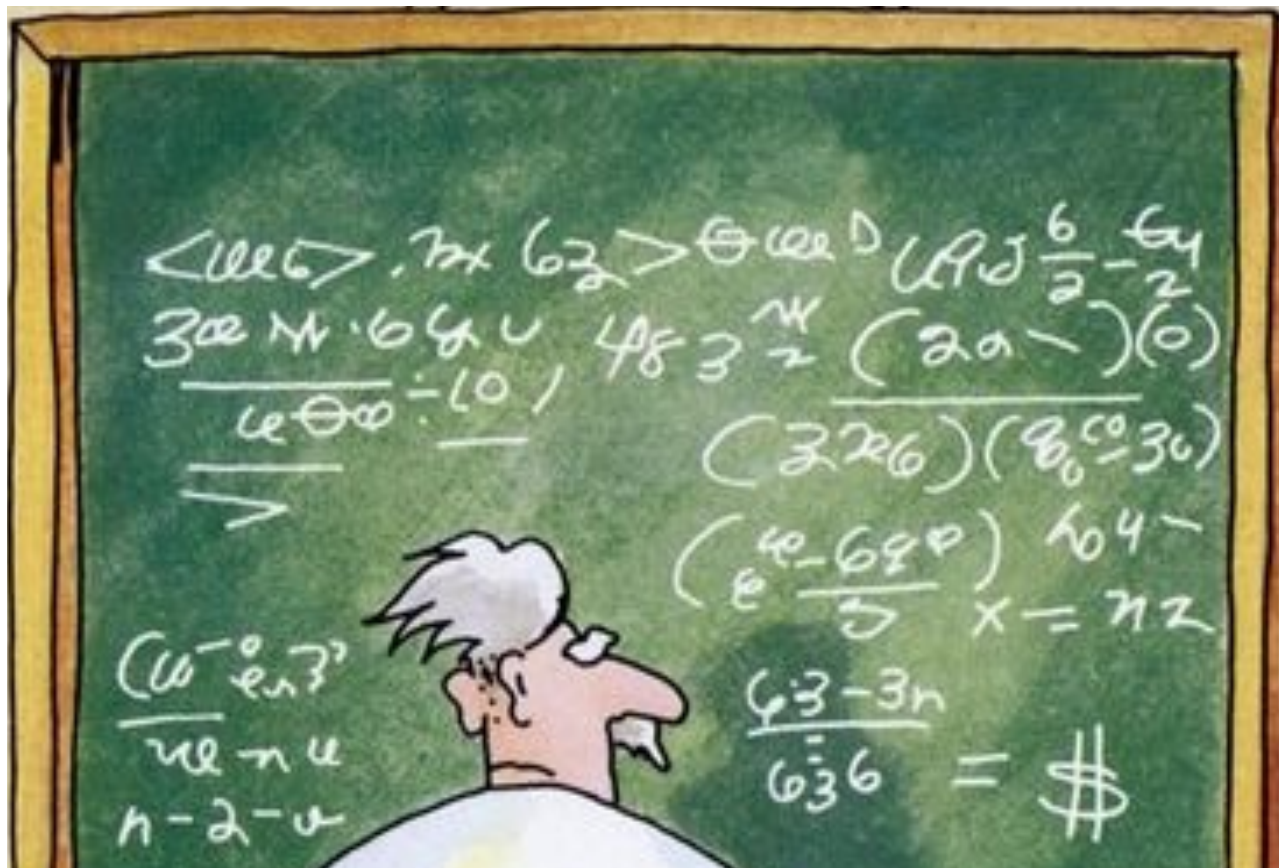


Complication 1: How to determine P90?



Theoretical example.

Complication 2: Financial link to P90

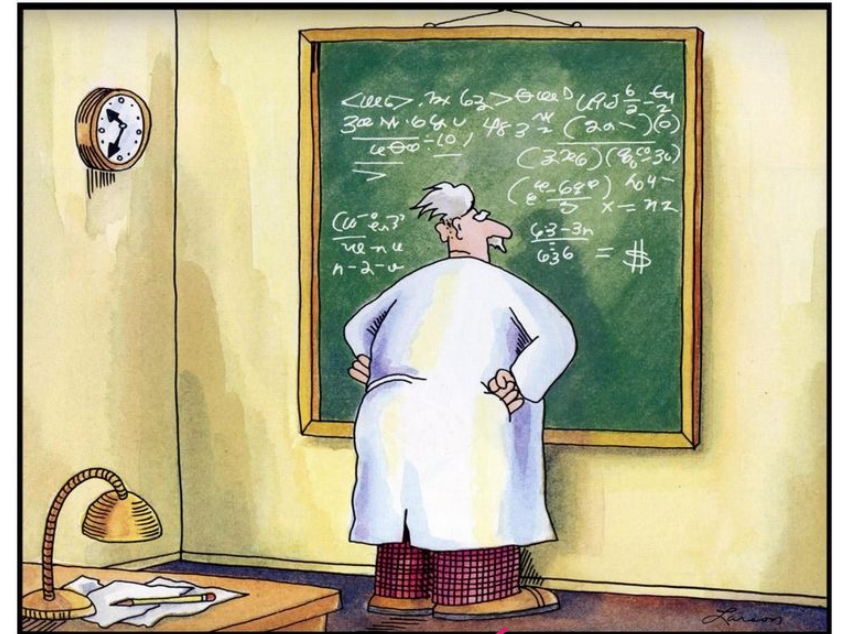


Background

- To solve Einstein's equation, we must understand two complicated things:

1) How P90 can be determined?

2) How financing depends on P90?



Einstein discovers that time is money.....

accuracy

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