

# Quartz Solar — Great Britain's Grid Operator Halves Solar Forecasting Errors with AI, Saving £30 Million a Year

AI in the Public Sector · Good practice · United Kingdom

Quality score: 73/100

Evidence strength: Descriptive / self-reported

## Summary

Great Britain's grid operator NESO deployed Quartz Solar, an AI forecasting tool built with non-profit Open Climate Fix. It halved solar-forecast errors, saving at least £30m a year in balancing costs, with up to £150m projected by 2035.

## Key dimensions

| Dimension                                  | Score |
|--------------------------------------------|-------|
| Evidence of impact / measured public value | 2/3   |
| Transparency, fairness & accountability    | 2/3   |
| Transferability / demonstrated replication | 2/3   |
| Scalability beyond pilot                   | 3/3   |
| Governance, capability & sustainability    | 2/3   |

Evaluated by C-NAPSE

## Data sources

[C-NAPSE web research](#) — accessed 2026-08-29

[National Energy System Operator \(NESO\), with Open Climate Fix](#) — accessed 2026-08-29

[NESO — How solar is providing secure, clean and affordable energy to Great Britain](#) — accessed 2026-08-29

[pv magazine — AI powered solar forecasting helps UK grid operator reduce balancing costs](#) — accessed 2026-08-29

[Open Climate Fix — NESO Case Study: Halving Solar Forecast Errors with AI](#) — accessed 2026-08-29

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