www.galebreaker.com

Power Station Performance Case Studies

Coryton Case Study (750MW 8x5) - 2005:

- Average 5mbar vacuum improvement
  (based on average wind speeds of 3.6m/s)
- Estimated an additional output of £100K per year.
  (based on electricity prices at the time, and running at full load for 60% of the time).
- Payback was less than 18 months.
- Noticeable reduction in maintenance issues.

Source:
Rob Bailey – Coryton Power Station Operations Manager
Simon Melhuish (I.Eng., M.I.Agr.E., M.I.I.E.) – Galebreaker Operations Director

Kings Lynn Case Study (340MW 4x4) - 2006:

- Average 6mbar vacuum improvement.
  (based on average wind speeds of 4.3m/s)
- Noted additional benefits and savings due to less wear and tear on the ACC fan units particularly motors and gearboxes.

Source:
Edmund Wiglusz – Kings Lynn Mechanical Performance Engineer
Simon Melhuish (I.Eng., M.I.Agr.E., M.I.I.E.) – Galebreaker Operations Director

Data Criteria:

Date range:- 6-12 months

Date and time
Ambient temperature
Ambient pressure
Wind speed
Wind direction
Plant load
ACC vacuum
GTA firing temperature
GTB firing temperature