

League Table Programs

EVS working with Heathrow Airport





Heathrow Airport – Building a new Fly Quiet and Green Program

- Prior to Covid, Heathrow published a quarterly league table showing a red/amber/green rating for seven noise and emissions criteria. That program has been paused since Q4 2019.
- Heathrow has now asked EVS to assist them in developing and producing a revised Fly Quiet and Green program.
- Over the past 18 months, we have been working together to develop a program, and build a repeating methodology that ensures the timely production of the league table.



Metric 1:
Chapter number (noise certification):
50% weighting

Metric 2:
Quota Count (QC) / seat / movement:
50% weighting

Strategic emissions metrics

Metric 1:
CAEP standard (engine emissions certification)*:
50% weighting

Metric 2:
NOx / seat / movement:
50% weighting

Operational metrics

Metric 1:
Continuous Descent Approach (CDA) violations:
150% weighting

Metric 2:
Track keeping:
150% weighting

Metric 3:
‘Late or early movement’:
60% weighting

Operational metrics revolve around how the aircraft are flown; it is also an area the airlines have generally more control over in terms of daily operations than the strategic metrics, which depend largely on long-term fleet planning. The higher weightings associated with the operational metrics therefore reflect the airlines’ ability to change their behaviour and improve their performance in the shorter term.

The lower weighting for the “late or early movement” is present to reduce the penalty for those airlines that are scheduled to operate their flights nearer to the Night Quota period start time of 23:30, which in turn presents higher likelihood of incurring a violation in this metric.

Q4 2019

Airline

Score

1.	Scandinavia Airlines System	954	^
		Position	
1.	Noise quota count/seat	3	
2.	Chapter number (noise certification)	12	
3.	NOx emissions/seat	5	
4.	CAEP standard (engine emissions certification)	10	
5.	Continuous Descent Approach (CDA) violations	10	
6.	Track keeping (TK) violations	10	
7.	Early or late movements between 23:30 and 04:30	1	
2.	Air Malta	934	v
3.	Oman Air	900	v
4.	Aer Lingus	896	v
5.	British Airways - short haul	889	v

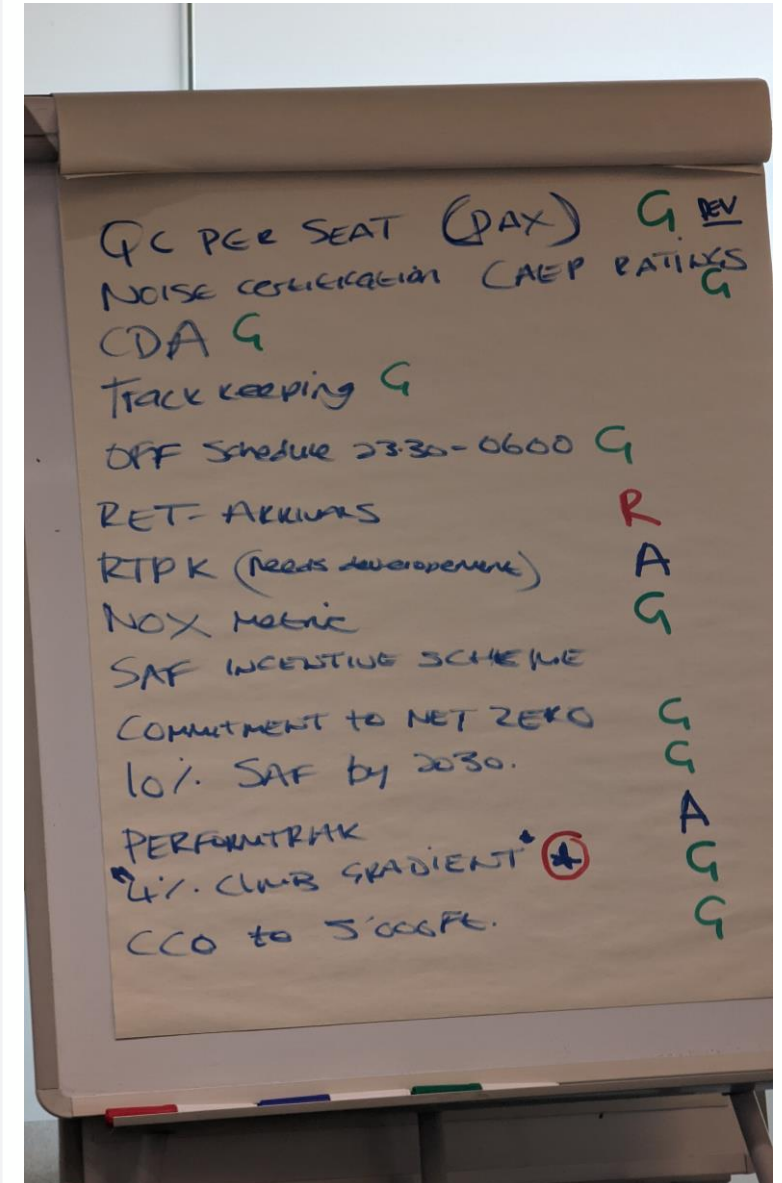
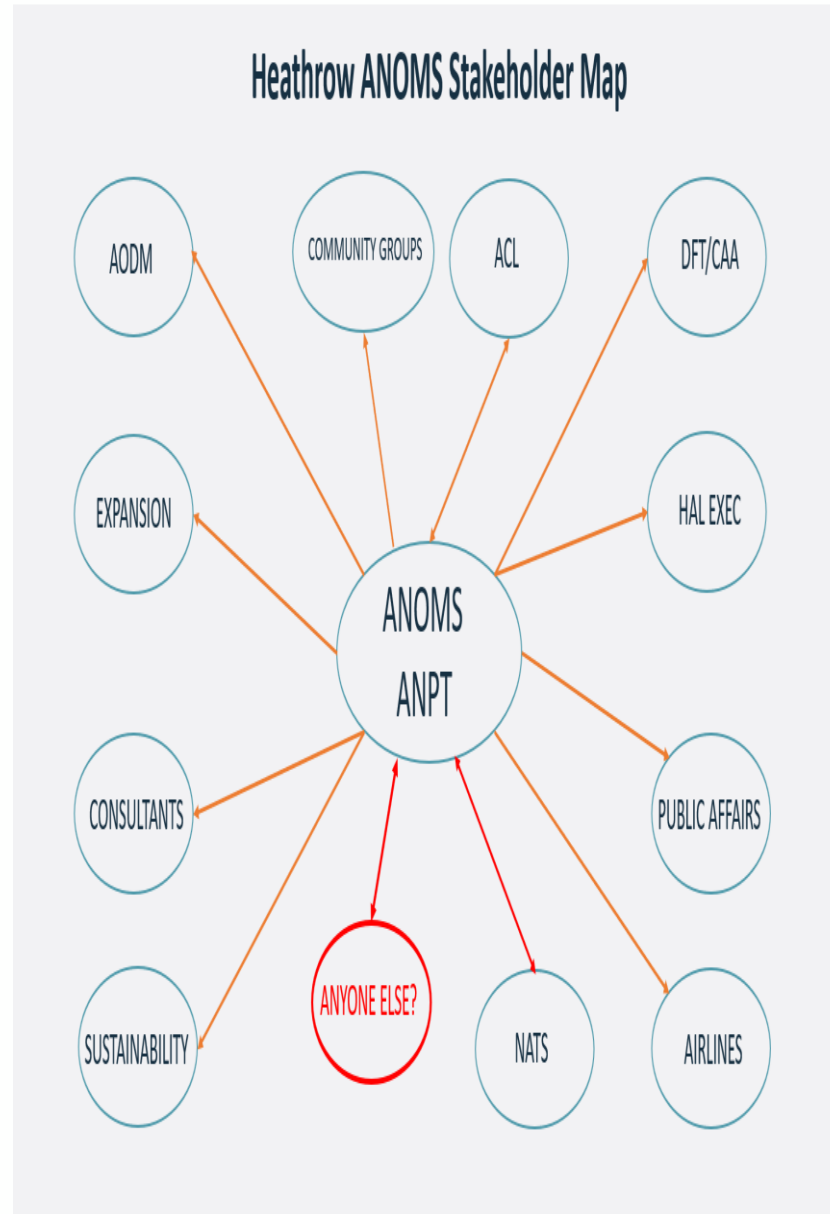


Fly Quiet and Green 2.0 Metrics review - Principles

- **The new program must not increase the workload of the ANPT/emissions teams beyond communicating with Public Affairs for the press release.**
- **All metrics must be applicable to all aircraft types operating at Heathrow.**
- Metrics should be a mix of operational and certification KPI's.
- **Airlines should have easy access to the data to enable decisions to be taken to improve ranking e.g. EVS Airline Compliance module for noise performance metrics.**
- A 'manageable' number of metrics.
- Ideally a balance of arrivals and departures.
- **A time-based metric to help drive performance in the Night/Night Quota periods.**
- Quarterly league table.
- The data will be in sources that the ANPT/ Emissions Teams are responsible for and EVS have access to.
- Data for the league table will be groomed each working day by the Heathrow Noise and Airspace team.

Fly Quiet and Green Metrics - Workshops

- Creating a revised scoring mechanism.
- Several iterations trying different metrics.
- Different weightings for metrics.
- Heathrow consulted with numerous airlines at face-to-face events and took onboard any feedback.
- Final revisions.





Fly Quiet and Green League Table Production

■ Data checks.

- Heathrow informs EVS that the quarters data is complete, has been checked and is available for extraction. All data sources need to be validated for accuracy before they can be used in the league table.

■ Draft table

- EVS will produce the league table within 15 working days of the end of the reporting period, subject to the above data checks.

■ Comms

- EVS will visit Heathrow and provide a list of “**movers and shakers**” and reasons for any change in position =>8 places

■ Airline engagement

- Heathrow must have the tools available to minimise any increase in workload in the ANATM/Emissions teams.

League Table Production

■ 1st league table

■ Lots of red so opportunities for improvement. Acceptable performance levels have been revised

■ Launch date tbc





Fly Quiet and Green – A Heathrow Perspective

