



Destination Green

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IFSET ICAO FUEL SAVINGS ESTIMATION TOOL

Sainarayan A

Environment Officer, ENV Branch/ATB,
ICAO



OVERVIEW



- KPA
- ASSEMBLY RESOLUTION
- OPERATIONAL IMPROVEMENTS
- IFSET
- SUMMARY



KPA



- ENVIRONMENT

The air navigation system should contribute to the protection of the environment by considering noise and **emissions** in the implementation and operation of the global air navigation system.



Assembly Resolution



■ A37-19

Resolves:

- to achieve a global annual average fuel efficiency improvement of 2 per cent until 2020.
- and an aspirational global fuel efficiency improvement rate of 2 per cent per annum from 2021 to 2050.



Assembly Resolution



- **A37-19 Requests ICAO to:**
 - **develop the necessary tools to assess the benefits associated with ATM improvements.**



OPERATIONAL IMPROVEMENTS



- **PBN**
- **CDO/CCO**
- **RVSM**
- **FUA**
- **ETC.**



IFSET



- **ICAO FUEL SAVINGS ESTIMATION TOOL**
 - Simple to use and scientific defensible
 - Reviewed and Validated by CAEP
- States will begin reporting on fuel savings from operational improvements and use it for their action plans.
- Not all States have the ability to quantify these savings.



IFSET – WHAT IT DOES



- Allows those States without modelling and/or measurement capabilities to estimate fuel savings from operational improvements.
- Consistent with CAEP-approved GHG models.
- Consistent with Global Air Navigation Plan.
- Easy-to-use / minimal data requirements.



IFSET – WHAT IT DOES NOT



- **The tool does not replace detailed modelling or measurement of fuel consumption already available in a State.**

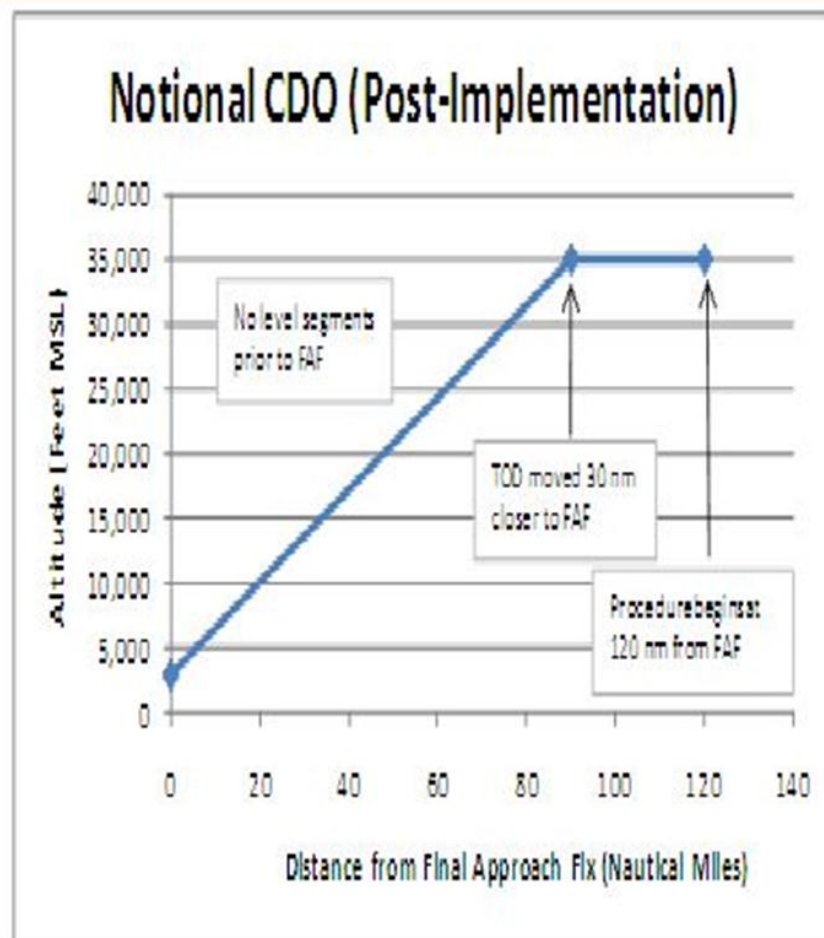
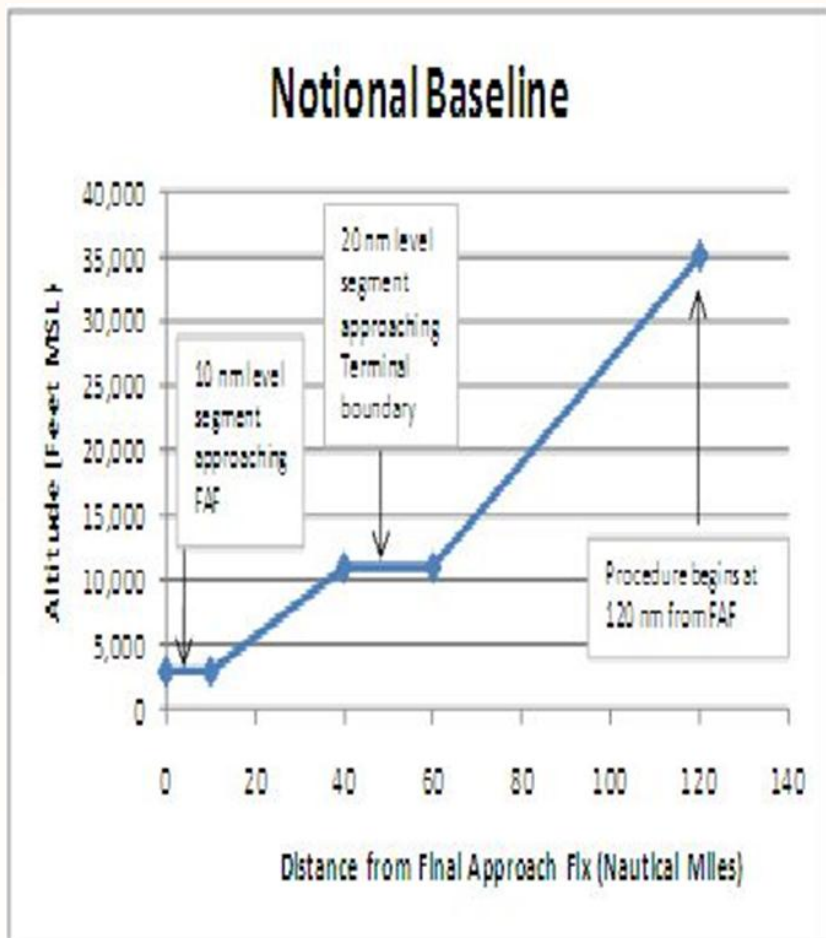


IFSET – HOW IT WORKS – USER INPUT



- Fleet mix defined for baseline and post-implementation scenario
 - Aircraft type group
 - “Remaining flight distance”(as a surrogate for weight)
- User selects “elements” to define the baseline and “new” procedure
- Tool estimates the change in total fuel consumption between the 2 scenarios

IFSET – example





- **IFSET LIVE EXAMPLE**



SUMMARY



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