

Data Management: the Benefits for DCA Brunei and other Stakeholders in the MRV Era. Progress Already Achieved by DCA Brunei

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Introduction

- Environmental Data management:
why is it crucial?
- Benefits of this approach
- MRV and database management
- Progress already achieved by DCA
Brunei under CORSIA MRV

Environmental Data management: why is it crucial?



- “Environmental data needs to be monitored and reported...no matter if we are dealing with UNFCCC and/or ICAO system...so data management will ease the work and will guarantee accuracy of data”
- “Environmental data management supports in understanding the character and the extent of each problem and better evaluate the options, so the most effective solutions can be identified”

Environmental Data management: why is it crucial?



- “Mitigation measures to reduce emissions need to be based on indicators to be monitoring during the years, in order to produce the expected results...so data management will ease the work and will guarantee to understand if a mitigation measure is really producing the expected outcomes or not”

Environmental Data management: why is it crucial?



- “Environmental data management can strengthen the cooperation between the different stakeholders, analysing information in formats”
- “Environmental data management can reduce human mistakes as based on “a model” capable of detecting possible errors within a fixed threshold”

Benefits of this approach



Benefits of this approach

- It guarantees that data is correct and avoid overlapping and/or duplication of data
- It guarantees to storage historical data from different parties that needs to be consolidated and/or reported to different bodies by the different decision makers
- It guarantees to generate reports with harmonized data to be shared and reported to the different environmental competent entities (e.g. UNFCCC and ICAO)
- It guarantees automatic detection of mistakes, calculation and revision as per parameters and threshold included in the model

MRV and database management

- MRV as the tool capable of tracking the progress towards climate change related targets and design/ modulate mitigation actions to reach the forecasted targets (i.e. NDC targets for UNFCCC and expected results for State Action Plan under ICAO)
- All this information can be stored in the database
- The activity of MRV, during the different years of implementation, will guarantee the engagement of the stakeholders in gathering data per agreed reporting templates, producing therefore the outputs to meet reporting requirements

MRV and database management

→ MRV requires fixed templates where data collection processes are included, quality assurance, data visualisation and data verification. The database will ease the collection of them and will support the sustainable management of climate action information



WHERE IS DCA BRUNEI on MRV?



Progress already achieved by DCA Brunei under CORSIA MRV

- DCA Brunei is already active on MRV. Indeed, due to CORSIA implementation starting from 01.01.2019, DCA Brunei has already asked its aeroplane operator to monitor and report the CO2 emissions for international flights falling within the specific MRV applicability requirements fixed by ICAO.
- DCA Brunei has informed RB on how to deal with the template provided by ICAO to monitor their emissions through ad hoc methods designed by ICAO
- RB has opted to use CERT to estimate the CO2 emissions of its international flights

Progress already achieved by DCA Brunei under CORSIA

MRV-2nd part

- RB has already submitted the EMP to DCA Brunei for its approval
- DCA has officially approved the EMP of RB and in the next months RB will be requested to fill in the ER to then be submitted to a third party verification body to be verified

Now What?!!



CONCLUSIONS

- DCA Brunei is already quite advanced in the MRV of emissions from international aviation. This requires to be framed into the recently established database in order to guarantee the accuracy of data and to create historical data to be then used for the magnitude check control under CORSIA and for other reporting requirements under different international entities
- It will be important to adopt and use the same system to tackle environmental data in order to reduce overlapping of information/mistakes in data collection and data methodology



Thank you for your attention

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