ETS Support Facility
Overview

Bruxelles, 16 January 2012
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Content

• EUROCONTROL
• Information availability and sources
• ETS Support Facility
• How can it be used
• Issues, thoughts, facts & figures
Europe Domestic: 27,988 flights 83.4%
To/From East: 1678 flights 6.4%
To/From West: 1334 flights 4.6%
To/From South: 1848 flights 4.3%
Others: 477 flights 1.3%

One Day European Traffic
Information Coverage & Coherence

European Commission
Competent Authorities
Accredited Verifiers
Aircraft Operators
The EU ETS Legal Framework

- Directive 2008/101/EC: inclusion of aviation in the EU ETS
- Commission Decision 2009/450/EC: exemptions

All measures refer to EUROCONTROL to possibly support the monitoring, reporting and verification processes
EUROCONTROL Member States
2200+ Employees in 4 Countries

- Brussels
  - Headquarters
  - Central Flow Management Unit
  - Central Route Charges Office

- Brétigny-sur-Orge
  - Experimental Centre

- Maastricht
  - Upper Area Control Centre

- Luxembourg
  - Institute of Air Navigation Services
Information Available in EUROCONTROL

- Flights
  - Central Route Charges Office (CRCO, 1971)
  - Central Flow Management Unit (CFMU, 1996)
Information Available in EUROCONTROL

- Flights
  - Central Route Charges Office (CRCO, 1971)
  - Central Flow Management Unit (CFMU, 1996)

- Other Aviation Information (Admin Data)
  - European AIS Database (EAD) - airports
  - ICAO – aircraft types, AO designators
  - CRCO – fleets, (billed) operators

- Additional information needed for ETS purposes
  - Actual operator
  - Flights Estonia, France OMR, Iceland not in CRCO
### ETS Support Facility & Small Emitters Tool

#### Process 1: Reassessment of Aircraft Operators for ETS

- **CRCO traffic**

#### CRCO Admin data

<table>
<thead>
<tr>
<th>ICAO Aircraft Type Designator (doc 8643)</th>
<th>Distance (Nm)</th>
<th>Estimated Fuel (Kg)</th>
<th>Estimated CO2 (Kg)</th>
<th>Calculator Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>A310</td>
<td>1,543</td>
<td>17,818</td>
<td>56,127</td>
<td>ok</td>
</tr>
<tr>
<td>A320</td>
<td>798</td>
<td>5,500</td>
<td>17,325</td>
<td>ok</td>
</tr>
<tr>
<td>B732</td>
<td>1,109</td>
<td>8,137</td>
<td>25,632</td>
<td>ok</td>
</tr>
<tr>
<td>C560</td>
<td>785</td>
<td>1,264</td>
<td>3,982</td>
<td>ok</td>
</tr>
<tr>
<td>AT72</td>
<td>458</td>
<td>1,173</td>
<td>3,695</td>
<td>ok</td>
</tr>
<tr>
<td>F100</td>
<td>878</td>
<td>4,805</td>
<td>15,136</td>
<td>ok</td>
</tr>
<tr>
<td>RJ85</td>
<td>987</td>
<td>6,219</td>
<td>19,590</td>
<td>ok</td>
</tr>
<tr>
<td>E145</td>
<td>478</td>
<td>1,593</td>
<td>5,018</td>
<td>ok</td>
</tr>
</tbody>
</table>

#### Non-CRCO Admin data
EUROCONTROL’s Support via the ETS-SF

European Commission

EU List HAE

>5000 Aircraft Operators

1 March 2011 for 2010
1 February 2012 for 2011

COMPETENT AUTHORITIES

Since 17 Jan 2011

EUROCONTROL ETS Support Facility

Accredited Verifiers

1 March 2011 for 2010
1 February 2012 for 2011
Coordination with Competent Authorities

Steering Group with States
Clients of the ETS SF

EUROCONTROL

European Commission
CCC
Compliance Forum
DG CLIMA
Aviation TF
States signed contract
States committed to sign
Croatia joining EU in 2013
Not signed
### Emission Data Overview

#### 4. Information about the monitoring plan

- **(a)** Reference of approved annual emission monitoring plan:

  Mesh...

- **(b)** Venues number of the approved monitoring plan:

  M...

- **(c)** Have there been any deviation from your approved monitoring plan during the reporting year?

  Yes

- **(d)** If yes, please describe all relevant changes in the operations and all deviations from your approved monitoring plan, providing information about each deviation and the consequence for the calculation of actual emissions.

<table>
<thead>
<tr>
<th>Venue</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Increased fuel consumption due to higher altitudes</td>
</tr>
<tr>
<td>2</td>
<td>Reduced efficiency due to engine issues</td>
</tr>
</tbody>
</table>

#### 5. Total Emissions

- **(a)** Total number of flights in the reporting year covered by the EU ETS:

  123

- **(b)** Fuel use per aircraft type:

<table>
<thead>
<tr>
<th>Aircraft Type</th>
<th>Fuel Consumption (tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>45.6</td>
</tr>
<tr>
<td>Type B</td>
<td>23.4</td>
</tr>
</tbody>
</table>

- **(c)** Use of simplified procedures:

<table>
<thead>
<tr>
<th>Simplified Procedure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>Used for 50% of flights</td>
</tr>
<tr>
<td>Type B</td>
<td>Used for 40% of flights</td>
</tr>
</tbody>
</table>

#### Use of Simplified Procedures

- **(d)** Have you been using the simplified approach allowed for small emitters pursuant to section 6 of Annex III of the EU ETS?

  Yes

- **(e)** Please report the total number of flights covered by the EU ETS in each four-month period during the reporting year for which you are the aircraft operator:

<table>
<thead>
<tr>
<th>Four-Month Period</th>
<th>Number of Flights</th>
</tr>
</thead>
<tbody>
<tr>
<td>January-February</td>
<td>345</td>
</tr>
<tr>
<td>March-April</td>
<td>456</td>
</tr>
<tr>
<td>May-June</td>
<td>321</td>
</tr>
<tr>
<td>July-August</td>
<td>234</td>
</tr>
</tbody>
</table>

**Total emissions as outlined in section 5.3:**

<table>
<thead>
<tr>
<th>Source</th>
<th>CO2 (in metric tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Flights Details Report

**ESCH_12345**

**Start Date:** 01/01/2021
**End Date:** 31/12/2021
**Aircraft Code:** AER
**Flight Rating:** 3

<table>
<thead>
<tr>
<th>Flight Details</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AER1</td>
<td>Flight 1</td>
</tr>
<tr>
<td>AER2</td>
<td>Flight 2</td>
</tr>
</tbody>
</table>

**Total Flight Hours:** 2500

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**Support to Aircraft Operators**

**Draft AER**

**Flights Details Report**
What can Aircraft Operators do?

- **Small Emitters**
  - Draft
  - AO final
  - Review

- **Other type of AOs**
  - AO final
  - Check flights

- **Accredited Verifier**
What can Accredited Verifiers do?

- High level comparison
- Exemptions (demo with Excel)
- Detailed comparison

Request complementary information

OK
What can Competent Authorities do?

ON LINE - DEMO
Issues

- Fleet List Management (improvement planned)
- Non CRCO traffic data
- Administration of AO admin data
  - via ETS List Support Office (tools, schedule)
  - Clarity/harmisation of rules/conditions
How to identify an Aircraft Operator

One AO or two distinct AOs?

Mergers … Splits … Take Over … Out Of Business … Move?
Grouping of **non** Commercial AOs

- Single Reporting / Liable Entity
- Unit A non commercial
- Unit B Commercial
- No carbon leakage
- Economies of scale (cost savings)
Facts & Figures

• Availability of Monitoring Plans by CAs
• Operators on the EU list by State
• Operators who flew in 2010 (all traffic exempted, in) by State
• Operators who flew in 2011 (all traffic exempted, in) by State