Who are we?

- UNFCCC - United Nations Framework Convention on Climate Change, 1992
- Kyoto Protocol, 1997 & Doha Amendment, 2014
- Paris Agreement, 2015

- intergovernmental negotiations
- constituted bodies
- technical expertise
- analysis of info & data

"...stabilize GHG concentrations in the atmosphere at a level that will prevent dangerous human interference with the climate system."
"Linking climate change statistics and policy"

Vlad TRUSCA, UN Climate Change Secretariat
Fifth Meeting of the Expert Group on Environment Statistics, May 2018
Reporting & Review

- Mostly under Convention & Kyoto Protocol + Nationally Determined Contributions under Paris A.

- Two groups of Parties:
  - Annex I Parties (developed countries)
  - Non-Annex I Parties (developing countries)

- Different requirements:
  - Methodological basis (IPCC guidelines)
  - Content & frequency
  - Conditional on funding (Non-Annex I Parties)
  - Rigorous review process (Annex I Parties)
Annex I Parties - 44

- **GHG Inventory** - annually:
  - Based on official data from Statistical Offices
  - Data in formatted tables (CRF)
  - Methodological report (NIR)

- **National Communication (NC)** - every 4 years
- **Biennial Report (BR)** - every 2 years
  - Policy-related info (mitigation, adaptation, funding, etc.)

- Methodological basis - 2006 IPCC guidelines
Non-Annex I Parties - 153

- Only under Convention

- National Communication (NC) - every 4 years
- Biennial Update Report (BUR) - every 2 years
  - Policy-related info (mitigation, adaptation, funding and capacity building needs)
  - Depending on funding

- GHG Inventory - less detailed, included in NC/BUR
  - flexibility to use 1996 IPCC Guidelines

- National Adaptation Plan (NAP)
- National Adaptation Programme of Action (NAPA) - LDCs
All Parties under Paris Agreement - 176*

- **INDC (Intended Nationally Determined Contributions)**: Parties communicated them before COP 21 (Paris)

- **NDCs (Nationally Determined Contributions)**: Parties to communicate 1st NDC at the time of PA ratification
  - 152 - Automatic conversion of INDC to NDC
  - 18 - Revisions to INDCs or NDCs submitted
  - 6 - Parties currently revising NDCs

- **NDC** - post-2020 climate actions reflecting country ambition for reducing emissions by considering domestic circumstances and capabilities
Synthesis report on the aggregate effect of INDCs
"Linking climate change statistics and policy"
Vlad TRUSGA, UN Climate Change Secretariat
Fifth Meeting of the Expert Group on Environment Statistics, May 2018
Our Data

- Data collection
- Data analysis
- Data management
- Data dissemination
Data process

- **Data collection** - MRV, mandates
- **Data analysis** - status reports; assessment reports; aggregate GHG info; compilation and accounting reports; etc.
- **Data management** - processing by internal tools:
  - portal & Data Warehouse
  - review process
- **Data dissemination** - BR DI; GHG DI; webpages; cooperation agreements with FAO, IEA, WRI
"Linking climate change statistics and policy"
Vlad TRUSCA, UN Climate Change Secretariat
Fifth Meeting of the Expert Group on Environment Statistics, May 2018
Our Tools

- Internal vs external
- User friendly
- Comprehensive
- Accurate
- Simple
GHG Emissions Locator
### GHG Data Interface

#### Greenhouse Gas Inventory Data - Comparison by Gas

Please select two different Parties for comparison:
- Australia
- European Union (Convention)

Please select Category:
- Total GHG emissions without LULUCF

Please select two different years for comparison:
- Base year: 1990

Query results for: Parties: Australia and European Union (Convention) — Years: Base year and 1990 — Category: Total GHG emissions without LULUCF — Unit: kt CO2 equivalent

<table>
<thead>
<tr>
<th>Gas</th>
<th>Australia</th>
<th>European Union (Convention)</th>
<th>European Union (Convention) to Australia Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Base year</td>
<td>1990</td>
<td>Difference</td>
</tr>
<tr>
<td>CO₂</td>
<td>218,352.79</td>
<td>218,352.79</td>
<td>0.00%</td>
</tr>
<tr>
<td>CH₄</td>
<td>119,920.32</td>
<td>119,920.32</td>
<td>0.00%</td>
</tr>
<tr>
<td>N₂O</td>
<td>15,327.33</td>
<td>15,327.33</td>
<td>0.00%</td>
</tr>
<tr>
<td>HFCs</td>
<td>1,424.60</td>
<td>1,424.60</td>
<td>0.00%</td>
</tr>
<tr>
<td>PFCs</td>
<td>4,607.01</td>
<td>4,607.01</td>
<td>0.00%</td>
</tr>
<tr>
<td>Unexpected mix of HFCs and PFCs</td>
<td>NO</td>
<td>NO</td>
<td>−</td>
</tr>
<tr>
<td>SF₆</td>
<td>211.02</td>
<td>211.02</td>
<td>0.00%</td>
</tr>
</tbody>
</table>
### Greenhouse Gas Inventory Data - Detailed data by Party

Please select Party, Inventory Year, Category, Gas and Unit.

- **Party:** Brazil
- **Years:** 1990, 2000, 2010 and last year
- **Category:** 2. Industrial Processes
- **Gas:** Aggregate GHGs
- **Unit:** Gt CO2 equivalent

**Query results for:**
- **Party:** Brazil
- **Years:** 1990, 2000, 2010 and last year
- **Category:** 2. Industrial Processes
- **Gas:** Aggregate GHGs
- **Unit:** Gt CO2 equivalent

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Industrial Processes</td>
<td>32,609.52</td>
<td>17,326.16</td>
<td>99,004.04</td>
<td>93,190.92</td>
<td></td>
</tr>
<tr>
<td>2.A Mineral Products</td>
<td>14,459.20</td>
<td>21,344.00</td>
<td>27,485.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.B Chemical Industry</td>
<td>4,998.00</td>
<td>7,864.40</td>
<td>3,927.36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.C Metal Production</td>
<td>27,766.16</td>
<td>42,225.76</td>
<td>48,064.53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.D Other Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.E Production of Halocarbons</td>
<td>1,406.34</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and SF6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.F Consumption of Halocarbons</td>
<td>100.90</td>
<td>167.94</td>
<td>3,743.41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and SF6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.G Other</td>
<td>2,927.00</td>
<td>3,454.00</td>
<td>5,378.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Showing 1 to 8 of 9 entries
GHG Data Interface

United Nations Framework Convention on Climate Change

Submission Portal - sessions
http://www4.unfccc.int/submissions/SitePages/sessions.aspx

GHG Profiles - Non-Annex I

Non Annex I

<table>
<thead>
<tr>
<th>Party</th>
<th>Link to Excel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afghanistan</td>
<td>Excel</td>
</tr>
<tr>
<td>Albania</td>
<td>Excel</td>
</tr>
<tr>
<td>Algeria</td>
<td>Excel</td>
</tr>
<tr>
<td>Andorra</td>
<td>Excel</td>
</tr>
<tr>
<td>Angola</td>
<td>Excel</td>
</tr>
<tr>
<td>Antigua and Barbuda</td>
<td>Excel</td>
</tr>
<tr>
<td>Argentina</td>
<td>Excel</td>
</tr>
<tr>
<td>Armenia</td>
<td>Excel</td>
</tr>
<tr>
<td>Azerbaijan</td>
<td>Excel</td>
</tr>
<tr>
<td>Bahamas</td>
<td>Excel</td>
</tr>
<tr>
<td>Bahrain</td>
<td>Excel</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>Excel</td>
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<tr>
<td>Barbados</td>
<td>Excel</td>
</tr>
<tr>
<td>Belize</td>
<td>Excel</td>
</tr>
<tr>
<td>Benin</td>
<td>Excel</td>
</tr>
</tbody>
</table>
Biennial Report Common Tabular Format

United Nations Framework Convention on Climate Change

Biennial Reports Data Interface (BR-DI)

Home
- GHG inventory data
- Information on emission trends
- Progress toward achieving the target reduction measures
- Reporting to governments
- GHG projections
- Financial contributions
- Summary
- Capacity building
- Technology support

Summary of key variables and assumptions used in the projections analysis

<table>
<thead>
<tr>
<th>Variable</th>
<th>Assumptions</th>
<th>Projected Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDP growth rate (%)</td>
<td>5.0%</td>
<td>2020: 3.5% 2030: 2.5% 2040: 1.5%</td>
</tr>
<tr>
<td>Population (T)</td>
<td>1,234,567</td>
<td>2020: 1,234,567 2030: 1,345,678 2040: 1,456,789</td>
</tr>
<tr>
<td>International trade</td>
<td>Increase</td>
<td>2020: 10% 2030: 15% 2040: 20%</td>
</tr>
</tbody>
</table>

Custom Parameters

Table 1: Summary of key variables and assumptions used in the projections analysis

- Factors should include modeling assumptions as appropriate.
- Projections should include trends and assumptions to verify the greenhouse gas projections reported.
"Linking climate change statistics and policy"
Vlad TRUSCA, UN Climate Change Secretariat
Fifth Meeting of the Expert Group on Environment Statistics, May 2018
Negotiations

**Paris Agreement Work Programme** - rules and modalities under the new climate regime

Key elements:
- NDCs
- Global stocktake
- Transparency framework
- Adaptation
- Finance and support

**COP 24** (Nov. 2018) - Katowice, Poland

**Talanoa Dialogue** - platform for Parties and non-state actors
Conclusions

- Parties submit a vast amount of data about all national activities - publicly available
- Data needed from national statistical offices is complex - expertise, resources & analytical efforts
- Understand the link between national statistics and climate-change data
- Enhance the cooperation between NSOs and authorities responsible for reporting CC data
- Expect an increase of data reporting/needs under Paris Agreement - transparency framework
- Difficult year ahead - negotiations under Paris Agreement Work Programme
"Linking climate change statistics and policy"
Vlad TRUSCA, UN Climate Change Secretariat
Fifth Meeting of the Expert Group on Environment Statistics, May 2018
More information

UN Climate Change Secretariat
http://cop23.unfccc.int/
http://unfccc.int/2860.php

NDC Registry
http://www4.unfccc.int/ndcregistry/Pages/Home.aspx

GHG Data Interface
http://di.unfccc.int/time_series
http://di.unfccc.int/detailed_data_by_party

Talanoa Dialogue
https://talanoadialogue.com/
“Linking climate change statistics and policy”
Vlad TRUSGA, UN Climate Change Secretariat
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