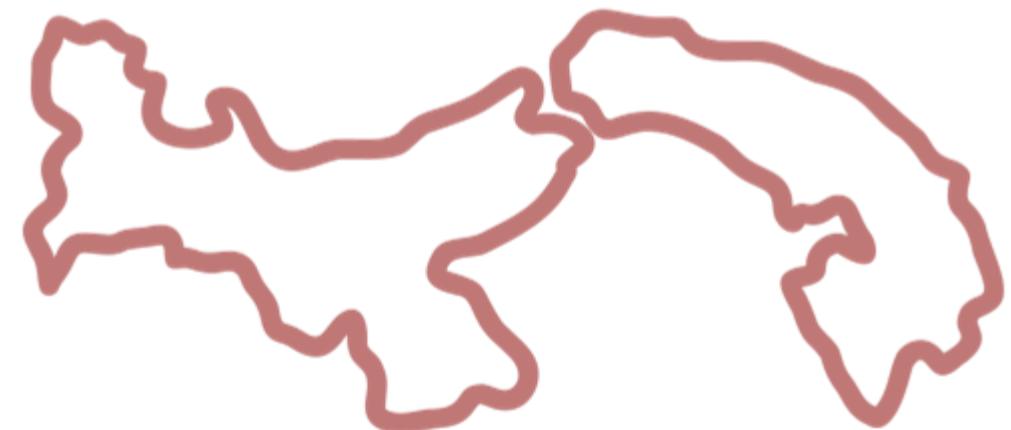
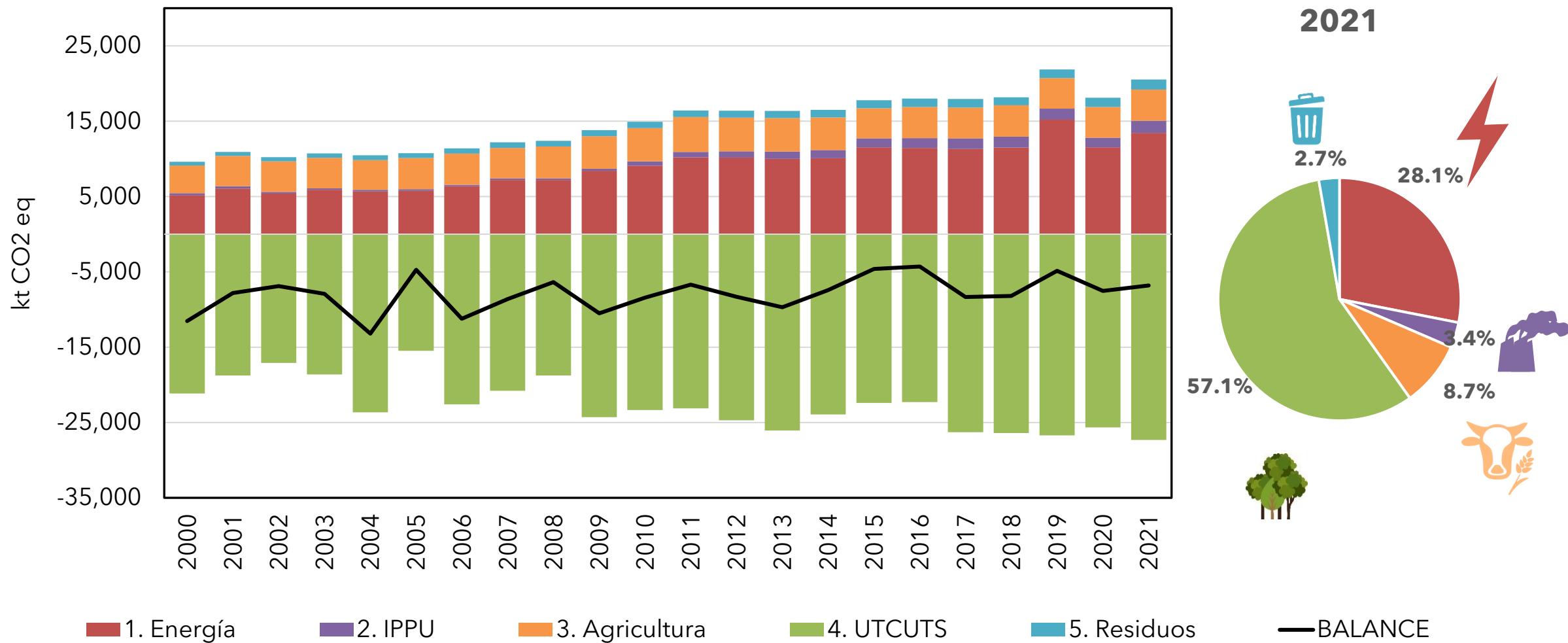


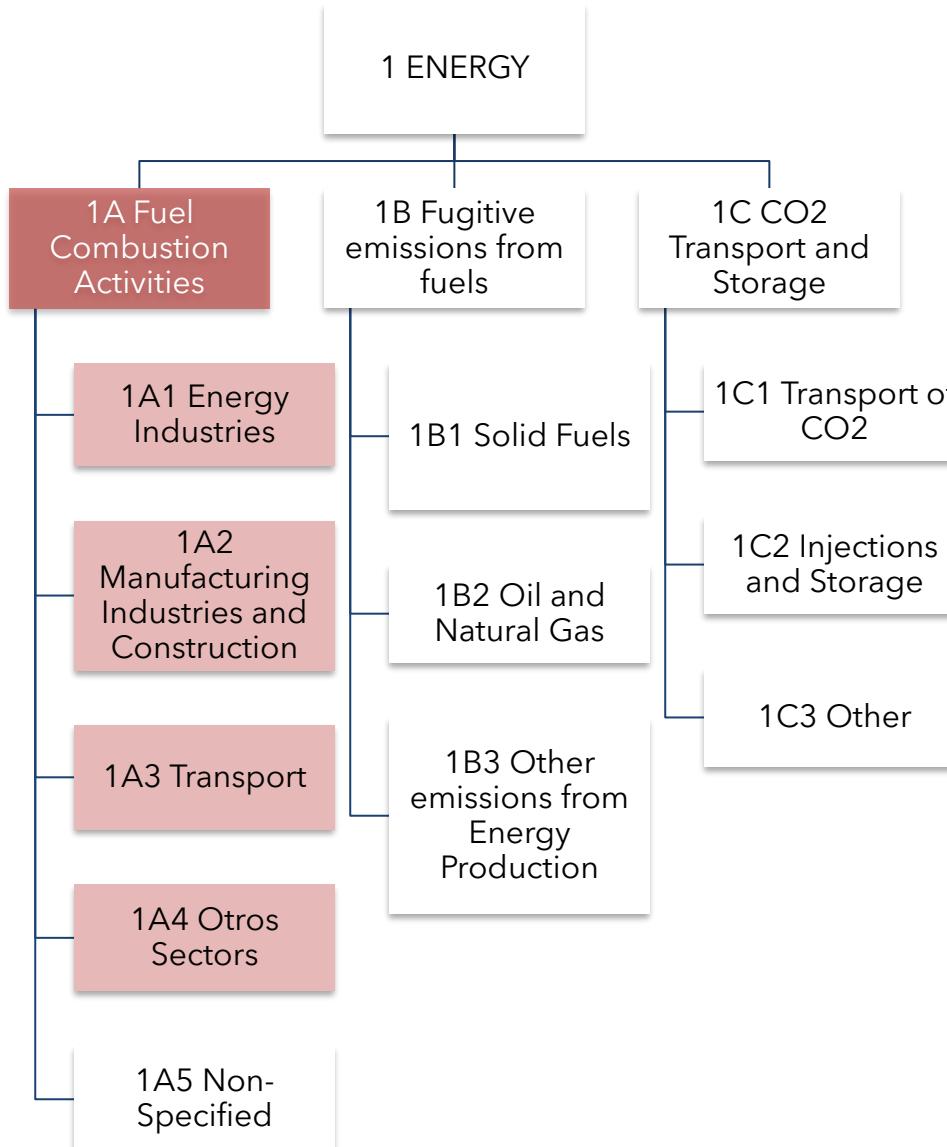
Panama's experience using IPCC Software

IPCC Inventory Software Workshop



NATIONAL GHG INVENTORY BALANCE 2000 - 2021

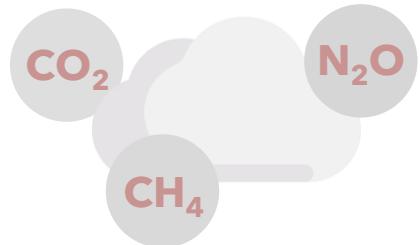
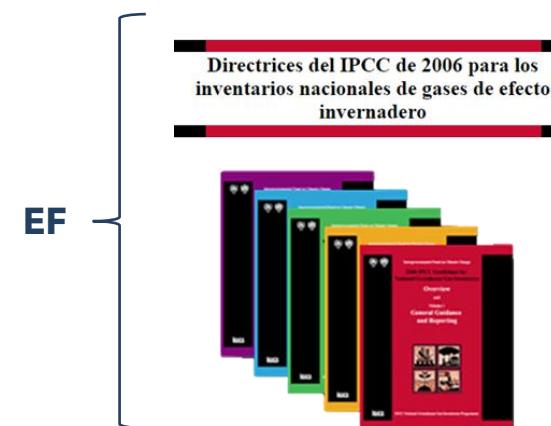




PANAMA'S ENERGY SECTOR CONTEXT

Sources of information:

- AD**
- National Energy Balance (National Energy Secretariat)
 - JetFuel, Kerosene and AV Gas statistics (National Energy Secretariat - Hydrocarbon Directorate)
 - Marine fuel shipment statistics (Panama Maritime Authority)
 - Biogas Production of the Cerro Patacón Landfill Company (2017-2019)



EXPERIENCE USING THE IPCC SOFTWARE

- The software is used for quality control of the sectoral energy inventory.



EXPERIENCE USING THE IPCC SOFTWARE

Comparison between methods: percentage difference of sectoral method between national table formats and IPCC Software (kt CO₂), 2000-2021

Fuente	2000	2010	2013	2017	2019	2020	2021
Panama SSINGEI Worksheets	4,996.4	8,901.0	9,819.1	11,094.6	14,978.9	11,352.2	13,222.6
IPCC Software	4,996.4	8,901.0	9,819.1	11,094.6	14,978.9	11,352.2	13,222.6
Diferencia	0.0						
Diferencia %	0.0%						

Comparison between methods: percentage difference of sectoral method between national table formats and IPCC Software (kt CH₄), 2000-2021

Fuente	2000	2010	2013	2017	2019	2020	2021
Hojas de Trabajo SSINGEI Panamá	3.2	3.6	3.7	4.1	4.4	3.9	4.3
IPCC Software	3.2	3.6	3.7	4.1	4.4	3.9	4.3
Diferencia	0.0						
Diferencia %	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%

Comparison between methods: percentage difference of sectoral method between national table formats and IPCC Software (kt N₂O), 2000-2021

Fuente	2000	2010	2013	2017	2019	2020	2021
Hojas de Trabajo SSINGEI Panamá	0.2	0.3	0.3	0.3	0.4	0.3	0.4
IPCC Software	0.2	0.3	0.3	0.3	0.4	0.3	0.4
Diferencia	0.0						
Diferencia %	0.0%						



EXPERIENCE USING THE IPCC SOFTWARE

- Export the JSON file of the Energy sector to upload it to the ETF Reporting Tool.

Sectors/Totals > 1. Energy

1. Energy³

Expand all

Show/hide years

Export

...	Description	Unit	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
01	> Method											
05	> Emission factor information											
09	└ Emissions ^{1,2}	kt CO ₂ equiv...	5,133.29	6,058.39	5,386.69	5,880.30	5,654.66	5,753.82	6,369.22	7,182.99	7,192.93	8,422.25
10	└ CO ₂	kt	4,996.39	5,914.19	5,244.67	5,737.45	5,511.90	5,611.29	6,222.07	7,029.02	7,036.84	8,257.51
11	└ CH ₄	kt	3.21	3.23	3.21	3.24	3.25	3.21	3.25	3.32	3.36	3.47
12	└ N ₂ O	kt	0.18	0.20	0.20	0.20	0.20	0.20	0.21	0.23	0.23	0.26
13	└ NO _x	kt	NE									
14	└ CO	kt	NE									
15	└ NMVOC	kt	NE									
16	└ SO _x	kt	NE									
Precursor source emissions												

Comments

Footnotes

EXPERIENCE USING THE IPCC SOFTWARE



What do I love?

- The ease of replicating worksheets year after year.
- The navigation between categories and subcategories.



What can be improved?

- The opportunity for multiple users to work at the same time, preferably online.
- The opportunity to be able to import activity databases.
- Dynamic charts (by year, sector, category, etc.).
- The interface on small screens.
- More capacity-building in the use of the software.

¡Thank you!



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