



System for Estimation of  
Greenhouse Gases Emissions



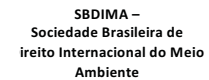
WGGHG  
Estimations



**Enhancing transparency and empowering civil society in developing countries by unpacking the process of arriving at GHG estimates and monitoring climate actions and public policy**



# Climate Observatory members



Observadores



# Products

**Free open data on GHG emissions**

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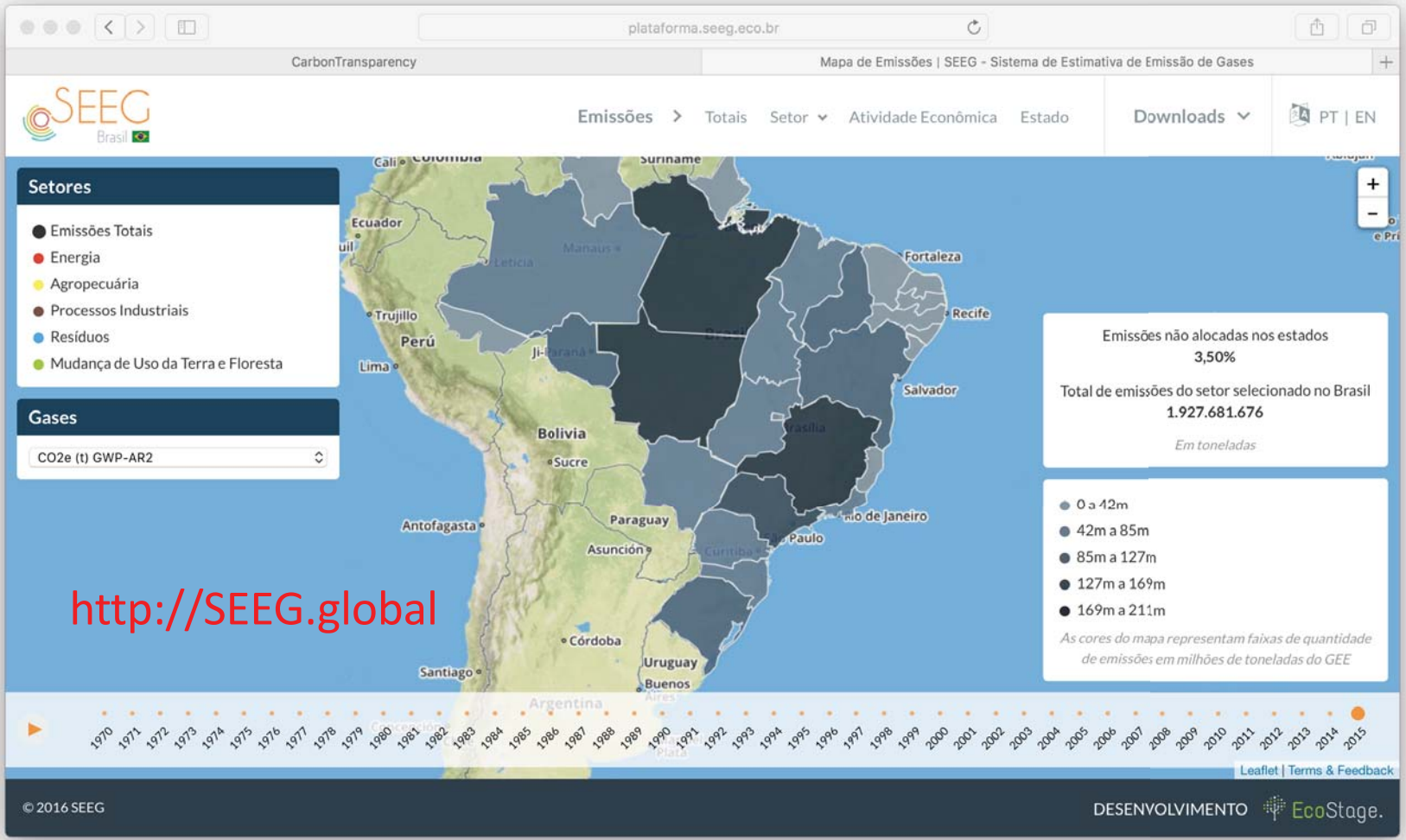
**Analytical reports on GHG emissions and  
climate policy implementation**

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**Science based climate policy proposal**

# Free open data on GHG emissions

- Annual estimation: **1970-2015**
- **All sector and gases** covered by IPCC guidelines
- **All levels of disaggregation** of the National Inventory
- Desaggregated by **27 states**
- Based on the methodology of the National Inventory
- Fully available to navigate in a friendly website
- All **4 million points of data set** entirely available for download



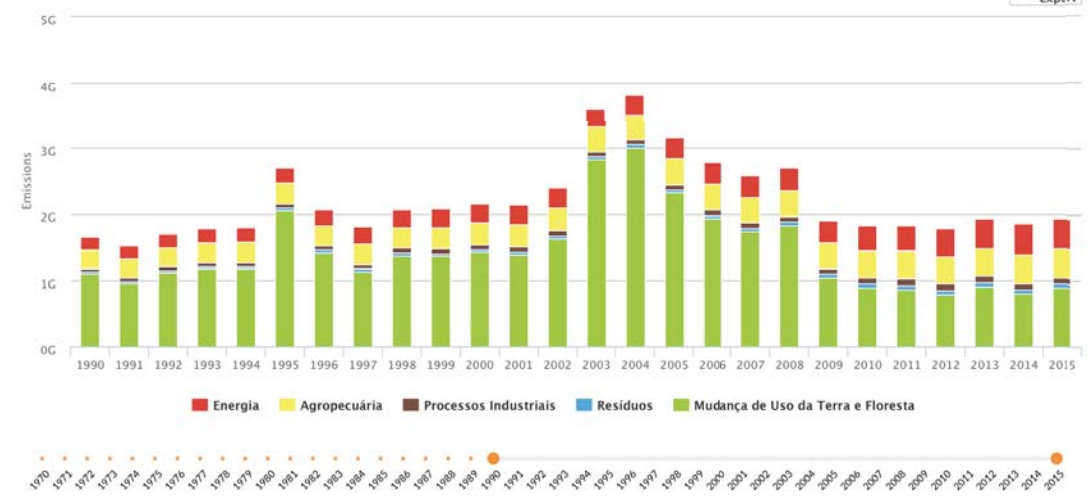
<http://SEEG.global>

# Total Emissions

Type of Emission: Emissão  
Gas: CO2e (t) GWP-AR2  
Territory: Brasil  
Compare with: Select option...

Chart Type:  Column  Stacked Column  Area  Line

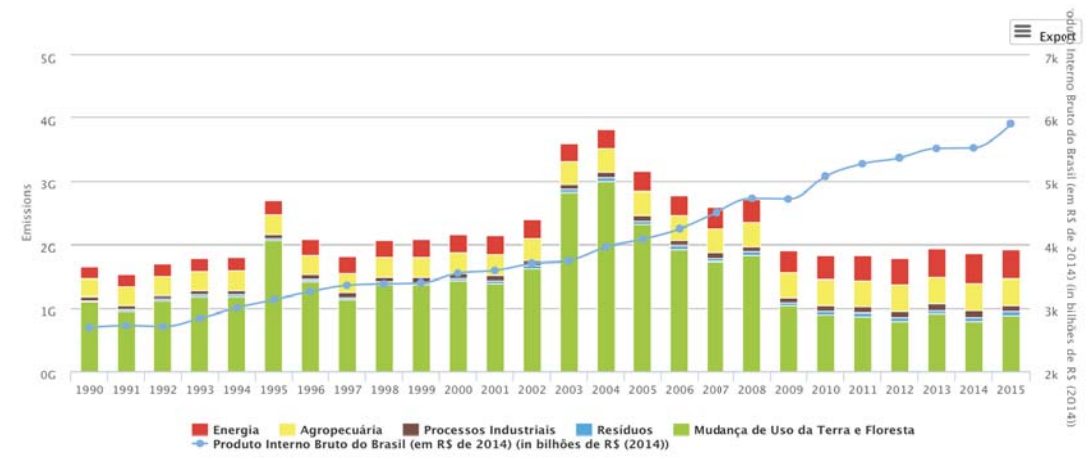
Export



# Total Emissions

Type of Emission: Emissão  
Gas: CO2e (t) GWP-AR2  
Territory: Brasil  
Compare with: Produto Interno Bruto do Brasil (em R\$ de 2014) (in bilhões de R\$ (2014))

Chart Type  
 Column  Stacked Column  Area  Line





# EMISSÕES E REMOÇÕES DE GASES DE EFEITO ESTUFA NO BRASIL 2015

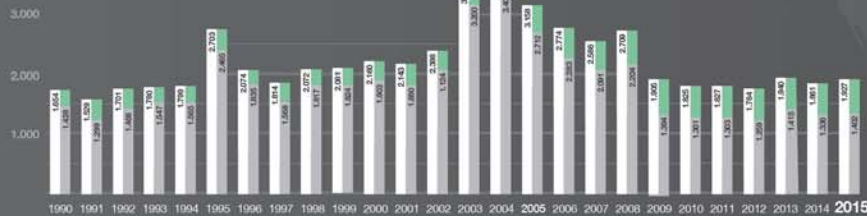


## EMISSÕES TOTAIS POR ESTADO\*\*

- 124 to 155
- 93 to 124
- 62 to 93
- 31 to 62
- 0 to 31



EMISSÕES BRUTAS E LÍQUIDAS 1990-2015 (Mt CO<sub>2</sub>e)\*



6°

BRASIL: O SEXTO MAIOR EMISSOR DE GEE

- 1° China
- 2° EUA
- 3° Índia
- 4° Rússia
- 5° Indonésia

Brasil 2,9% das emissões globais

70% CO<sub>2</sub>

19% CH<sub>4</sub>

10% N<sub>2</sub>O

Veredito Out. 2016. Valores de emissões expressos em toneladas equivalentes de dióxido de carbono (CO<sub>2</sub>e) de acordo com fatores de conversão foram adotados e 6% não puderam ser alocados por razões técnicas.

## ENERGIA



## USO DA TERRA



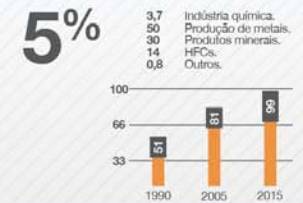
## AGROPECUÁRIA



## RESÍDUOS



## INDÚSTRIA



\* Unidade padrão dos gráficos de barras simples é Mt CO<sub>2</sub>e

6<sup>th</sup>

**BRAZIL: THE SIXTH  
LARGER GHG EMITTER**

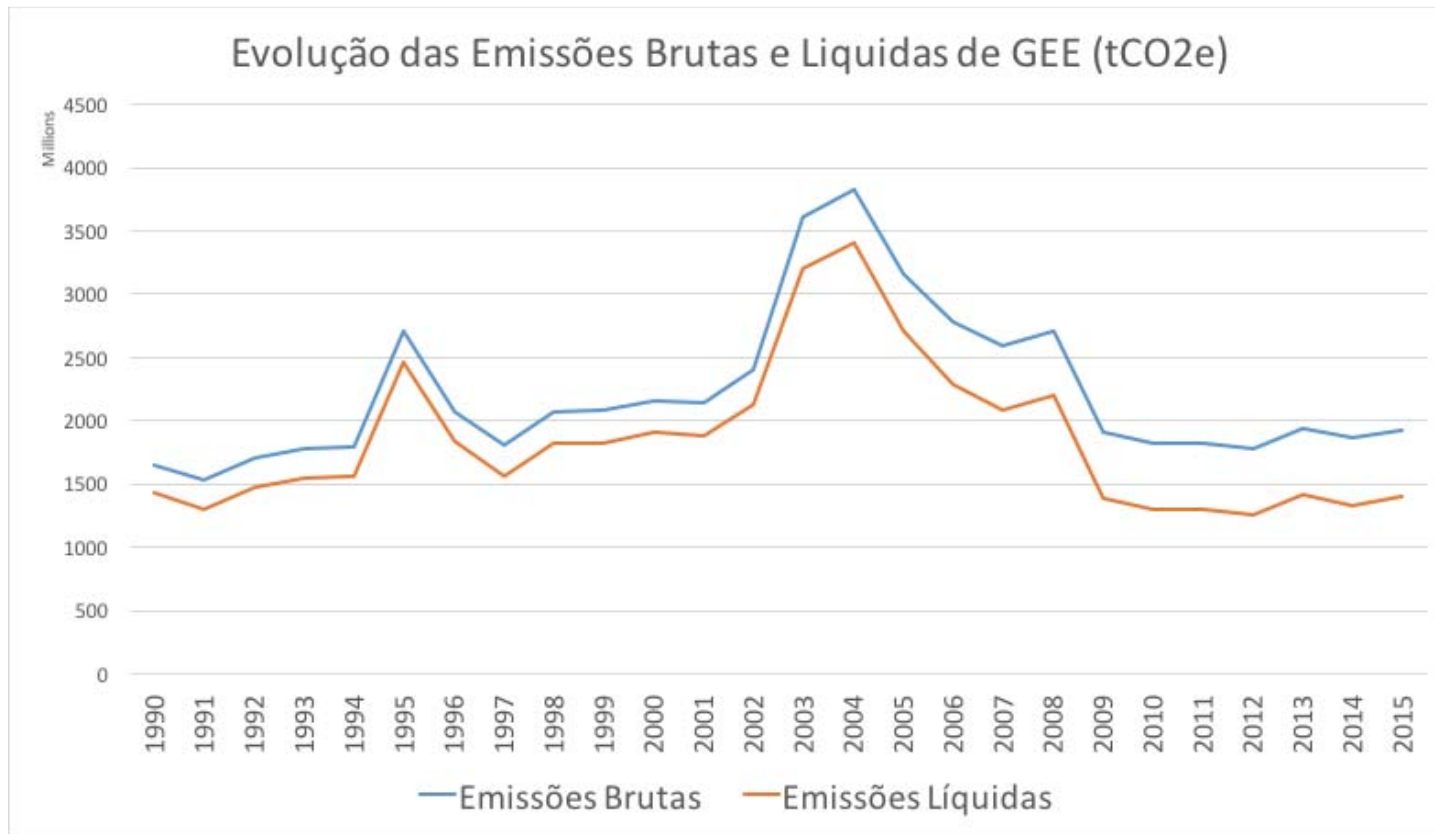
- 1<sup>st</sup> China
- 2<sup>nd</sup> USA
- 3<sup>rd</sup> India
- 4<sup>th</sup> Russia
- 5<sup>th</sup> Indonesia



6<sup>th</sup>

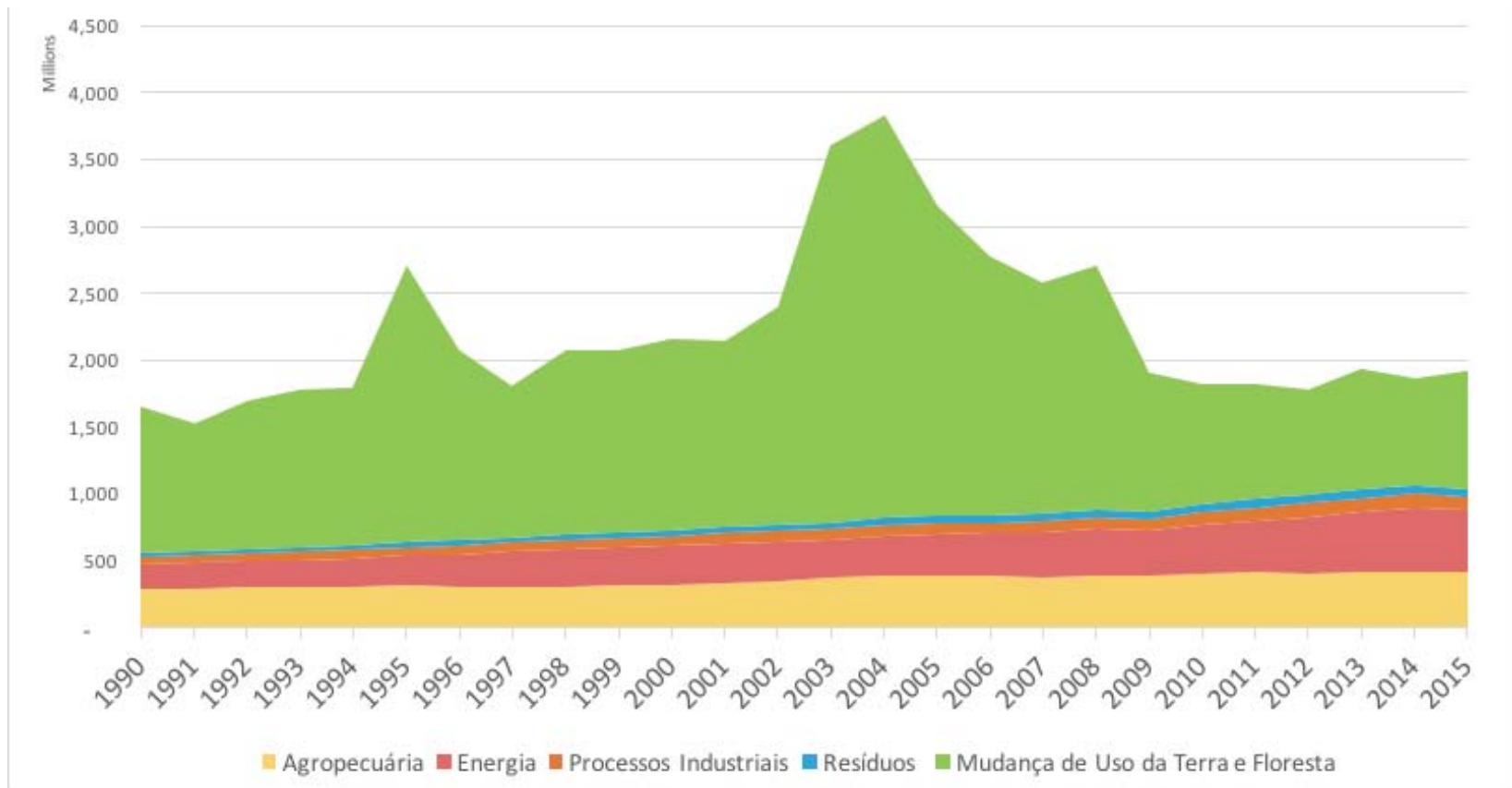
**Brazil 2,9%**  
of global emissions

# Evolução das Emissões Brasileiras de GEE

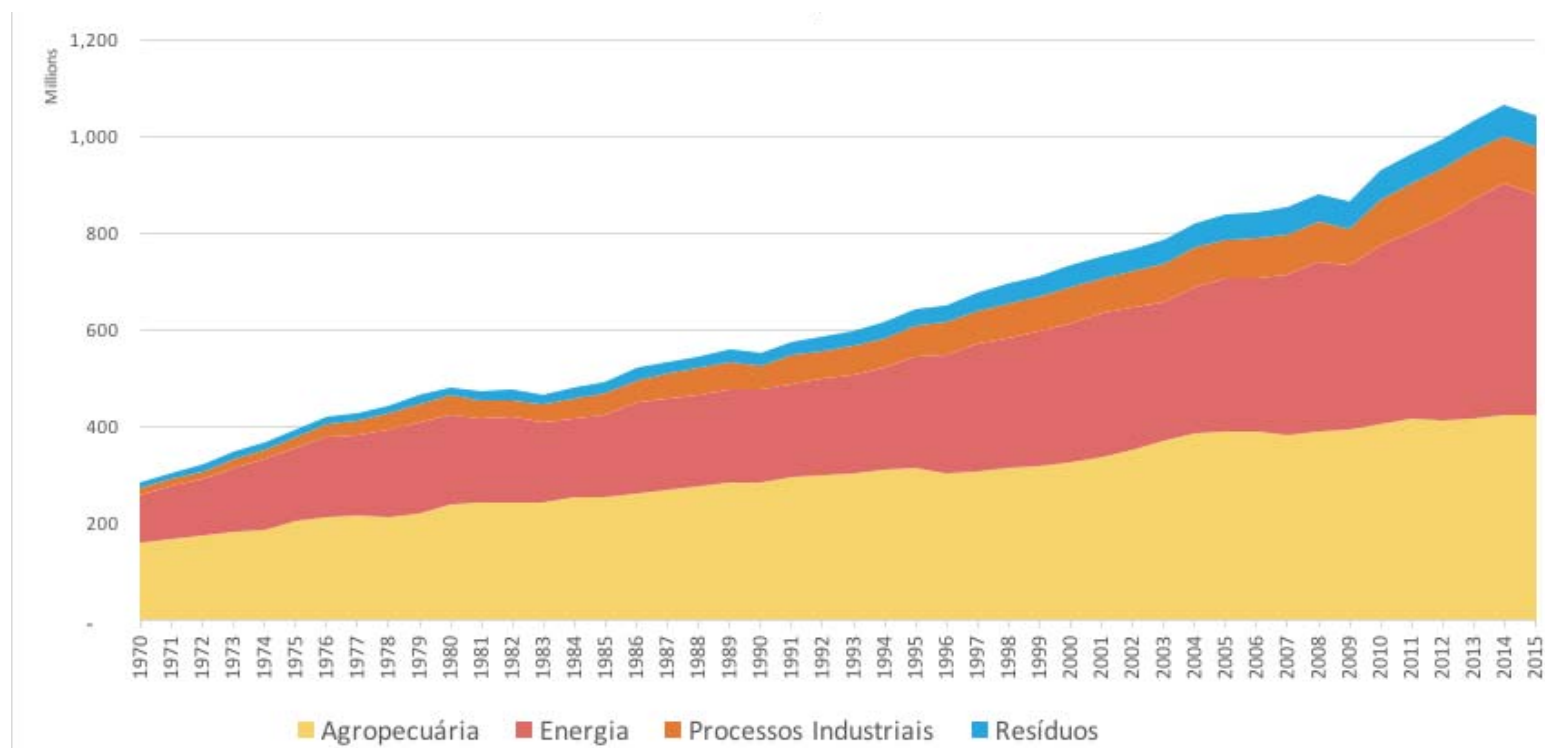


CO<sub>2</sub>e GWP AR2

# Evolution of GHG emissions in Brazil 1990-2015



# Evolution of GHG emissions in Brazil 1990-2015 (without LUCF)

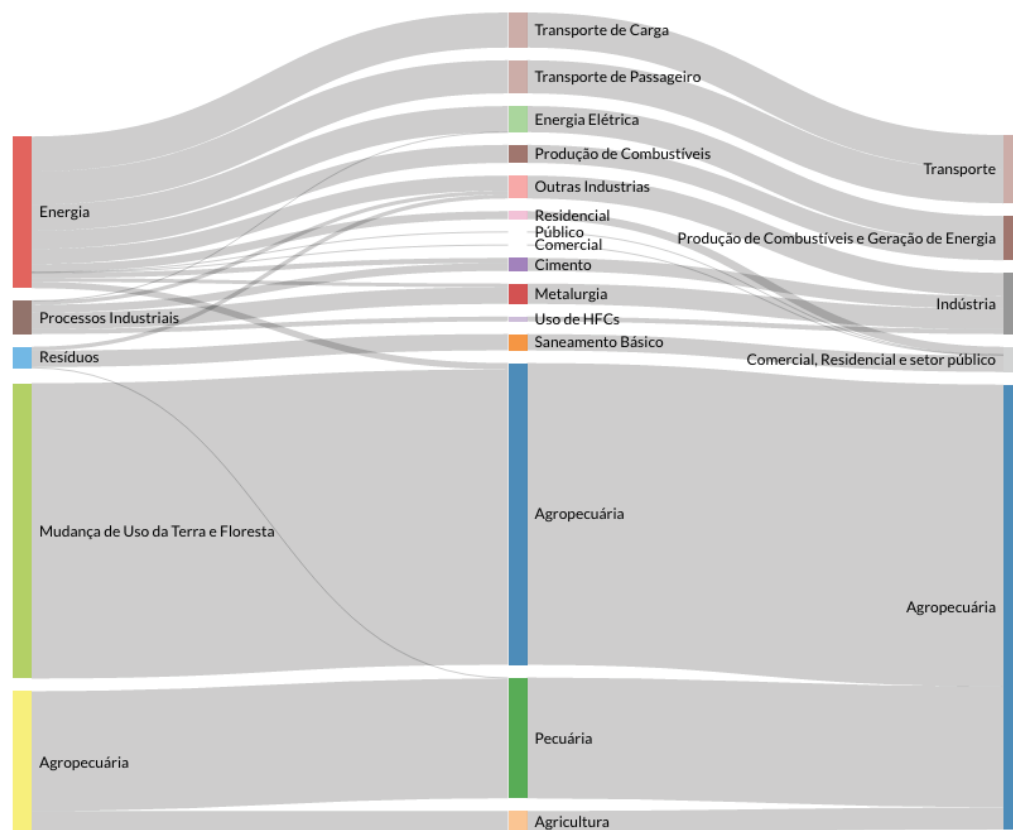


**Growth of 24%** in the last 10 years



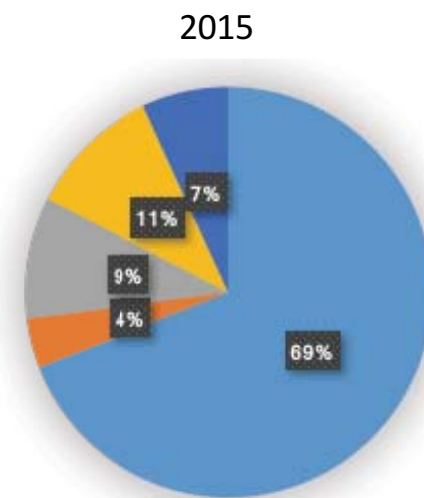
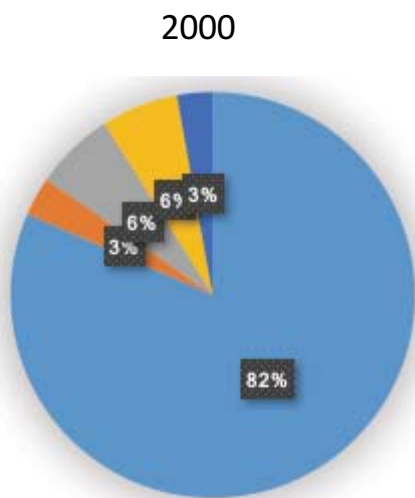
# GHG Emissions per Economic Activity

**69%**  
Agriculture Business



# GHG Emissions per Economic Activity

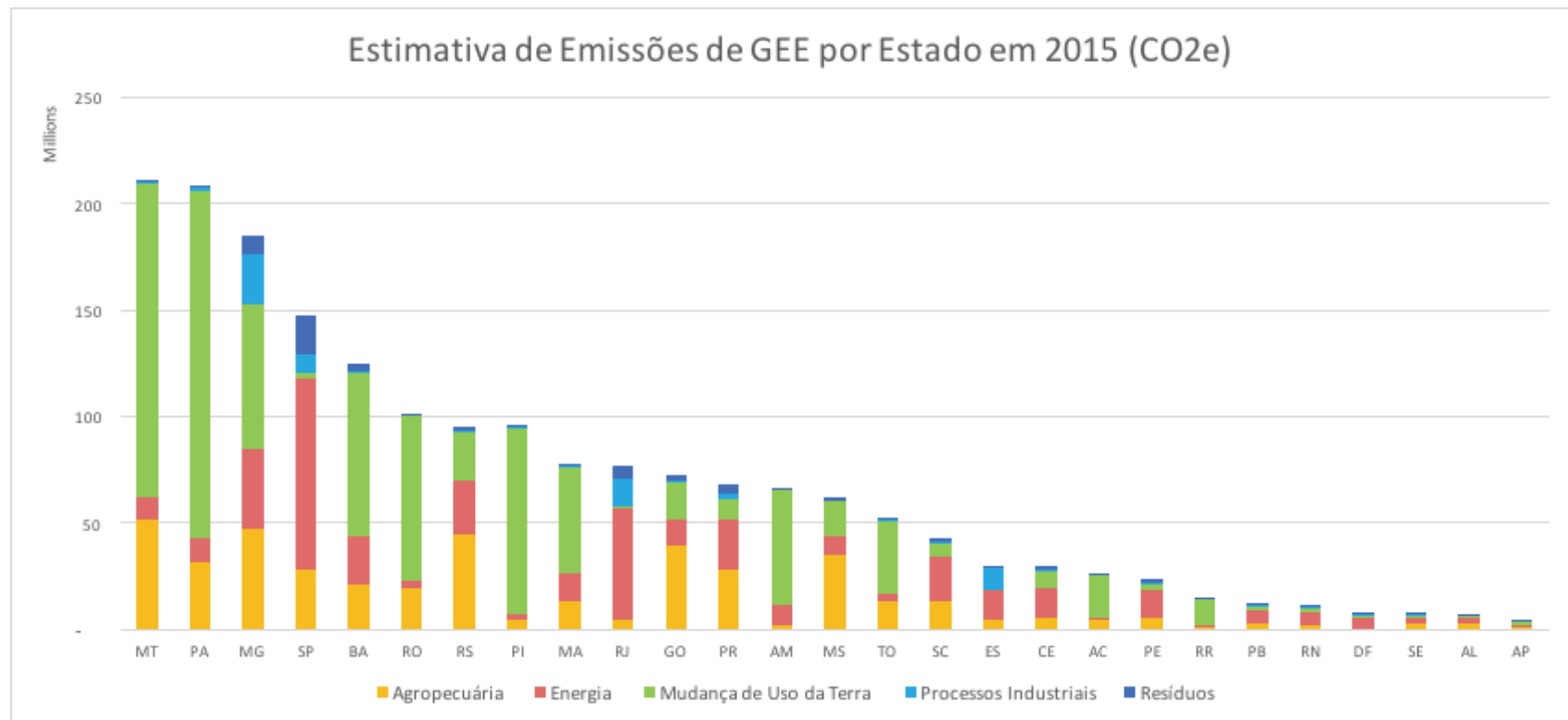
**69%**  
Agriculture  
Business



- Agropecuária
- Comercial, Residencial e setor público
- Industria
- Transporte
- Produção de Combustíveis e Geração de Energia

CO2e GWP AR2

# GHG Emissions by State in 2015

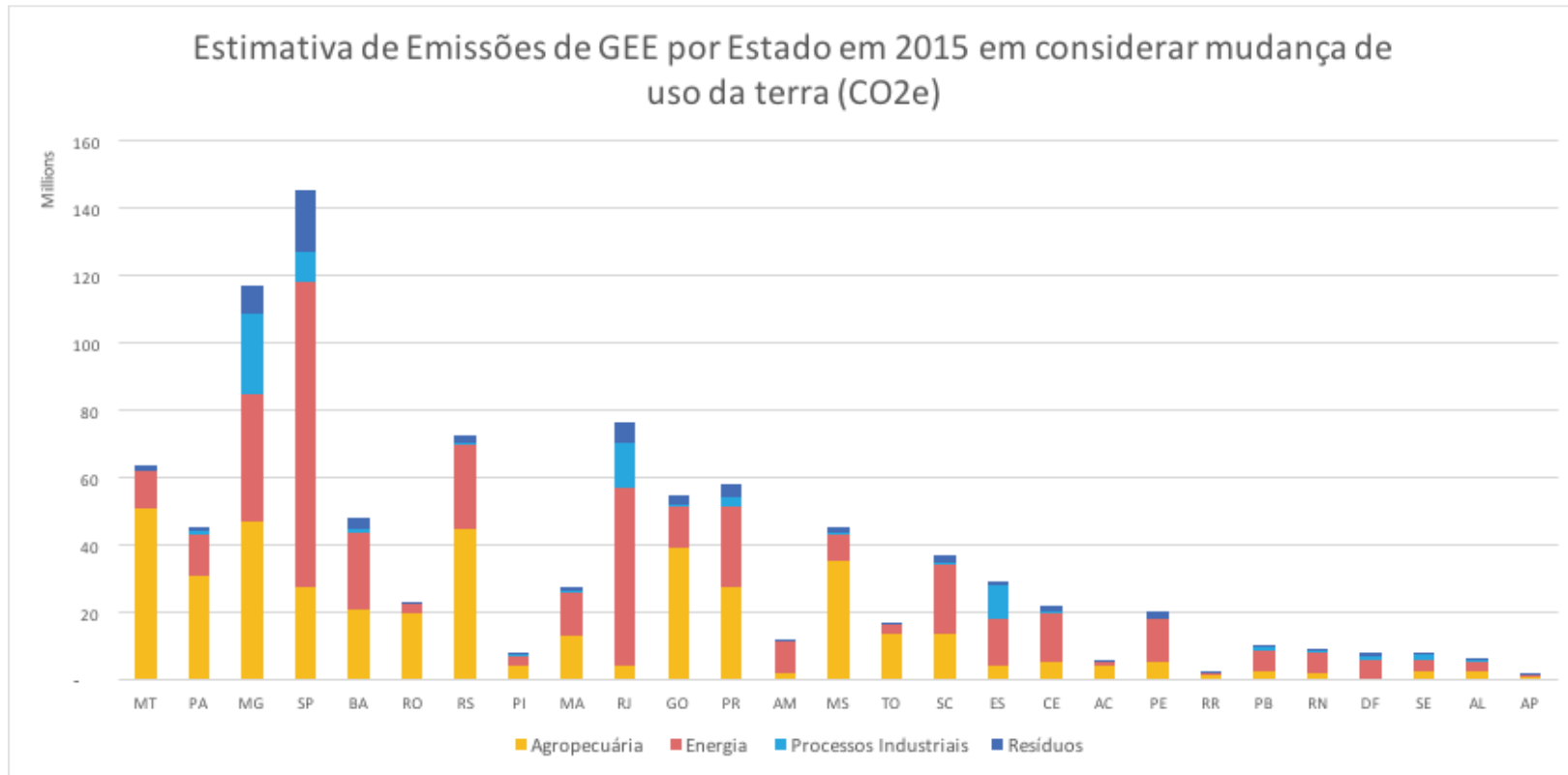


CO2e GWP AR2





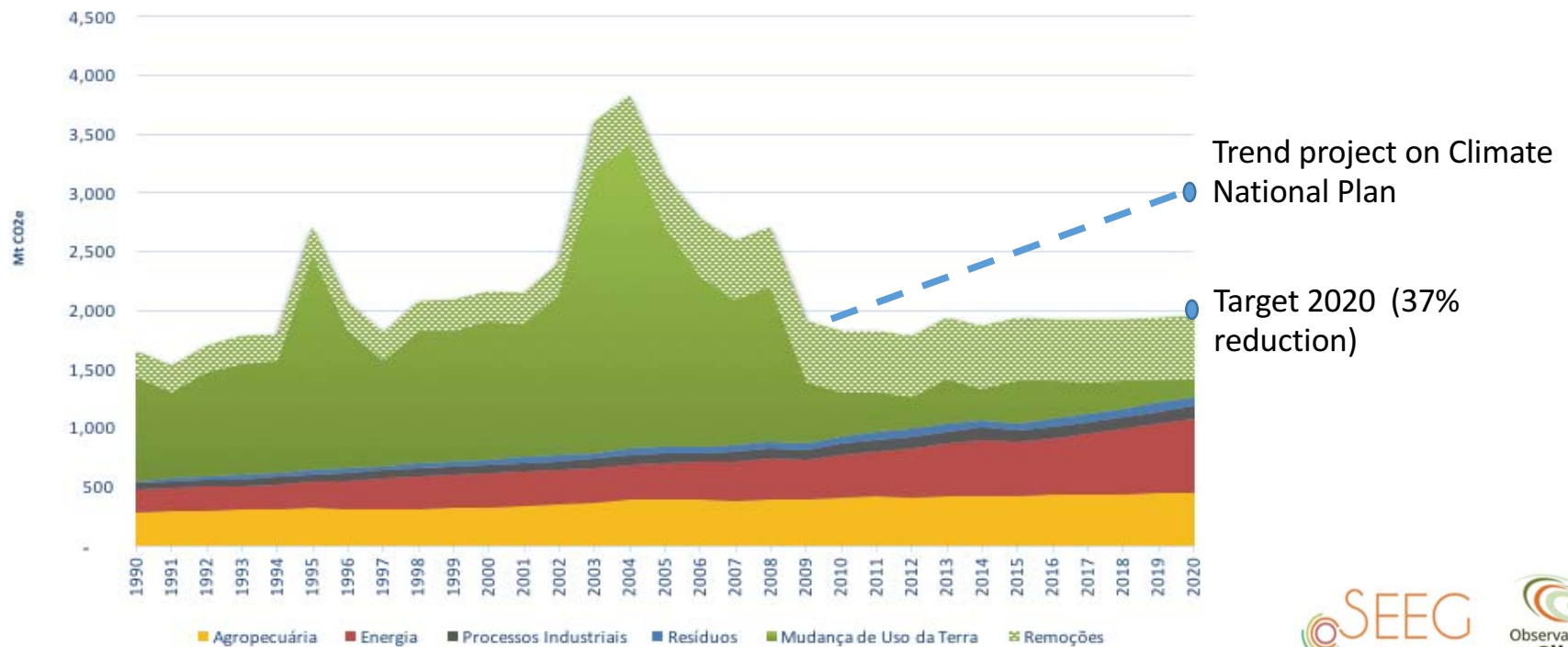
# GHG emissions by State in 2015 (without LUCF)



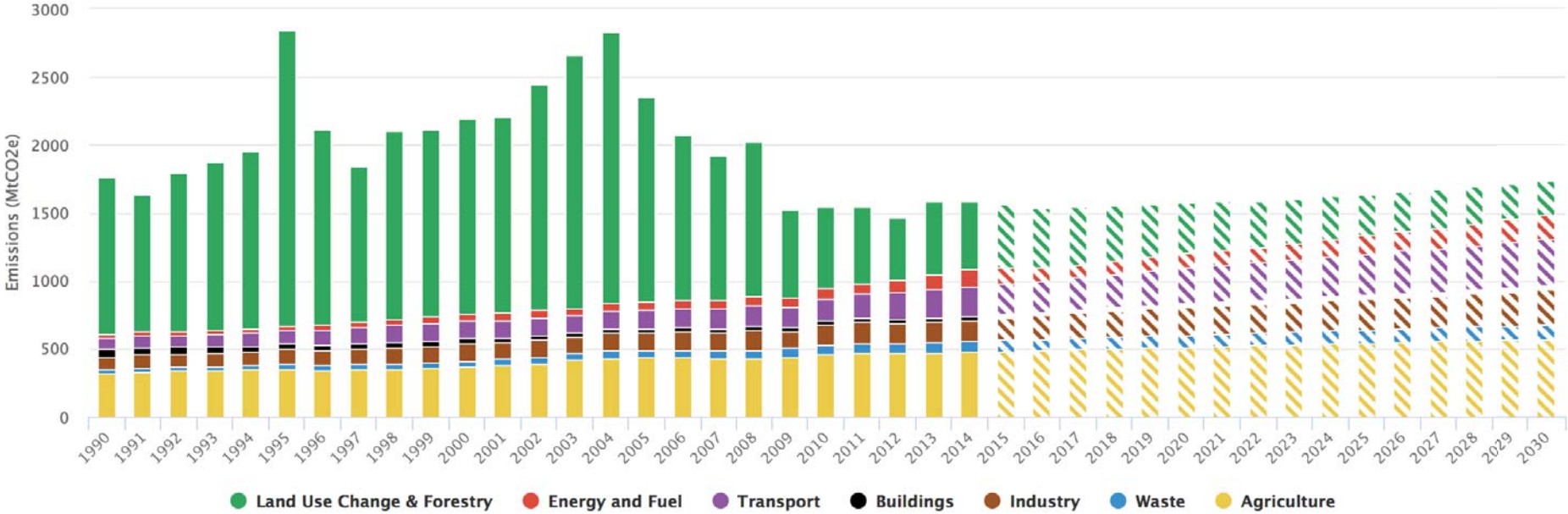
CO2e GWP AR2



Considering the trend in the last 5 years Brazil may meet it economy wide target set for 2020. But targets in specific sectors are far away



# CTI Scenario Brazilian Emissions 2030





<http://seeg.global>