



MALAYSIAN GREEN TECHNOLOGY  
AND CLIMATE CHANGE CENTRE

# Topic: Carbon Neutral Initiatives for Malaysia

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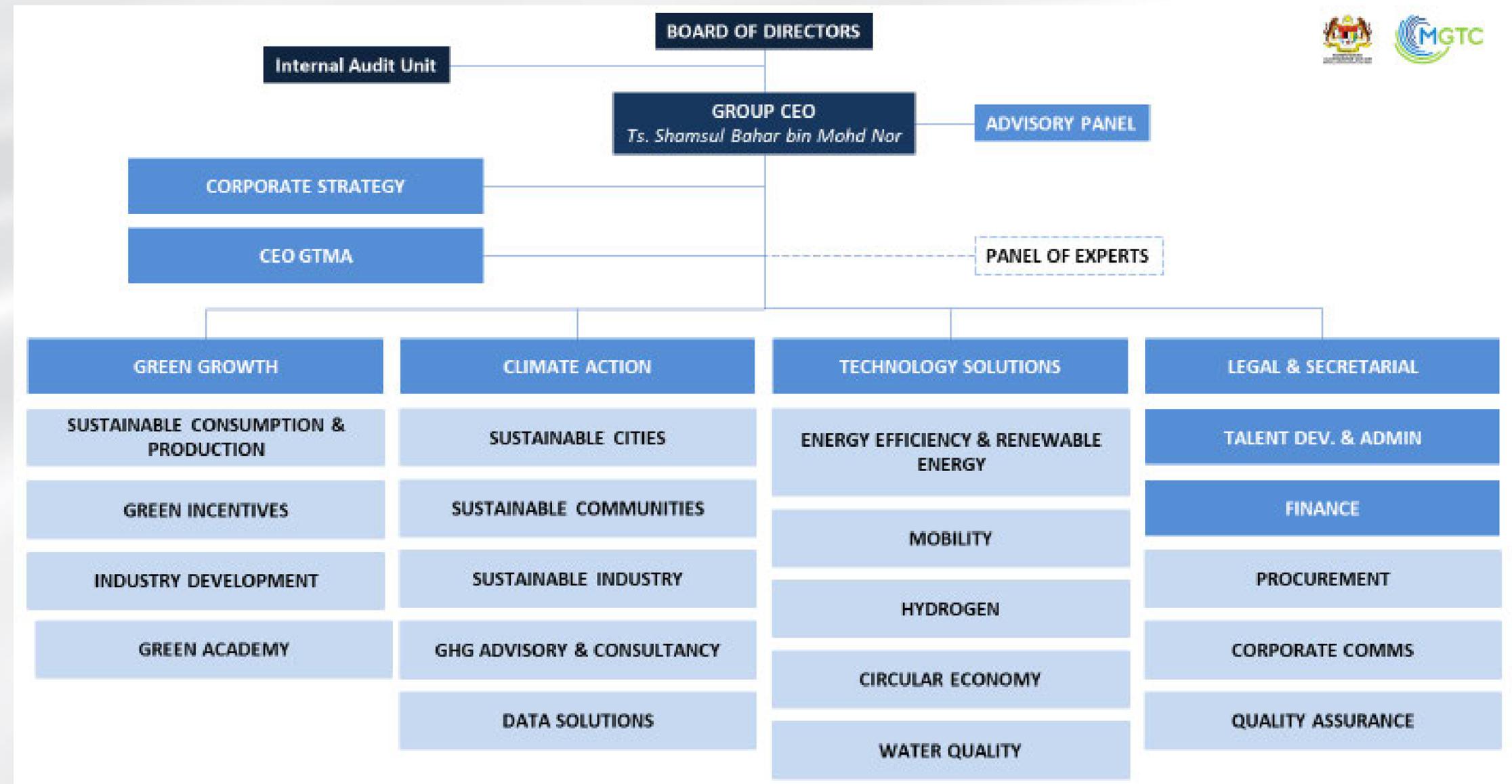
# MGTC Introduction



MALAYSIAN GREEN TECHNOLOGY AND CLIMATE CHANGE CENTRE

## 3-key roles

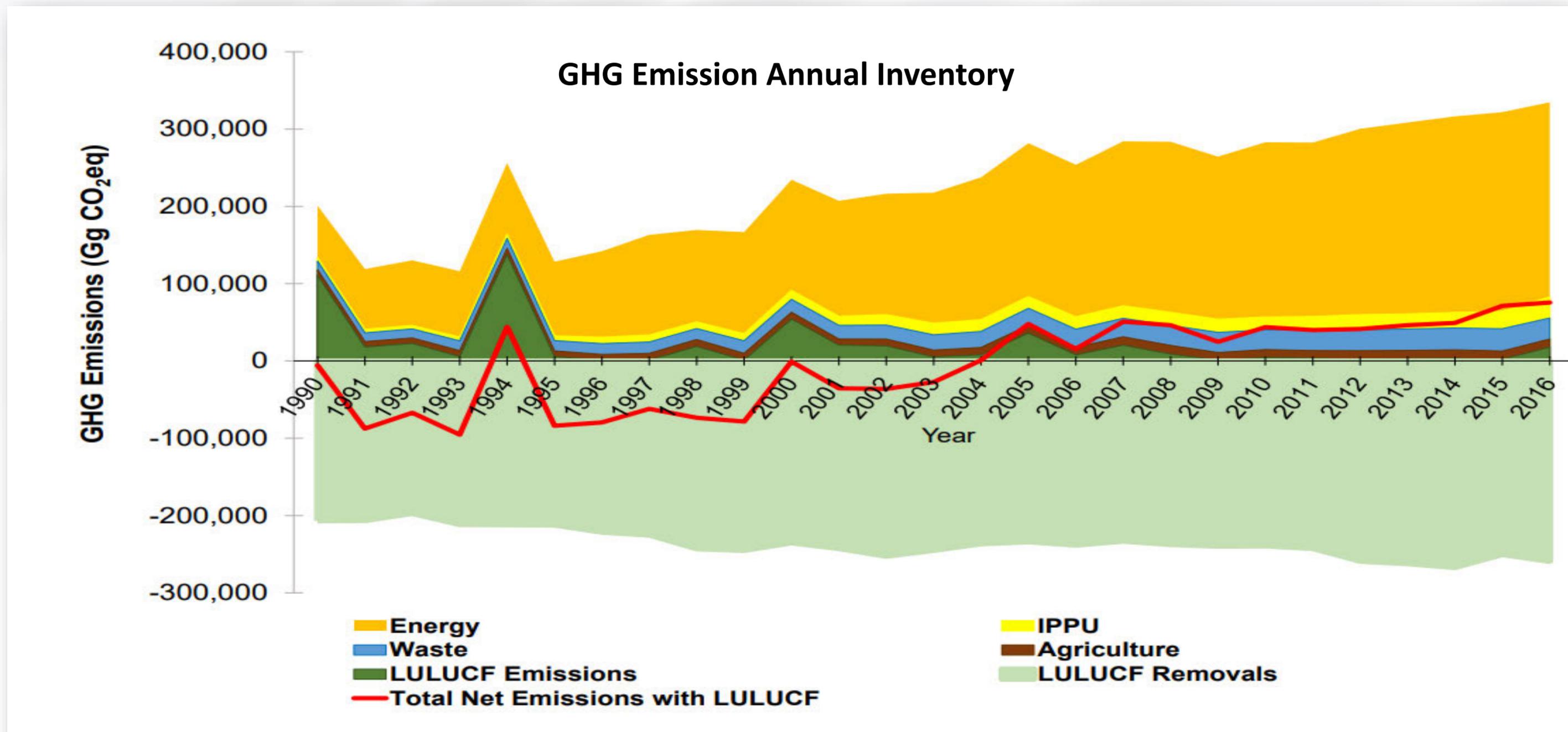
- Mainstreaming the **Green Economy** through green product and service expansion programs such as the **MyHIJAU Mark Certification Program**. The **Green Technology Financing Scheme (GTFS)** & **Green Technology Investment Tax Exemption (GITE)** as well as training and human capital development schemes.
- **Drive climate change mitigation actions** such as advocacy for **energy efficiency and renewable energy, low carbon urban programs and low carbon mobility**
- **Cultivate a green lifestyle** through publicity and awareness programs in fostering cooperation between the government and private sectors in the global-scale platform such as International Greentech and Eco Products Exhibition and Conference Malaysia (IGEM) program and other public programs physically or through social media.



# Malaysia NDC

2030: Reduce GHG emissions intensity of GDP by 45% of 2005 levels

2050: Net-zero GHG emissions



Source: BUR3, 2020

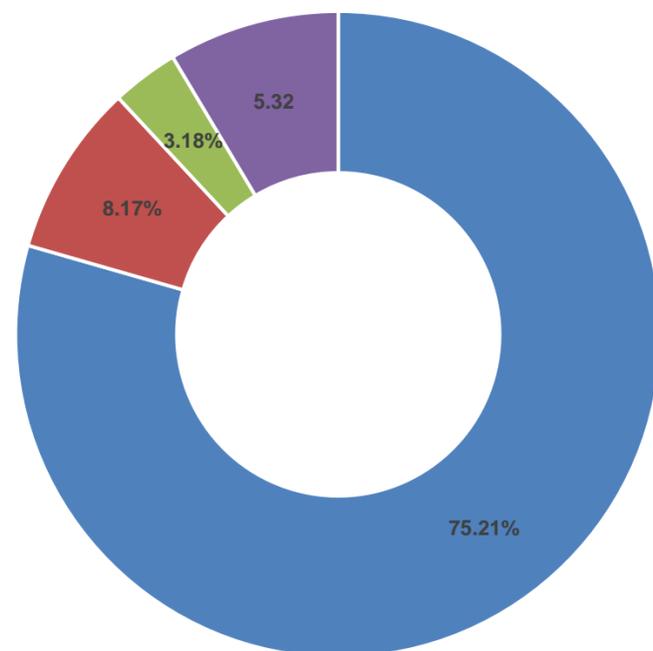
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# Malaysia's Total Emissions



**316,833.23 Gg CO<sub>2</sub>eq**

Total GHG emission for 2016



Key Categories of GHG Emissions for 2016, without LULUCF Emissions

<b>Energy</b>	1. Energy Industries - Solid Fuels	31.1%
<b>Energy</b>	2. Energy Industries - Gaseous Fuels	48.7%
<b>Energy</b>	3. Manufacturing Industries and Construction - Liquid Fuels	61.4%
<b>Energy</b>	4. Road Transportation	68.9%
<b>Energy</b>	5. Manufacturing Industries and Construction - Gaseous Fuels	73.0%
<b>Energy</b>	6. Energy Industries - Liquid Fuels	76.5%
<b>IPPU</b>	7. Other Process Use of Carbonates - Limestone and Dolomite	79.6%
<b>Waste</b>	8. Industrial Wastewater Treatment and Discharge	82.7%
<b>Waste</b>	9. Solid Waste Disposal	85.4%
<b>Energy</b>	10. Fugitive Emissions from Fuels - Natural Gas	88.0%
<b>IPPU</b>	11. Aluminium Production - PFC-14 emissions	89.8%
<b>IPPU</b>	12. Aluminium Production - CO <sub>2</sub> emissions	90.8%
<b>AFOLu - Agriculture</b>	13. Direct N <sub>2</sub> O Emissions from Managed Soils	91.5%
<b>IPPU</b>	14. Photovoltaics	92.2%
<b>Energy</b>	15. Fugitive Emissions from Fuels - Oil	92.8%
<b>IPPU</b>	16. Cement Production	93.3%
<b>Energy</b>	17. Other Sectors - Liquid Fuels	93.8%
<b>Waste</b>	18. Domestic Wastewater Treatment and Discharge	94.2%
<b>AFOLU - Agriculture</b>	19. Enteric Fermentation	94.6%
<b>IPPU</b>	20. Integrated Circuit or Semiconductor	95.0%

**88.0%**  
Cumulative  
of total  
emissions

# The Energy Sector

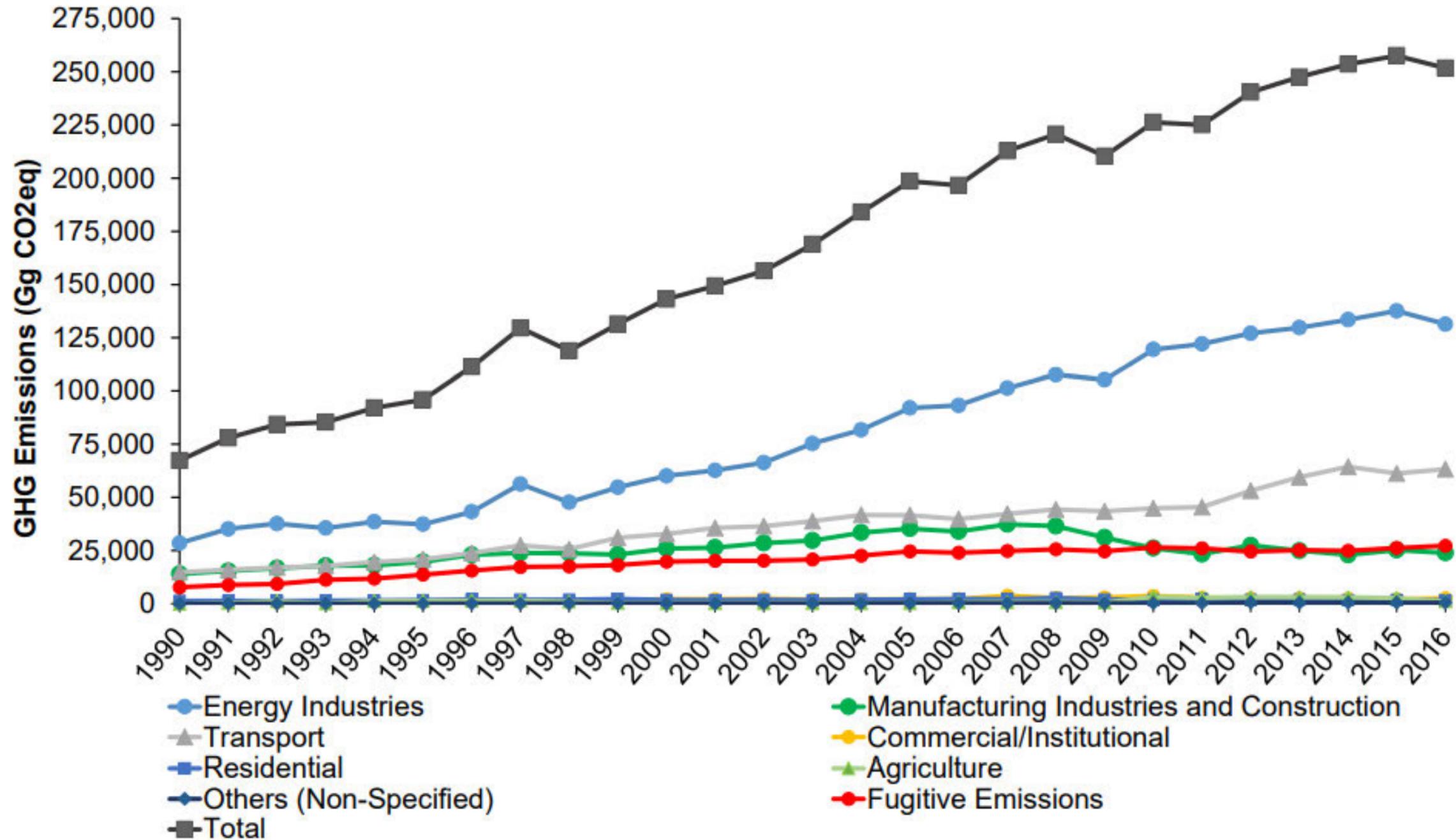
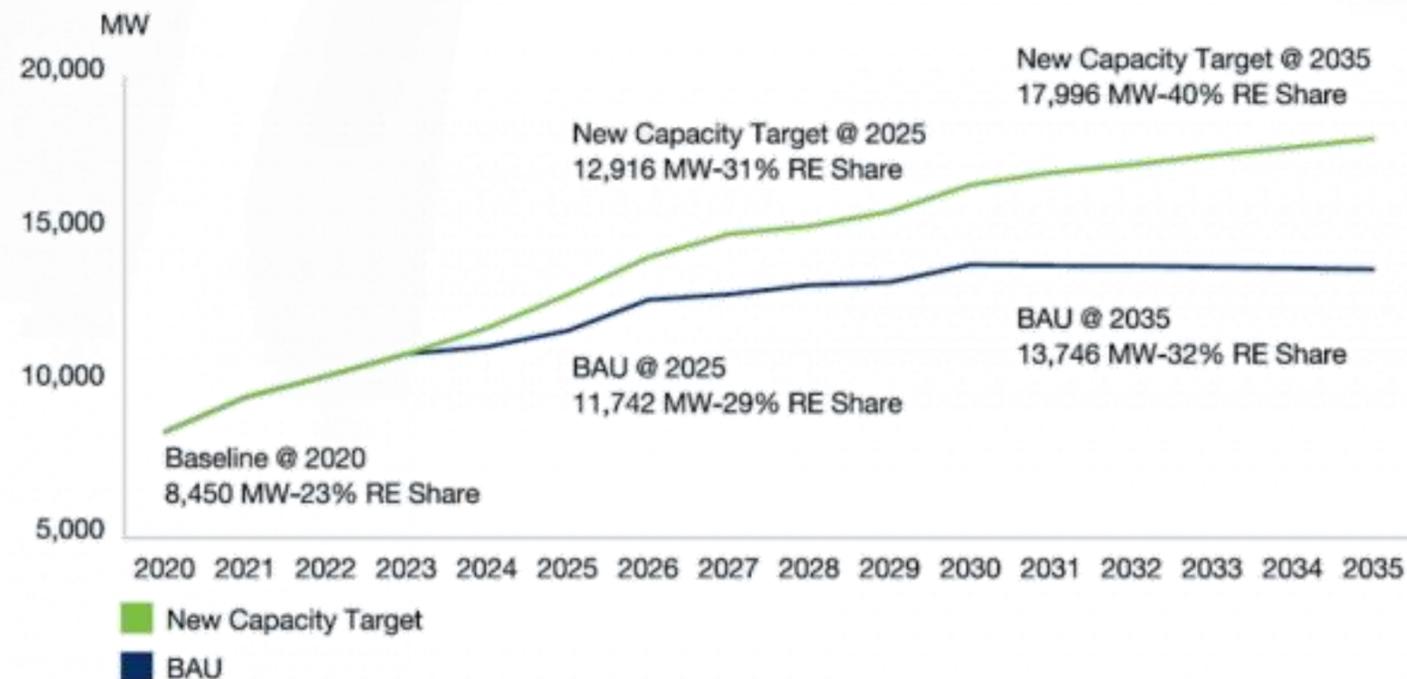
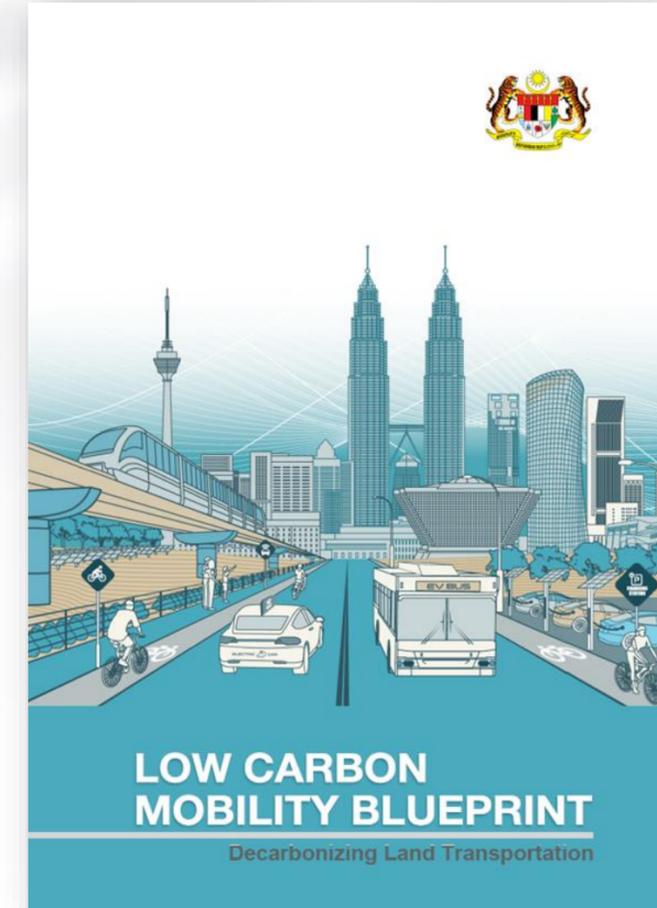
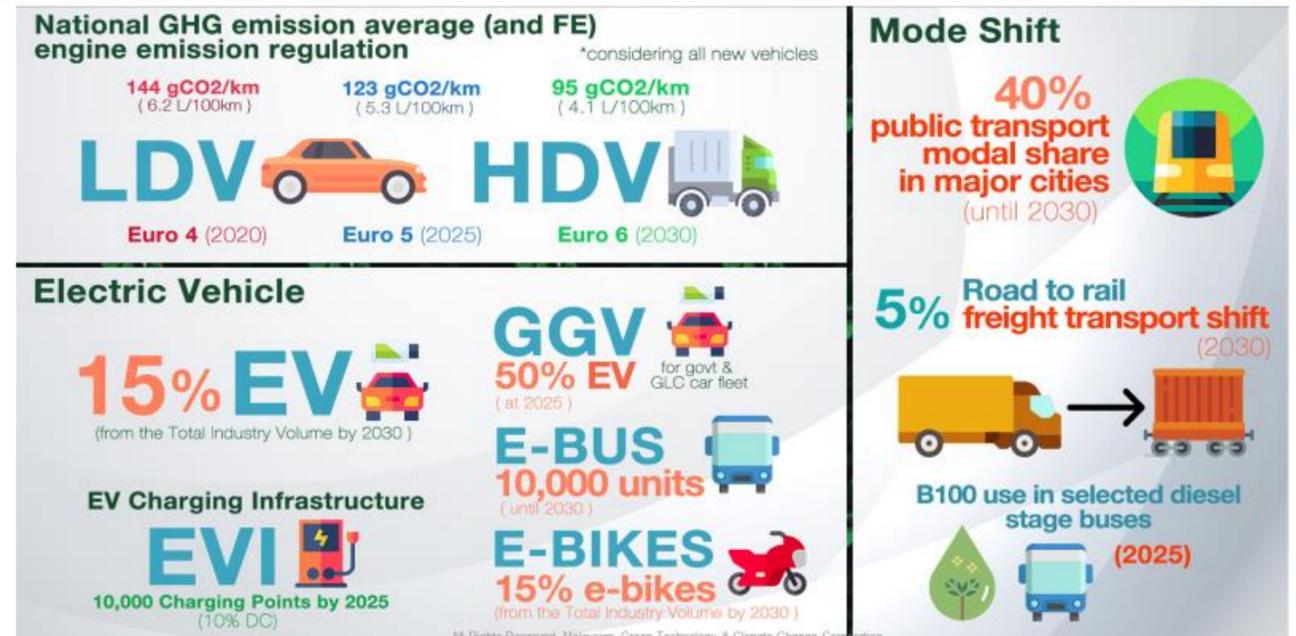


Figure 2.6: Emissions Time Series from 1990 to 2016 for Energy Sector

# Related Policies



## LCMB Key Targets



# TRENDS IN MALAYSIA



## TNB SETS NET ZERO EMISSIONS ASPIRATION BY 2050

- Adopts sustainability pathway to reduce emission intensity by 35% and halve coal generation capacity by 2035
- Gradual recovery of 1HFY2021 financial performance on increased economic activity and recovery of industrial sector demand

Tenaga Nasional Berhad (TNB) announced its sustainability pathway with an aspiration to achieve net zero emissions by 2050, in a bold move towards decarbonisation and Renewable Energy (RE).

*Tenaga Nasional*

*([https://www.tnb.com.my/assets/quarterly\\_results/Press\\_Release\\_2QFY21.pdf](https://www.tnb.com.my/assets/quarterly_results/Press_Release_2QFY21.pdf))*



“We are making this commitment (Net Zero Carbon Emissions (NZCE) by 2050) to make a positive change — not only to ride the energy transition — but because a fundamental shift is needed and the organisation wants to be part of the solution, for the world that yearns for a path towards a more sustainable future.”

*Tengku Muhammad Taufik*

*President & Group CEO, PETRONAS*

*(Source: [www.petronas.com/sustainability](http://www.petronas.com/sustainability))*

# TRENDS IN MALAYSIA



Bursa Malaysia aims to become carbon neutral by 2022 and achieve net zero emissions by 2050.

One of their planned initiatives is to offset emissions from electricity consumption, employee travel to work and paper consumption, and other relevant emission sources beginning next year. This will be accomplished by supporting nature-based solutions that remove carbon from the atmosphere.

*Bursa Malaysia*

*(<https://focusmalaysia.my/how-bursa-malaysia-commits-to-become-a-carbon-neutral-exchange/>)*

“Our deliverables in the area of ESG follows through from our sustainability journey taken over the years, including our **financing commitments of ‘No Deforestation, No New Peat and No Exploitation’ (NDPE)**, not providing financing to black-listed activities deemed not in line with the Group’s core values and **no financing of new coal activities** while transitioning together with existing borrowers to achieve sustainable renewable energy mix over the medium- to long-term.”

*Datuk Abdul Farid Alias*

*Group President & CEO*

*(Source: Maybank Newsroom 2021)*



# Thank You

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