



Vol.6

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CLEAN AIR

A vibrant blue sky with scattered white clouds. At the top, the words "CLEAN AIR" are written in large, white, fluffy letters that resemble clouds. A bright sunburst effect is visible in the lower right quadrant, with rays of light extending upwards. The bottom of the image is a solid green horizontal bar.

# **TYCA Asian Vision 2040**

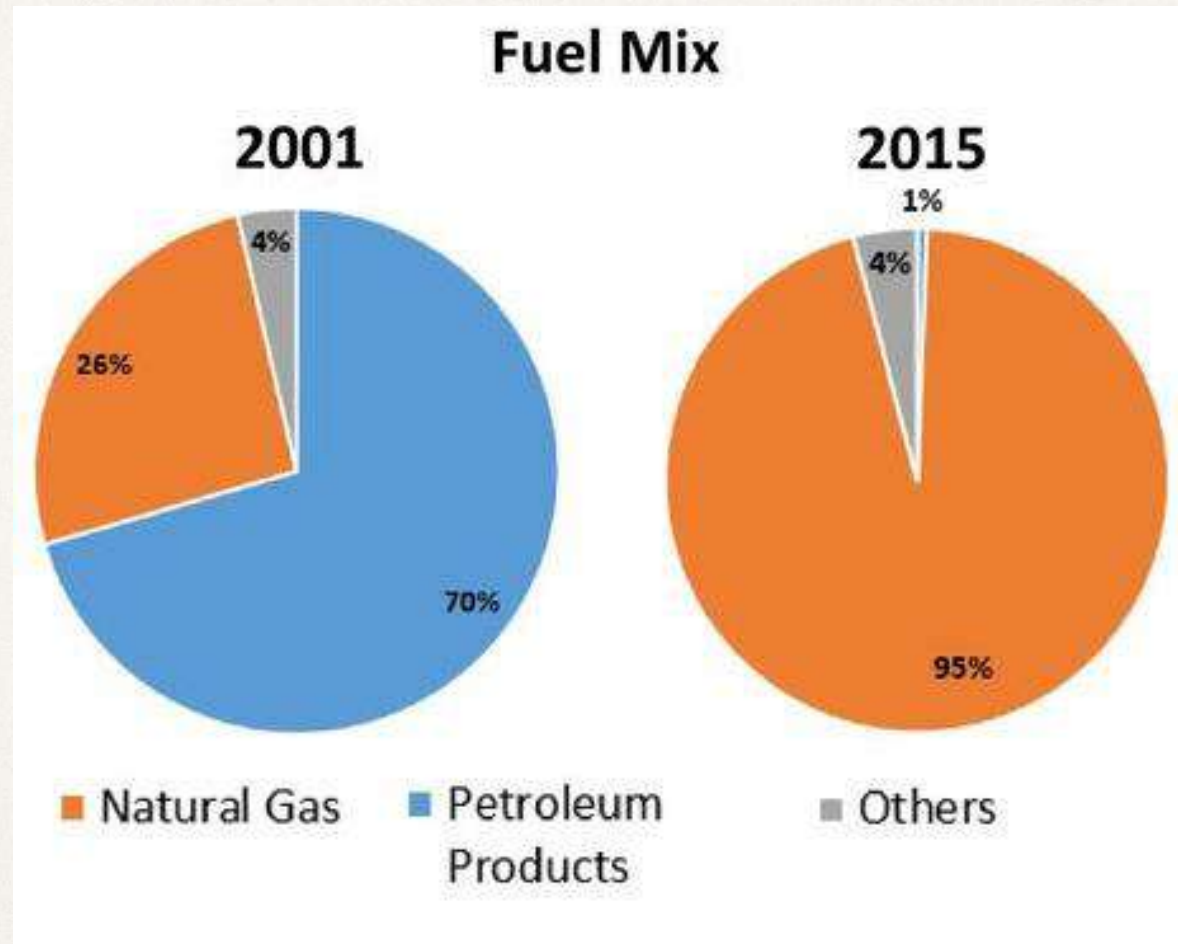
*70% reduction of CO2 emissions from 2019 to provide a good quality of life for future generations.*



# Related SDGs

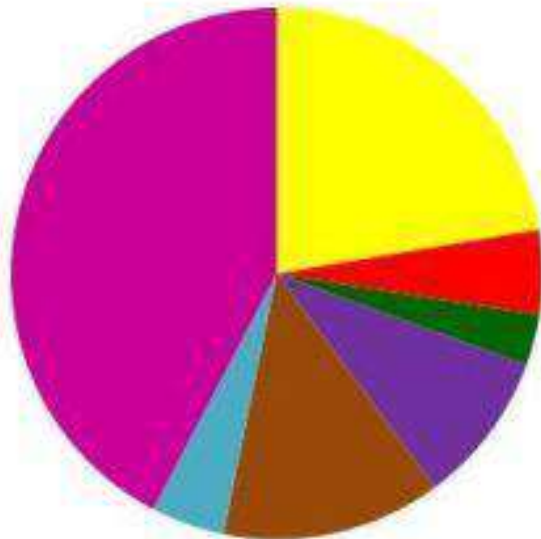


# Current Issues: Singapore



# Current Issues: Indonesia

***GHG Global Emissions Including LUCF 2010  
(48.6 Gigatons of CO<sub>2</sub>)***



China 22%

India 5%

Brazil 3%

EU-28 9%

United States of America 13%

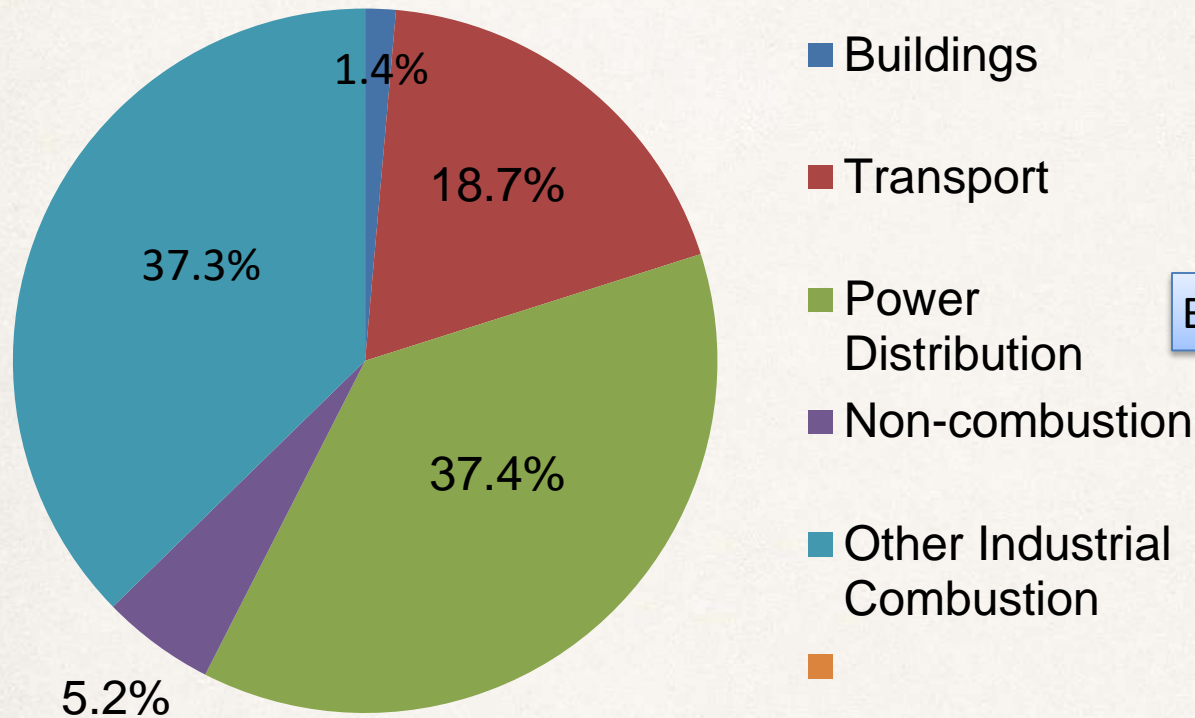
Indonesia 4%

ROW 42%

Source :World Resources Institute, 2011

# Current Issues: Brunei

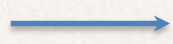
## Fossil Fuels CO2 Emission



Boost 10% of RE by 2035



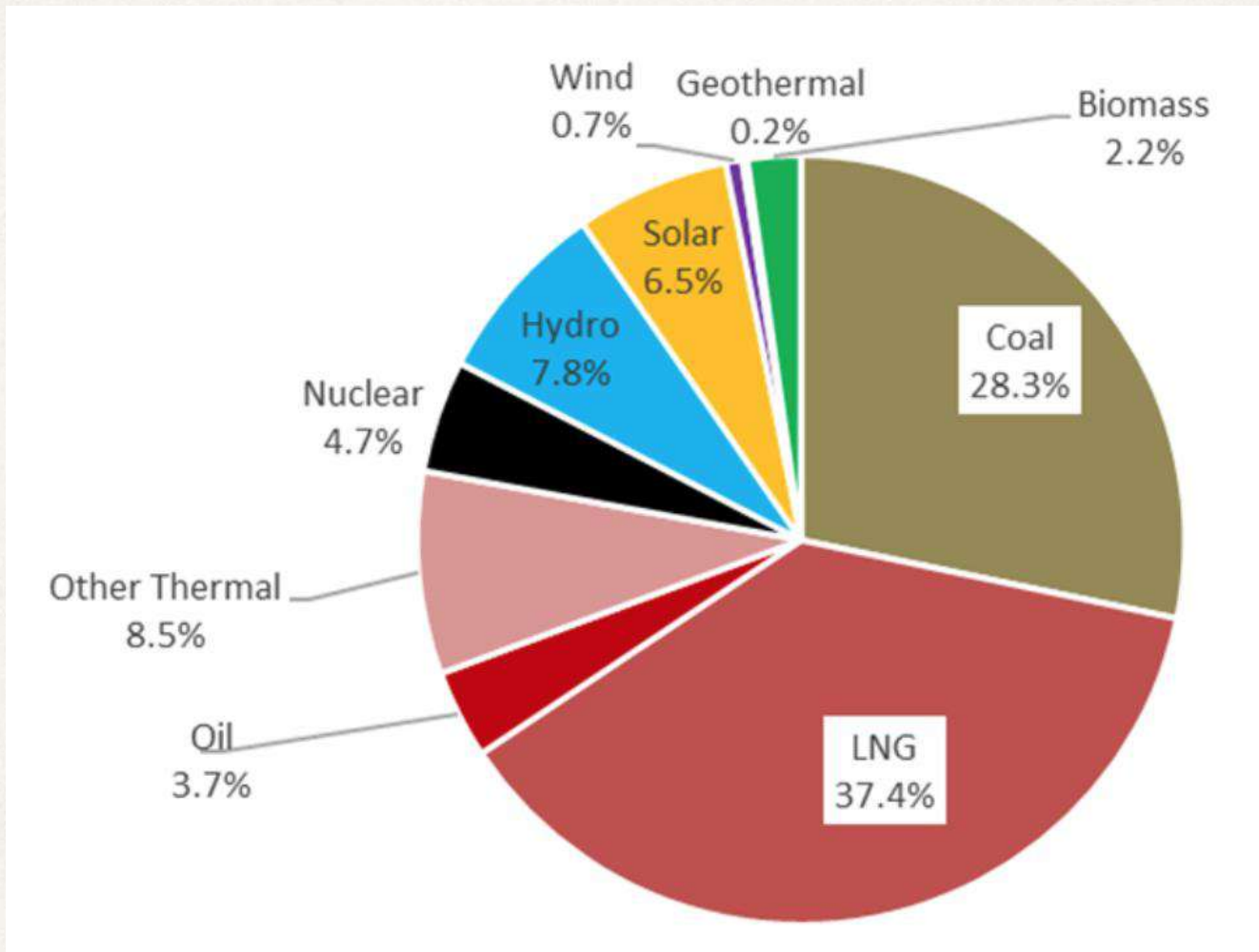
Main source of income is oil and gas



Low hydroelectric capability



# Current Issues: Japan



Smart Floating  
Farms

Artificial Island



70% reduction  
of CO2  
emissions

# Smart Floating Farms (SSF)



Solar Panels (solar energy)

Hydroponics  
(crop production)



Fish Farming



# Smart Floating Farms (SFF)

TOP	<ul style="list-style-type: none"><li>- Skylights bring natural lights to plants</li></ul>
MIDDLE	<ul style="list-style-type: none"><li>- Automated hydroponics</li><li>- Vertical farming concept</li></ul>
BOTTOM	<ul style="list-style-type: none"><li>- External wave protection</li><li>- Desalination</li><li>- Packaging</li></ul>

# How SFF reduces carbon emission



Increased surface area of agriculture on the sea and land  
Increasing the number of agriculture sites  
Increasing number of plants  
Reducing concentration of CO<sub>2</sub> in the atmosphere

# Artificial Island



Field of solar panels,  
hydroelectric systems  
and wind turbines

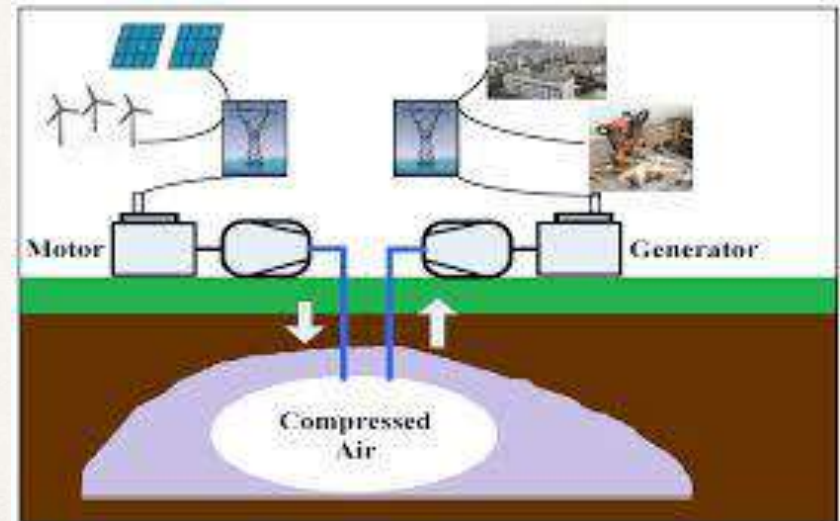
Decreases the need  
for usage of fossil  
fuels oil and gas as a  
source of energy

# Energy Storage

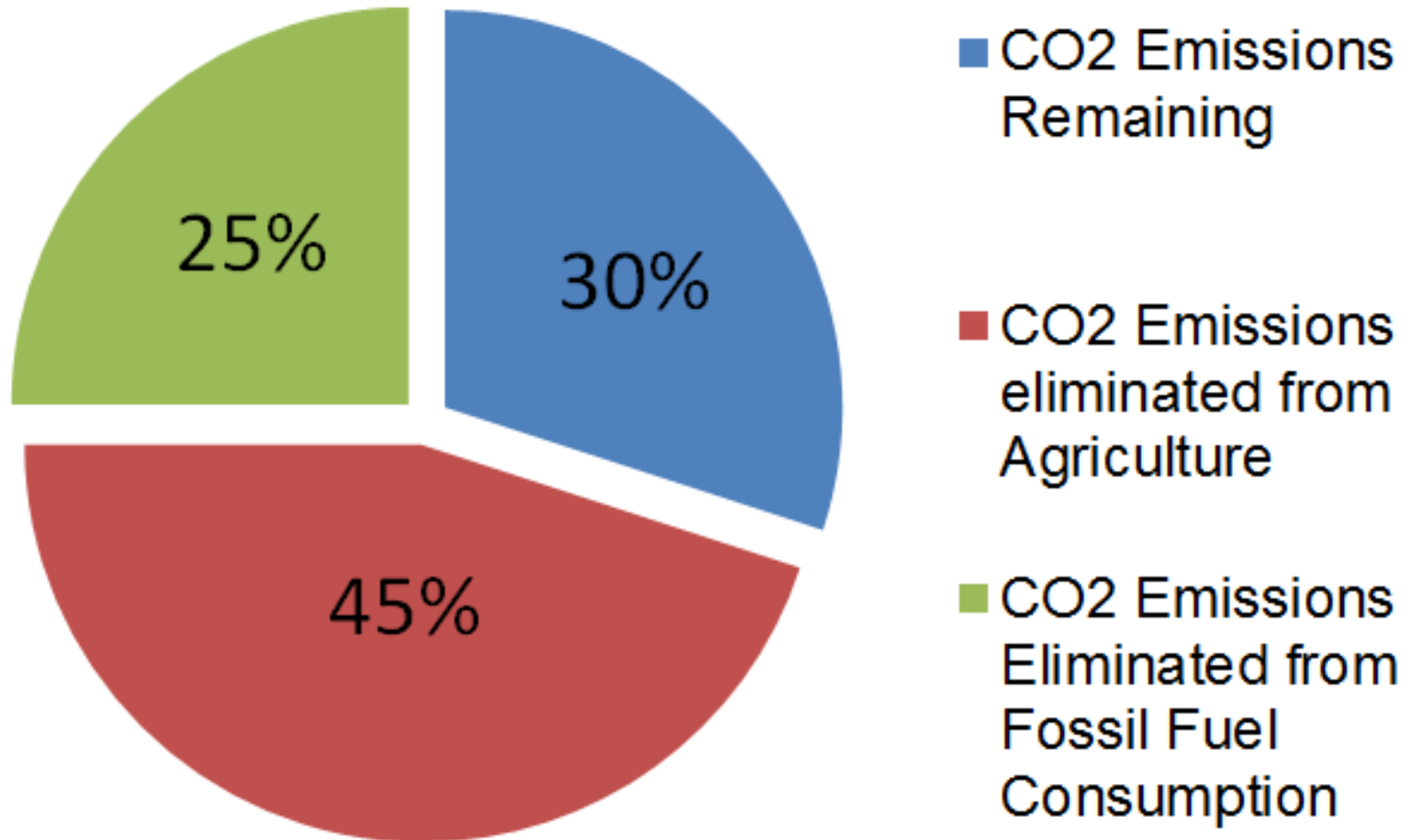


Batteries

Compressed Air



## Projected CO2 Emissions



Thank You

Terima Kasih

Arigato  
Gozaimashita