

# Growing the CO2 Value Chain: Technologies to Enable Net Zero



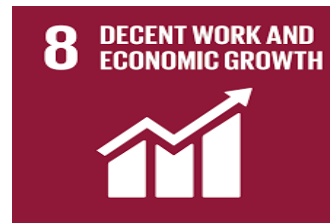
**M.K. Singh (Founder & CEO)**

- *Net Zero Think Introduction*
- *Climate Change & Impacts*
- *Carbon Budget*
- *CO2 Supply Chain (Scope 1, 2 & 3)*
- *Global Green House Gases by Sources*
- *Future Technologies to achieve Net Zero*

*NET ZERO THINK founded with the intention to decarbonising the business ecosystem; help private and government organizations to identify the long-term climate risks, become net-zero and move towards achieving long term sustainability.*

## *Value proposition aimed (2030)*

- ❖ *GHG Emission reduction potential >1Gtonn*
- ❖ *Infrastructure/asset damage savings >US\$ 100Bn*
- ❖ *Indirect Employment Creation Potential >40,000nos*
- ❖ *Addressing the need of UN SDGs*



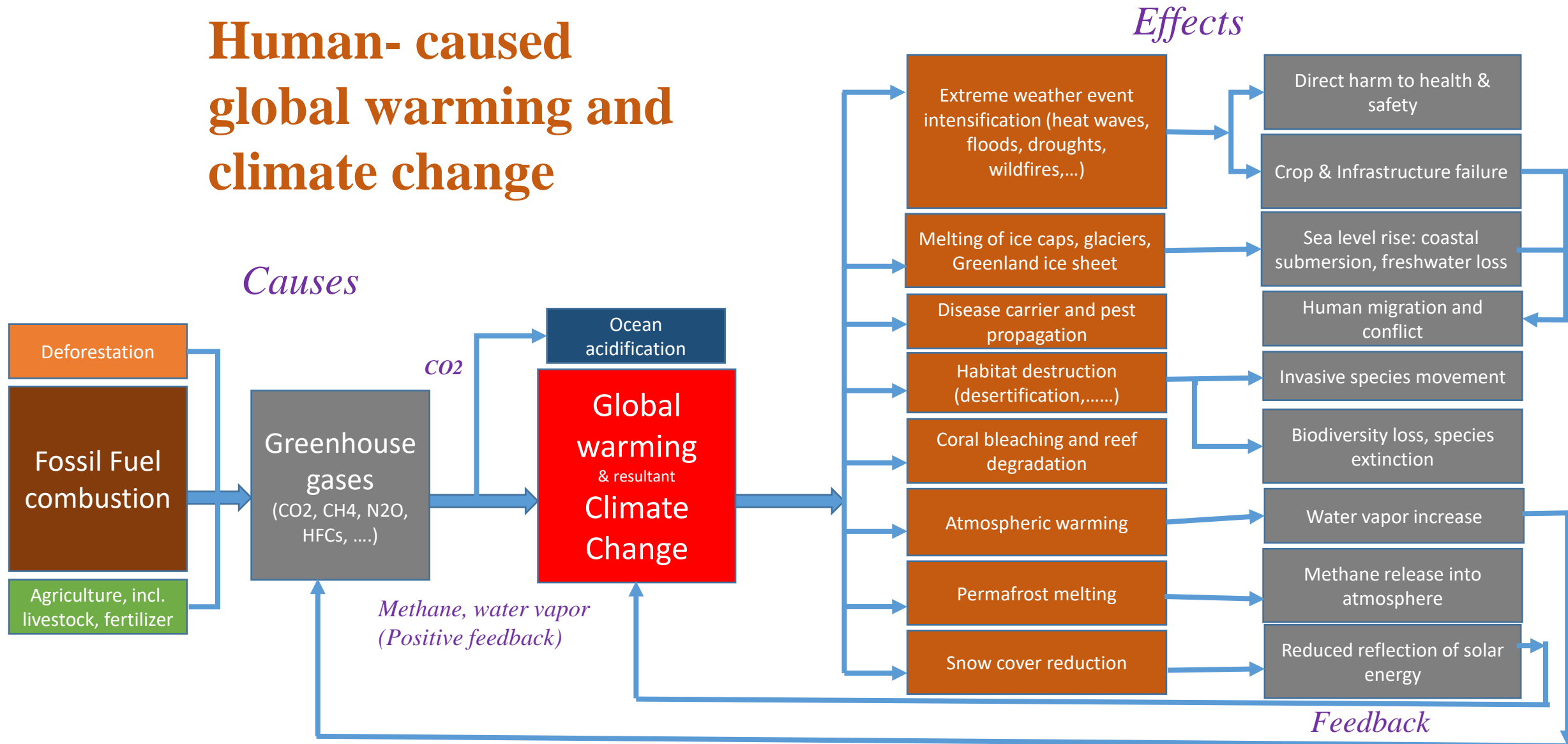
## NZT services and solutions are focussed on 3 Key Pillars of Decarbonisation



*NET ZERO THINK is providing innovative solutions in the areas of Climate Change Impact Assessment; Green House Gas Accounting; Scope 3 Emissions, Green Hydrogen & Storage, BRSR/GRI reporting and Carbon Credit Advisory.*

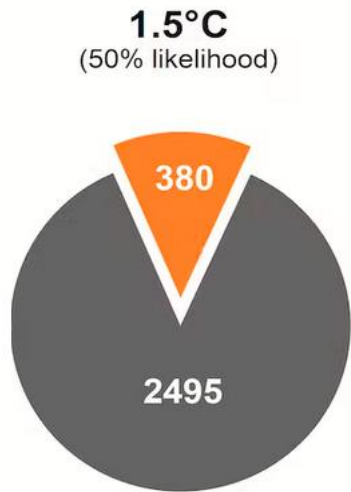
# Climate Change & Impacts

## Human- caused global warming and climate change

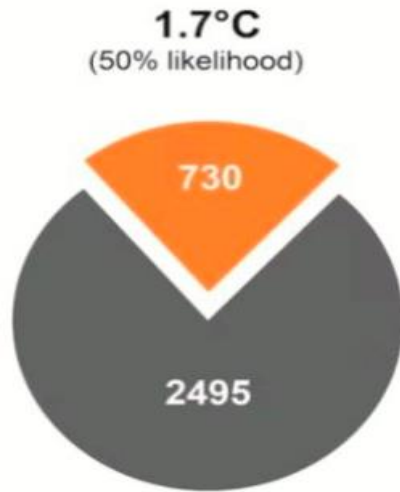


# Carbon Budget

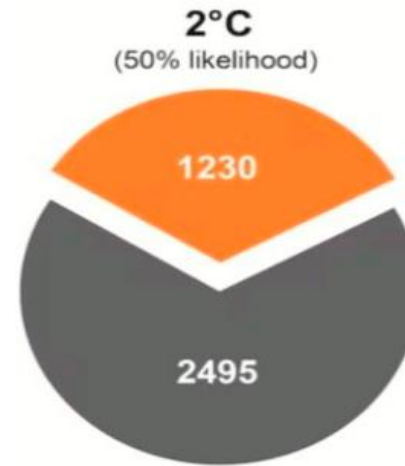
Gt CO<sub>2</sub> ■ Remaining ■ Consumed



Remaining ~ **9** Years



Remaining ~ **13** Years



Remaining ~ **30** Years

# CO2 Supply Chain

**HFC<sub>s</sub>**

GWP ~ (124 to 14800) CO<sub>2</sub>  
GHG <1%

**N<sub>2</sub>O**

GWP ~ 298 CO<sub>2</sub>  
GHG ~ 6%

**PFC<sub>s</sub>**

GWP ~ (7390-12200) CO<sub>2</sub>  
GHG <1%

**CO<sub>2</sub>**

GWP ~ 1  
GHG ~ 76%

**CH<sub>4</sub>**

GWP ~ 25 CO<sub>2</sub>  
GHG ~ 16%

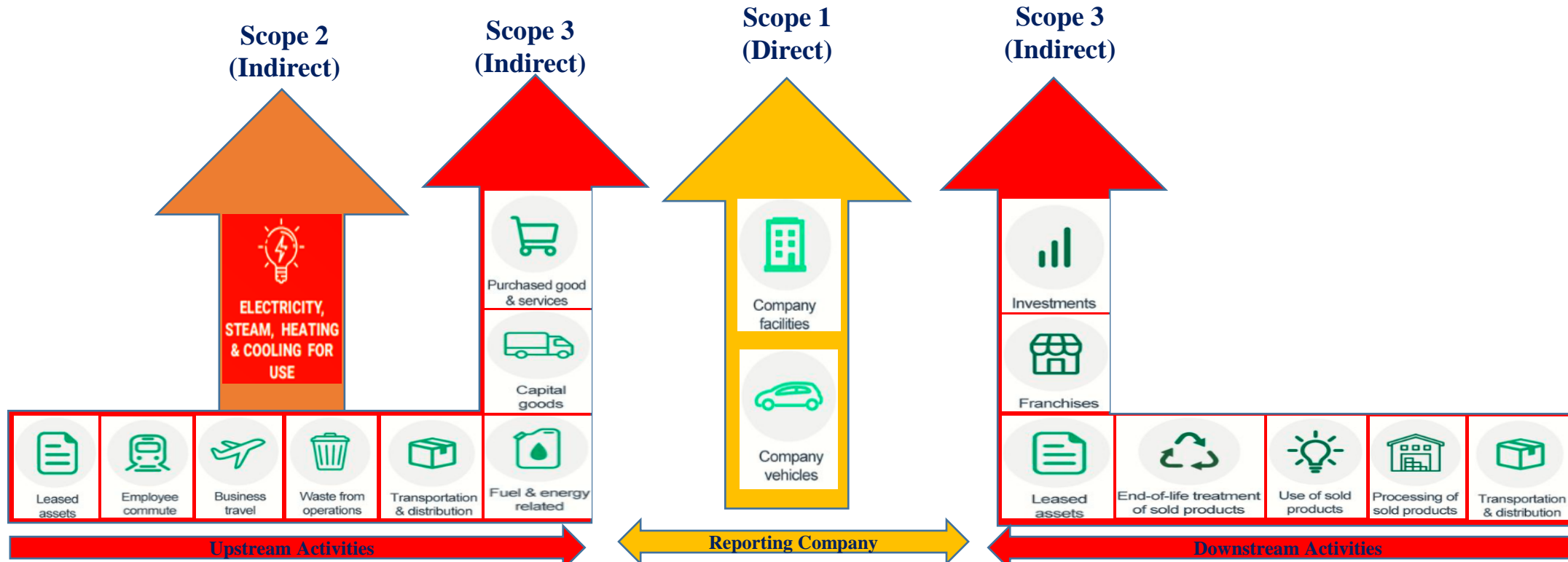
**SF<sub>6</sub>**

GWP ~ 22800 CO<sub>2</sub>  
GHG <1%

**NF<sub>3</sub>**

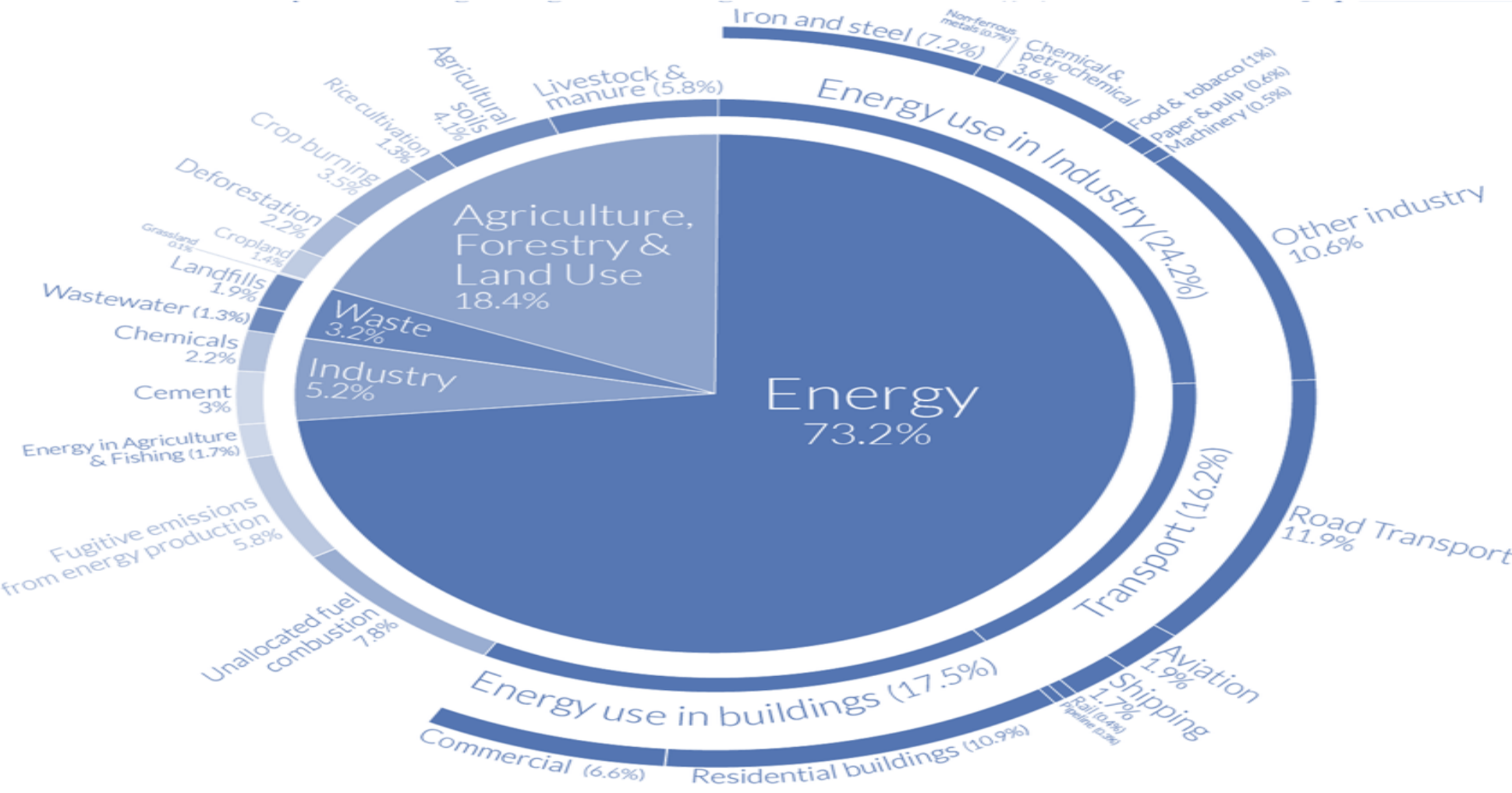
GWP ~ 17200 CO<sub>2</sub>  
GHG <1%

\*GWP- Global Warming Potential equivalent to CO<sub>2</sub>  
\* GHG- Green House Gas contribution





# Global Green House Gases by Sources





# FUTURE TECHNOLOGIES TO ACHIEVE NET ZERO

Five Group of Technologies could attract US \$2 Trillion of Capital per Year by 2025 and abate 40% of GHG emissions by 2050

## Electrification



- Electric-vehicle
- Battery-control software
- Efficient building system
- Industrial electrification

## Agriculture



- Zero Emission Farm Equipment
- Meat alternatives
- Methane Inhibitors
- Anaerobic Manure Processing
- Bioengineering

## Power Grid



- Long duration storage
- Advance controls
- Software & communications
- Vehicle to grid integration
- Building to grid integration
- Next Generation Nuclear
- High Efficiency Material

## Hydrogen



- Low cost production
- Road Transport Fuel
- Ammonia Production
- Steel Production
- Aviation Fuel

## Carbon Capture



- Pre & Post Combustion Capture Technology
- Direct Air Capture
- Bio Energy with Carbon Capture & Storage
- Biochar
- CO2 enriched concrete

## Annual Investment by 2025 and CO2 abatement per year by 2050 (1.5°C)

US \$ 700-1000 Bn  
5Gt/annum

US \$ 400-600 Bn  
10Gt/annum

US \$ 200-250 Bn  
5GT/annum

US \$ 100-150 Bn  
2.5Gt/annum

US \$ 10-50 Bn  
3Gt/annum

**“If Reaching ‘NET ZERO’ Is Your Ultimate Goal,  
We’re There To Make This Journey Memorable And Remarkable”.  
!! Let’s Save the Planet Together !!**

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