



# Policy Trends for Ozone & Climate Friendly Technologies

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Ozone2Climate Industry Roundtable 2019, 10 April 2019

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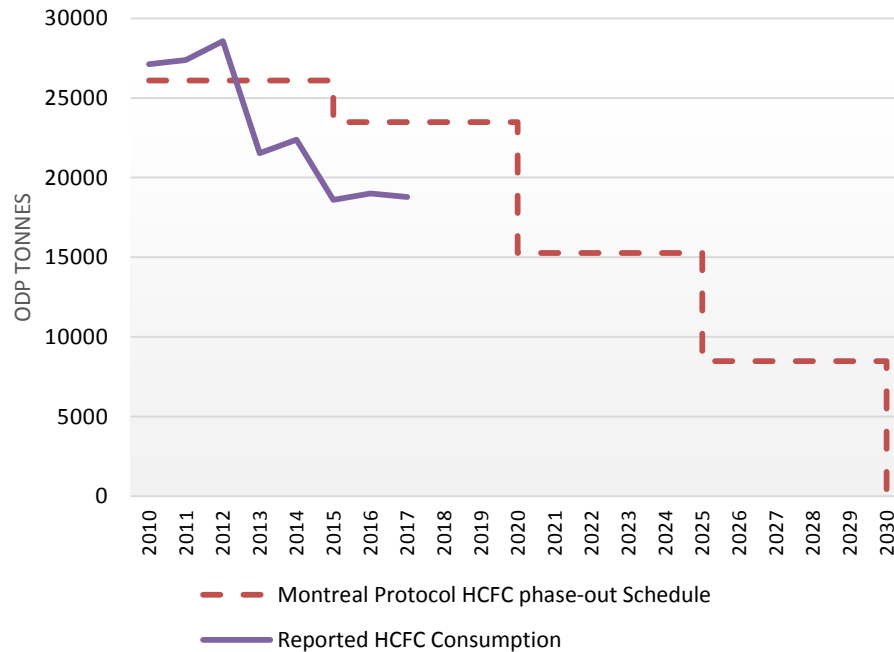
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# Impact of Montreal Protocol on Refrigerant Technologies

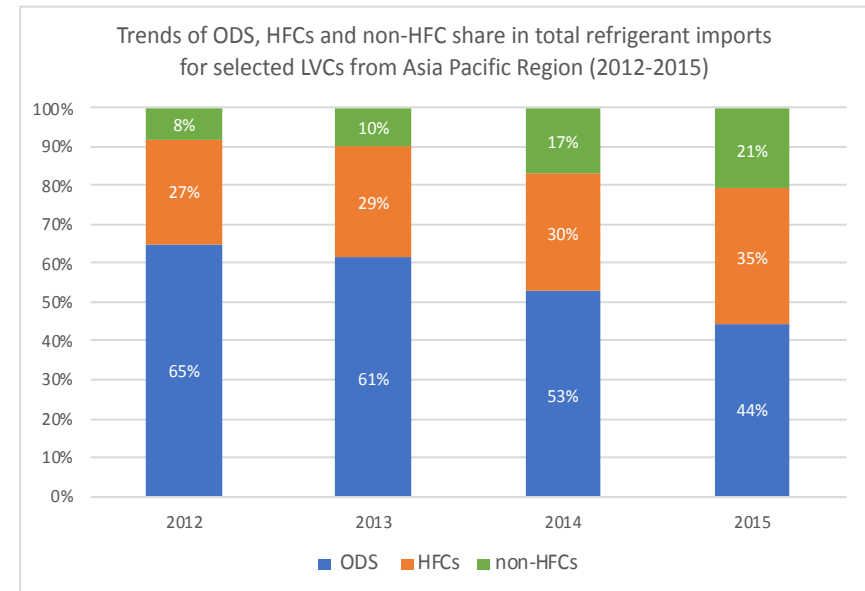
HCFC Consumption A5 parties in Asia Pacific Region



The Montreal Protocol is driving the phase-out of Ozone Depleting Substances.

Only 1% of the ODS remain to be phased out in ODP terms.

The use of ODS alternatives (mostly HFCs) is growing at meeting the rising demand for RAC equipment in developing countries.



*Trends from 12 LVC countries in South Asia and SEAP.  
Does not include China & India*

# Kigali Amendment driving policies for Ozone & Climate friendly Technologies

The Parties to the Montreal Protocol reached agreement at the 28<sup>th</sup> Meeting of the Parties on 15<sup>th</sup> October 2016 in Kigali, Rwanda to phase-down hydrofluorocarbons (HFCs)

Continues  
the historic  
legacy of  
the  
Montreal  
Protocol

It brings HFCs (commonly used alternatives to ozone depleting substances) which are non-ozone depleting but have high GWP to be phased down by 80% by 2045.



As of date, 69 parties have ratified the Kigali Amendment and it has officially entered into force as of 1 January 2019.

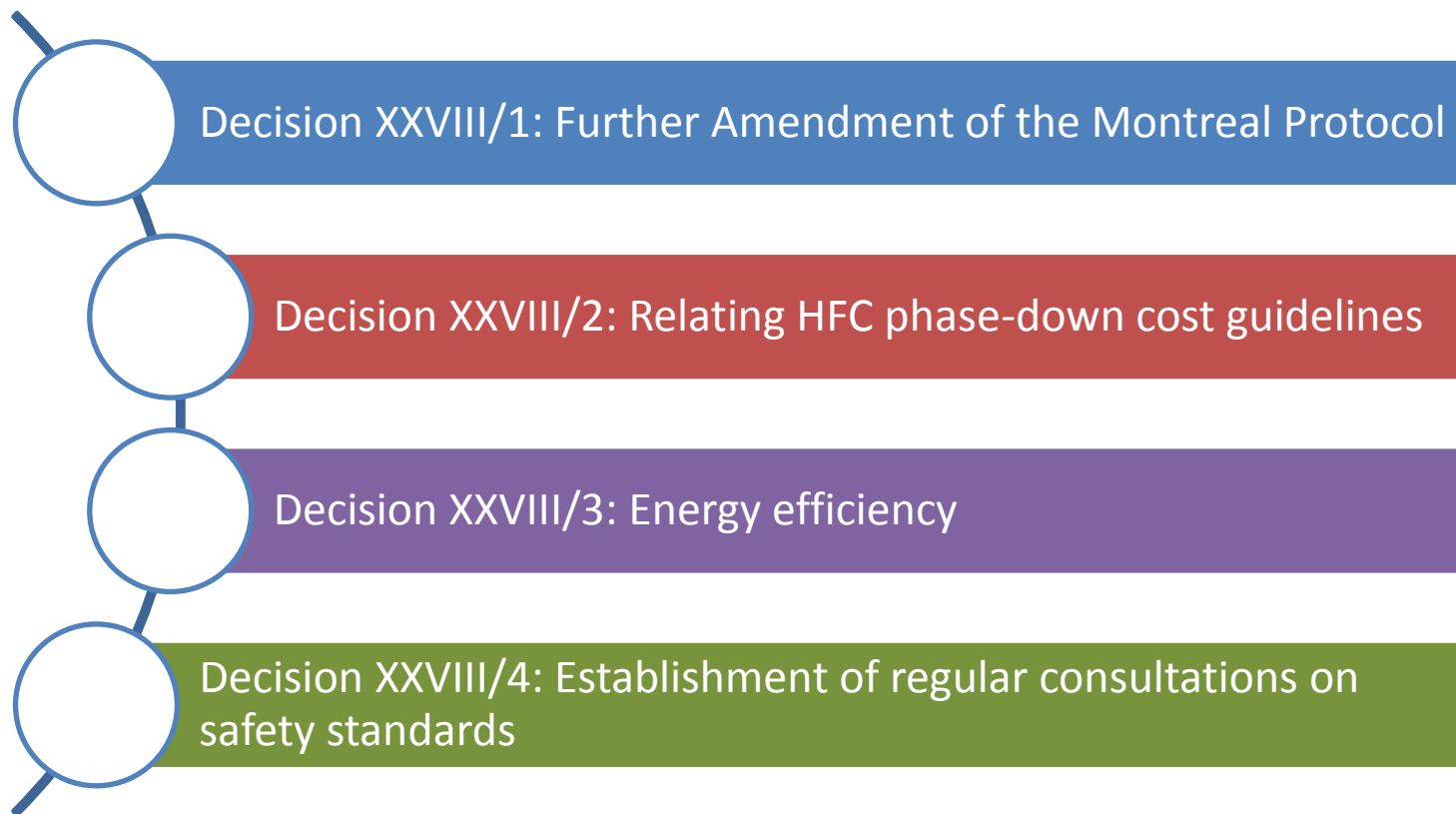
UN Environment is supporting countries for ratification develop a positive market signal for ozone & climate friendly technologies.

## Recent policy declarations are promoting Ozone & Climate Friendly Technologies

- As per the joint statement from the 20<sup>th</sup> China & EU summit in July 2018, China and EU will promote the universal ratification of Kigali Amendment.
- In March 2019, China and France made a joint statement in which both countries have committed to the promote ratification of Kigali Amendment and promote energy efficiency in the HVACR industry.
- India Cooling Action Plan was launched in March 2019, an umbrella policy framework to mainstream sustainable cooling in the country.
- The members states at the 4th UN Environment Assembly (UNEA) held in March 2019 has identified to embrace “clean cooling” to meet the growing demand for cooling with smart, accessible technologies that improve people’ s lives without harming the planet.
- The UNEA has identified energy efficient cold chain solutions as an important intervention for sustainable prevention of food loss and food waste.

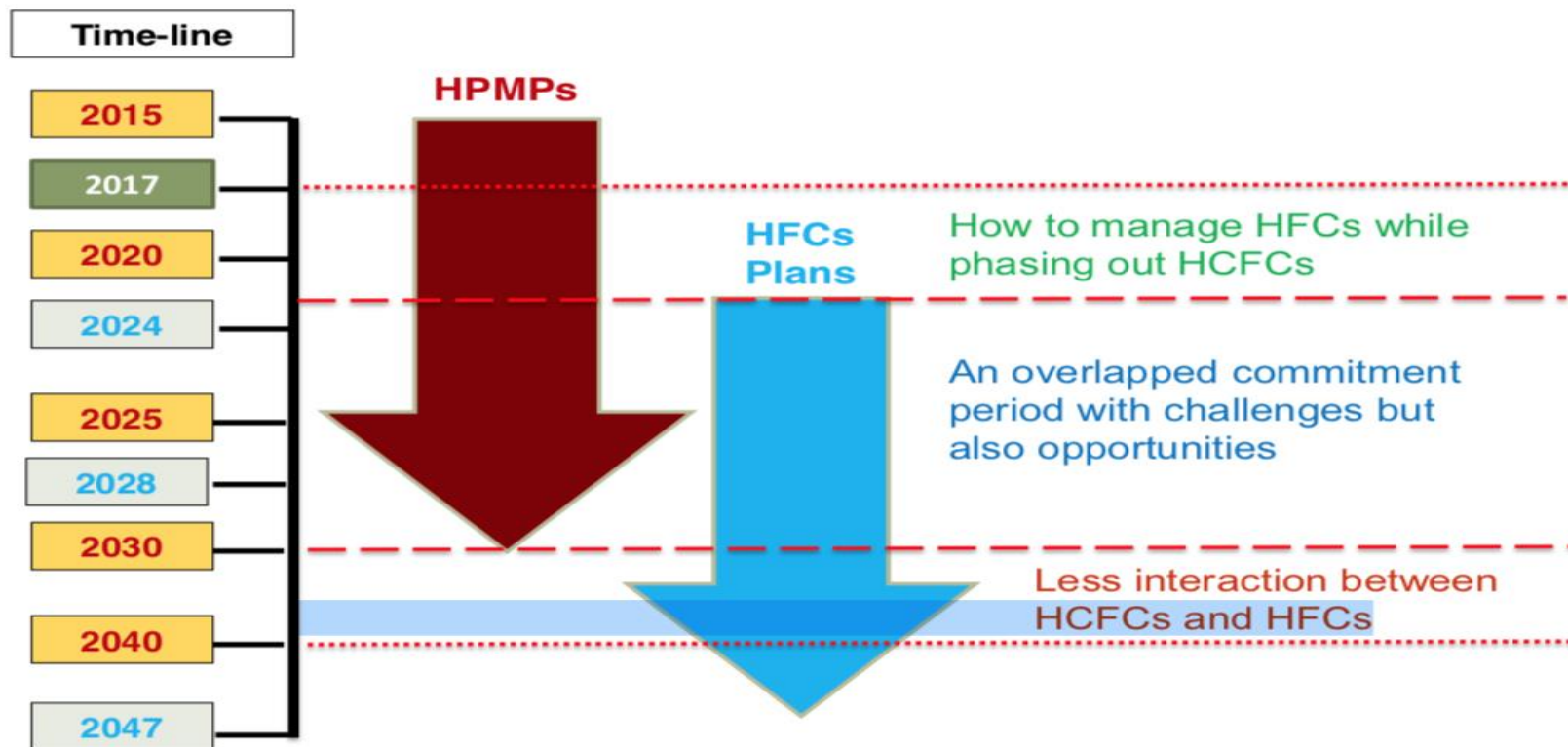


## Montreal Protocol Decisions promoting O2C technologies



**ExCom Decision 79/46 for Enabling Activity Projects to support A5 countries for ratification of Kigali Amendment and meet initial obligations.**

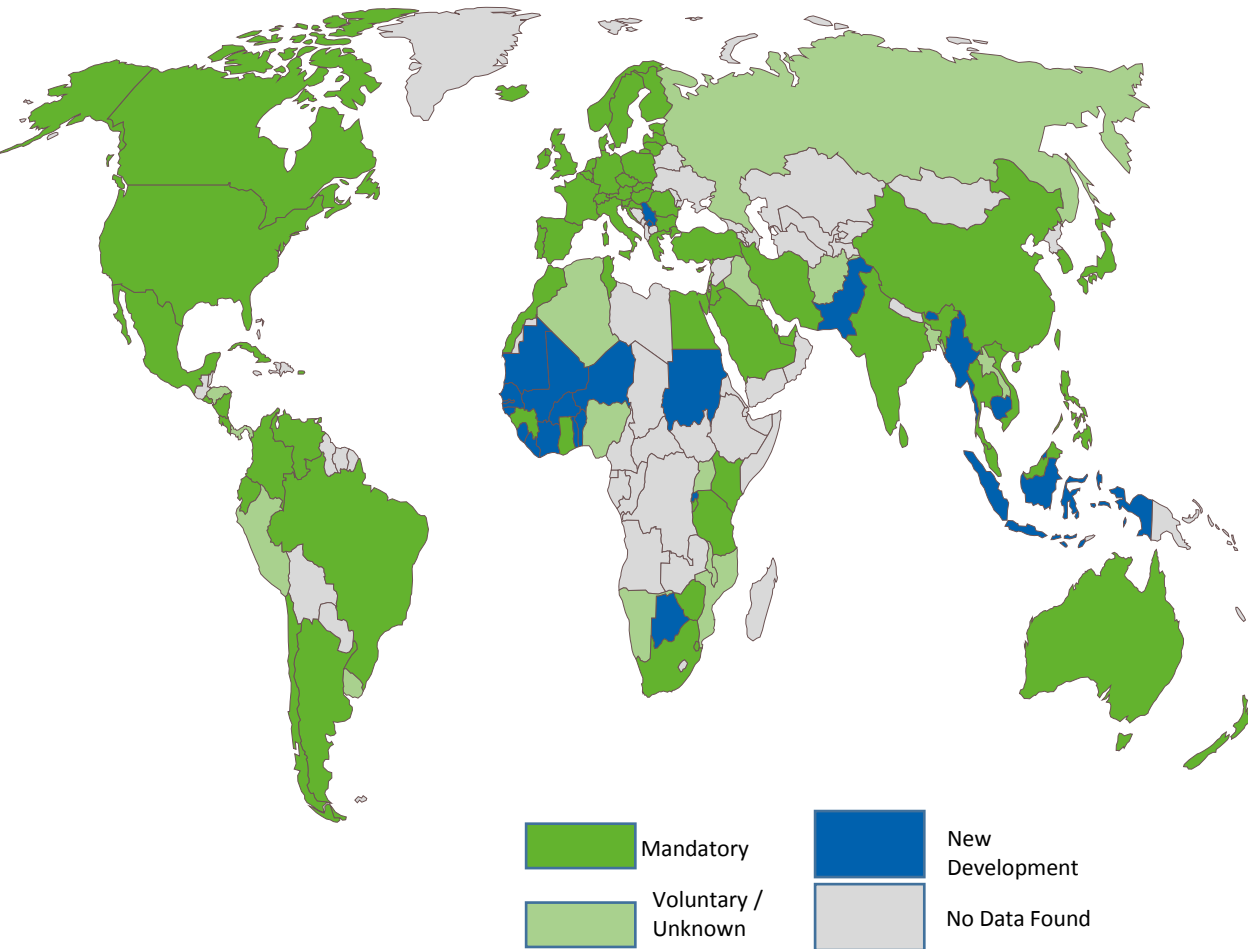
## HCFC phase-out & HFC phase-down obligations : Challenge & Opportunity for O2C technologies



Montreal Protocol recognizes the potential overlap between HCFC phase-out and HFC phase-down is analyzing of the implications of a parallel or integrated implementation. (ExCom decision 81/69)

# Energy Efficiency has become Important

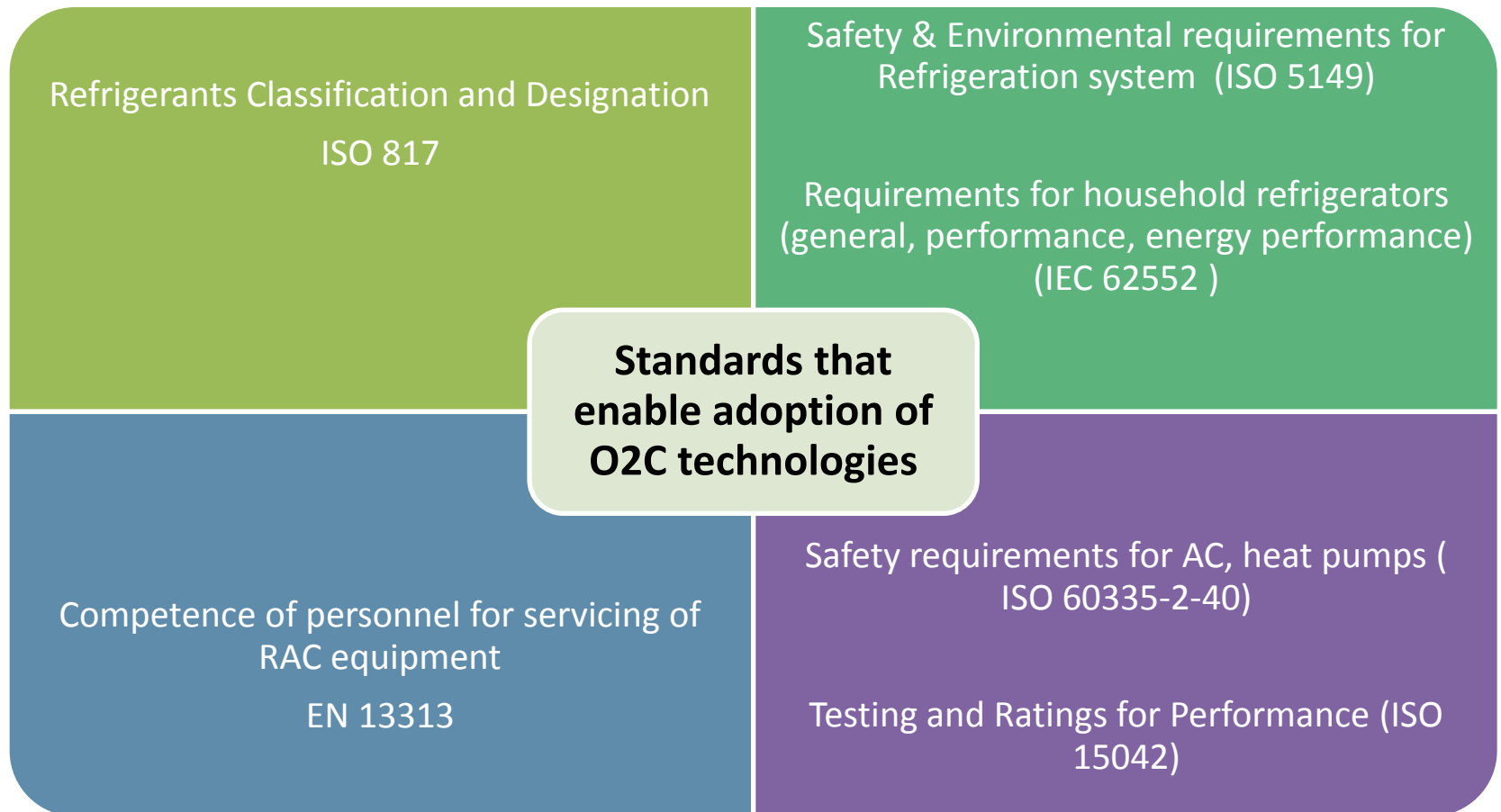
## Status of Energy Efficiency Standards & Labelling - ACs



- EE Standards are being adopted by governments of all major markets.
- Many countries are moving to high EE requirements while new alternatives enter into market.
- Industries & Policy makers will have to consider EE implications of low GWP technologies

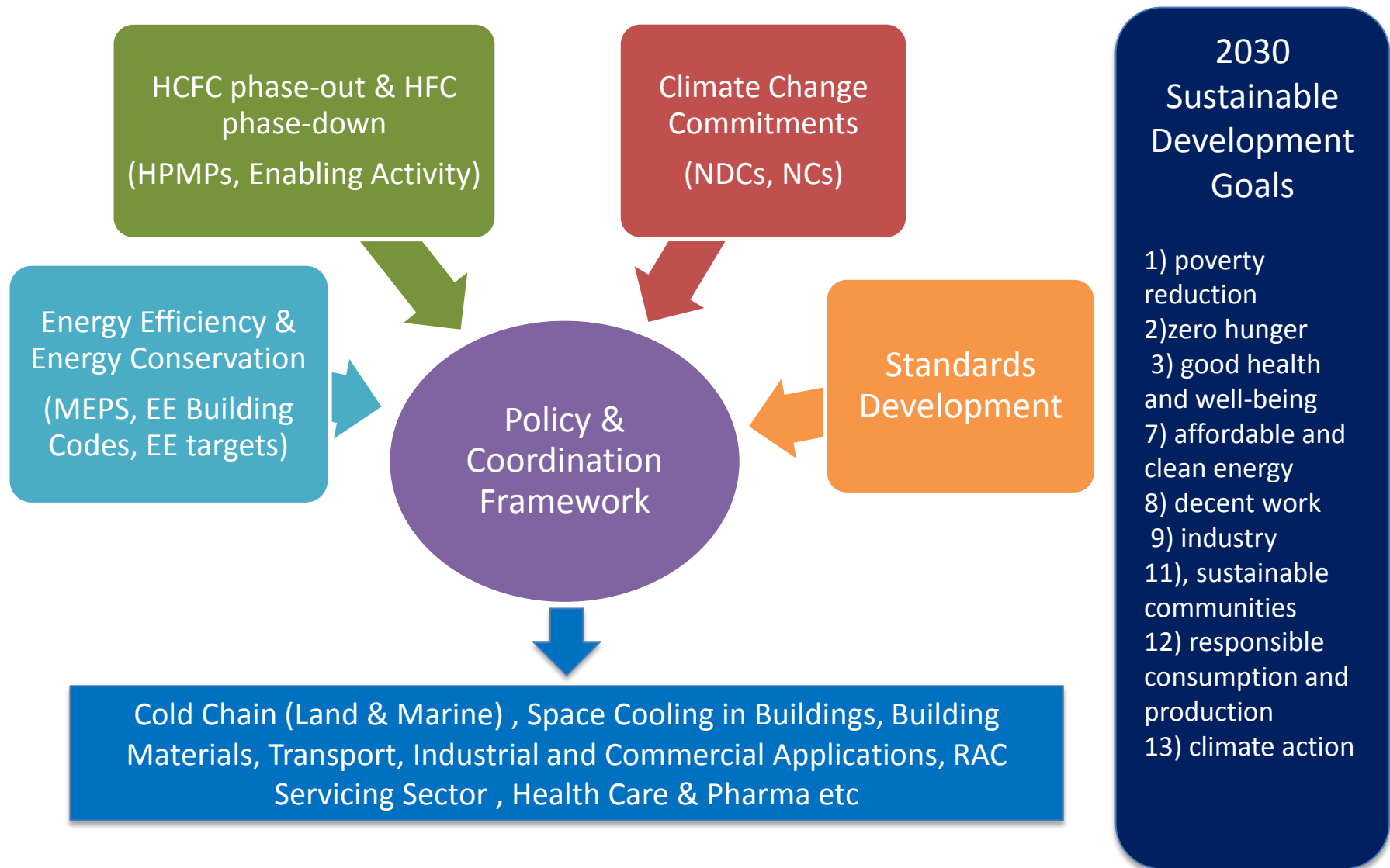
# Standards are evolving to promote new climate friendly technologies

**A5 countries have started adopting the standards for easier adoption of alternatives, some examples are below:**





## Need for Integrated Policy Approach is gathering attention



# Newly mapped stakeholders for integrated policy approach



## Policy challenges for Ozone & Climate Friendly Technologies

- ✓ Lack of enabling policies and market mechanisms that promote low GWP and energy efficient technologies. For example, Bulk Procurement of O2C technologies, Eco-Labeling Scheme (Blue Angel).
- ✓ Multiple government agencies need to be involved for integrated approach and the coordination is difficult.
- ✓ Multiple Technologies are available in the market, and lack of effective monitoring and control could undermine the adoption of Ozone & Climate friendly Technologies. For eg, mislabeling of products.
- ✓ Capacity of RAC servicing sector is low to handle alternative technologies and national training systems need to be updated for accelerating the adoption of these technologies.
- ✓ Understanding and Awareness on the Ozone-Climate-Energy synergies among key stakeholders.

Thank you

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