

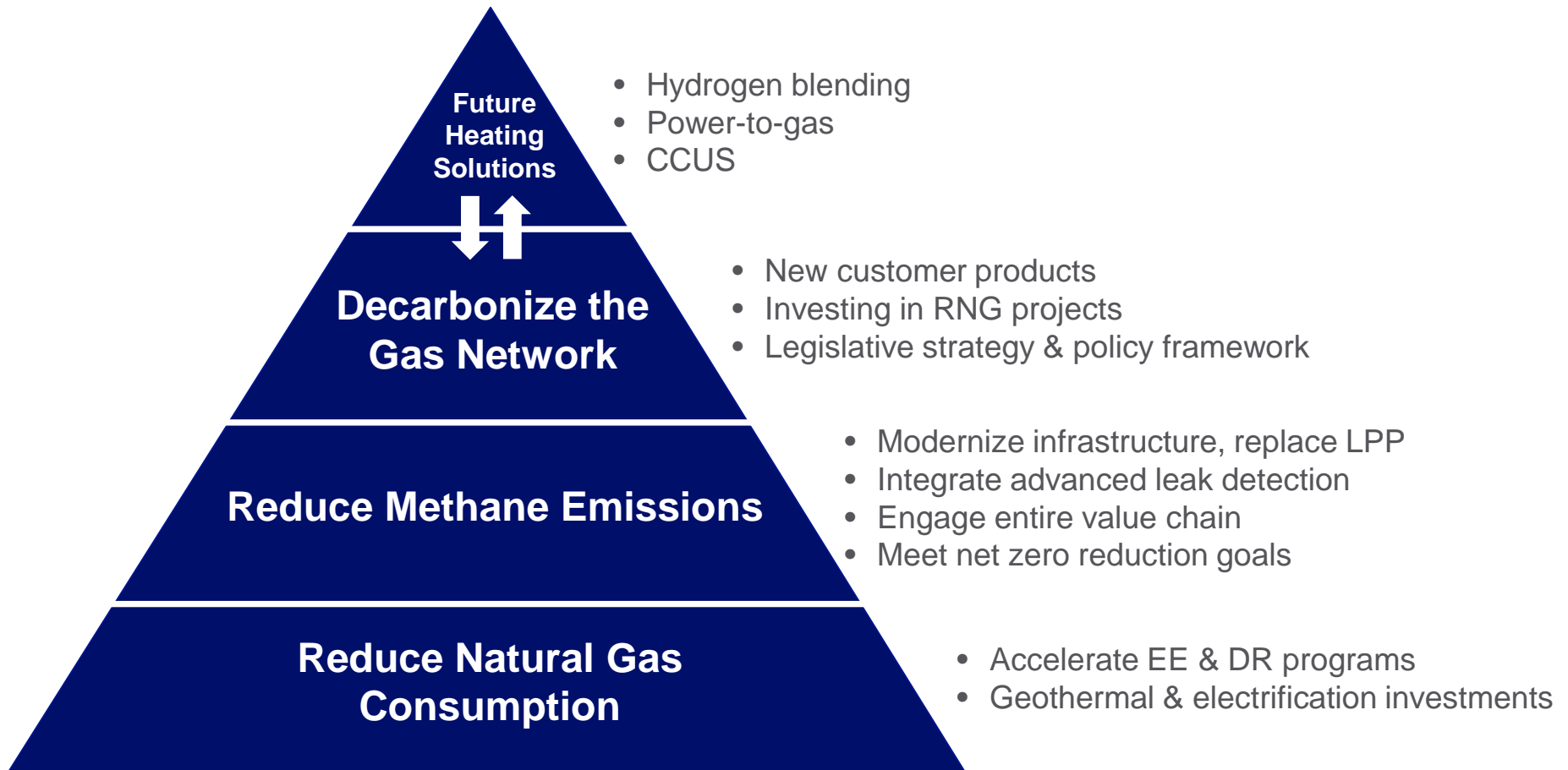
# Reporting and RNG Emissions

2020 RNG Virtual Workshop  
September 21, 2020

nationalgrid



# Strategy for Decarbonizing Our Heating Sector



# National Grid Reporting

At National Grid we take pride in our environmental reporting

- Compliance Reporting
- Voluntary Reporting
- Internal Reporting

We understand that RNG has a role in a decarbonized future, and we want to account for it accurately



# CLIMATE

# Questions to be Answered on Emission Calculations

## Biogenic Carbon

Should methane emissions be binary?

0.) RNG = Carbon Neutral

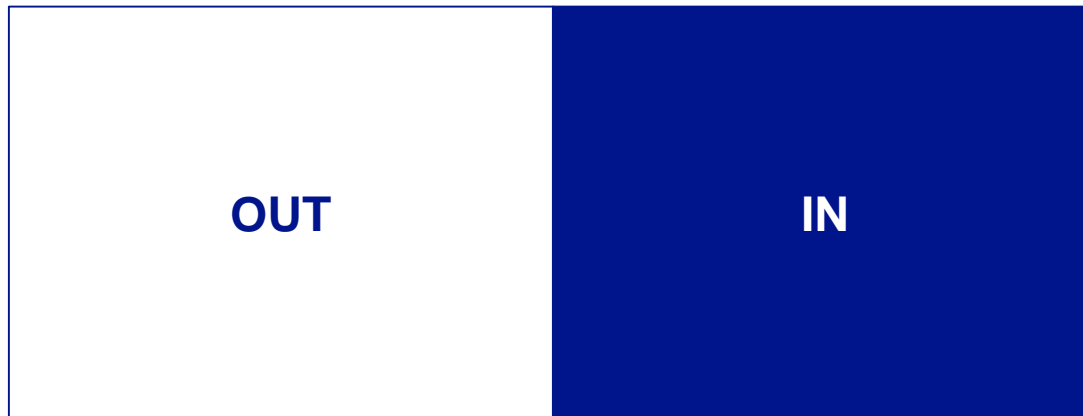
1.) Fossil = Standard emission factor

## LCA Calculations

Should RNG emissions be determined from their specific origin?

- If so, where do we draw the box?

### LCA Box



### Technology/Feedstock



#### Anaerobic Digestion

- Landfill gas
- Animal manure
- Wastewater
- Food waste



#### Thermal Gasification

- Agricultural residue
- Forestry/ forest product residue
- Energy crops
- Municipal solid waste



#### Power-to-Gas

- Renewable electricity

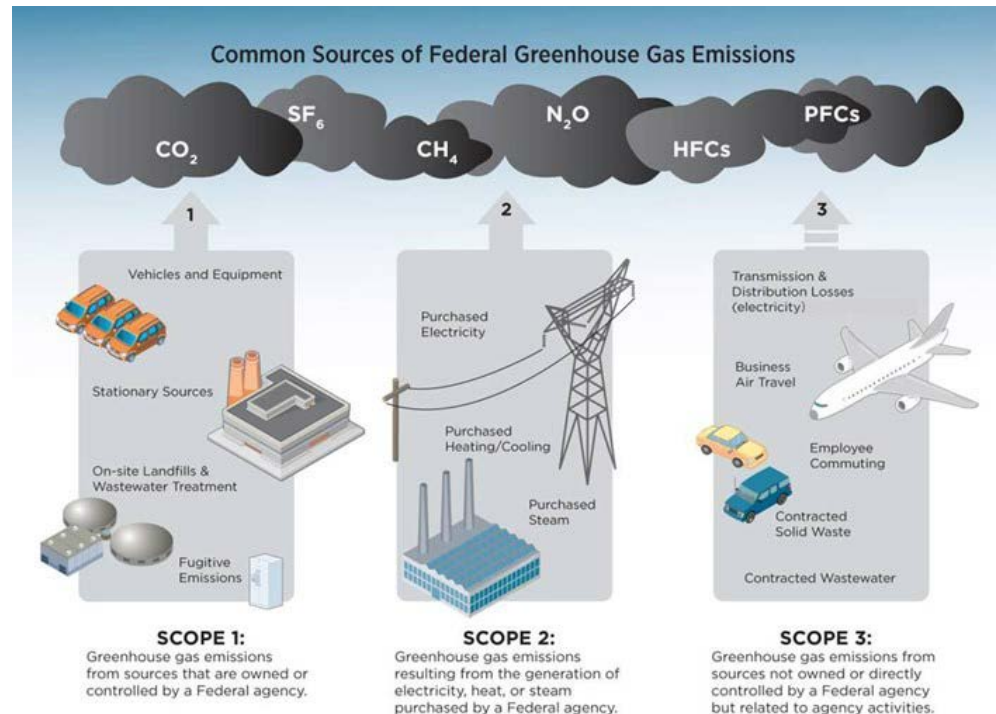
# Open Considerations and Key Drivers

## Unknow regulatory constructs

- What is the regulatory/policy framework?
- What will the compliance mechanism be? Will it be based on volume of RNG or a CI score to achieve emission reductions from a baseline?

## GHG Emission Scopes

- Is RNG solely beneficial for our scope 3 emissions?
- Can hydrogen reduce both scope 1 and 3 emissions?
- What about other related RNG emissions?



Source: epa.gov

# Final Thought

We need to quantify our RNG emissions and **it would be ideal to have consensus on how to report them**

- Consistency in reporting among outlets
- Ease of calculating