



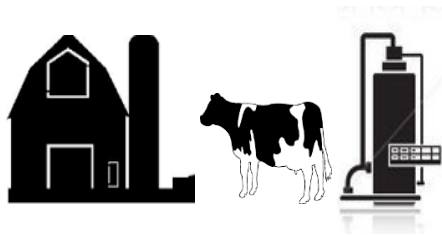
**Renewable Natural Gas Benefits to our Communities**



*Amp Americas is a values-based sustainable transportation fuel producer and distributor*

## Our Business

*Produce Renewable Natural Gas*



*Distribute RNG at 22 CNG stations*



## Our Values

- *Be profitable*
- *Be sustainable*
- *Create value for our stakeholders*
  - *Improve our air*
  - *Create jobs*
- *Be copied!*

# Our Partner Fair Oaks Farm

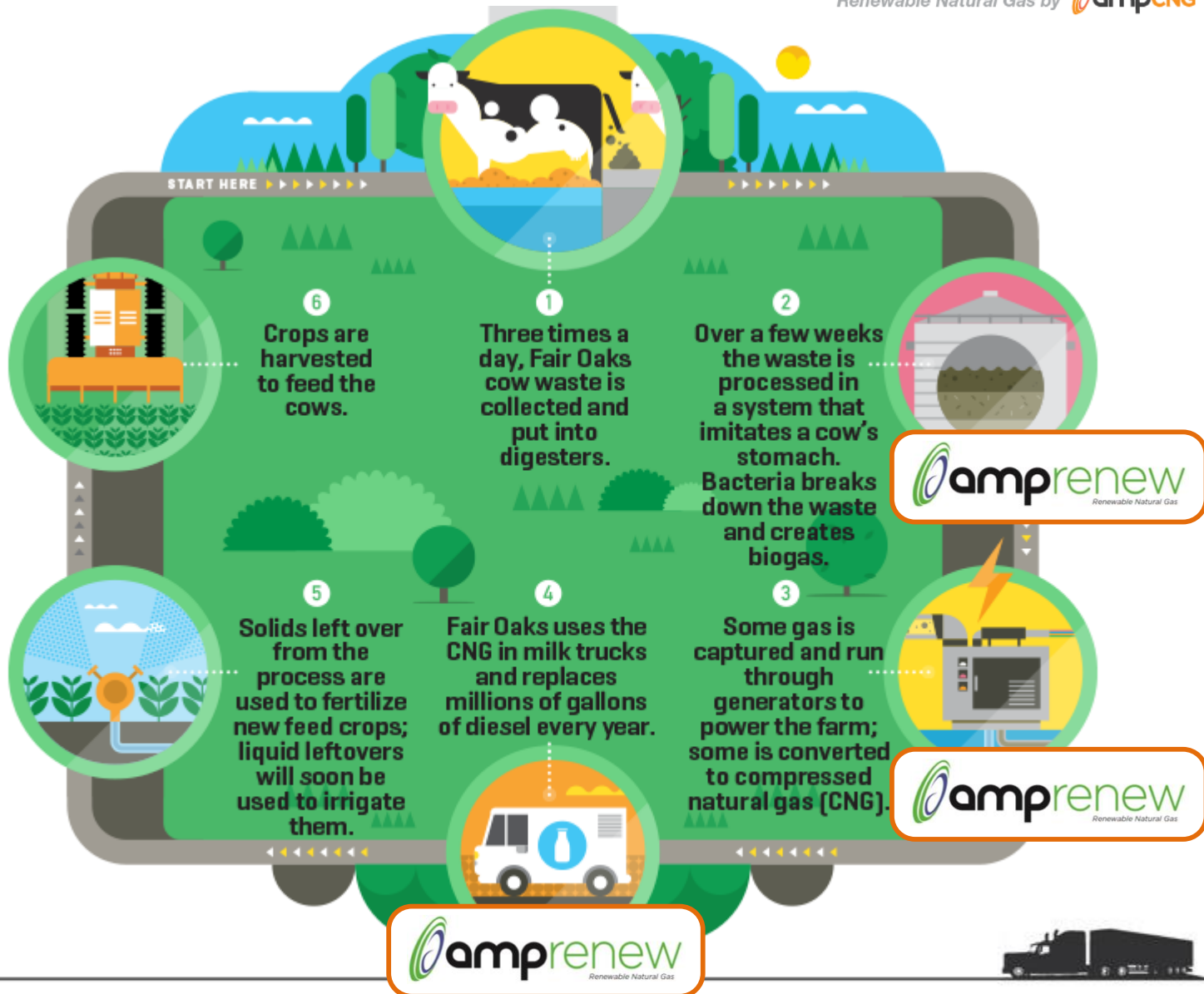
- Leading innovator in dairy sustainability and commercial practices
- 18,000 herd of milking cows
- Milk production, public education, sustainability demonstration and commercialization
- Selected innovations
  - Manure management with anaerobic digester
  - Nutrient recovery – phosphorous, fiber
  - Water management – reduction, reuse, recycling
  - Sustainable energy production: electric, heat, transportation fuel
- ***Vision: transparent, carbon neutral milk production***



# Amp converts waste to vehicle fuel

*ampCNG's project at Fair Oaks Farm is a partnership with one of the largest dairy farms in the US*

*We transform manure from 18,000 cows into methane to fuel our trucks*



# Pretreatment and Preparation



# Emission and Odor Reduction



# Advanced Heat Recovery



Heat recovered from Digestate, Gas Compression, Engine Cooling and Exhaust Heat Recovery



# Value Added Fiber Sales

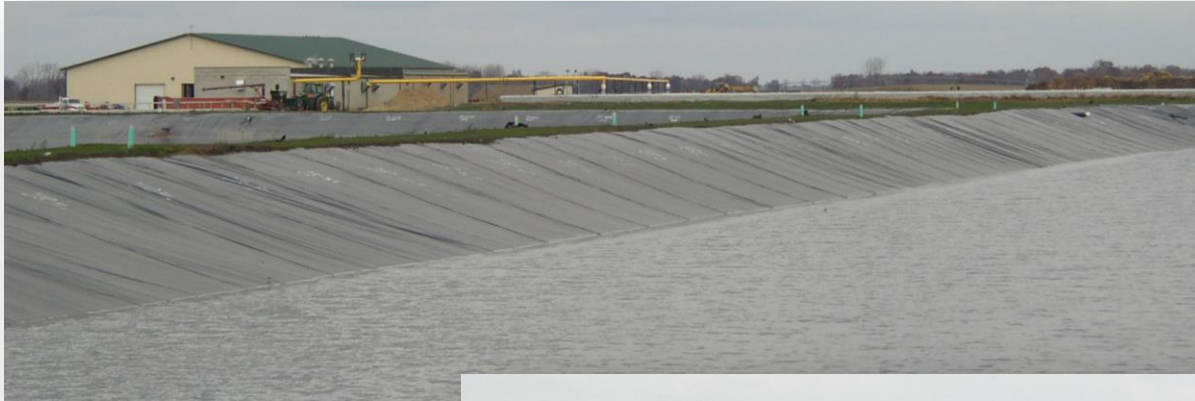




# Advanced Nutrient Recovery



# Low Nutrient Water



# Electricity Generation



# Gas Upgrading Skid (G.U.S.)

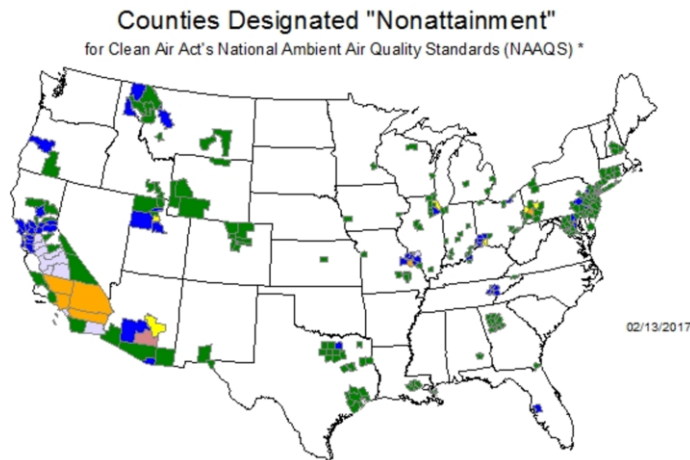


# Truck fueling



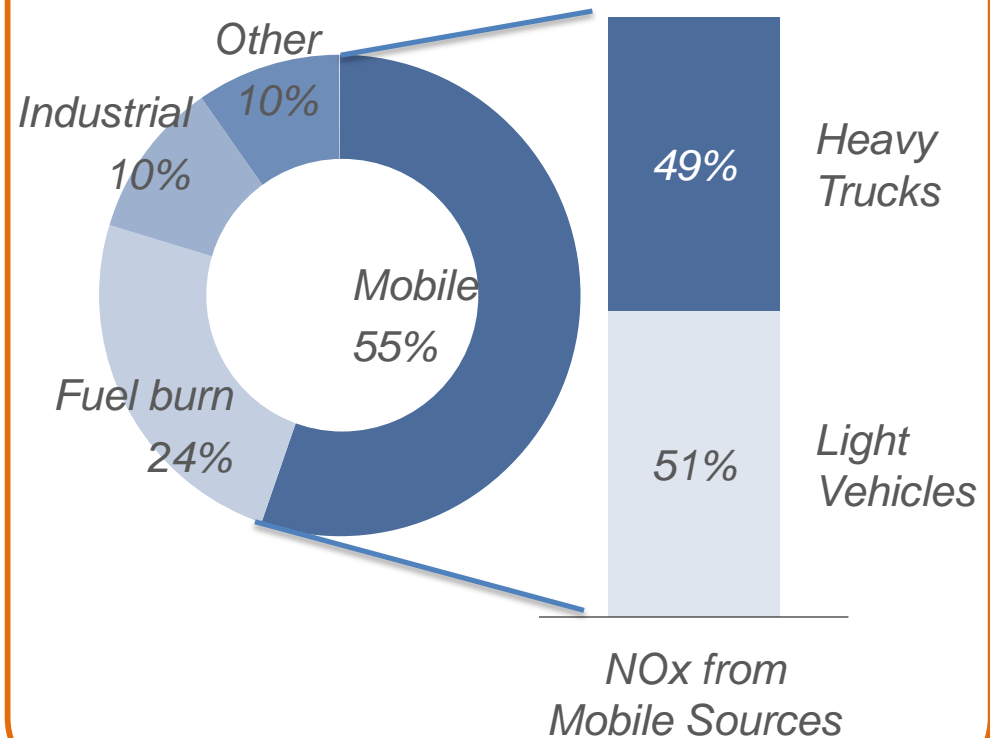
# What are we solving?

## Smog is a national problem



>150 counties non-attainment  
>700 maintenance

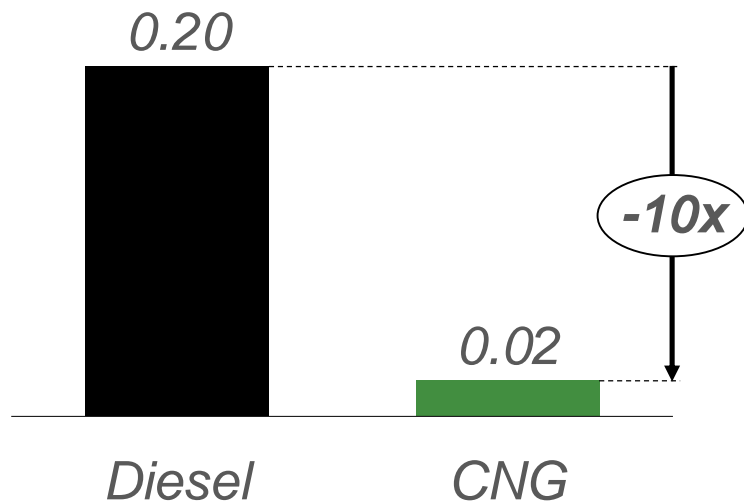
## Diesel trucks cause 26% of smog



# Dairy gas creates enormous air benefits...

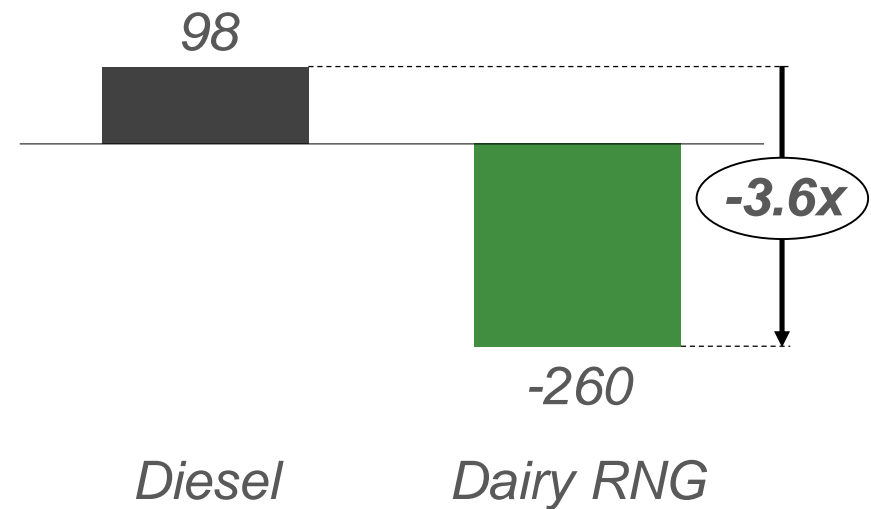
## Smog

Smog-causing NO<sub>x</sub> reduced 10x with Cummins Near-Zero engine  
gNO<sub>x</sub>/bhp-hr



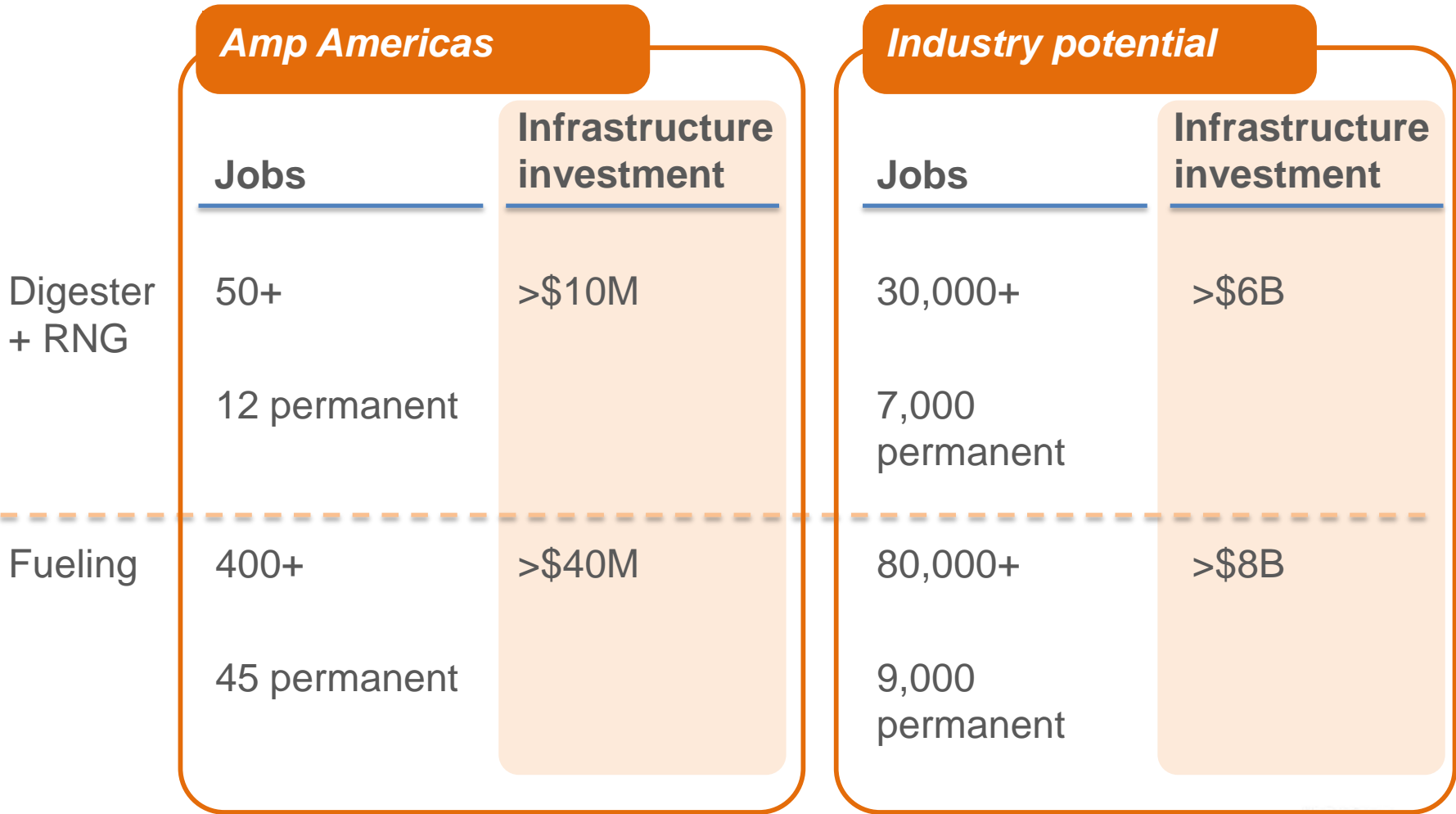
## Greenhouse gas

Dairy RNG like removing 3.5 diesel trucks of GHG emissions  
gCO<sub>2</sub>e/MJ



# Dairy gas creates enormous economic benefits...

ROUGH ESTIMATE





# Challenges for the industry

RNG investment requires Renewable Fuel Standard certainty – multi-year RIN price and demand certainty

RVOs set one year at a time

Price volatile

CNG trucks require fuel savings to justify investment, but...

Diesel vs. CNG spread has narrowed

VETC expired



# What to do about it

- CNG: Renew 5 year VETC with 5 year sunset
  - Revenue neutral with <1cent diesel tax
  - Would unlock 25-50% conversion of heavy trucks
- RNG: Renewable Fuel Standard – Create 5 year rolling RVO and price floor
  - Certainty of RIN demand and price
  - Create certainty beyond 2022 – end of current targets

*Stability and predictability for CNG, RIN markets would put drive **air quality improvement, create thousands of jobs, and \$billions in infrastructure investment***

