Breakout A:
Landfill & Wastewater Treatment Facilities

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In 2008, the U.S. Congress directed the Environmental Protection Agency (EPA) to develop a greenhouse gas reporting program *Public Law 110-161*

- EPA issued Title 40 of the Code of Federal Regulations, Part 98 in December, 2009
- Original 30 categories:
  - Includes Municipal Solid Waste Landfills (Subpart HH)
- 12 categories added in CY 2010
  - First report: (CY 2011) September 28, 2012
  - Includes Industrial Solid Waste Landfills (Subpart TT) and Industrial Wastewater Treatment (Subpart II)
- Subsequent reports due March 31 of the following year
Terms

**Definitions**

1. **Greenhouse gases**: (GHGs) gases absorbing infrared radiation, making the Earth about 57ºF warmer (*NOAA*)
   - Carbon dioxide (CO₂)
   - Sulfur Hexafluoride (SF₆)
   - Nitrous Oxide (N₂O)
   - Perfluorocarbons (PFCs)
   - Methane (CH₄)
   - Hydrochlorofluorocarbons (HFCs)

2. **Global warming potential**: the ability for a GHG to retain heat expressed as a ratio compared to CO₂ (CO₂ = 1, SF₆ = 23,900)

3. **Carbon dioxide equivalents**: (CO₂e) the total GHG emissions from a facility, obtained by multiplying each GHG by its global warming potential, (4 lbs. SF₆ × 23,900 = 95,600 lbs. CO₂e)

4. **Metric tons**: unit of measure for GHG emissions, see Executive Order 12770 (George H.W. Bush)