

Re: PW13.8

# Renewable Natural Gas: Demonstration Project

Producing a flexible, high-value renewable commodity



Renewable Natural Gas (Fuel)

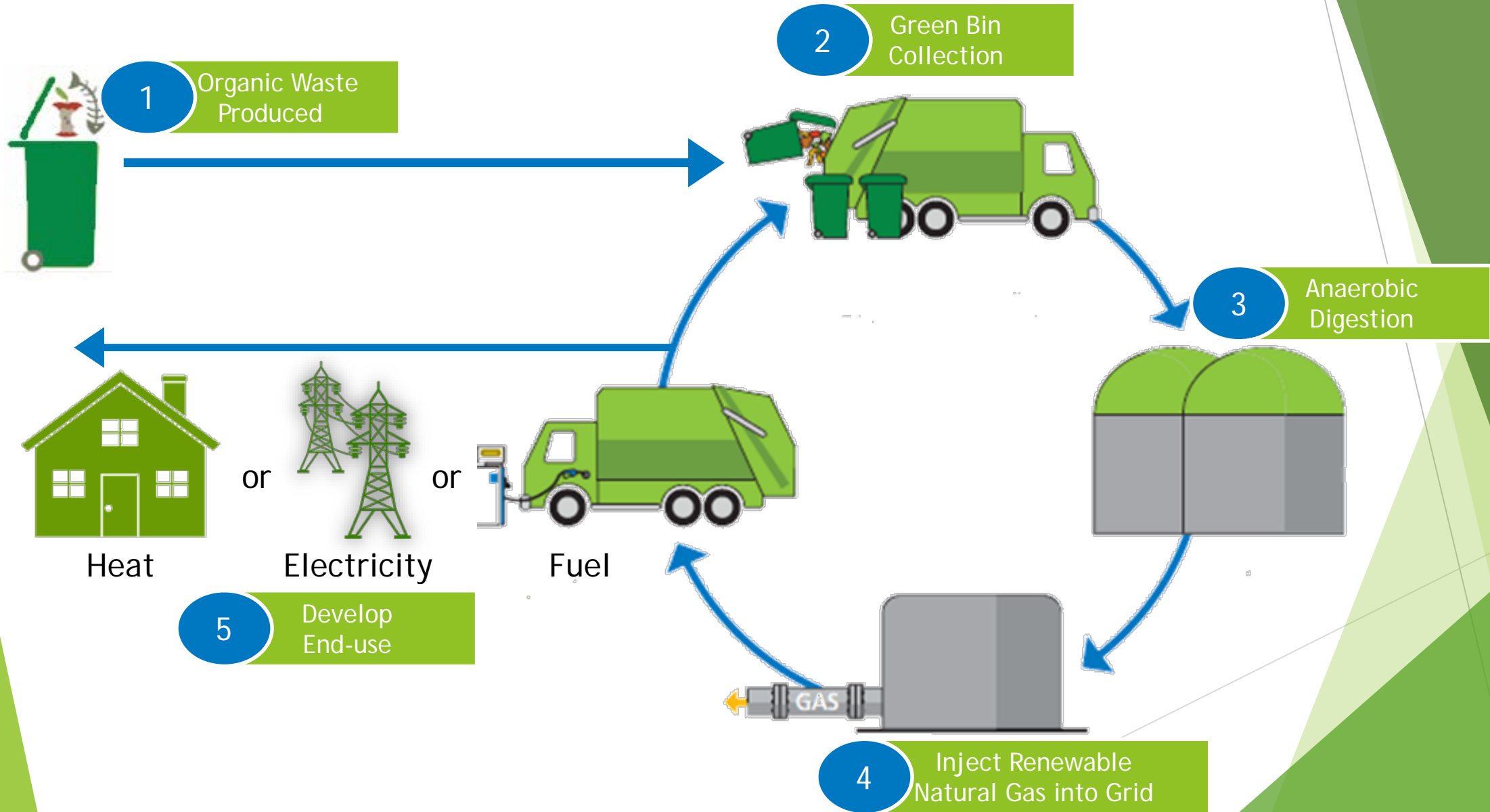


Renewable Electricity



Renewable Natural Gas (Heat)

# The Renewable Natural Gas Production Process



# Renewable Natural Gas in Context

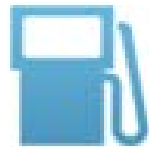
Using renewable natural gas instead of regular natural gas would save the same amount of emissions as not using

8,000,000



Pounds of coal burned

825,000



gallons of gasoline consumed

18,000,000



Miles driven by an average passenger vehicle

This is the same reduction achieved by

7,000



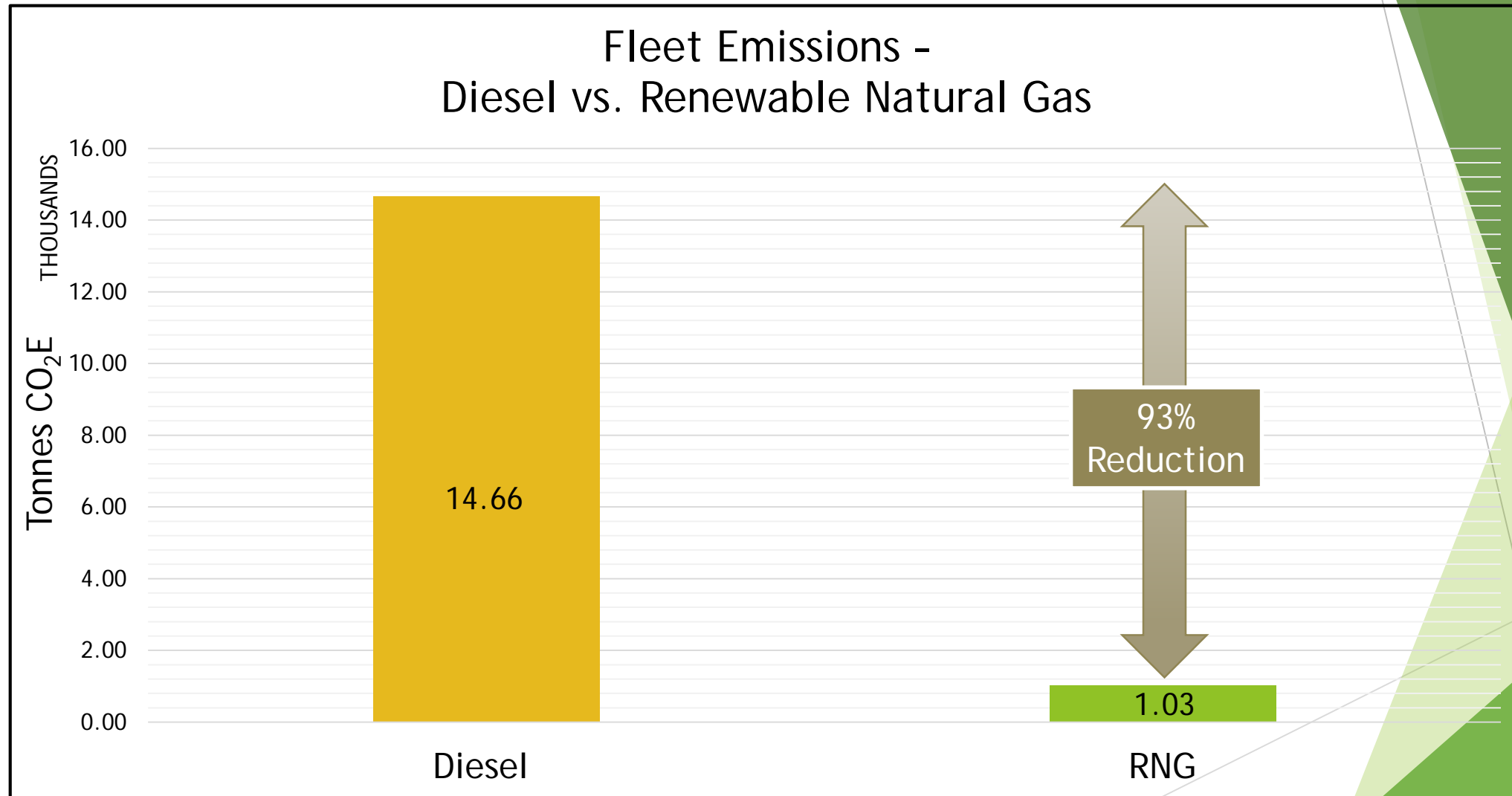
acres of U.S. forests in one year

175,000



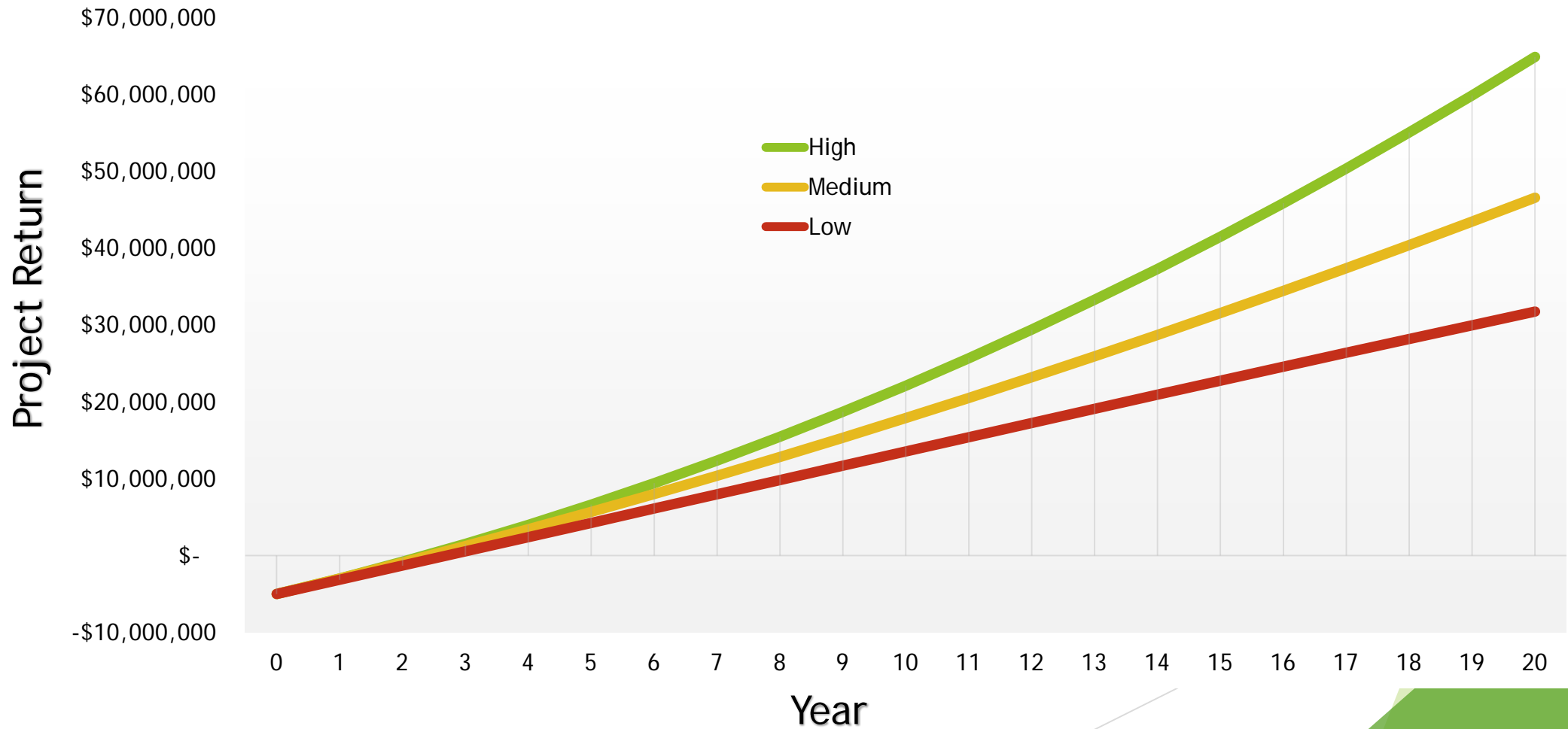
tree seedlings grown for 10 years

# Environmental Benefits



# Economic Benefits

## Year Over Year Renewable Natural Gas Project Savings



# Key Points

- ▶ Solid Waste Management Services has access to a renewable source of energy
- ▶ Biogas and landfill gas to renewable natural gas can produce significant environmental, social and economic benefits
- ▶ The Disco Road Organics Processing Facility can produce approximately 4 million cubic meters of renewable natural gas annually
- ▶ Renewable natural gas projects can lead to alternative sources of revenue for the Solid Waste Management Services Division
- ▶ Renewable natural gas projects can potentially benefit the City as a whole

