Landfill gas a viable energy alternative creating financial and environmental benefits for the Commonwealth of Virginia
Landfills in Virginia

- Approximately 30 active landfills in Virginia, 10 are very large.
- Industry has trended to large landfills due to increased regulation.
- To comply with regulations, significant landfills are required to install collection systems.
Landfill Gas Projects in Virginia

- Approximately 8 Landfill gas projects in Virginia.
- Enerdyne has 2 operational projects in Virginia and is developing 4 more.
- Existing projects generate equivalent of 60 MW’s of electricity.
- There is potential to create a total of over 200 MW’s.
- While environmental and financially beneficial this is very small to the 25,000 MW electric industry.
Two principal types of Landfill gas projects:

- Electricity in modified internal combustion engines.
- Direct use in heating applications such as boiler fuels.
Annual Environmental Benefits:

- Reduce Nox emissions by 800 tons.
- Reduce CO by 500 tons.
- Reduce 420,000 tons of CO2 each year.
- This is equivalent of planting 400,000 acres of trees or eliminating the use of 260,000 motor vehicles.
- There is the potential to increase this by a factor of 4.
Financial Benefits:

• Enerdyne is currently saving Virginia companies more than $3 million each year.
• These projects will also generate new tax revenue.
• The industry has the potential to save Virginia companies more than $15 million each year.