



# **Landfill Gas-to Energy (LFGE) the City of Denton Landfill**

## **Award of Contract 8465**

**Brenda A. Haney, P.E., Director of  
Solid Waste & Recycling**

**Date: September 9, 2025**

**File ID 25-1498**



# SUSTAINABILITY/BENEFICIAL MEASURES

Current practice (i.e., flaring landfill gas) constitutes:

- Major maintenance expense
- Need for mechanized components
- Opportunity Costs associated with potential LFG sales revenue

Landfill Gas (LFG) is an asset of the City

- Processed LFG is a clean reusable commodity
- Beneficial reuse increases sustainability and lessens carbon footprint of Denton
- Beneficial reuse is a profitable and an environmentally responsible alternative



# Historical Timeline

- Through 2020, the City was operating a LFG to Energy (LFGE) Facility which was subsequently de-commissioned
- The City commissioned a study on possible LFGE projects at the landfill, specifically refining the gas to high-Btu fuel
  - In 2023, the City issued a RFP for a LFGE project but this never progressed due to negotiations
  - In 2024, the City issued a RFP for a LFGE project which has been evaluated and Morrow Energy was selected
- City has installed a gas collection infrastructure
  - 139 gas collection wells onsite to collect LFG
- Currently, all landfill gas is diverted to a flare station, then destroyed (“flared off”)



# Project Schedule & Action Requested

- In May 2024, a RFP for a Landfill gas to Energy Project was released
- In August 2024, Morrow Energy operating as Mayhill Renewables was selected
- Mayhill Renewables will assume wellfield operations; expand the existing wellfield; improve overall gas collection; clean and compress the LFG to sell in the open market
- Council Action Requested
  - Approve ordinance authorizing the City Manager to execute the Lease Agreement and the Gas Rights Agreement

# Questions?

**Brenda Haney**  
**Director Solid Waste & Recycling**

