

44. National Fuel Gas Distribution of Ohio, LLC. Design Peak Day Forecast

1. National Fuel Gas Distribution of Ohio, LLC.'s (NFOH) Design Peak Day Forecast uses a linear regression based model. The forecast is updated annually and forms the basis for any capacity contract changes the company may make. The NFOH Working Group will be provided the revised forecast for their review and approval prior to any contract changes being effectuated.
2. The linear regression model variables and their model coefficients include:

Variable	Coefficient (in Dth)
CONST	83,433
PkDayHDD65	3,523
PkDayHDD55	2,541
Lag_HDD55	1,069
WinterWind	1,826
Dayton GDP	1,581

- a. HDD65 and HDD55 - captures the non-linear relationship between average temperature and demand.
 - b. LagHDD55 - captures the impact of the previous day temperature
 - c. WinterWind - captures the effect of the winter wind speed
 - d. Dayton GDP – captures the relationship between deliveries trends and economic health as measured by regional (Dayton-area) Gross Domestic Product.
3. The 2026-2027 NFOH peak day has -9° F average temperature, 15° F previous day average temperature, 10 mph average winter wind speed, and 5.40 GDP.

The equation is:

CONST + CurrentDayTemplImpact + LagDayTemplImpact +
CurrentDayWinterWindImpact + GDPImpact

$$= 83,433 + 260,725 + 162,601 + 42,752 + 18,255 + 8,540$$

4. 2026-2027 NFOH Peak Design Day demand (in Dth)

	2026-27 (in Dth)
Total Peak Day Demand	576,307
Transportation Demand	155,035
Net Sales	421,272