

Appendix E

Energy Contents / Equivalencies for Natural Gas Fuels versus Electricity

1,000,000	Btu	In	1,000 ft ³	Natural gas / biomethane
3,412	Btu	In	1 kWh	Electricity
3.4 ft ³	Natural gas / biomethane	Same energy as	1 kWh	Electricity
120 ft ³	Natural gas / biomethane	Same energy as	1 gal	Gasoline
140 ft ³	Natural gas / biomethane	Same energy as	1 gal	Diesel
24 ft ³	Natural gas / biomethane	Same energy as	1 gal	CNG/CBM
84 ft ³	Natural gas / biomethane	Same energy as	1 gal	LNG/LBM
13,600 Btu	Natural gas / biomethane	Generates (at 25% efficiency)	1 kWh	Electricity
13.6 ft ³	Natural gas / biomethane	Generates (at 25% efficiency)	1 kWh	Electricity
10,400 Btu	Natural gas / biomethane	Generates (at 33% efficiency)	1 kWh	Electricity
10.4 ft ³	Natural gas / biomethane	Generates (at 33% efficiency)	1 kWh	Electricity
6,800 Btu	Natural gas / biomethane	Generates (at 50% efficiency)	1 kWh	Electricity
6.8 ft ³	Natural gas / biomethane	Generates (at 50% efficiency)	1 kWh	Electricity

