

3. Correct. The answer is false. Although the energy content of US gas is approximately 1,000 BTU/ft³; $1,000 \text{ BTU/ft}^3 = 8898 \text{ Kcal/m}^3$.
First convert BTU/ft³ to Kcal/ft³ and then Kcal/ft³ into Kcal/m³;
 $1,000 \text{ (BTU/ft}^3) * 0.252 \text{ (Kcal/BTU)} * 35.31 \text{ (ft}^3/\text{m}^3) = 8,898.12 \text{ Kcal/m}^3$