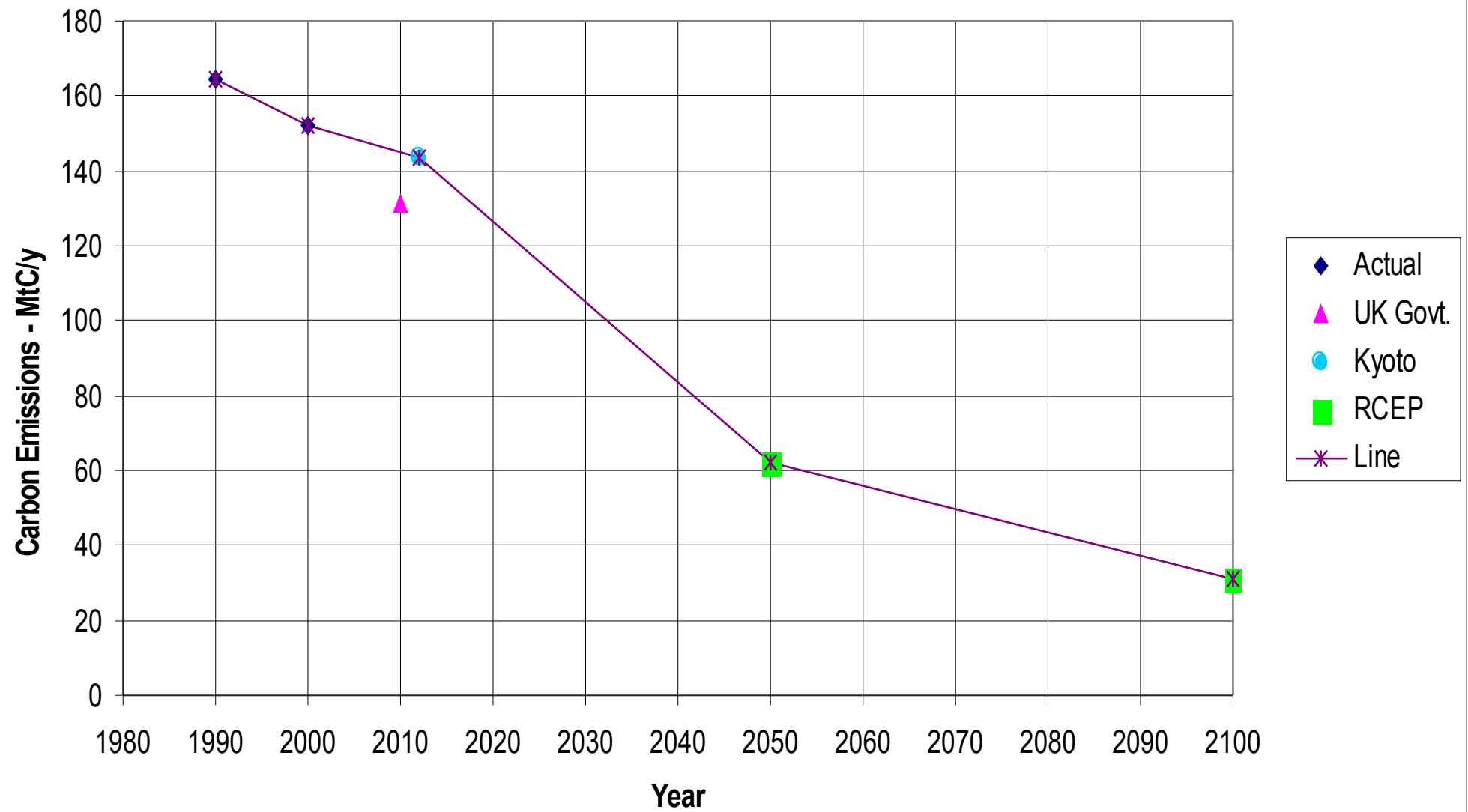
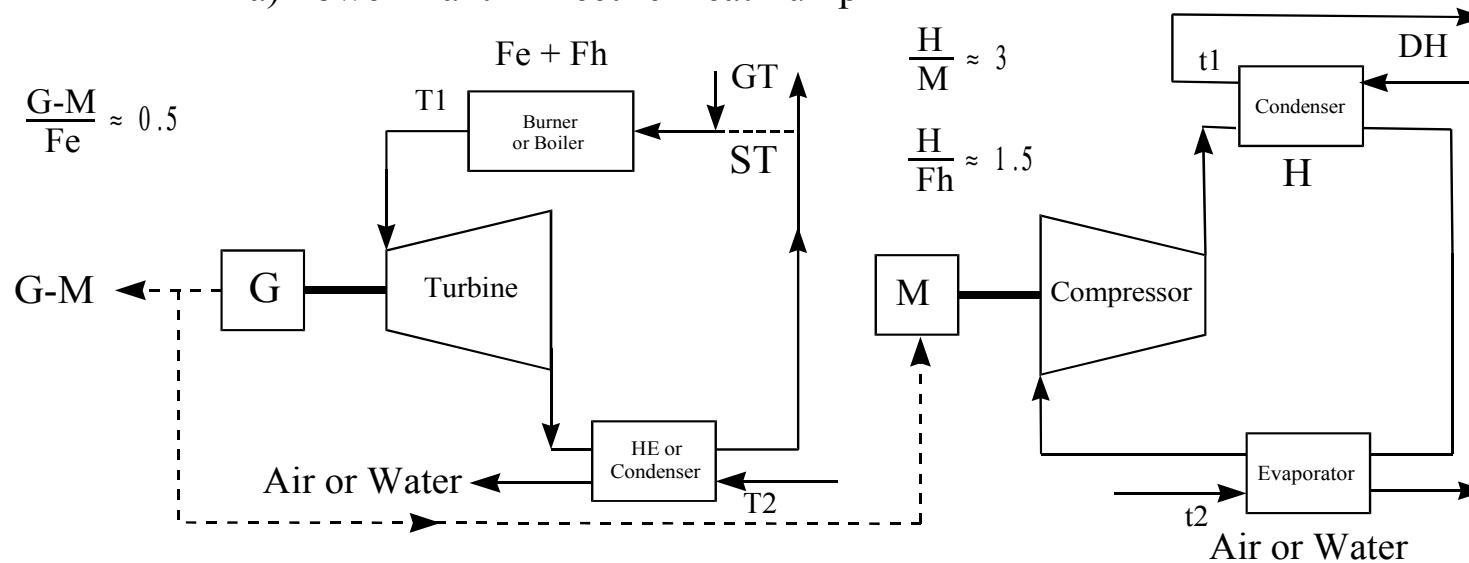


Fig. 1 - UK Carbon Emissions Targets



Combined Heat and Power Concepts

a) Power Plant + Electric Heat Pump



b) Power Plant + Virtual Heat Pump = Combined Heat and Power

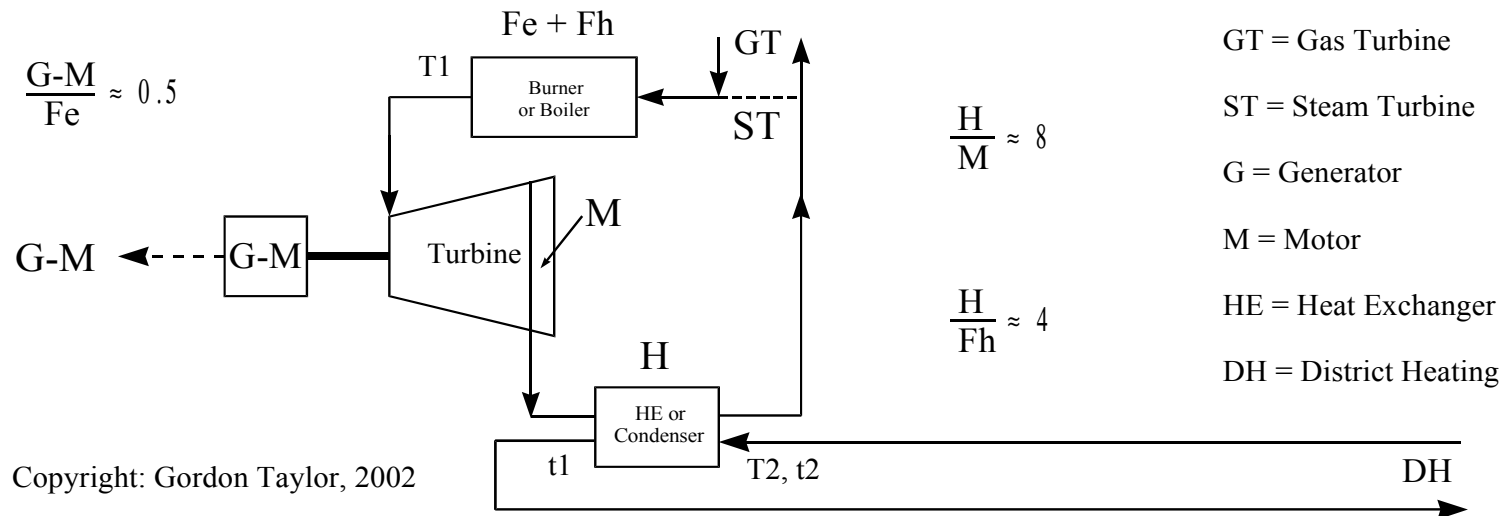
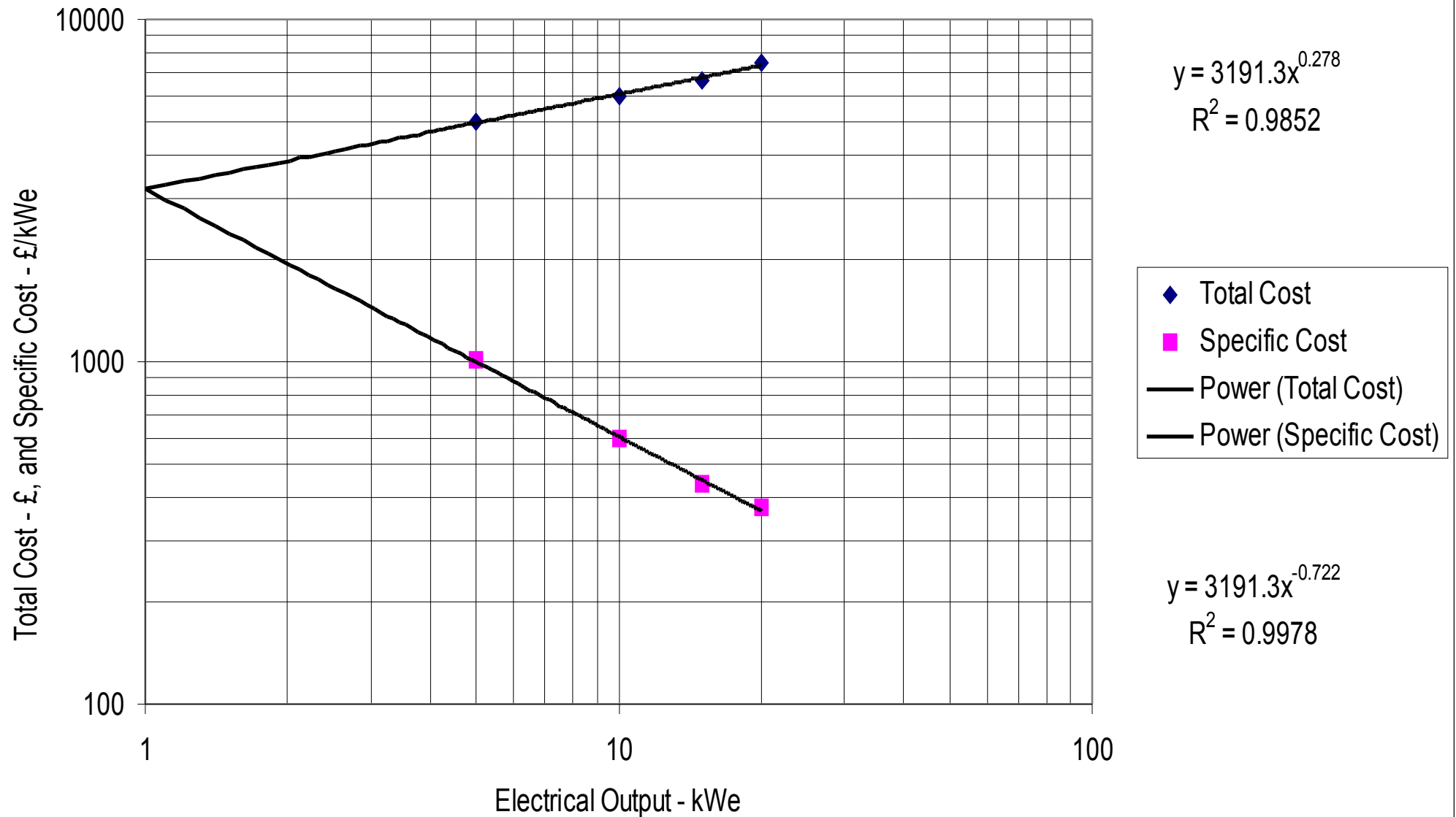
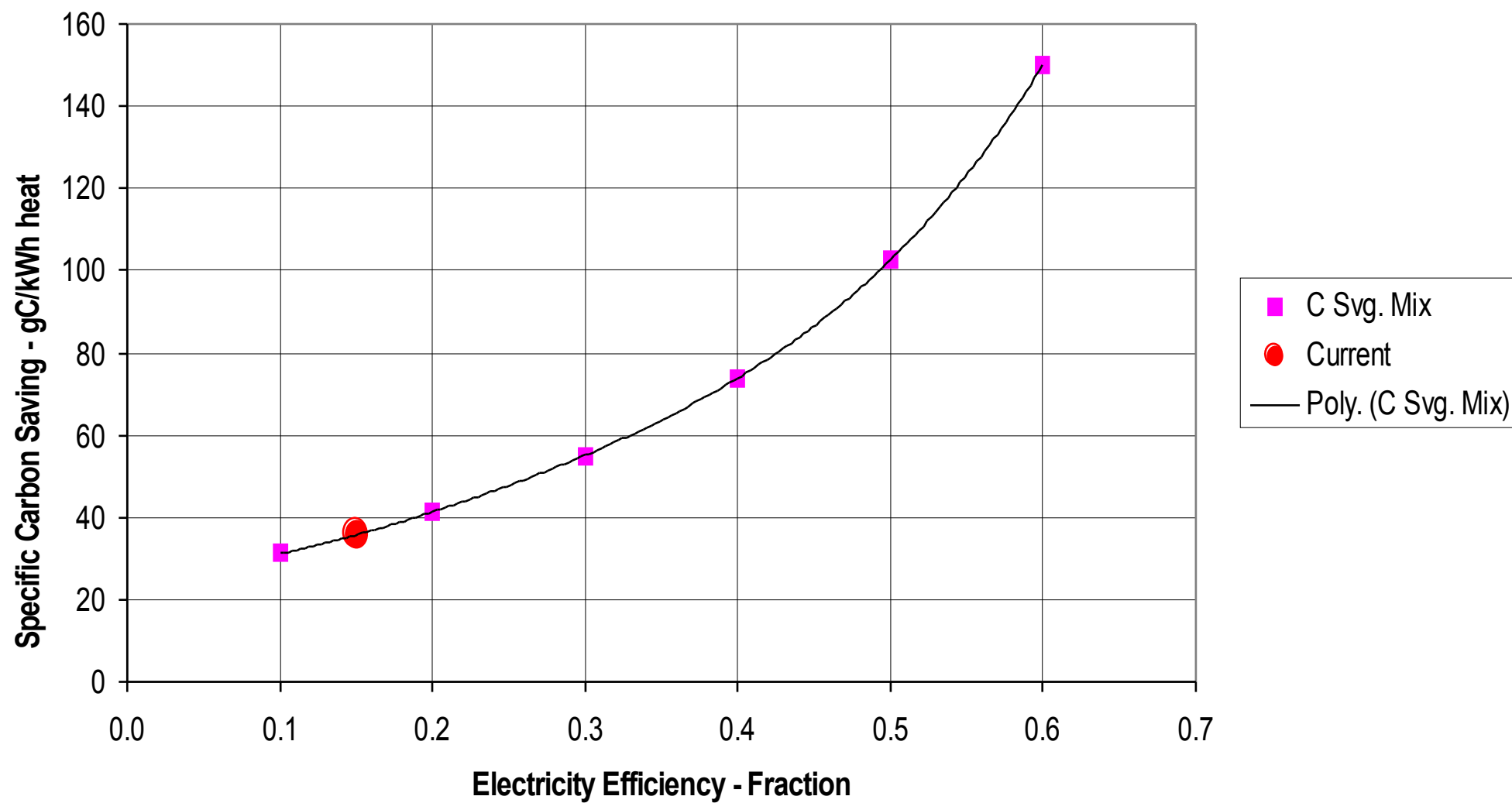


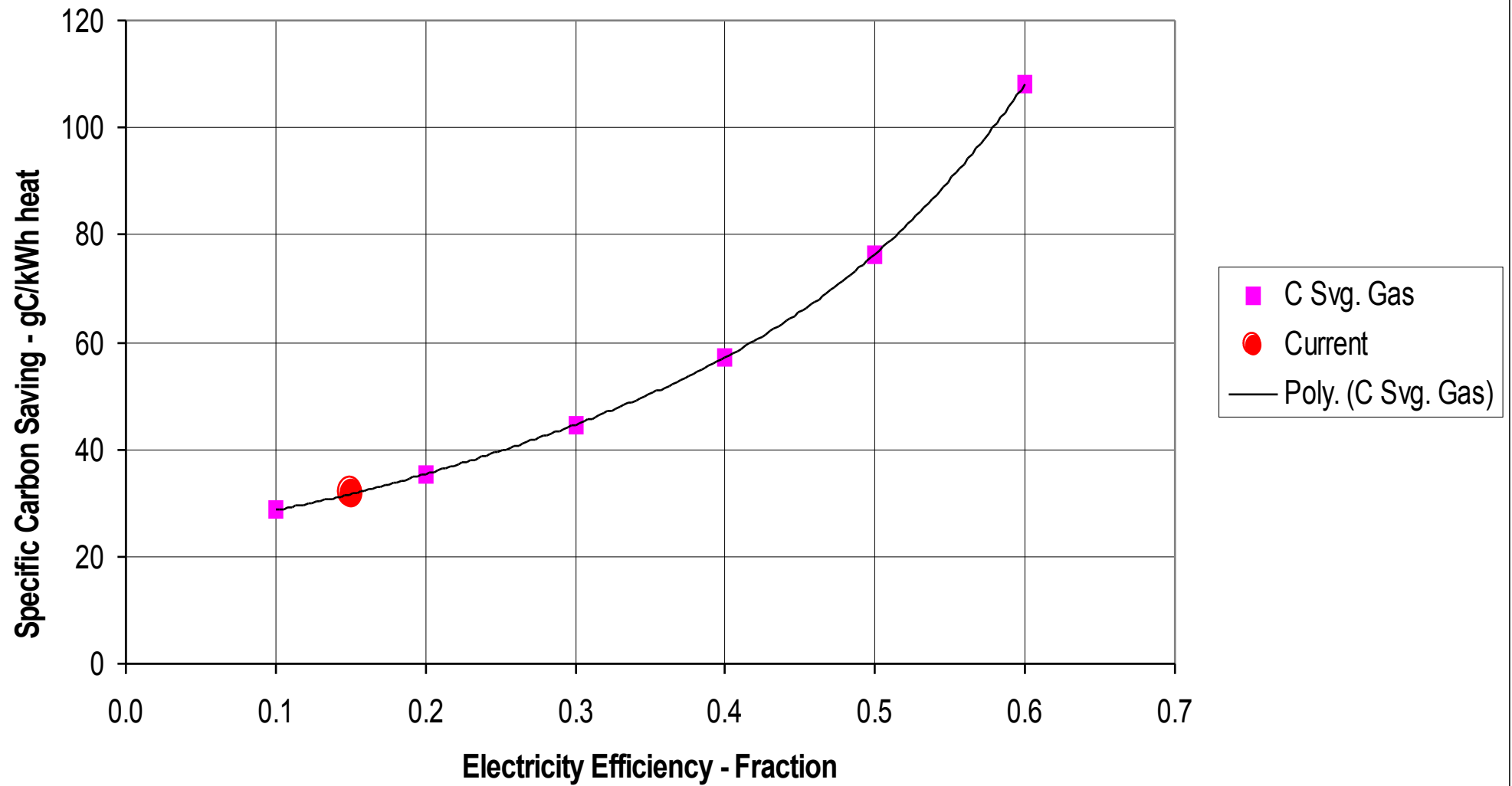
Fig. 3 - Cost and Specific Cost of Small Stirling CHP Units v Electrical Output



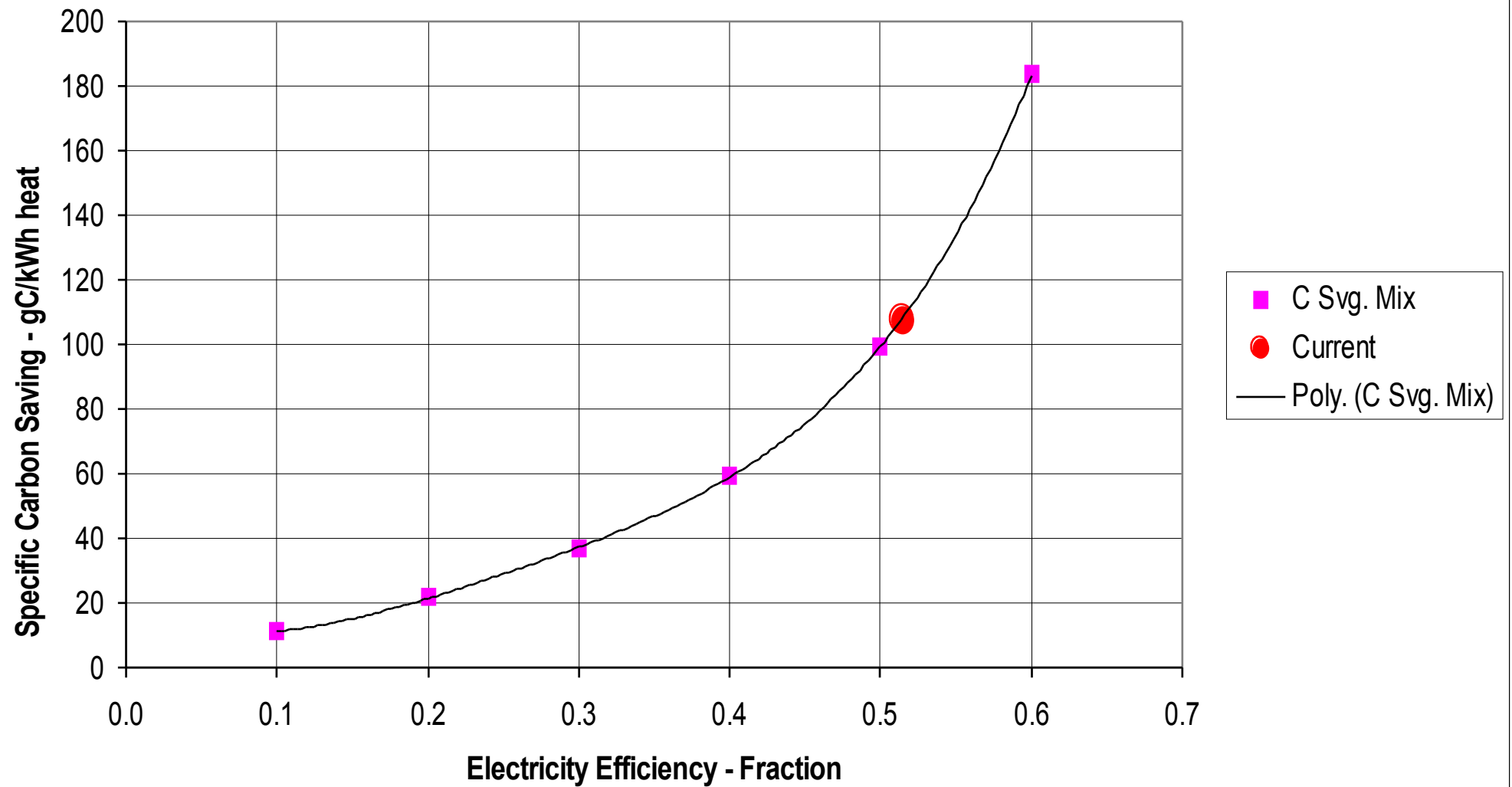
**Fig. 4 - Carbon Savings per kWh Heat v Electricity Efficiency
for Gas Micro-CHP v Gas Boilers of 0.65 and Mix Generators of 0.44**



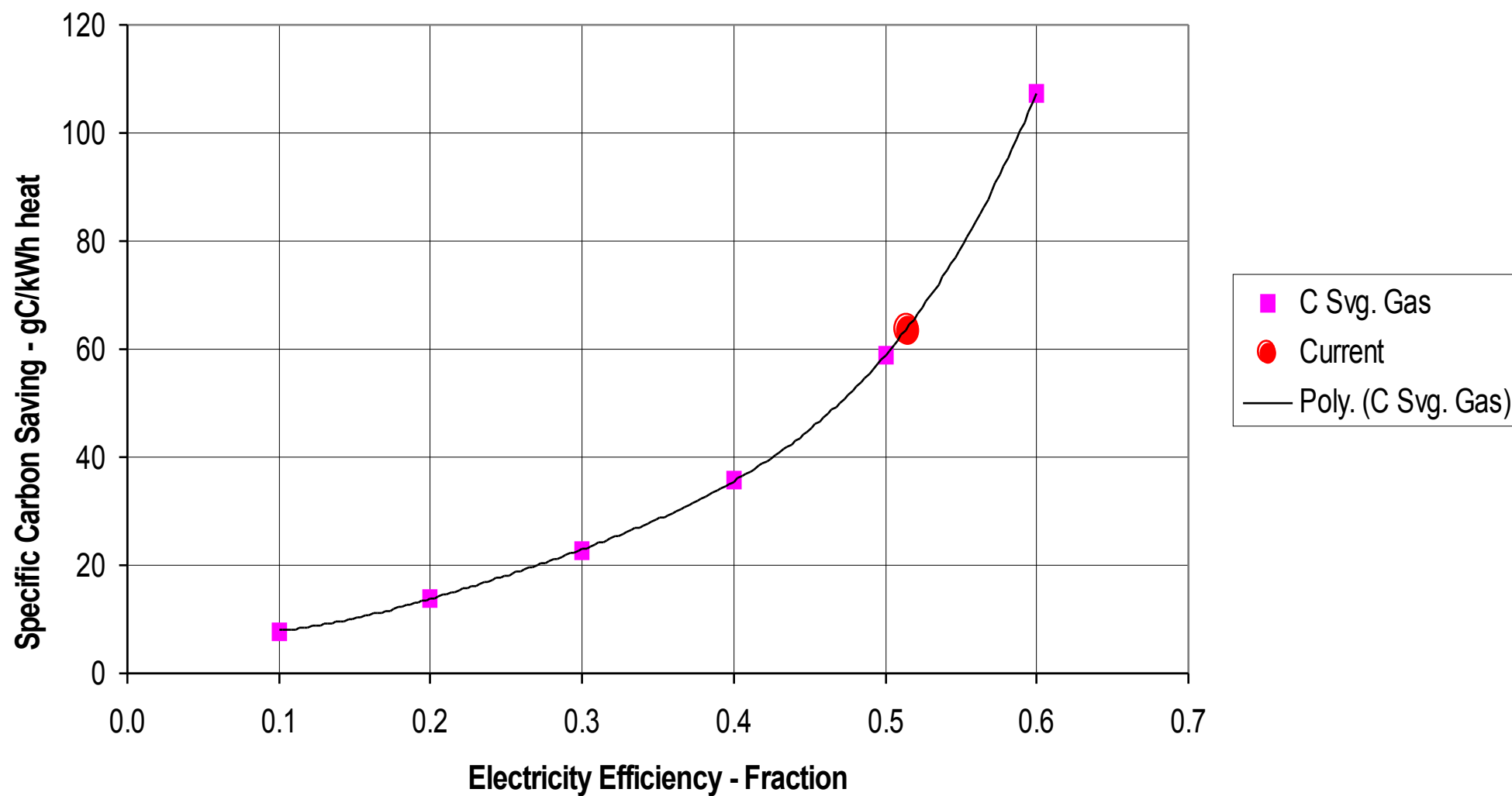
**Fig. 5 - Carbon Savings per kWh Heat v Electricity Efficiency
for Gas Micro-CHP v Gas Boilers of 0.65 and Gas Generators of 0.51**



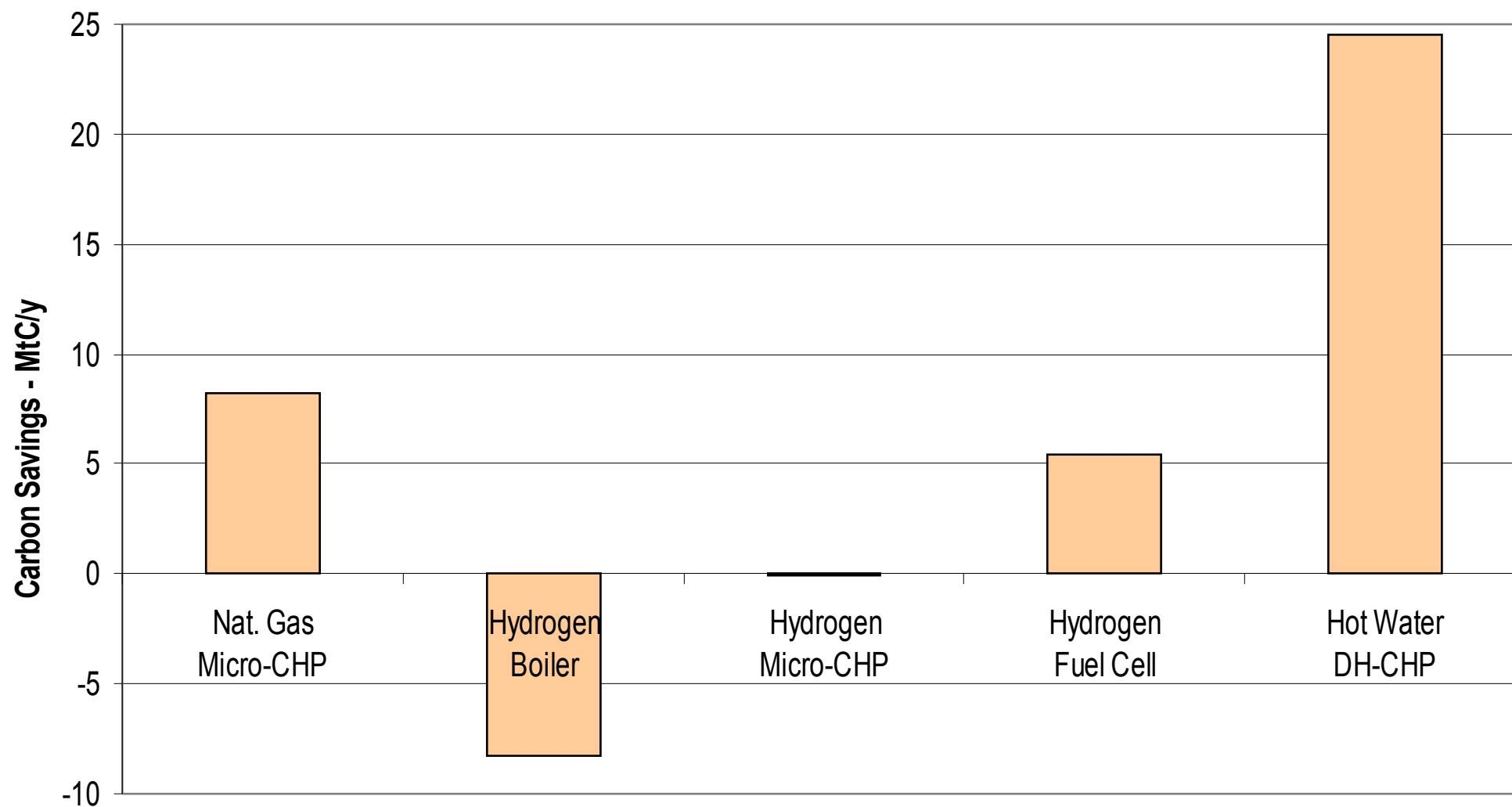
**Fig. 6 - Carbon Saving per kWh Heat v Electricity Efficiency
for Gas DH-CHP v Gas Boilers of 0.65 and Mix Generators of 0.44**



**Fig. 7 - Carbon Saving per kWh Heat v Electricity Efficiency
for Gas DH-CHP v Gas Boilers of 0.65 and Gas Generators of 0.51**



**Fig. 8 - Carbon Savings for various options supplying Useful Heat of 229 TWh/y
v Gas Boilers at 0.65 and Mix Electricity at 0.44**



**Fig. 9 - Carbon Savings for various options supplying Useful Heat of 229 TWh/y
v Gas Boilers at 0.65 and Gas Electricity at 0.51**

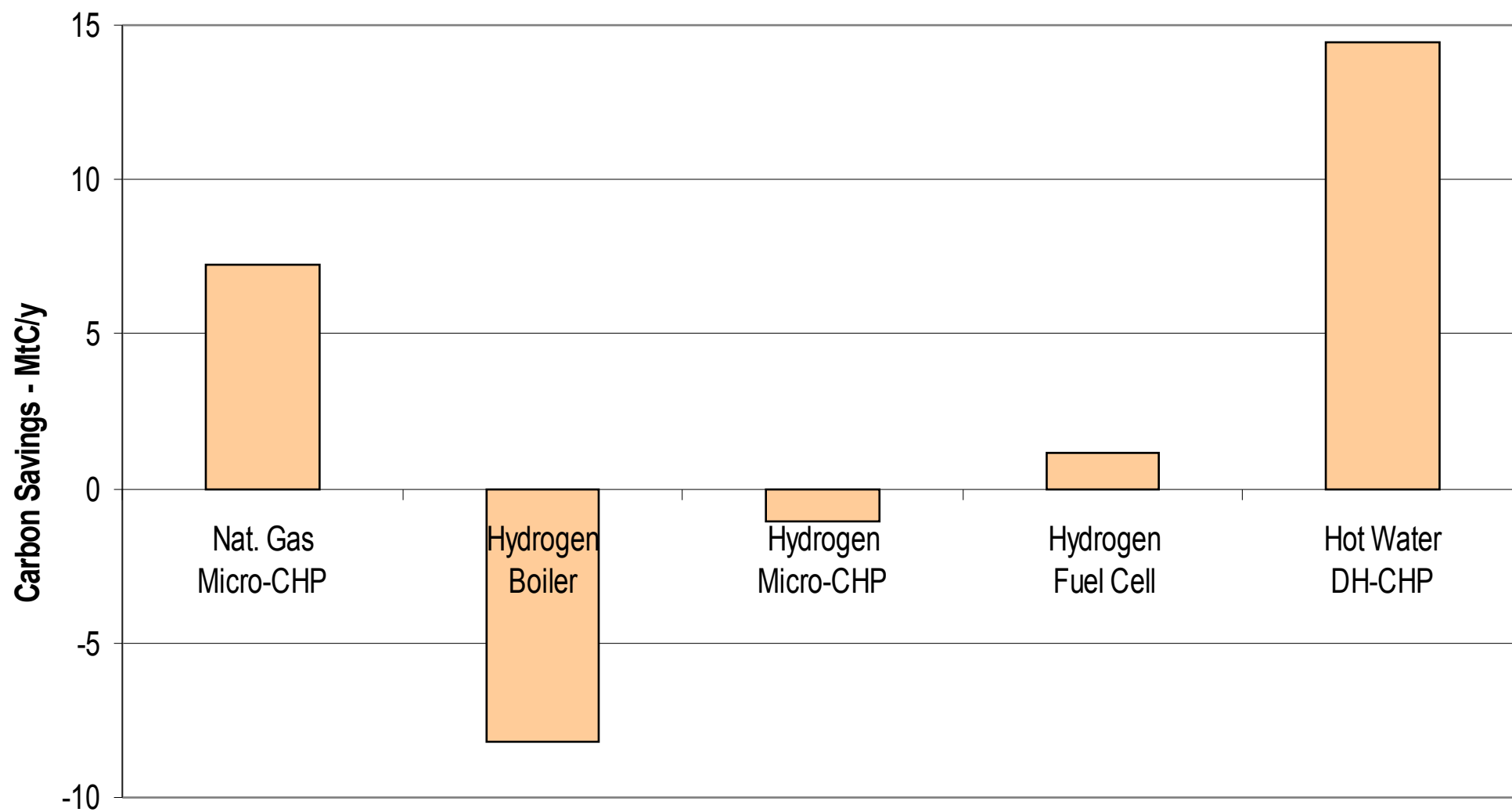
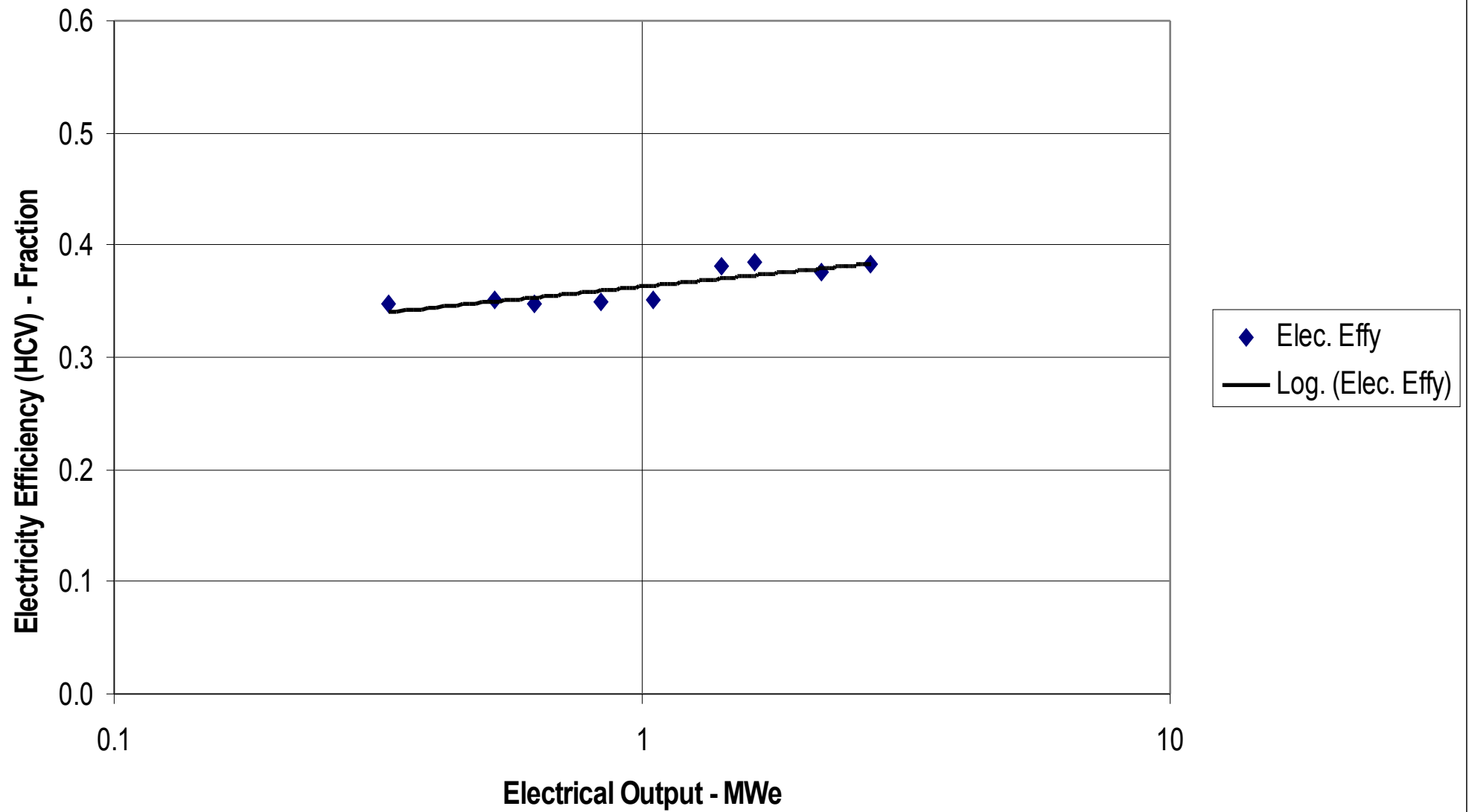
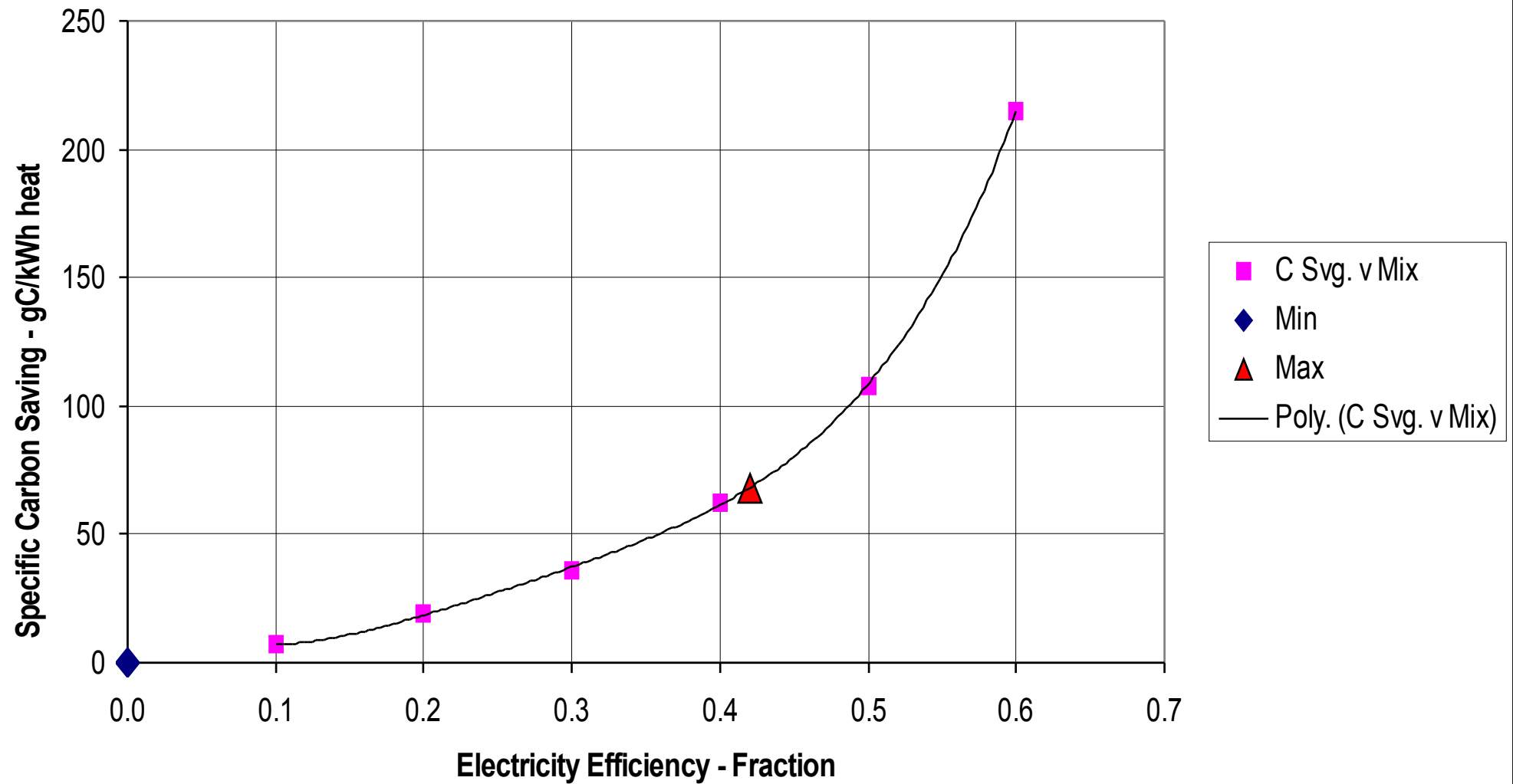


Fig. 10 - Jenbacher CHP Gas Engine Efficiencies (GCV Basis)



**Fig. 11 - Carbon Saving per kWh Heat v Electricity Efficiency
for Gas Ind-CHP v Gas Boilers of 0.8 and Mix Generators of 0.44**



**Fig. 12 - Carbon Saving per kWh of Heat v Electricity Efficiency
for Gas Ind-CHP v Gas Boilers of 0.8 and Gas Generators of 0.51**

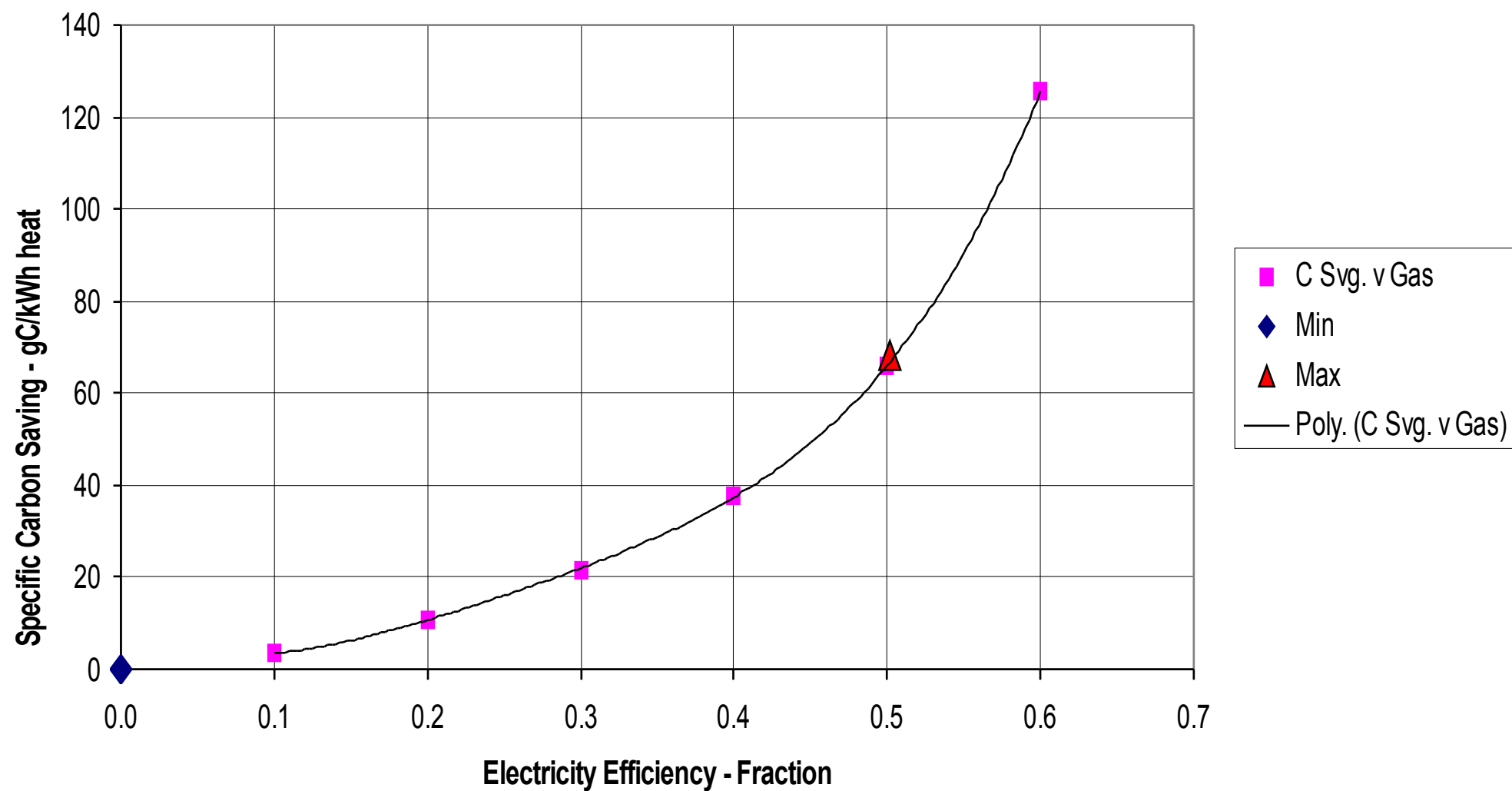
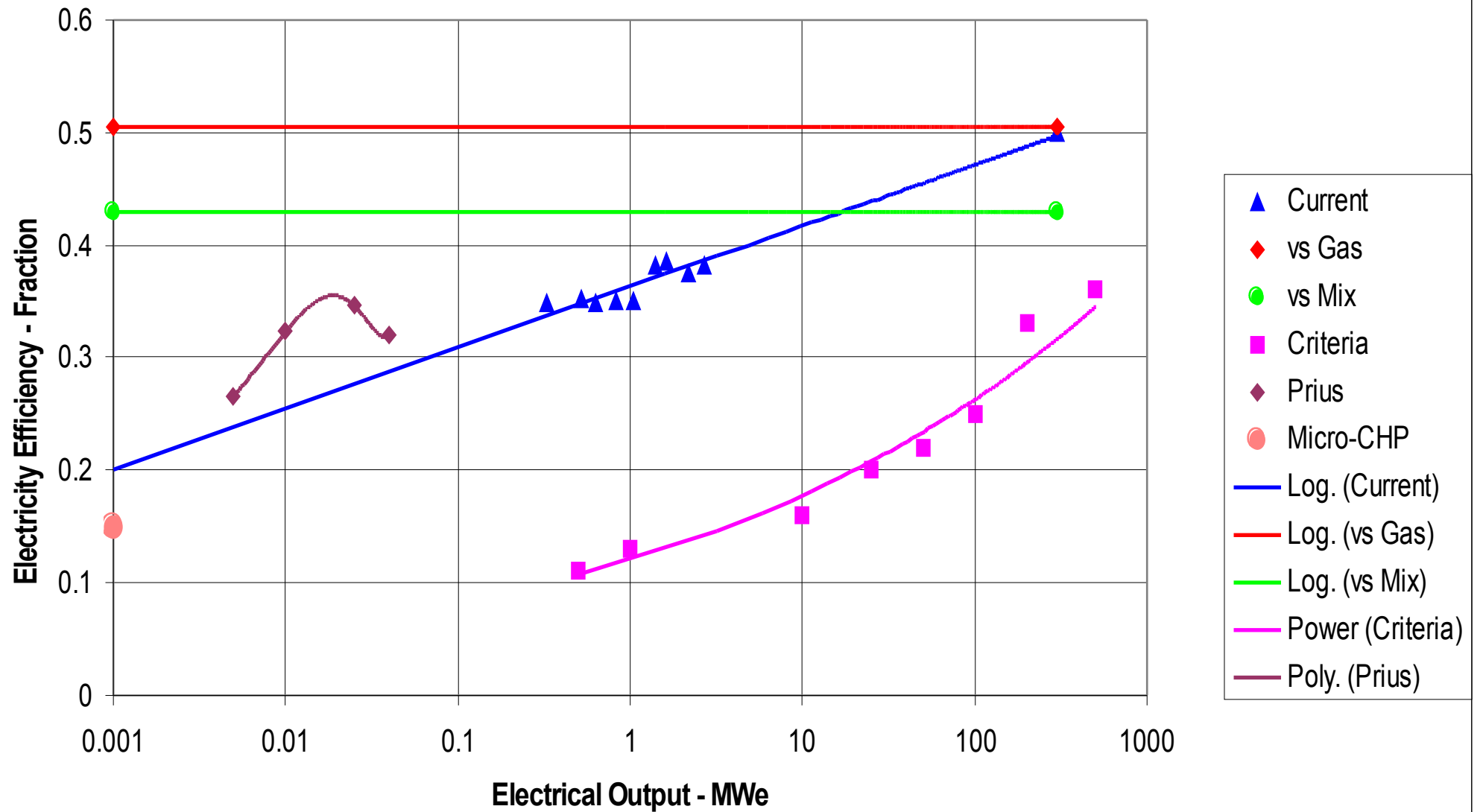


Fig. 13 - CHP Quality Assessment Criteria



**Fig. 14 - Climate Change Levy Relief v Electricity Efficiency
for Gas-Fuelled CHP Units with a Total Efficiency of 0.8
v Gas Boilers of 0.8 and Mix- or Gas-Fuelled Electricity Generators**

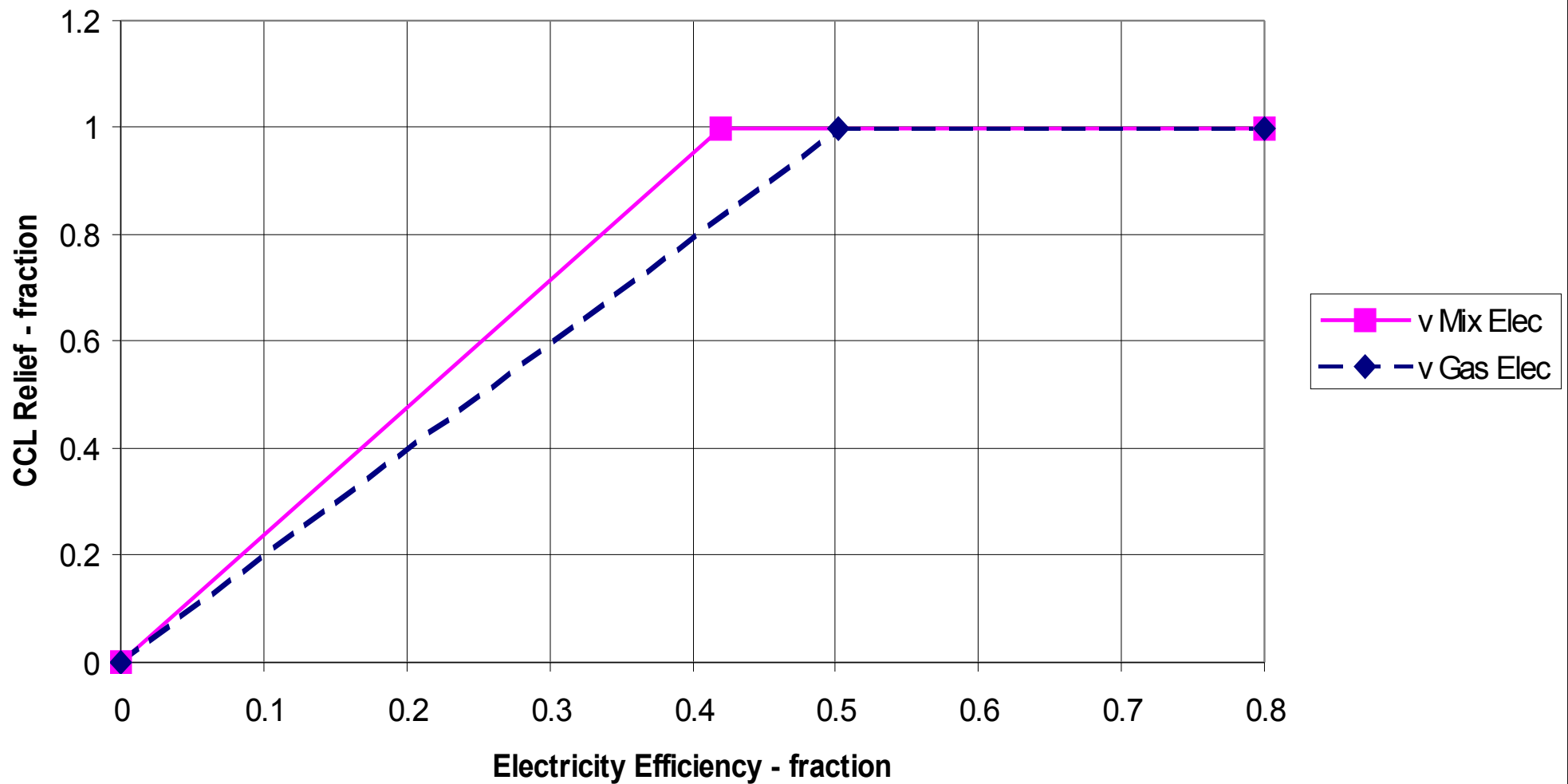


Fig. 15 - Imported Ethanol v UK Land for Biomass Crops

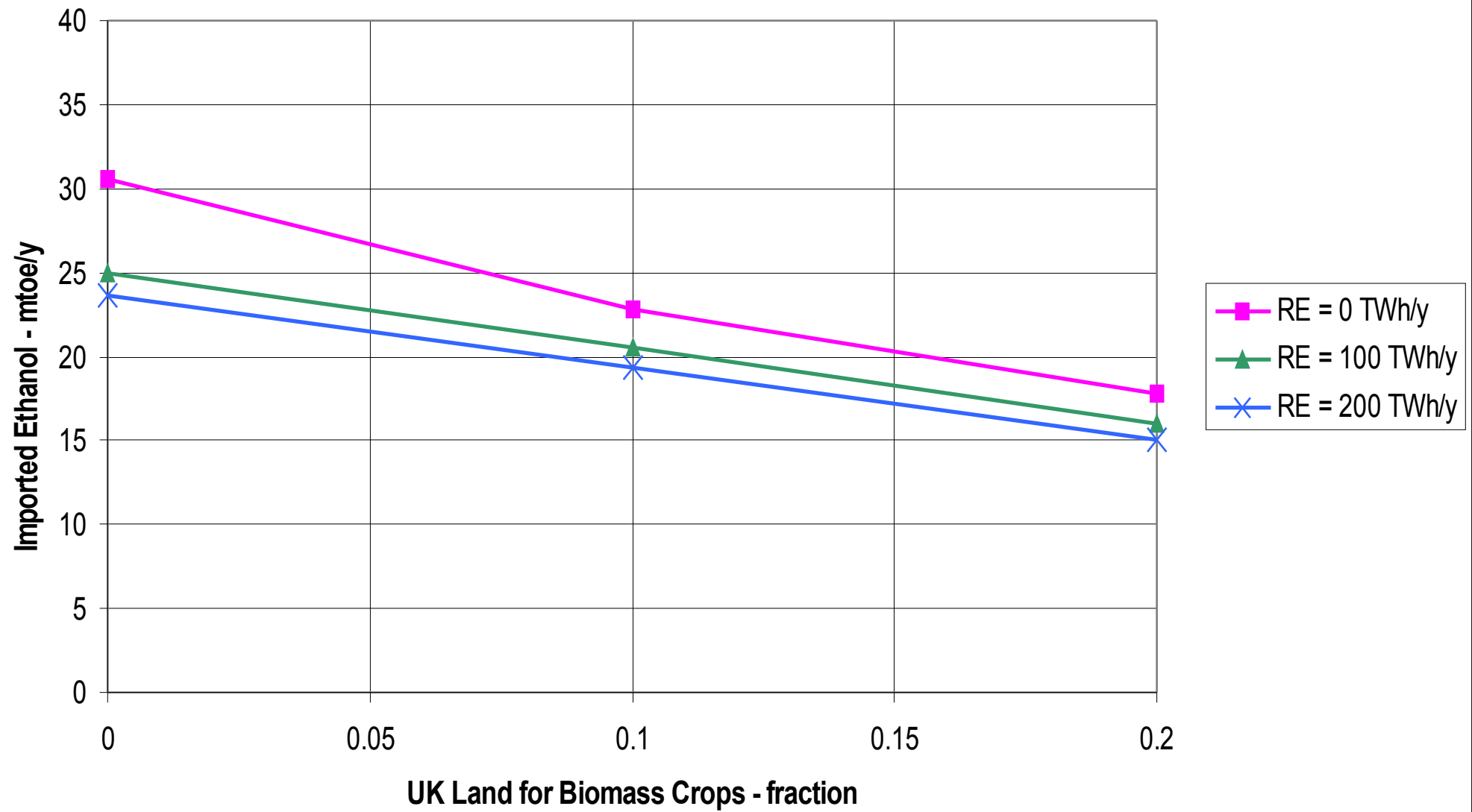


Fig. 16 - District Heating Fraction

