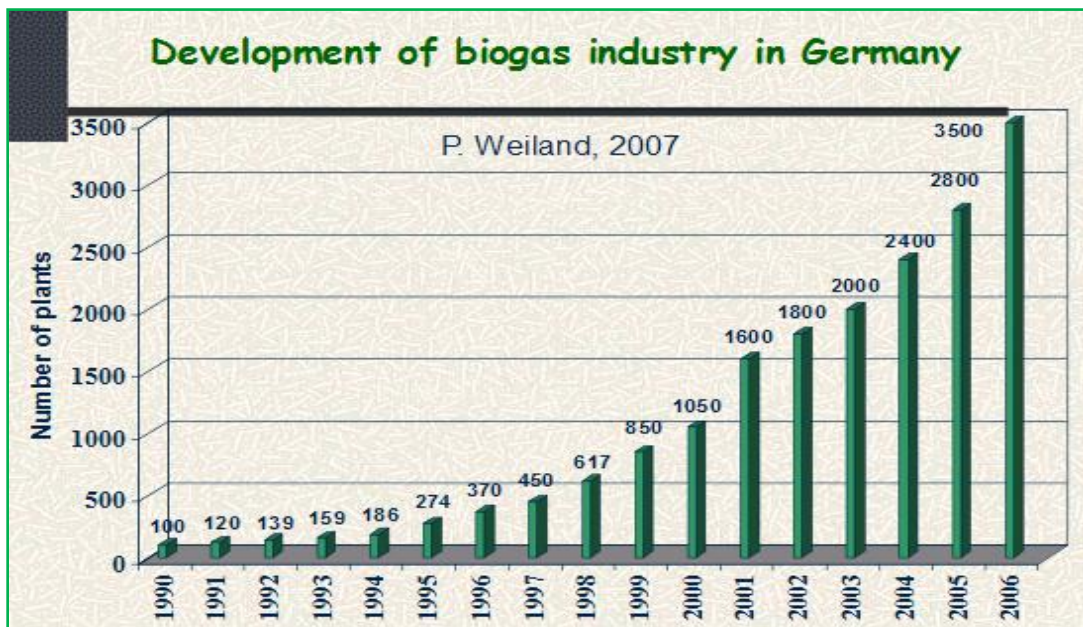


Numerical Data

Energy content of biogas

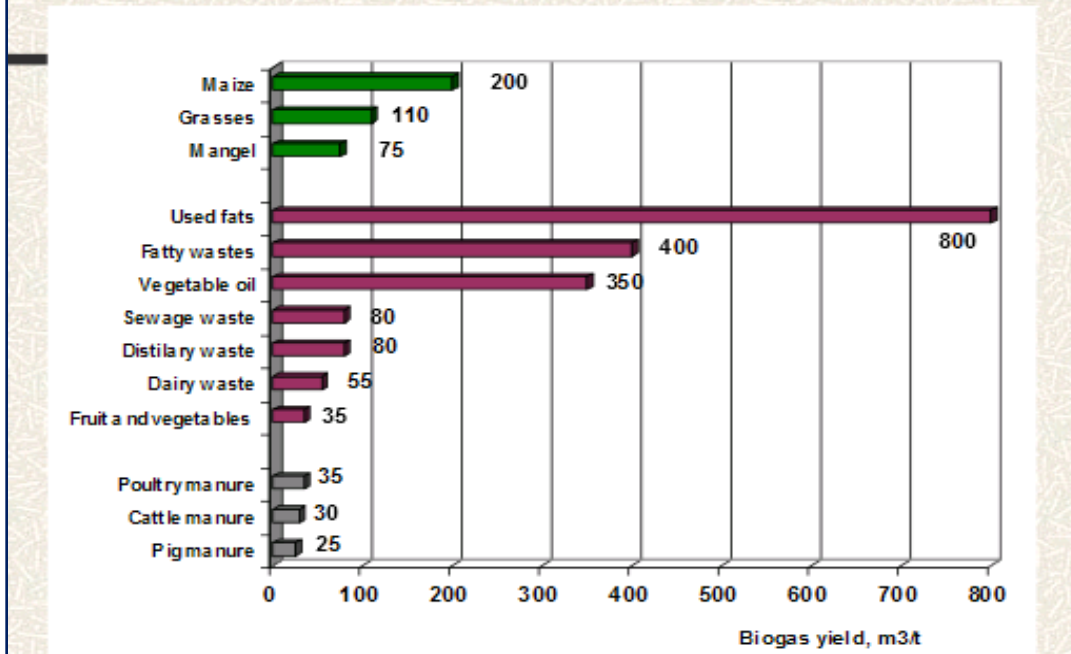
Vehicle fuel	Energy content [kWh]
1 Nm ³ upgraded biogas (97 % methane)	9.67
1 Nm ³ natural gas	11.0
1 litre petrol	9.06
1 litre diesel	9.8
1 litre E85 (vehicle fuel with 85% ethanol and 15% gasoline)	6.37 (summer, 85% ethanol) 6.59 (winter, 79.5% ethanol)

Source: www.energinet.dk, 2011-02-15



Source: Rakican, 2007

Biogas yields from different biomass



Biogas yields (m³ wet tonne⁻¹)

Agricultural energy crops	Biogas yield
Meadow grass	98
Maize silage	190
Grass silage	183
Milled grain	597
Corn cop mix (5.3% fibre)	391
Total plant grain silage	195

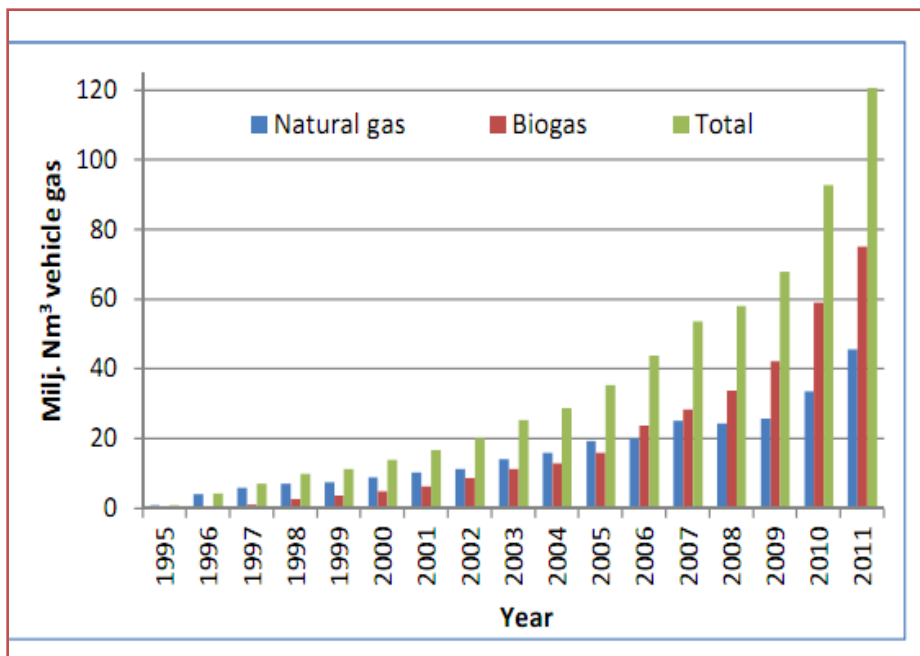
Source: <http://www.sainonline.org>

Biogas production from crop plants in Sweden

Substrate	Harvest ¹⁾	TS	Methane yield	Substrate need	Land requirement
	[ton/ha and year]	[% of wet weight]	[Nm ³ methane/ ton wet weight]	[ton/GWh]	[ha/GWh]
Jerusalem artichoke ²⁾	60	22	48	1500	25
Maize	43	30	95	1070	25
Potato	26	25	100	1020	39
Sugar beet ³⁾	50	24	94	1090	22
Grass	22	35	95	1100	50
Wheat grain	5.2	86	370	300	58

Biogas production in Sweden by using crops

(Source: <http://www.bioenergyportalen.se>, 2011-02-15)



Sold volume of natural gas and biogas as vehicle fuel, 1995-2011

Source: <http://www.gasbil.se>, 2012-03-12