

DANSK BIOMETHANOL APS

Budget Twenty + One Year

Budget 20+1 year	Methanol, l	SELF, l	OUT, l	SELF DKK/l	OUT DKK/l	SELF, DKK	OUT, DKK	Heating, DKK	Methane DKK	Subsidy, DKK	Turnover, DKK	Cost DKK	Gross profit, DKK	IRR%
Pre-production - 2014					4,75									
Pre-production - 2015					4,92									
Pre-production - 2016					5,09							260.070.000		
Pre-production - 2017					5,26									
Production - 2018	10.000.000	500.000	9.500.000	6,43	5,43	3.215.000	51.585.000	3.750.000	2.250.000	38.391.600	99.191.600	57.800.000	41.391.600	16%
Production - 2019	10.000.000	1.000.000	9.000.000	6,60	5,60	6.600.000	50.400.000	3.750.000	2.250.000	37.674.000	100.674.000	57.800.000	42.874.000	16%
Production - 2020	10.000.000	1.500.000	8.500.000	6,77	5,77	10.155.000	49.045.000	3.750.000	2.250.000	36.956.400	102.156.400	57.800.000	44.356.400	17%
Production - 2021	10.000.000	2.000.000	8.000.000	6,94	5,94	13.880.000	47.520.000	3.750.000	2.250.000	36.238.800	103.638.800	57.800.000	45.838.800	18%
Production - 2022	10.000.000	2.500.000	7.500.000	7,11	6,11	17.775.000	45.825.000	3.750.000	2.250.000	35.521.200	105.121.200	57.800.000	47.321.200	18%
Production - 2023	10.000.000	3.000.000	7.000.000	7,28	6,28	21.840.000	43.960.000	3.750.000	2.250.000	34.803.600	106.603.600	57.800.000	48.803.600	19%
Production - 2024	10.000.000	3.500.000	6.500.000	7,45	6,45	26.075.000	41.925.000	3.750.000	2.250.000	34.086.000	108.086.000	57.800.000	50.286.000	19%
Production - 2025	10.000.000	4.000.000	6.000.000	7,62	6,62	30.480.000	39.720.000	3.750.000	2.250.000	33.368.400	109.568.400	57.800.000	51.768.400	20%
Production - 2026	10.000.000	4.500.000	5.500.000	7,79	6,79	35.055.000	37.345.000	3.750.000	2.250.000	32.650.800	111.050.800	57.800.000	53.250.800	20%
Production - 2027	10.000.000	5.000.000	5.000.000	7,96	6,96	39.800.000	34.800.000	3.750.000	2.250.000	31.933.200	112.533.200	57.800.000	54.733.200	21%
Production - 2028	10.000.000	5.500.000	4.500.000	8,13	7,13	44.715.000	32.085.000	3.750.000	2.250.000	31.215.600	114.015.600	57.800.000	56.215.600	22%
Production - 2029	10.000.000	6.000.000	4.000.000	8,30	7,30	49.800.000	29.200.000	3.750.000	2.250.000	30.498.000	115.498.000	57.800.000	57.698.000	22%
Production - 2030	10.000.000	6.500.000	3.500.000	8,47	7,47	55.055.000	26.145.000	3.750.000	2.250.000	29.780.400	116.980.400	57.800.000	59.180.400	23%
Production - 2031	10.000.000	7.000.000	3.000.000	8,64	7,64	60.480.000	22.920.000	3.750.000	2.250.000	29.062.800	118.462.800	57.800.000	60.662.800	23%
Production - 2032	10.000.000	7.500.000	2.500.000	8,81	7,81	66.075.000	19.525.000	3.750.000	2.250.000	28.345.200	119.945.200	57.800.000	62.145.200	24%
Production - 2033	10.000.000	8.000.000	2.000.000	8,98	7,98	71.840.000	15.960.000	3.750.000	2.250.000	27.627.600	121.427.600	57.800.000	63.627.600	24%
Production - 2034	10.000.000	8.500.000	1.500.000	9,15	8,15	77.775.000	12.225.000	3.750.000	2.250.000	26.910.000	122.910.000	57.800.000	65.110.000	25%
Production - 2035	10.000.000	9.000.000	1.000.000	9,32	8,32	83.880.000	8.320.000	3.750.000	2.250.000	26.192.400	124.392.400	57.800.000	66.592.400	26%
Production - 2036	10.000.000	9.500.000	500.000	9,49	8,49	90.155.000	4.245.000	3.750.000	2.250.000	25.474.800	125.874.800	57.800.000	68.074.800	26%
Production - 2037	10.000.000	10.000.000	0	9,66	8,66	96.600.000	0	3.750.000	2.250.000	24.757.200	127.357.200	57.800.000	69.557.200	27%
Production - 2038	10.000.000	10.000.000	0	9,83	8,83	98.300.000	0	3.750.000	2.250.000	24.039.600	128.339.600	44.800.000	83.539.600	32%
Total twenty one years	210.000.000	115.000.000	95.000.000			999.550.000	612.750.000	78.750.000	47.250.000	655.527.600	2.393.827.600	1.460.870.000	1.193.027.600	
Average	10.000.000	5.476.190	4.523.810	8,69	6,45	47.597.619	29.178.571	3.750.000	2.250.000	31.215.600	113.991.790	69.565.238	56.810.838	22%

Assumptions

Methanol is gradually sold from own filling stations (SELF) and consequently sales to oil companies (OUT) go to zero after twenty years.

Out of a total 4.400 kW wasted heat 1.600 kW is utilized for biogas substrate heating and 1.000 kW for biogas upgrading. 1.800 kW is available for district heating and drying applications at ESØ.

Straw generates a surplus of 1.000.000 Nm³ biomethane sold as natural gas at the NordPool Gas Exchange.

Subsidies until 2020 are regulated by law. Subsidies are assumed to continue at gradually reduced tariffs.

Prices of methanol from own petrol pumps are assumed one DKK/liter higher than outlets to oil companies. This is - according to EOF - in line with current consumer prices at the pump less VAT and taxes.

All costs are in real terms. Over a twenty-year period, the price of petrol went up by 0.17 DKK per liter in real terms on an annual average. Methanol – replacing the gasoline – is assumed to increase in real terms too.

The investment is depreciated linearly over twenty years. The scrap value is high due to an adequate maintenance program.

February 19, 2014