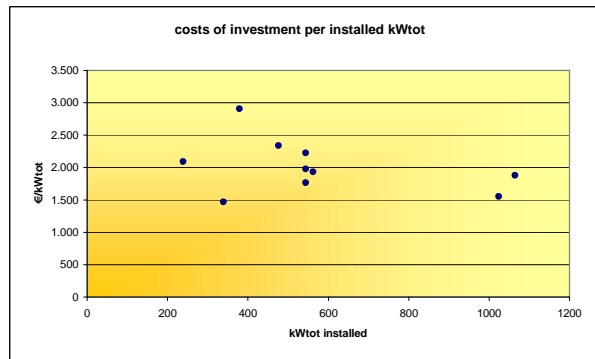
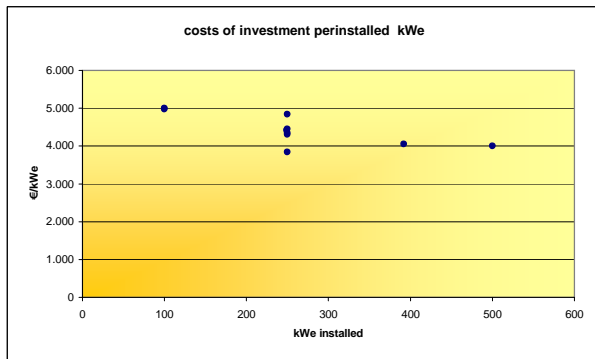


RES-e Regions WP4 Benchmarking of technologies

Technology

Biogas CHP

Installation No.	1	2	3	4	5	6	7	8	9	10
Country	Austria	Austria	Austria	Austria	Austria	Austria	Austria	Austria	Austria	Austria
Place of installation	Freistadt	Kallham	Kirchberg/Donau	Mehrbach	Neuhaus	Reichenthal	St. Martin	Saxen	Weißkirchen	Wels
Size (kWtot)	562	476	544	379	239	544	339	544	1024	1065
Size (kWe)	250	250	250	249	100	250	100	250	392	500
Size (kWth)	312	226	294	130	139	294	239	294	632	565
Total investment	1.087.000	1.113.300	960.000	1.101.000	500.000	1.210.000	498.000	1.076.000	1.590.334	2.000.000
Annual output- gas (m3)	2.540.800	2.054.385	2.426.775	1.639.390	1.208.606	976.302.500	1.760.481	2.428.010	4.881.781	4.869.631
Annual output-electricity (kWh)	1.985.000	1.929.000	1.965.000	1.984.000	883.000	1.950.000.000	883.000	1.966.000	3.238.000	4.037.000
Annual output-heat (kWh)	2.477.280	1.743.816	2.310.840	1.035.823	1.227.370	2.084.000	2.110.370	2.312.016	5.220.449	4.561.810
indicator 1 - €/kWe	4.348	4.453	3.840	4.422	5.000	4.840	4.980	4.304	4.057	4.000
indicator 2 - €/kWtot	1.934	2.339	1.765	2.905	2.092	2.224	1.469	1.978	1.553	1.878



RES-e Regions WP4 Benchmarking of technologies

Technology

Small scale hydro

Installation No.	1	2	3	4	5	6	7	8	9	10
Country	Austria	Austria	Austria	Austria	Austria	Austria	Austria	Austria	Austria	Austria
Place of installation	Marchtrenk	Schwertberg	Obermühl	Peilstein	Berg bei Rohrbach	Engerwitzdorf	Altenmarkt	Enns	Klaffer am Hochficht	Scharnstein
Size (kW)	45	200	369	5	201	39	420	12	134	48
Total investment	329.520	672.200	593.560	44.266	381.657	168.000	799.584	72.246	495.669	200.303
Annual output-electricity (kWh)	340.000	1.000.000	1.950.000	30.000	794.185	151.000	2.000.000	66.000	712.000	345.599
indicator 1: kWh/kW	7.556	5.000	5.285	6.000	3.951	3.872	4.762	5.500	5.313	7.200
indicator 2: costs of investment/kW	7.323	3.361	1.609	8.853	1.899	4.308	1.904	6.021	3.699	4.173
indicator 3: costs of investment/kWh	0,969	0,672	0,304	1,476	0,481	1,113	0,400	1,095	0,696	0,580
indicator 4										
indicator 5										

