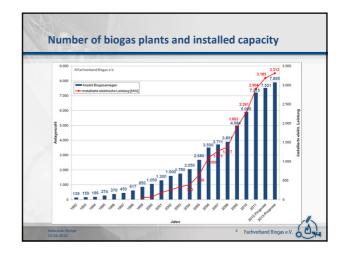


The Beginnings

- Pre-/post-war situation: Few plants, mostly sewage treatment, gas used in vehicles ; 2 agricultural plants known, gas in tractors and heating, input: manure
- Energy crises of the 70s: 30 40 agricultural plants, heating, (CHP)
- 1990 feed-in-legislation: guaranteed grid-access, low tariff for biogaselectricity; CHP, electricity primarily for own use, alternative inputs, landfill-gas
- 2000 feed-in-act: higher tariffs, CHP, growing competition for inputs
- 2004 revision of feed-in-act: differentiated tariffs for waste and (higher ones) for energy crops

² Fachverband Biogas e.V.



	End 2010	2011	Forecast 2012	Forecast 2013
Number of plants (thereof feeding biomethane)	5,905 (45)	7,215 (80)	7,521 (100)	7,895 (120)
Installed electric capacity (MW)	2,291	2,904	3,185	3,312
Addtitional installed electr. Capacity – new plants - repowering	398 MW	613 MW	110 MW 170 MW	126 MW 177 MW
Net electricity production in TWh/a	14.82	18.40	21.57	22.43
Supplied Households (in millions)	4.2	5.3	6.2	6.4
Share in electricity consuptiom in %	2.46%	3.03%	-	-
Turnover (Billion-€)	5.1	6,9	6.7	7.2
Jobs	39,128	54,005	48,565	51,863
Export quota in %	10%	10%	30%	36%

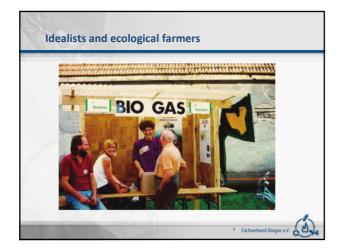


Problems we had to deal with

- CHP: no engines not enough good projects for waste heat usage
- Grid operators: unwillingness, unnecessary hurdles
- Technical development: no help from science
- Authorities: no expertise later growing demands (industry standard)
- Public: prejudices against and fear of the dangers of biogas
- Farmers: fear of competition, "maize problem"
- Feed-in-tariffs get more complicated with each revision of the EEG (2000/2004/2009/2012)

6 Fachverband Biogas e.V.

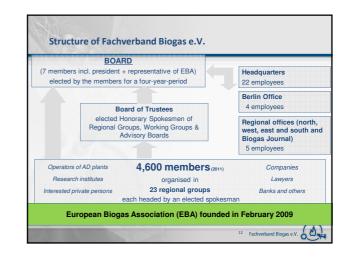






Fachverband Biogas e. V.

- Very soon it became obvious that we had to try and speak up politically, not only as far as the EEG was concerned, but also in aspect of many other legislations concerning biogas:
- water treatment, fertilizer regulation, building permits, waste directives, questions of hygiene, grid connection for electricity as well as gas grids, gas quality regulation, vehicle fuel regulation, safety etc.
- The Fachverband Biogas succeeded in becoming <u>the</u> voice of biogas in Germany. We joined forces with the other renewables in the BEE(Federal Association of Renewable Energy), and in 2009 initiated the founding of EBA, by the means of which we hope to establish a strong biogas representation in Brussels.









4