

































Non-technical Barriers

- Lack of suitable policies (legislation)
- High administrative burdens (permission procedures)
- Lack of financial incentives and investors
- Lack of (successful) pilot plants
- Lack of local biogas experts
- Lack of information
- Limited local availability of biogas technologies
- Weak waste treatment infrastructures

WIP

www.wip-munich.de

www.wip-munich.de

1st German-Turkish Biogas Workshop 2011

17

18



1st German-Turkish Biogas Workshop 2011



I. Suitable Policy Framework

- · Mandatory requirement: legislation on RE
- Quota/ Green certificates are weak tools ☺
- Preferred tool: Feed-in tariff system ☺
- Turkey has a feed-in tariff system (~0.10 €)! ⊕
 however, seems to be very low ⊕

WIP

www.wip-munich.de

1st German-Turkish Biogas Workshop 2011

19



II. Set-up of a strong Biogas Association

- A strong National Biogas Association is needed to:
 - Improve legislation (lobbying)
 - Represent / support industry
 - Implement Training
 - Provide Information
- C Turkey: BiyogazDer ☺

WIP

www.wip-munich.de

1st German-Turkish Biogas Workshop 2011

20







IV. Highlighting of Biogas Benefits

- Biogas benefits (GHG, best agricultural practices, jobs, energy security, etc.) must be highlighted in order to:
 - → Gain public acceptance
 - → Acceptance among Politicians
- Benefits must be specific and measurable!
 - → Research is necessary!
 - → Monitoring is necessary!

WIP

www.wip-munich.de

1st German-Turkish Biogas Workshop 2011

23



V. Lessons from other countries (examples)

Germany:

- → too much reliance on corn silage as feedstock: price fluctuations
- → only limited use of heat from CHP plants
- → insufficient legislation on the use of digestate from waste materials
- → open (not covered) digestate storage tanks

Czech Republic:

→ too high initial feed-in prices

UK

→ former application of inefficient quota system instead of feed-in systems

Latvia

- → wrong use /estimations of feedstock (corn yields are low)
- → high heat / insulation need due to cold winters

WIP

www.wip-munich.de

1st German-Turkish Biogas Workshop 2011

24





