

Biogas plant design

COMMUNITY INVOLVEMENT AND ACCEPTANCE.

CONSIDERATIONS AND DESIGN OF BIOGAS PLANTS
AT THE KNOWLEDGE CENTRE FOR AGRICULTURE IN DENMARK

Presentation by Leif Raun in Pescara, Italy, 25th of September 2012.

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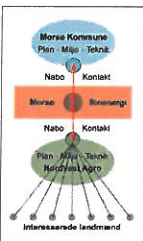
- **COMMUNITY INVOLVEMENT.**
 - Biogas a sensitive issue.
 - Legislation
 - explain and visualize new biogas installations in the community
- **Issues to be discussed with the local community.**
 - AD a threat against nature and the surroundings by means of facility outfit/design, smells and heavy traffic.
- **Community meetings and discussions**
 - At the municipal level together with the city council
 - For individual biogasplants

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Overall model for participatory planning and neighbor involvement.

- Municipality
- Neighbour contact
- Bioenergi plant
- Neighbour contact
- Extension services
- Interested farmers



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- **Landscape design unit at the Knowledge Centre for Agriculture.**
 - Makes sketches of new plants.
 - Makes visualizations of new plants.
 - For location decided after official approval.
 - For new plants within a certain area before official application. Preferable for optimal location.
- **Considerations for location**

Hide or flash the plant?

Less visible in the landscape:

 - Identify barriers of trees or bushes or establish new plantation.
 - Decrease the visibility of the plant in the landscape – excavation or lower parts in environment.
 - Where and from which angles can the plant be seen
 - Direction of the plant body in the landscape
 - Re-designing the units of the plant in new proportions new angles or twisted.
 - Colours for merger with the sky - or with the vegetation.

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- Sketches illustrations.
- Rough visualizations illustrations.
- View 04-test
- 2D-visualizations. Morsoe Bioenergi procedure.

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Sketchs biogas design



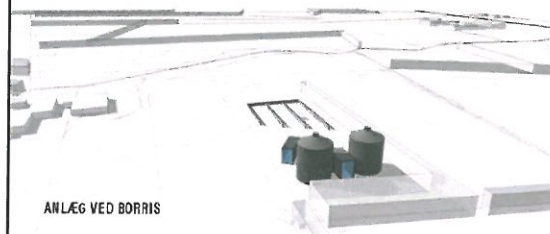
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