

The Unbeatable Beet

Beets today

Food crop

- 11 - 14 t sugar (food)
- 4 - 6 t pulp (feed)
- 2 - 3 t molasse (fermentation)
- recycling P (+N) to land

Energy crop (emerging)

- 7 t ethanol (fuel) + 6 t pulp (60-70% reduction emission)
- 10,000 m³ methane (>75% reduction emission)

Beets tomorrow

Sugar + 30%

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|----------|---|------------------------------|
| Protein | → | food / feed |
| Molasses | → | fertilizer + |
| Pulp | → | food fibres |
| | → | non food fibres |
| | → | C5/C6 sugars |
| | → | energy (biogas) |
| Leaves | → | food proteins |
| | → | as pulp (all) |
| Debris | → | energy (biogas) + fertilizer |

