



Ökonomische Kennzahlen der bayerischen Biogas-Pilotbetriebe

Ines Röhling

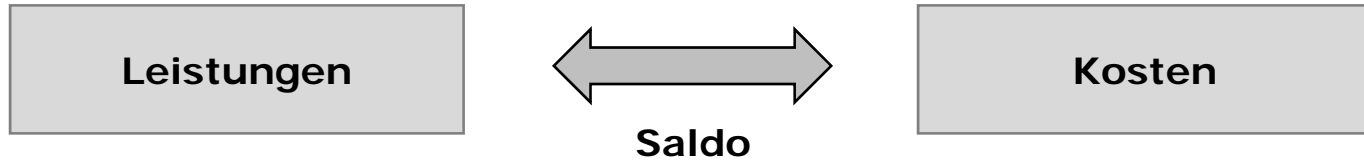
Martin Strobl

Bayerische Landesanstalt für Landwirtschaft

Institut für Agrarökonomie

Menzinger Str. 54, D-80638 München

martin.strobl@LfL.bayern.de



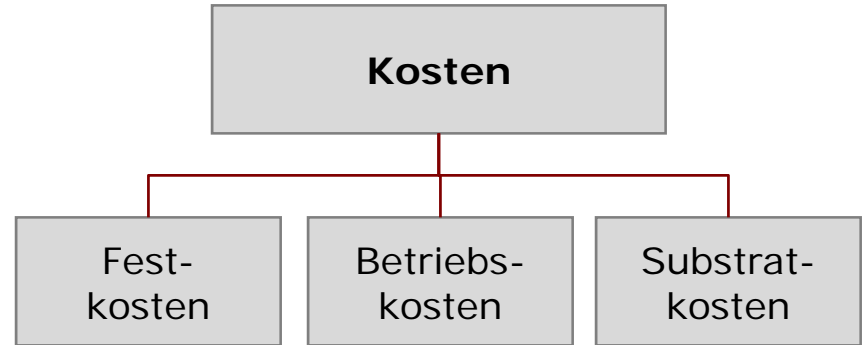
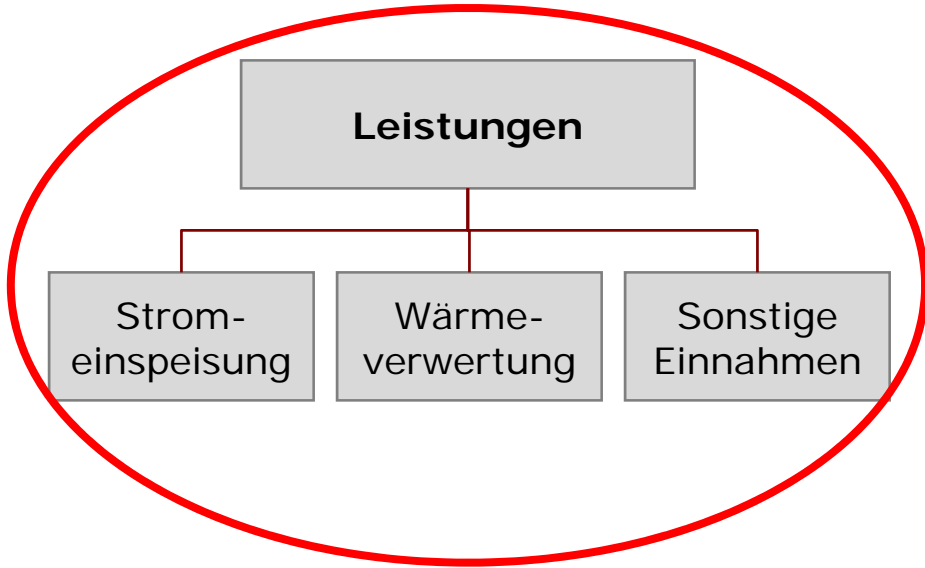
Durchschnitt:

Beleganzahl gesamt pro Anlage:	940 Stück
Belegpositionen gesamt pro Anlage:	2.610 Stück
Beleganzahl für 2007 pro Anlage:	290 Stück
Belegpositionen für 2007 pro Anlage:	647 Stück

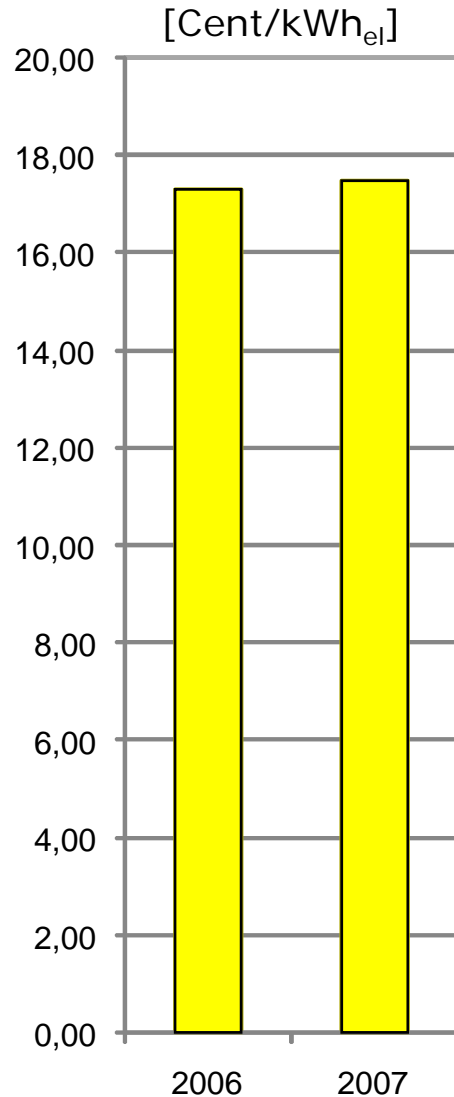
Beispiel:

Ermittlung der Abschreibung einer Pilotanlage für 2007.

Verarbeitung von **400** Belegen mit **1.153** Positionen.



Hinweis: Alle Beträge sind Nettobeträge

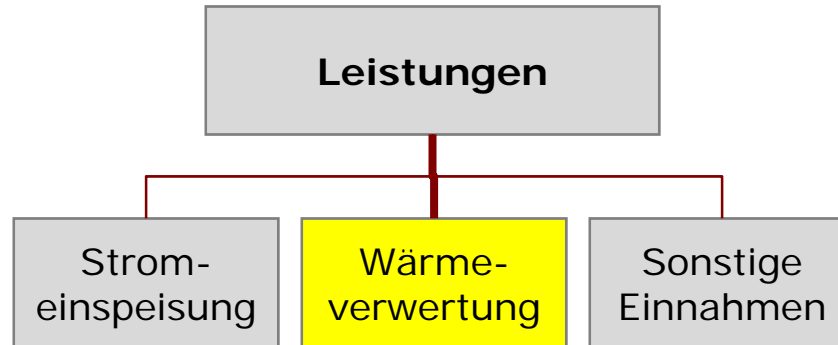
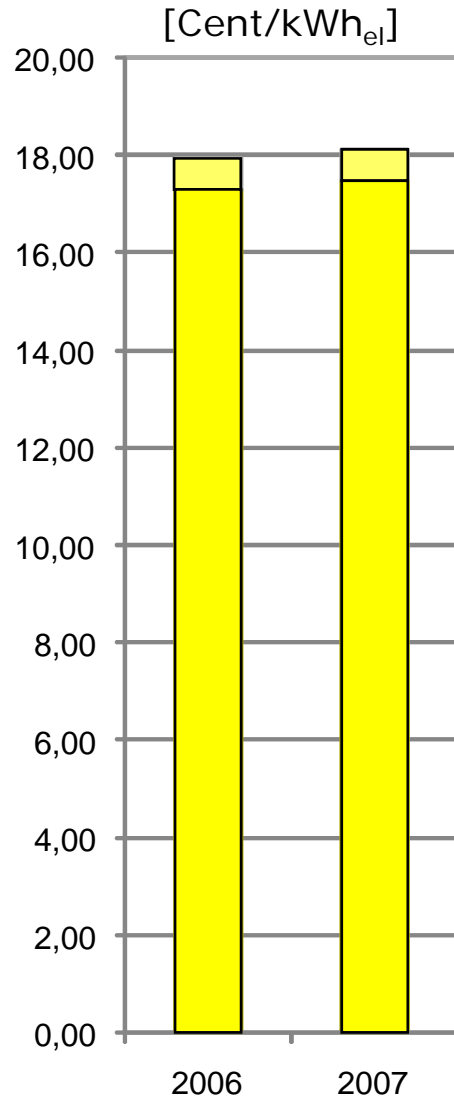


Leistungen aus Stromeinspeisung:

Pro Jahr: **456.308 [€]**

Pro kWh_{el}: **17,45 [Cent]**

Pro kW_{el}: **1.279 [€]**

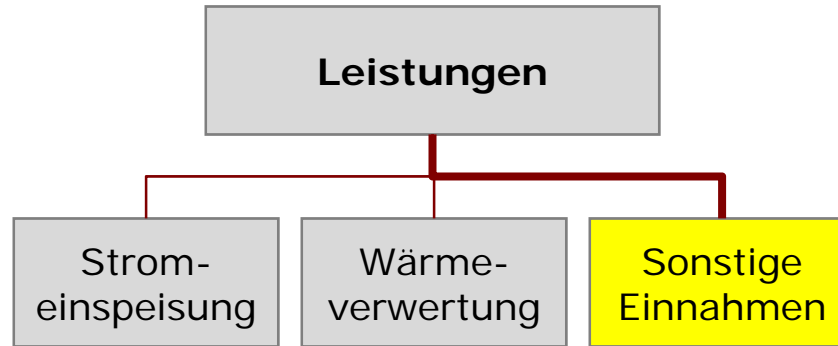
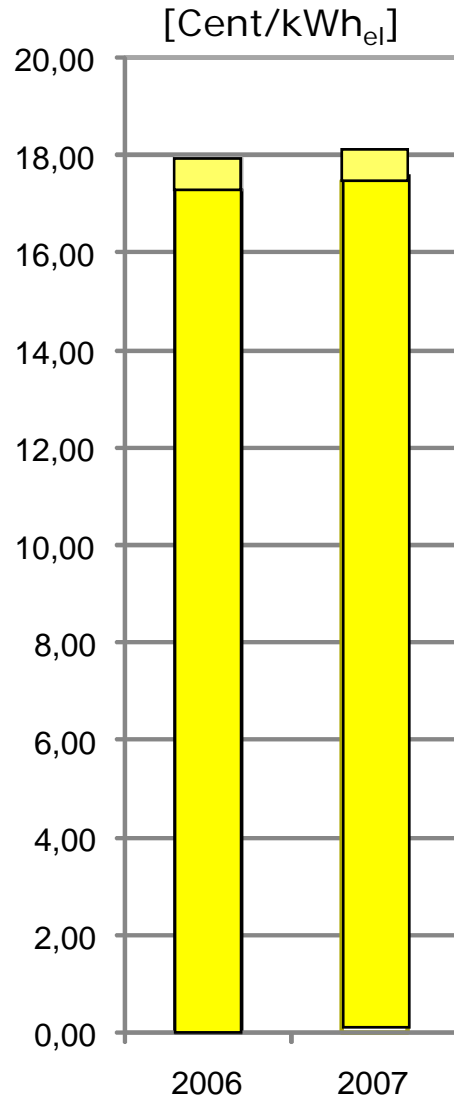


Leistungen aus Wärmeverwertung:

Pro Jahr: **17.195 [€]**

Pro kWh_{el}: **0,66 [Cent]**

Pro kW_{el}: **47 [€]**

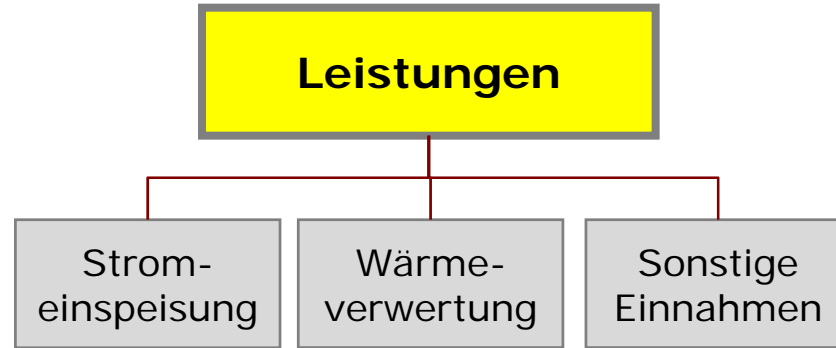
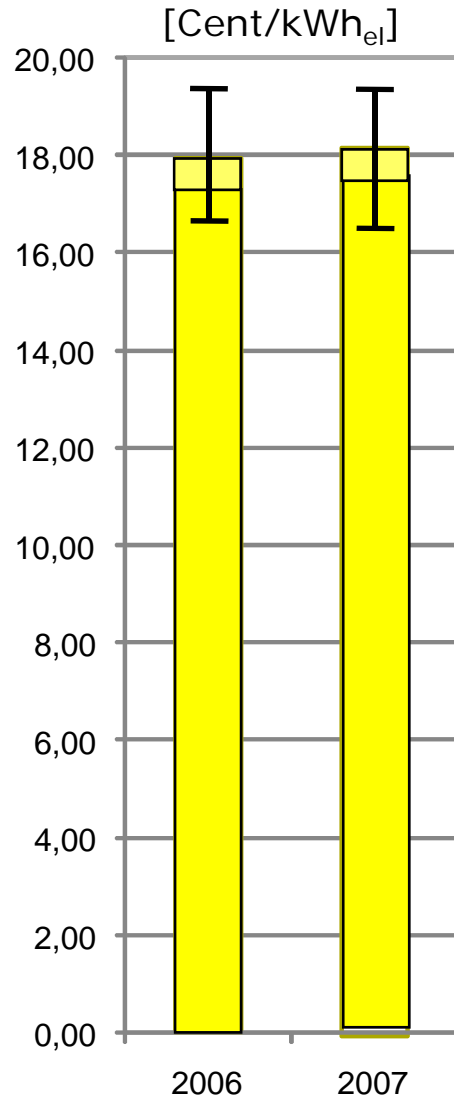


Sonstige Leistungen:

Pro Jahr: --- [€]

Pro kWh_{el}: --- [Cent]

Pro kW_{el}: --- [€]

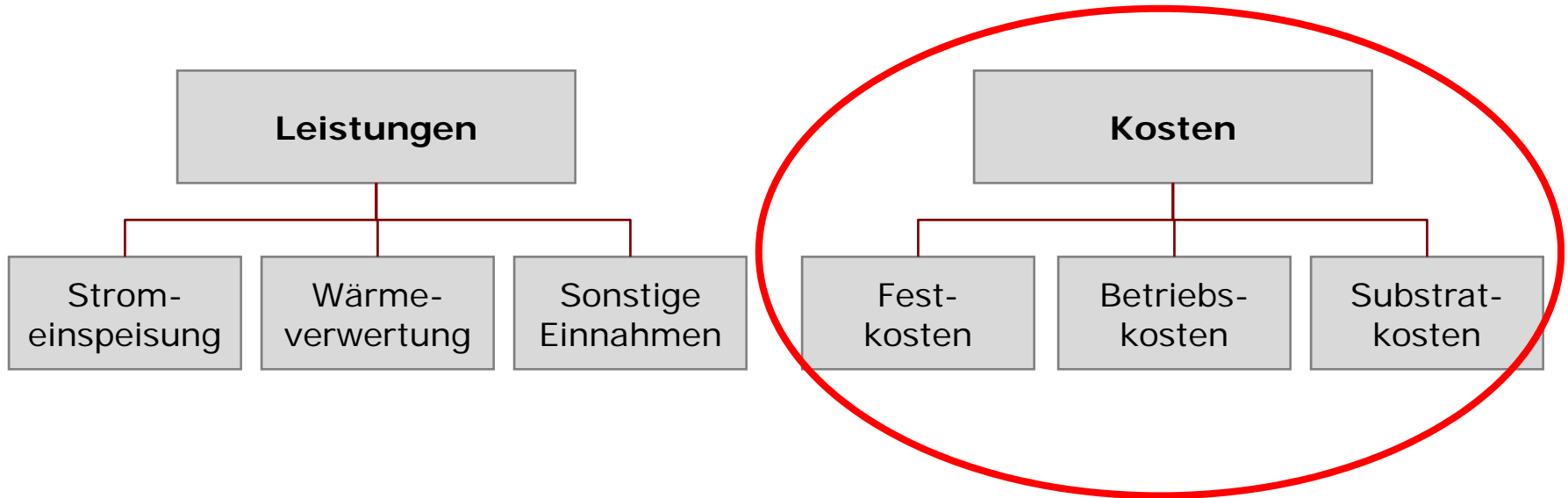


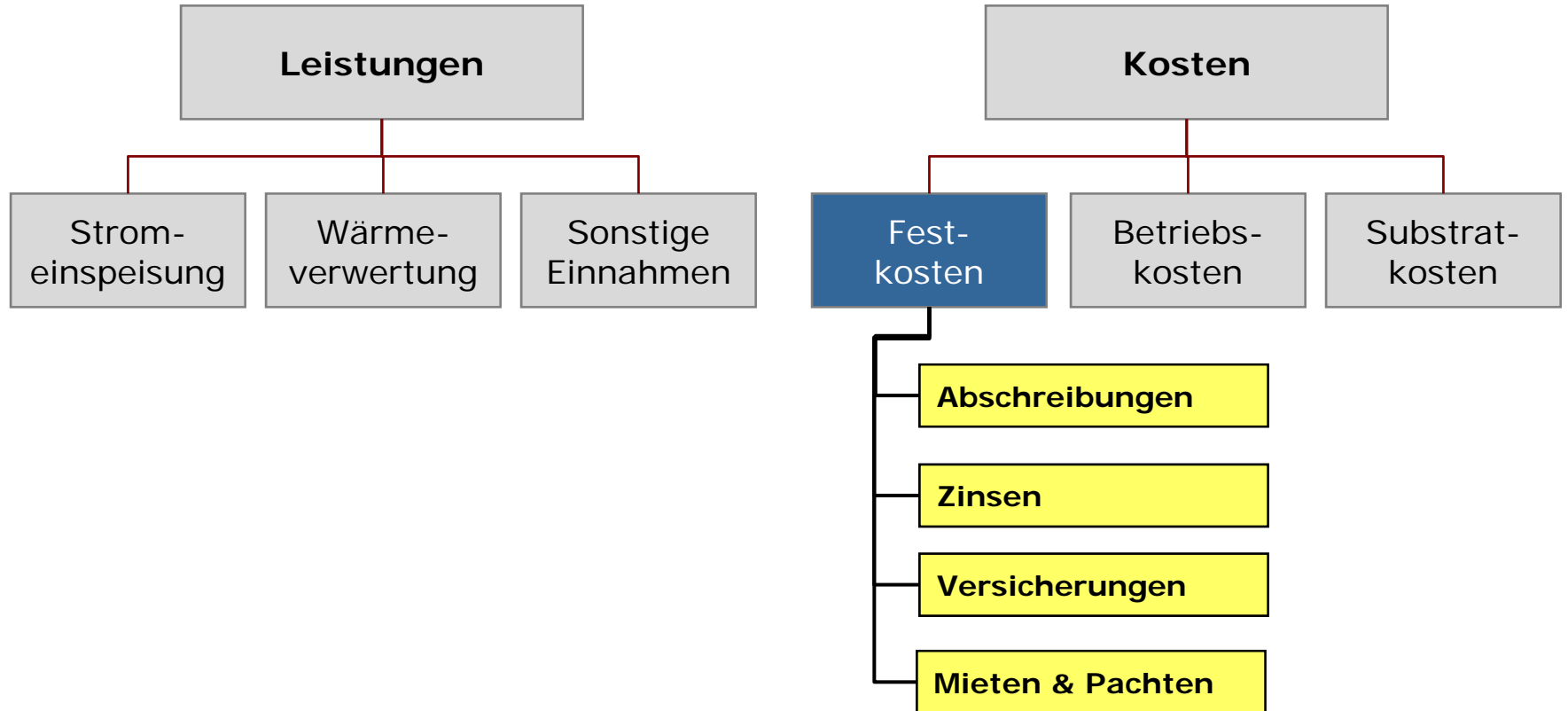
Summe der Leistungen:

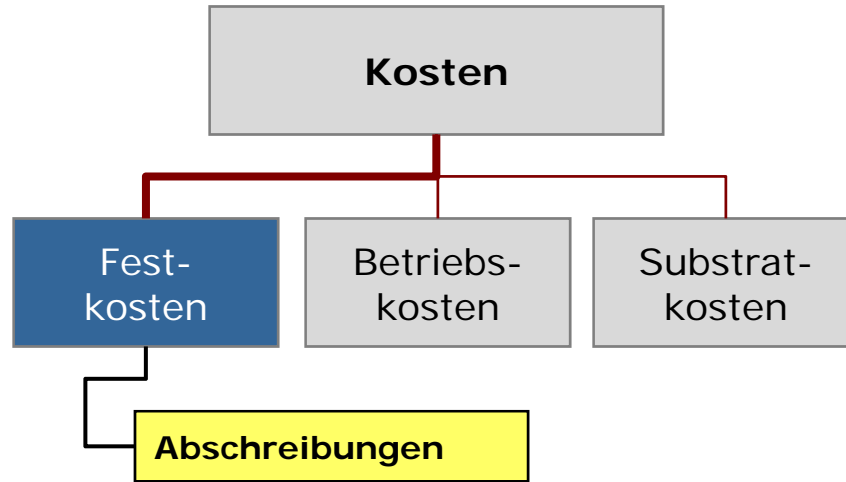
Pro Jahr: **476.205 [€]**

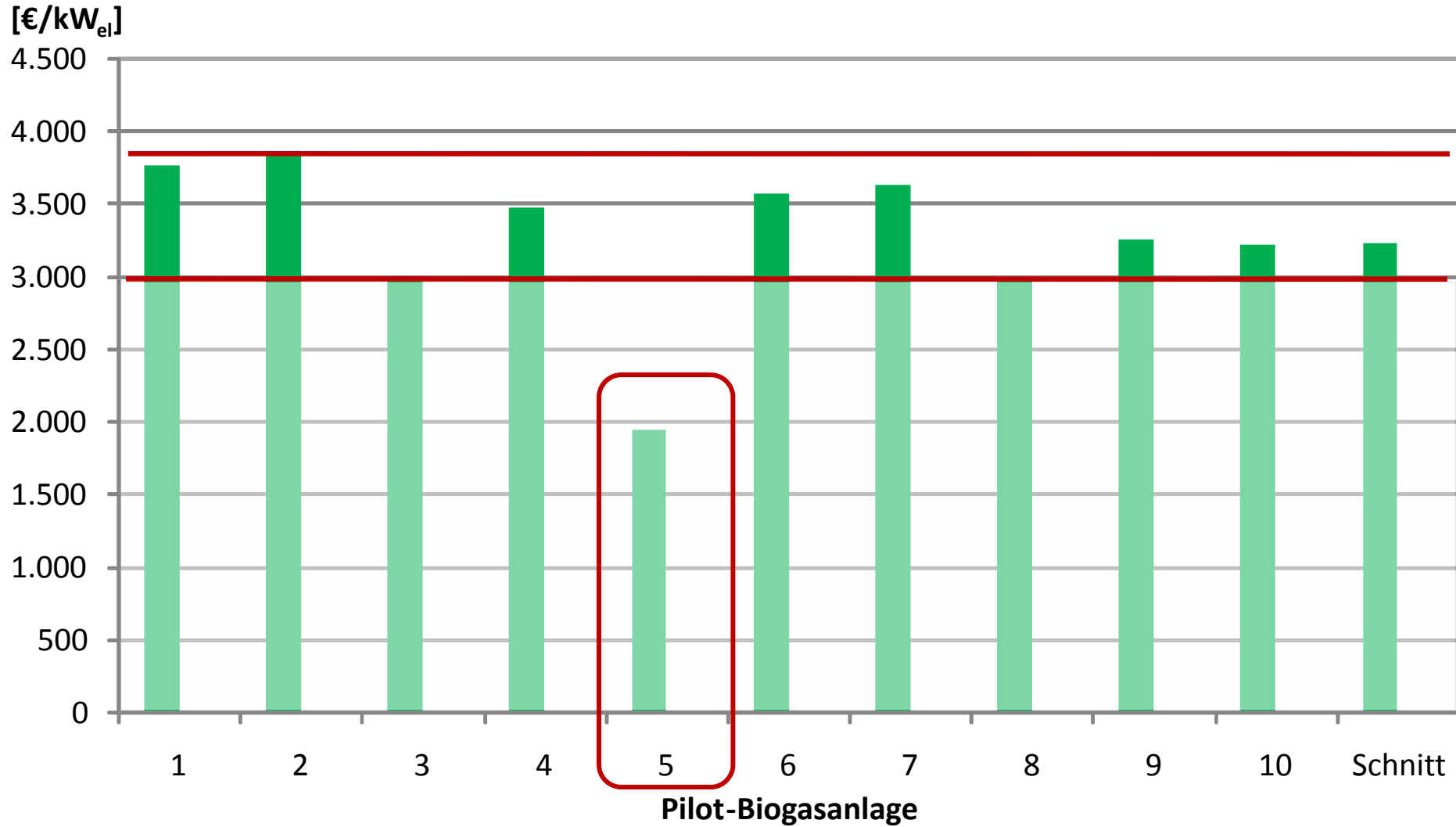
Pro kWh_{el}: **18,21 [Cent]**

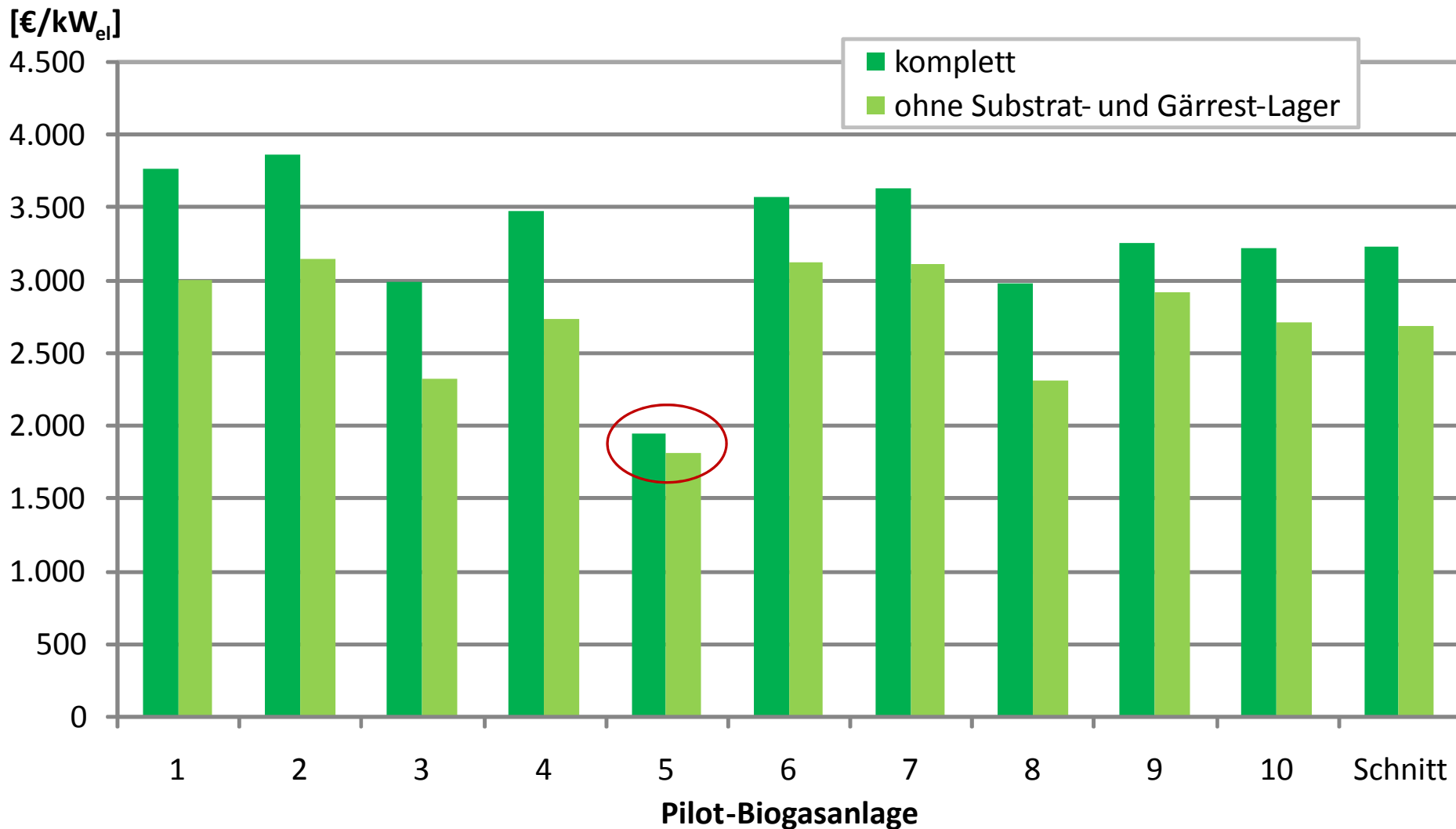
Pro kW_{el}: **1.315 [€]**

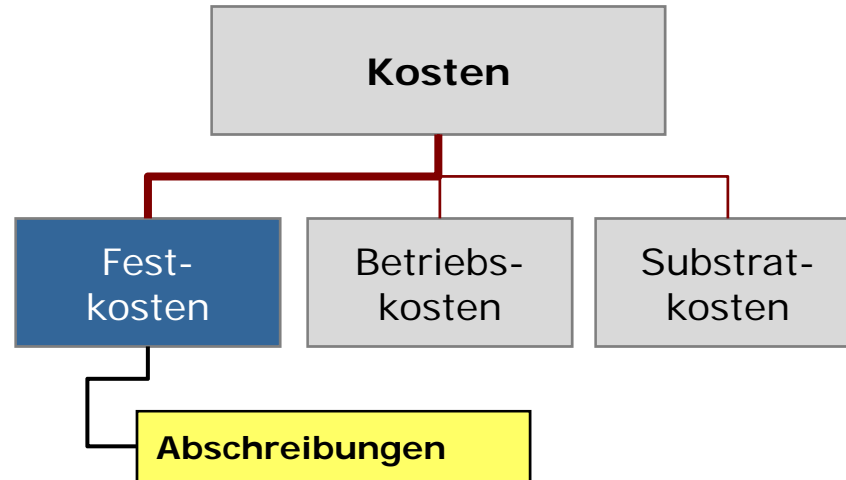
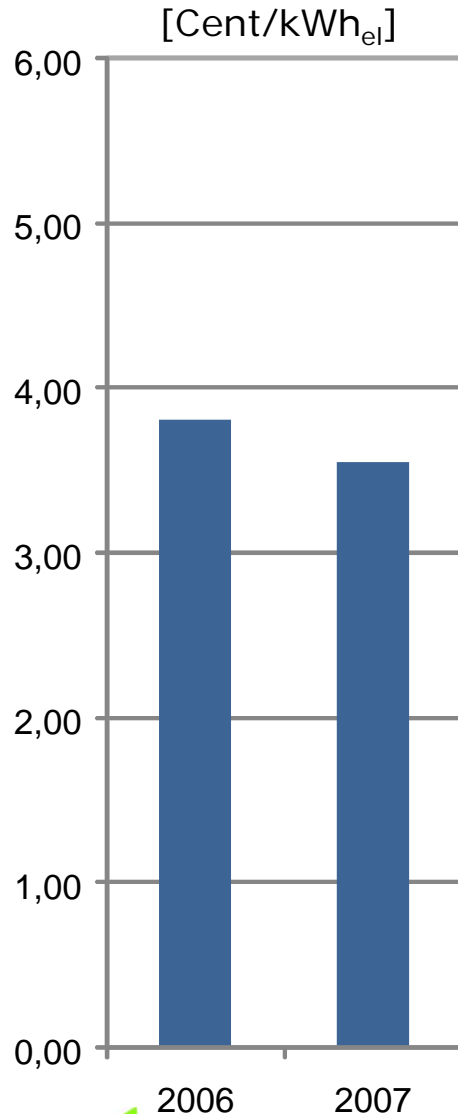












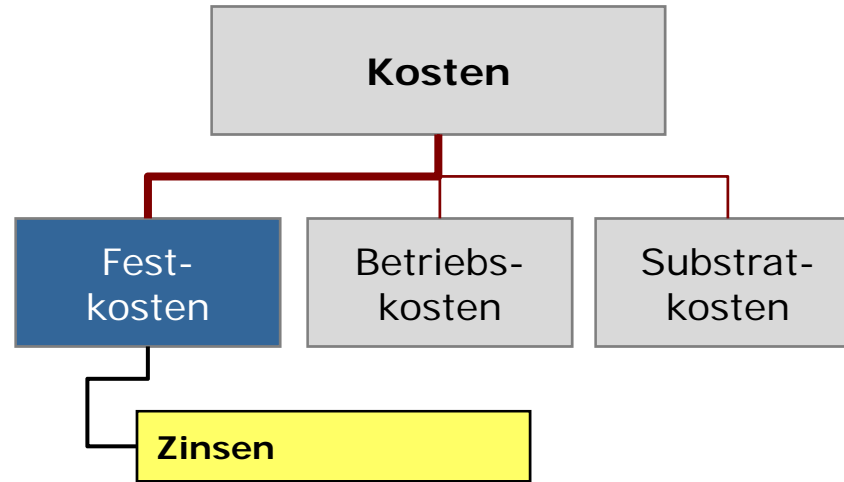
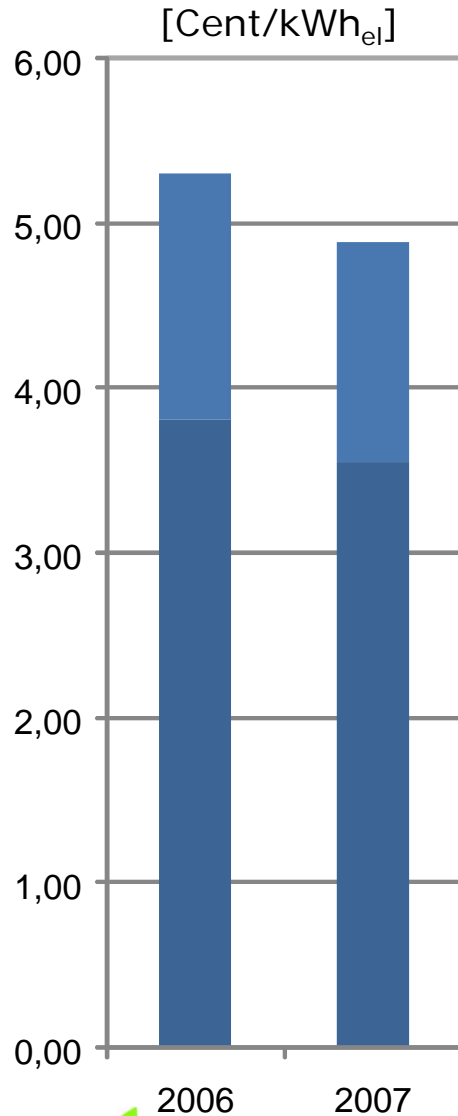
Kosten der Abschreibung:

Pro Jahr: **92.939 [€]**

Pro kWh_{el}: **3,55 [Cent]**

Pro kW_{el}: **260 [€]**

***Hinweis zur Abschreibungsdauer: ø 13 Jahre**



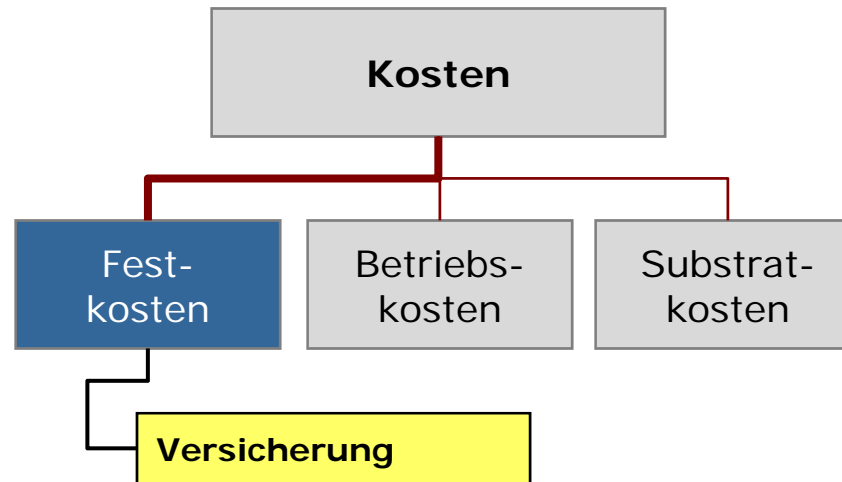
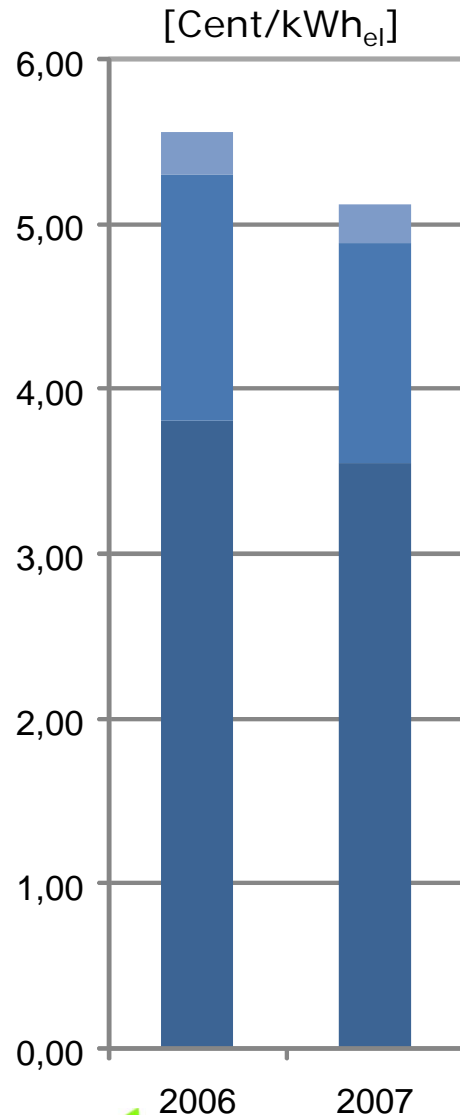
Zinsbelastung durch Fremdkapital:

Pro Jahr: **34.770 [€]**

Pro kWh_{el}: **1,33 [Cent]**

Pro kW_{el}: **97 [€]**

***Hinweis zum Zinssatz: ø 4,7 Prozent**



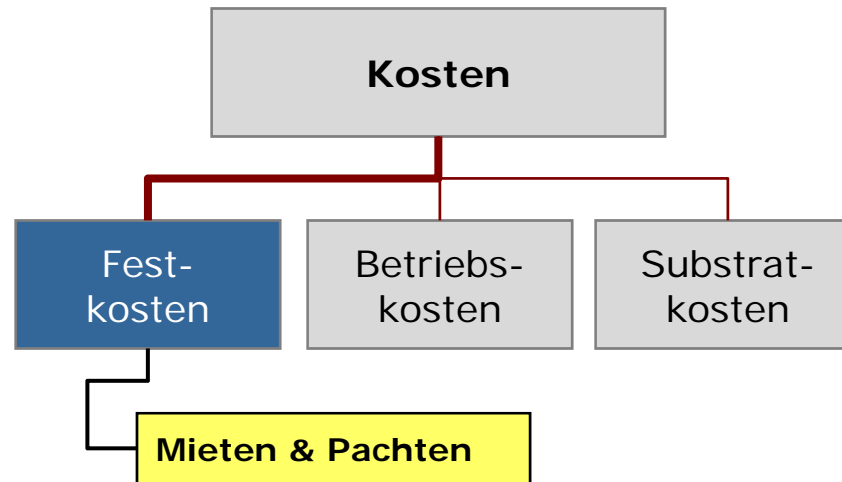
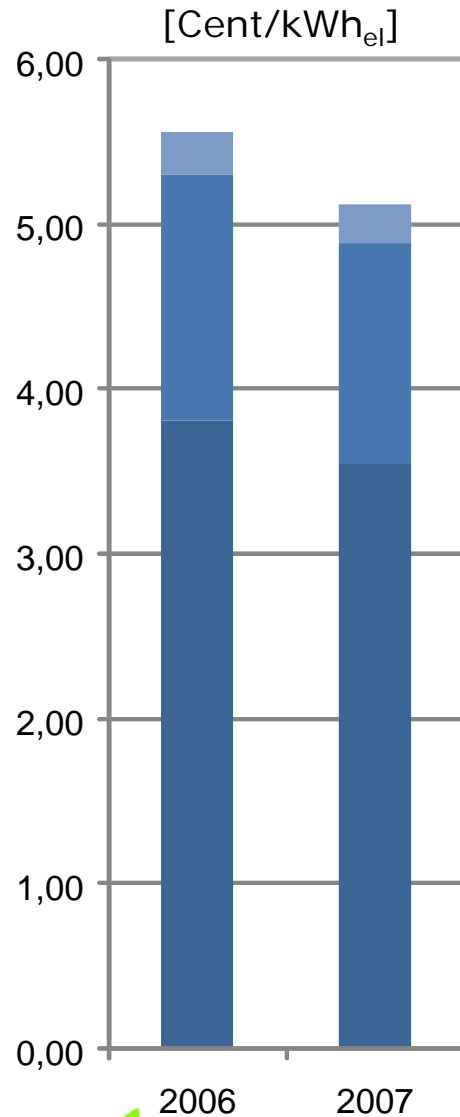
Kosten durch Versicherung:

Pro Jahr: **6.147 [€]**

Pro kWh_{el}: **0,24 [Cent]**

Pro kW_{el}: **17 [€]**

***Hinweis zum Anzahl der Policen: ø 4 Stück**

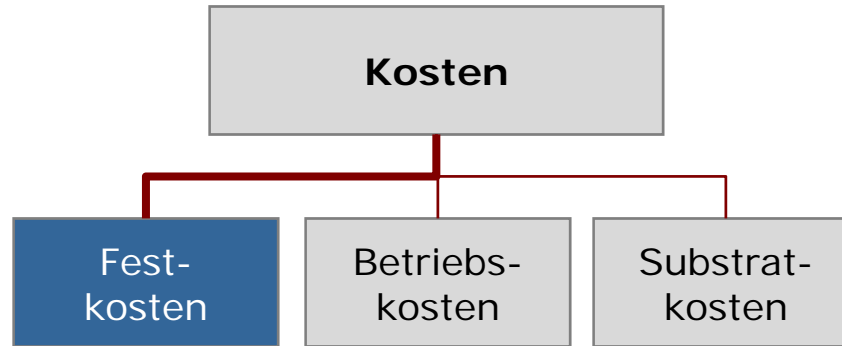
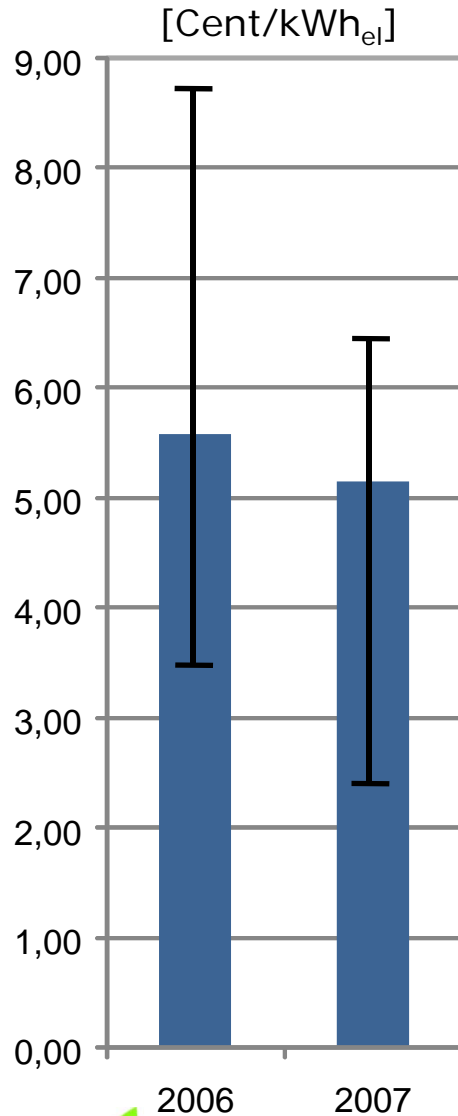


Kosten durch Mieten & Pachten:

Pro Jahr: --- [€]

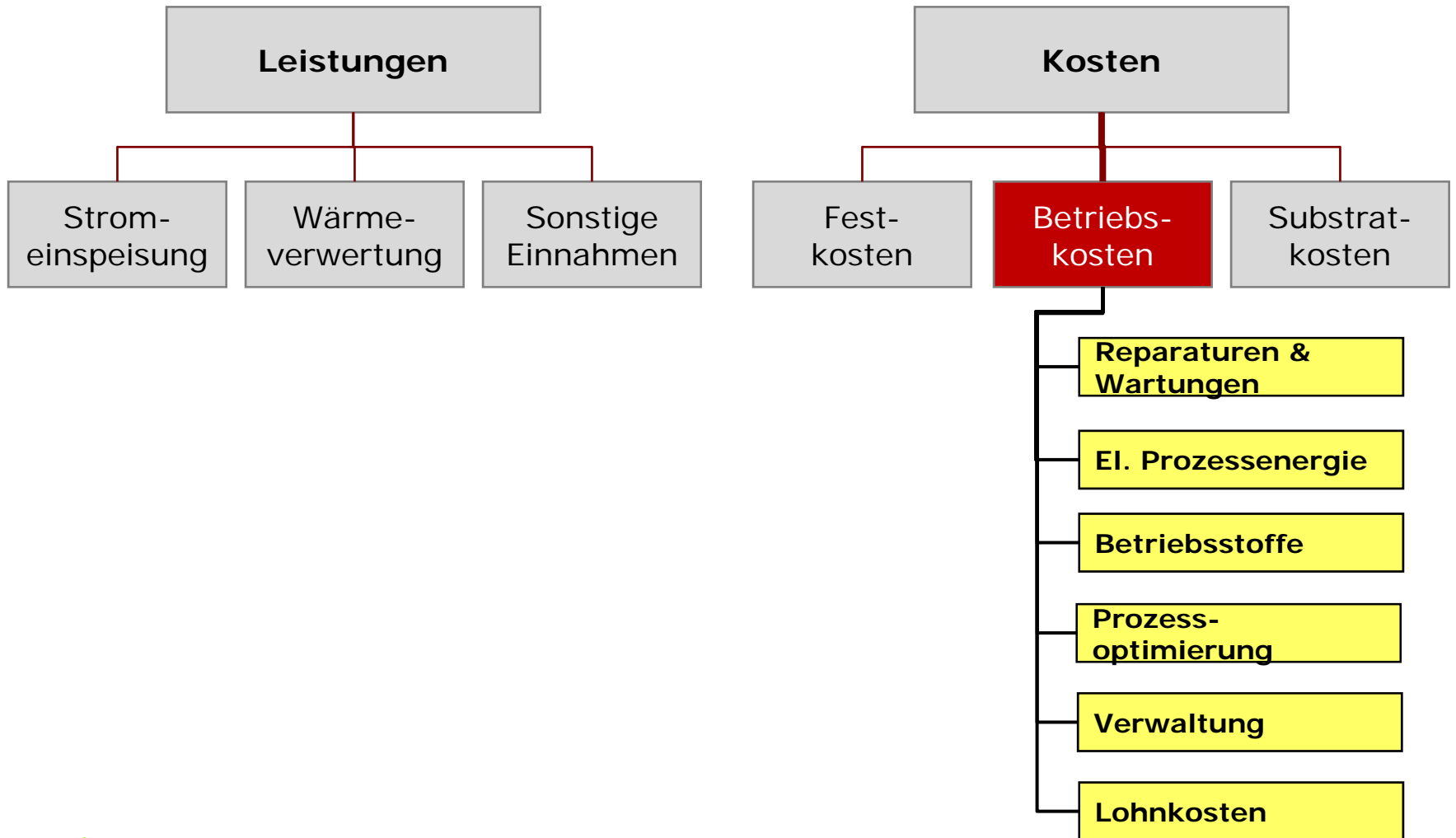
Pro kWh_{el}: --- [Cent]

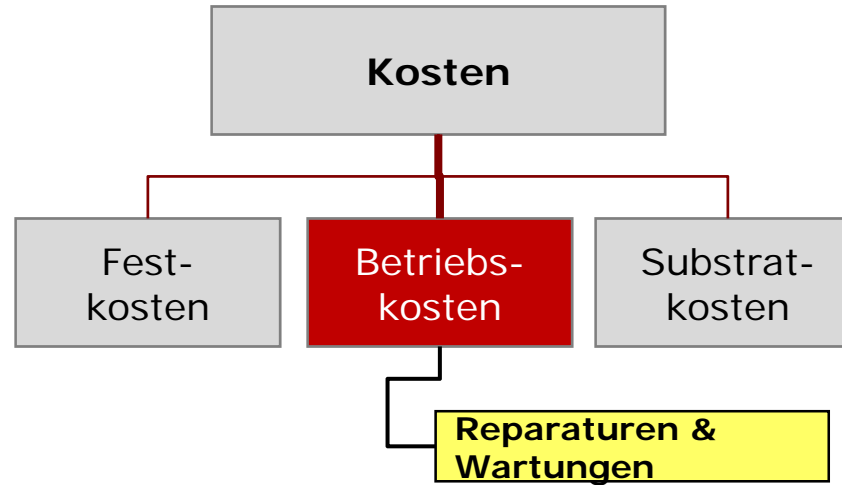
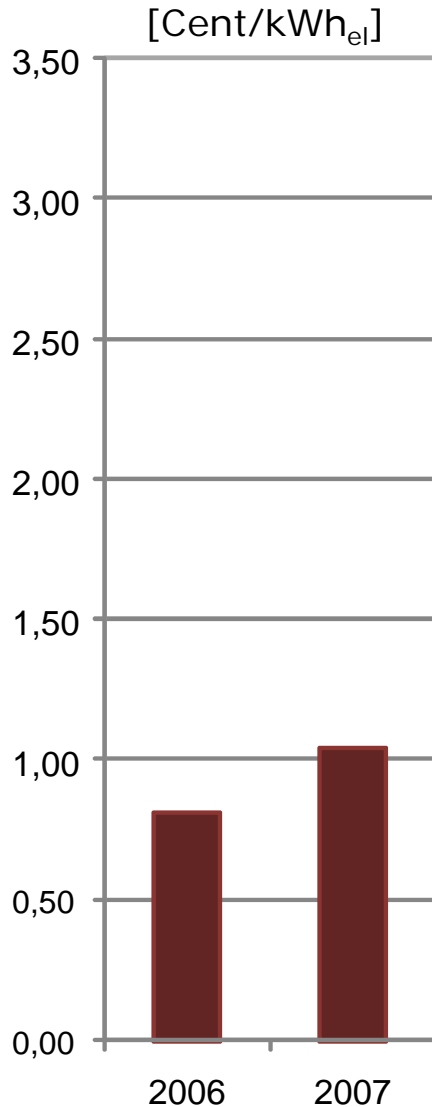
Pro kW_{el}: --- [€]



Summe der Festkosten:

		(2006)
Pro Jahr:	134.576 [€]	127.665
Pro kWh _{el} :	5,15 [Cent]	5,58
Pro kW _{el} :	376 [€]	368



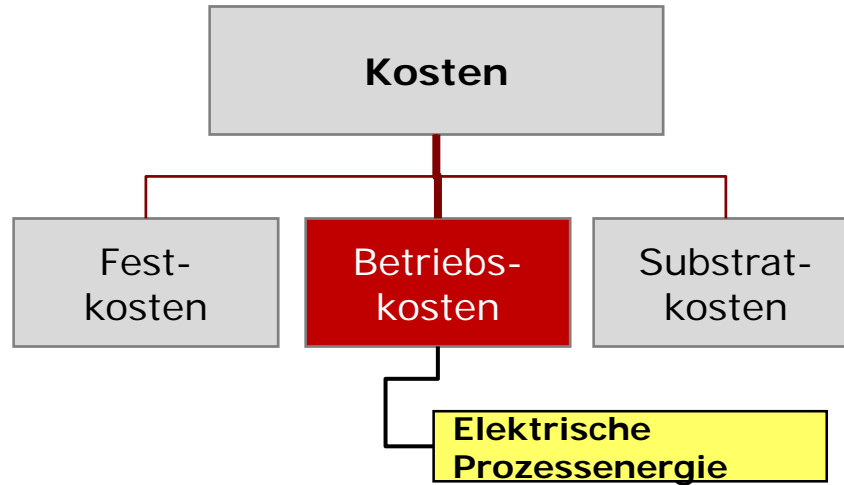
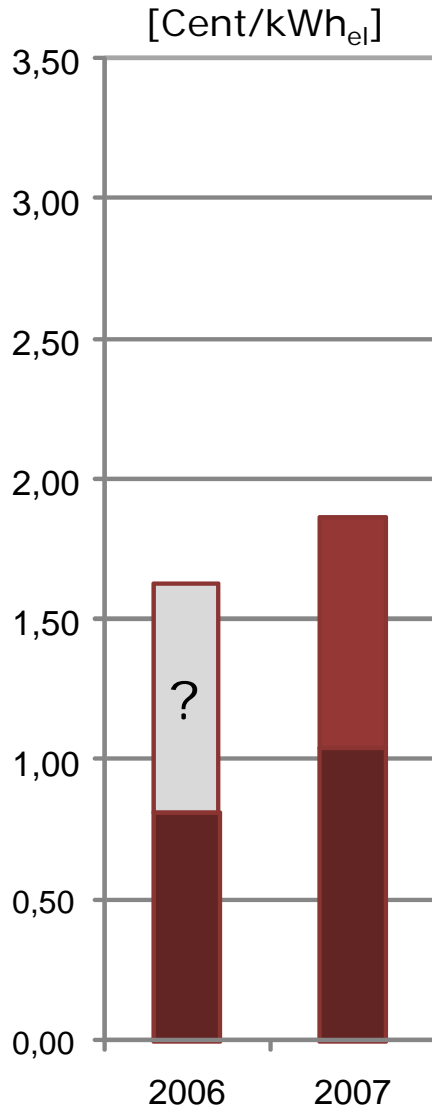


Kosten durch Reparaturen & Wartung:

Pro Jahr: **27.219 [€]**

Pro kWh_{el}: **1,04 [Cent]**

Pro kW_{el}: **76 [€]**



Kosten durch EI. Prozessenergie:

Pro Jahr: **21.496 [€]**

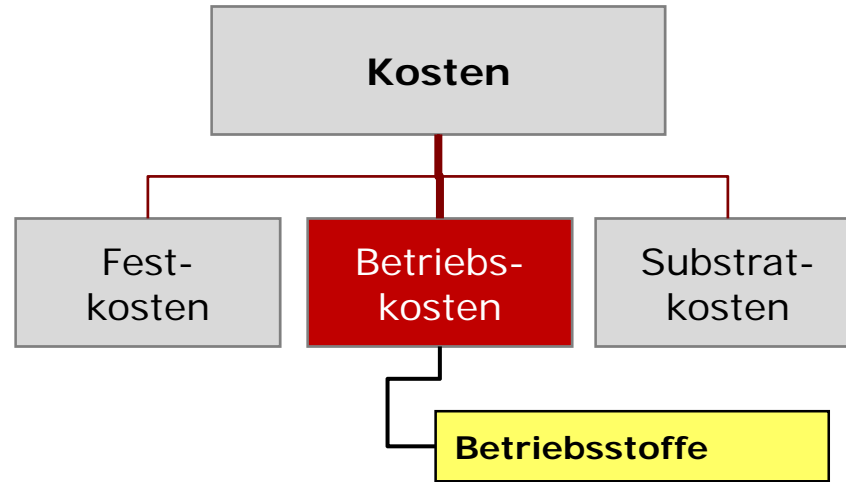
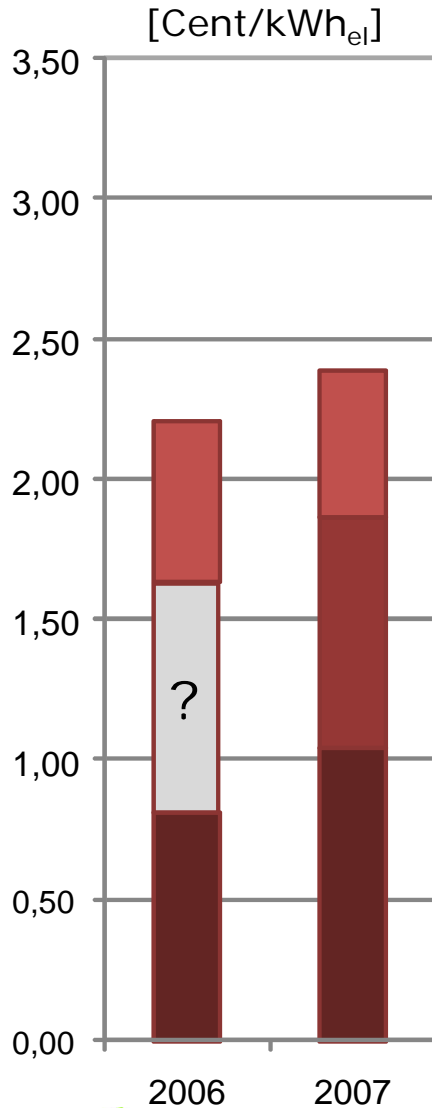
Pro kWh_{el}: **0,82 [Cent]**

Pro kW_{el}: **60 [€]**

* Bezugspreis je kWh_{el}: ø 12 Cent

Stromeigenverbrauch: ø 8,5 Prozent

Quelle: Röhling, I. (2008)

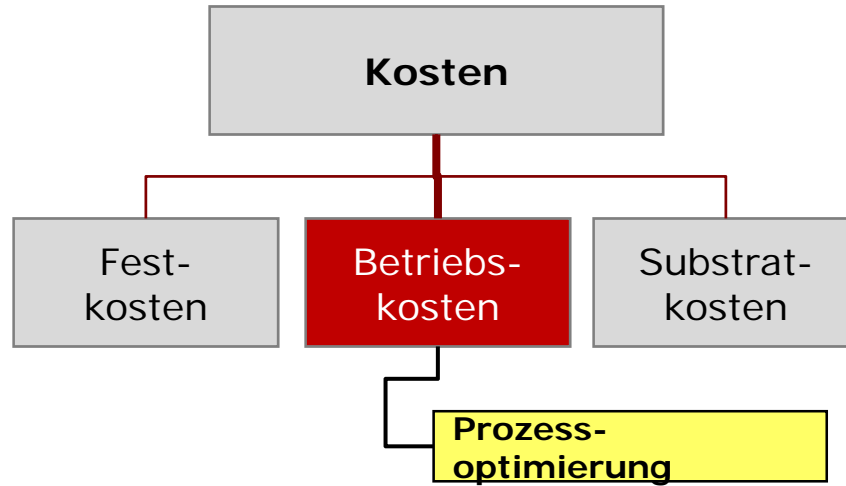
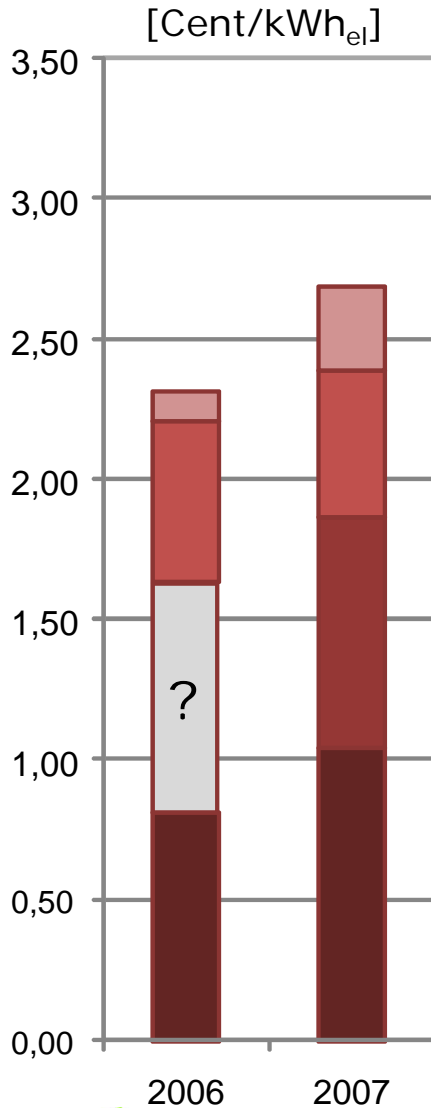


Kosten durch Betriebsstoffe:

Pro Jahr: **13.540 [€]**

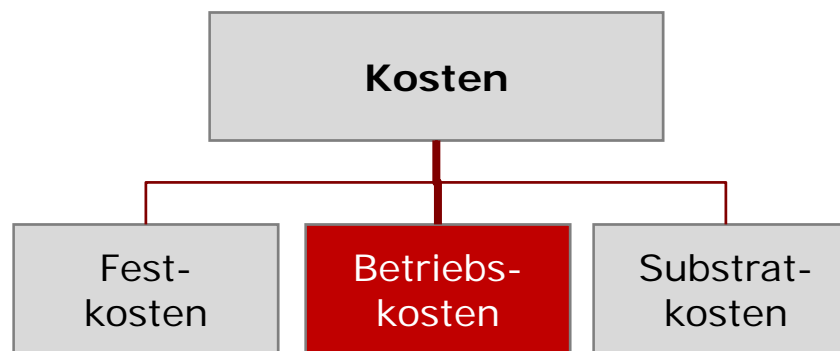
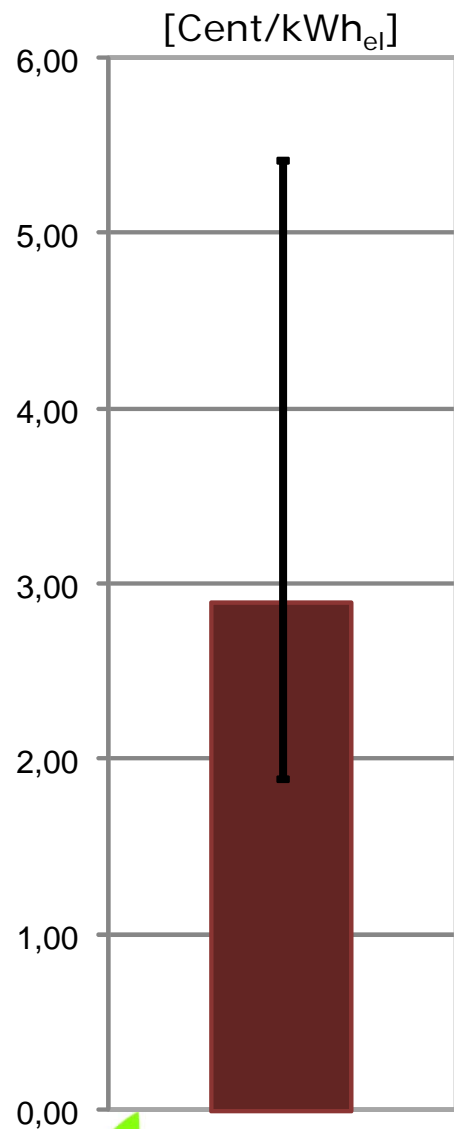
Pro kWh_{el}: **0,52 [Cent]**

Pro kW_{el}: **38 [€]**



Kosten durch Prozessoptimierung:

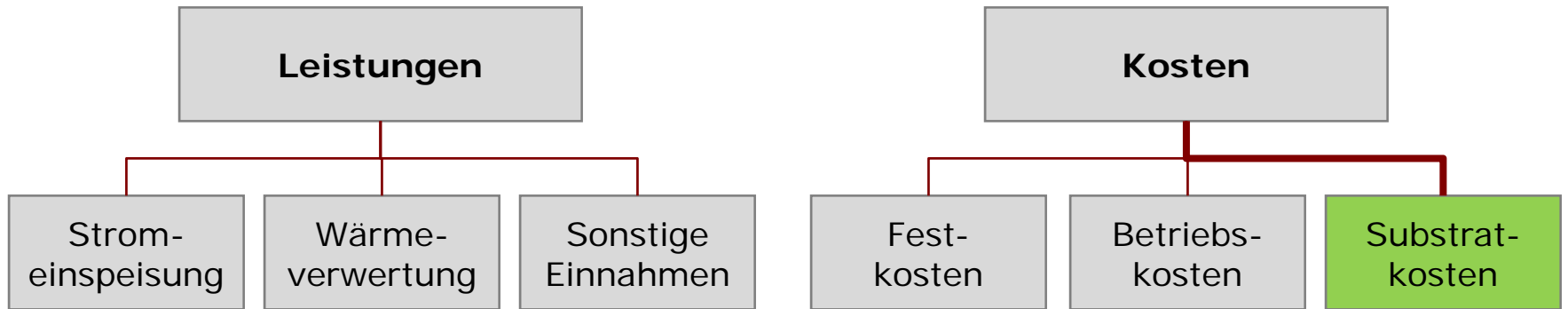
Pro Jahr:	7.755 [€]
Pro kWh _{el} :	0,30 [Cent]
Pro kW _{el} :	22 [€]



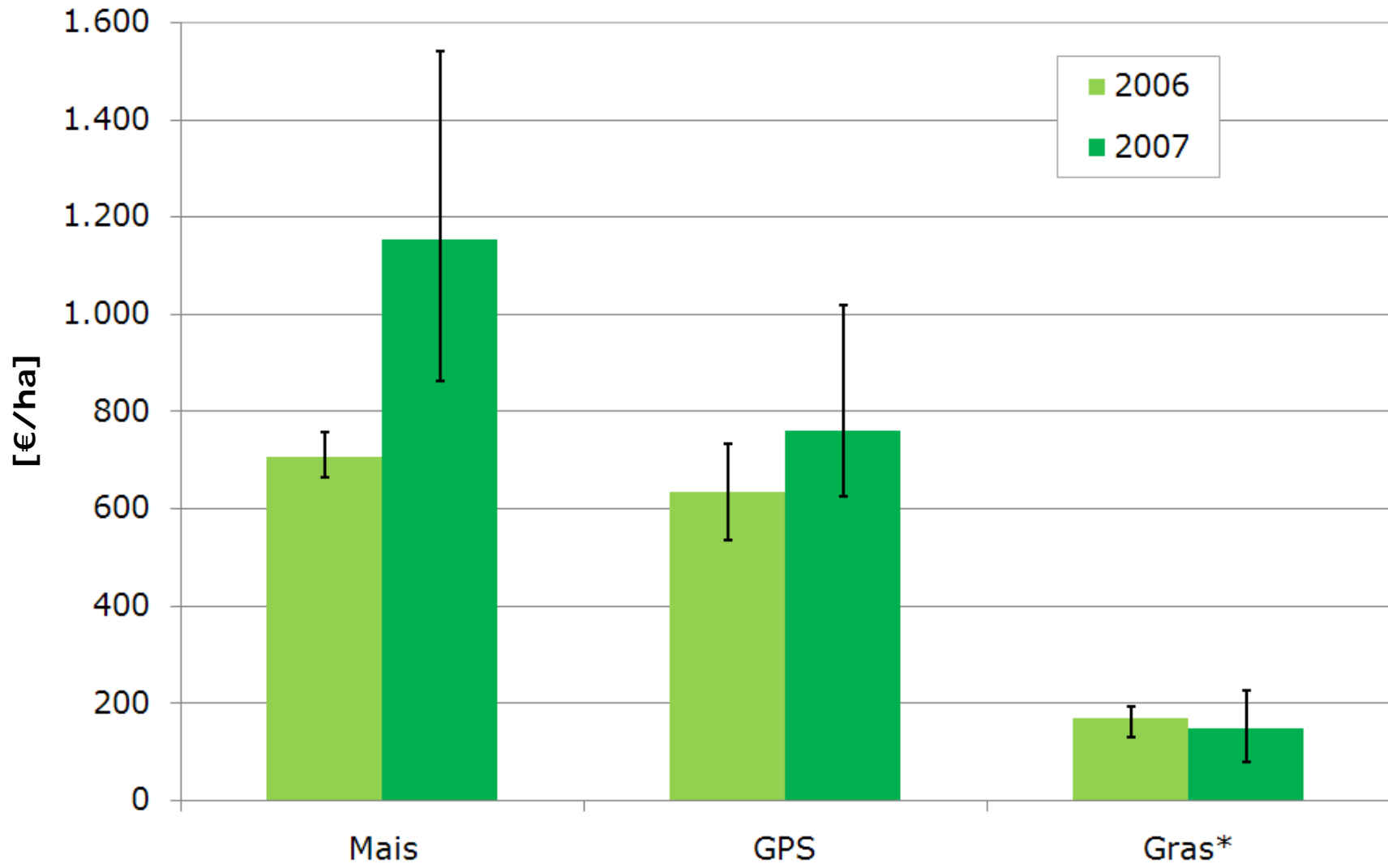
Summe der Betriebskosten*:

Pro Jahr:	75.896 [€]
Pro kWh _{el} :	2,90 [Cent]
Pro kW _{el} :	213 [€]

* Ohne Lohn

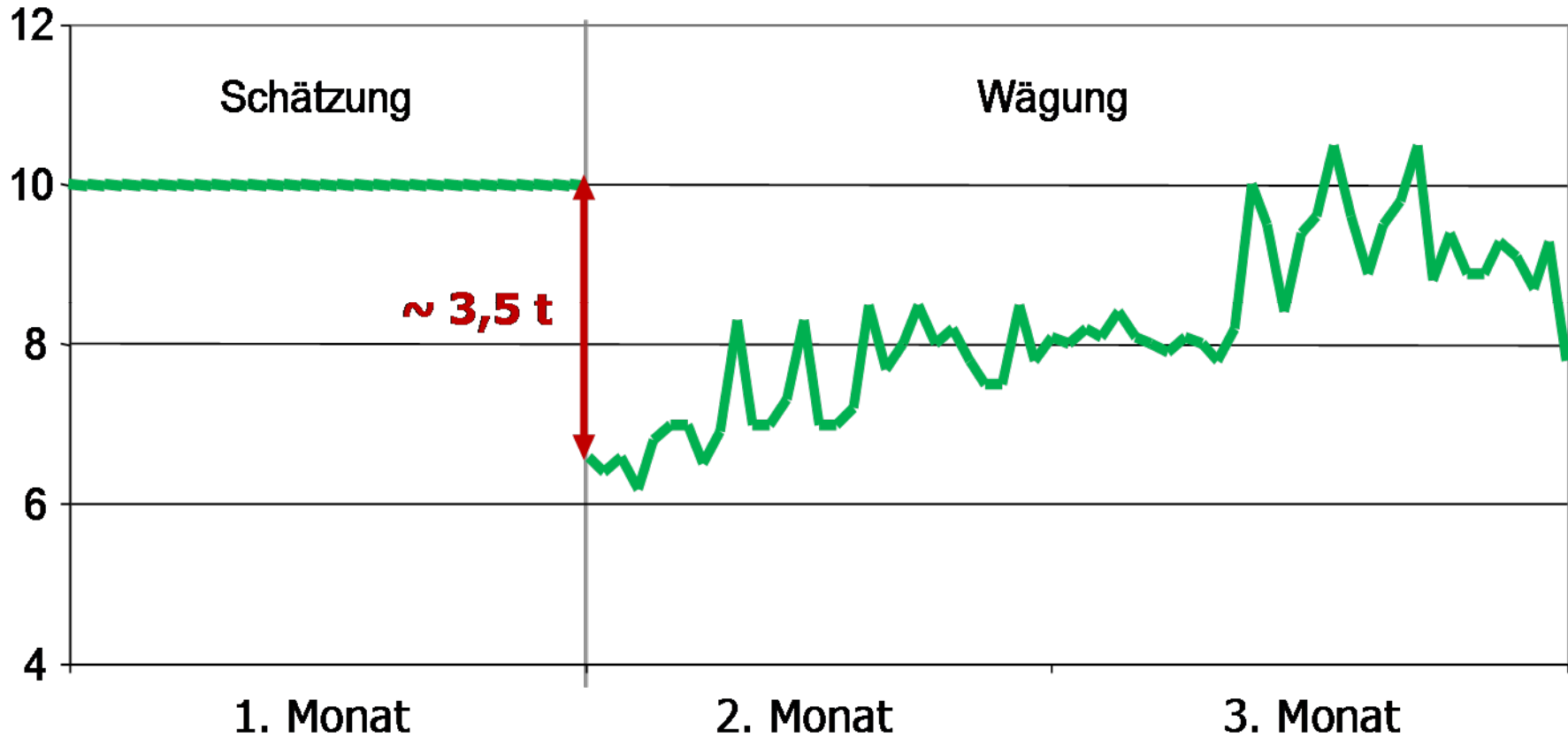


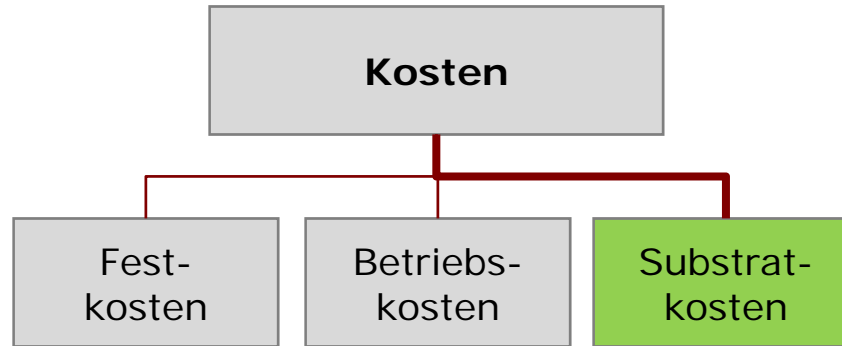
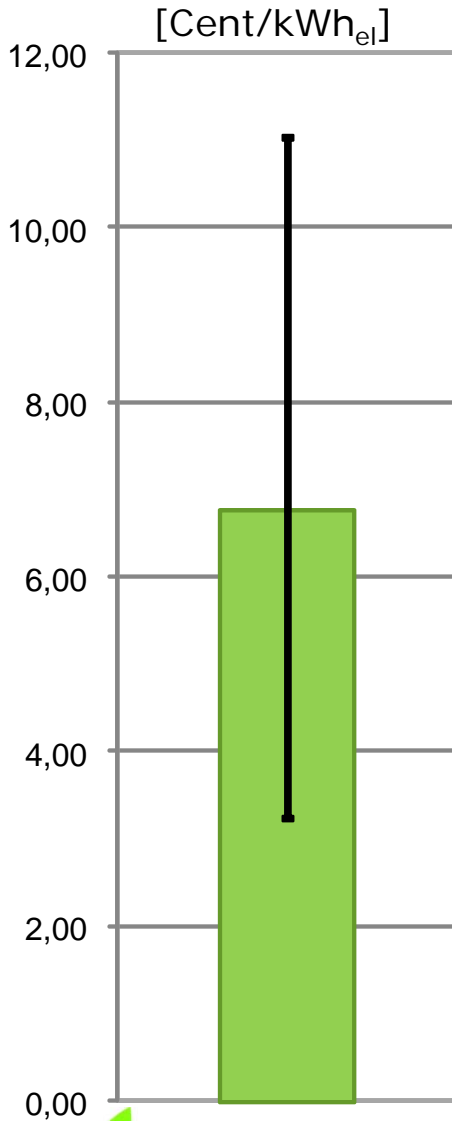
Substratkosten



Substratkosten

Maissilage
[t FM/Tag]





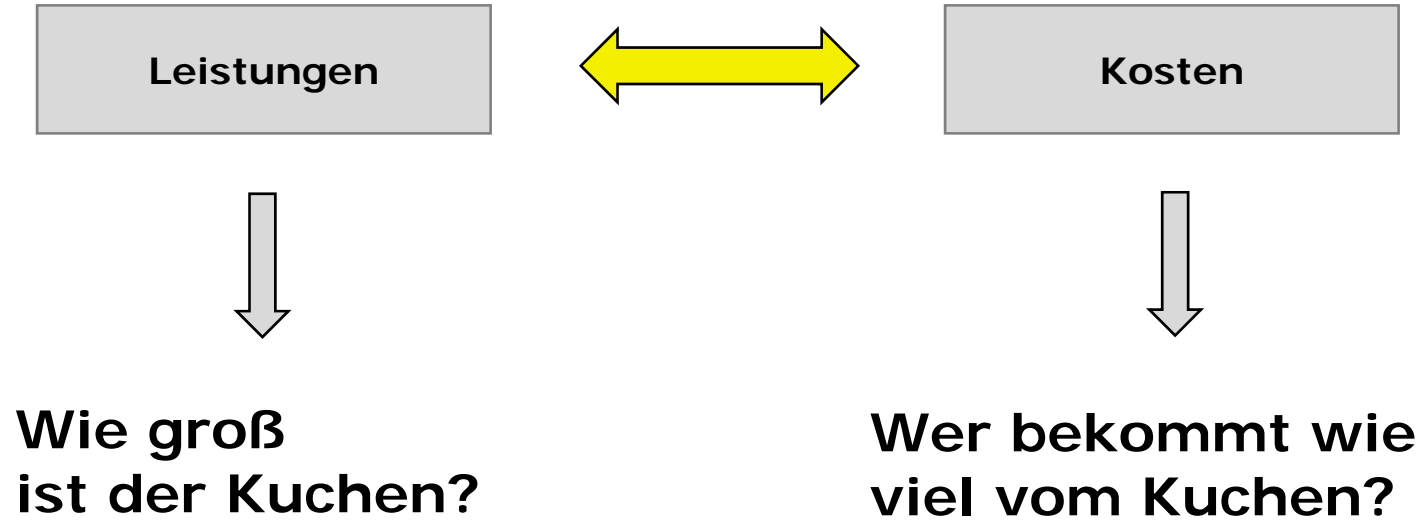
Substratkosten:

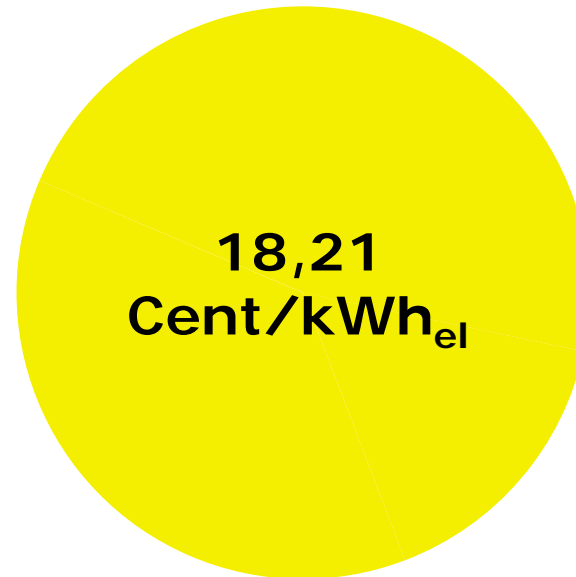
Pro Jahr: **177.155 [€]**

Pro kWh_{el}: **6,78 [Cent]**

Pro kW_{el}: **496 [€]**

Saldo aus Leistungen/Kosten

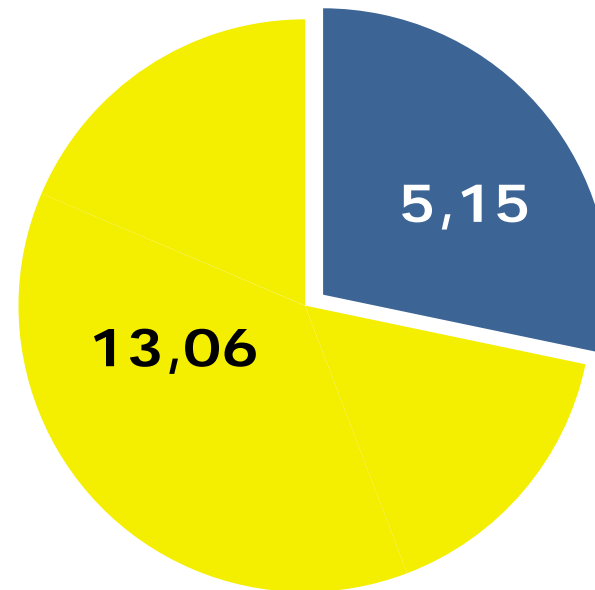




Kennzahlen:

Leistungen pro kWh_{el}:

18,21 [Cent]



Kennzahlen:

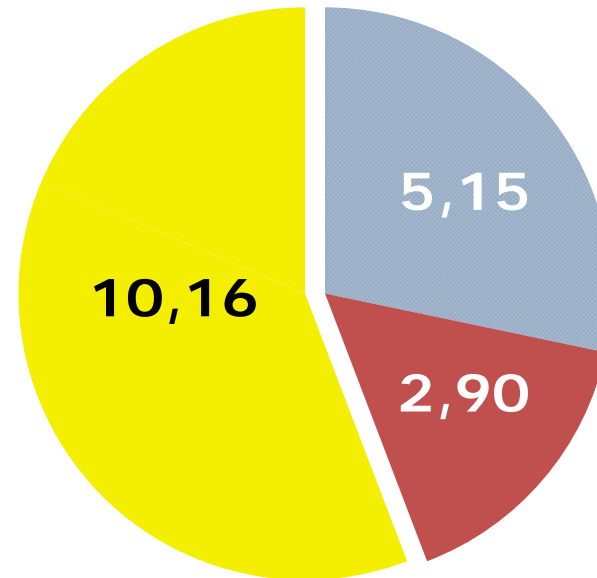
Leistungen pro kWh_{el}:

18,21 [Cent]

Festkosten pro kWh_{el}:

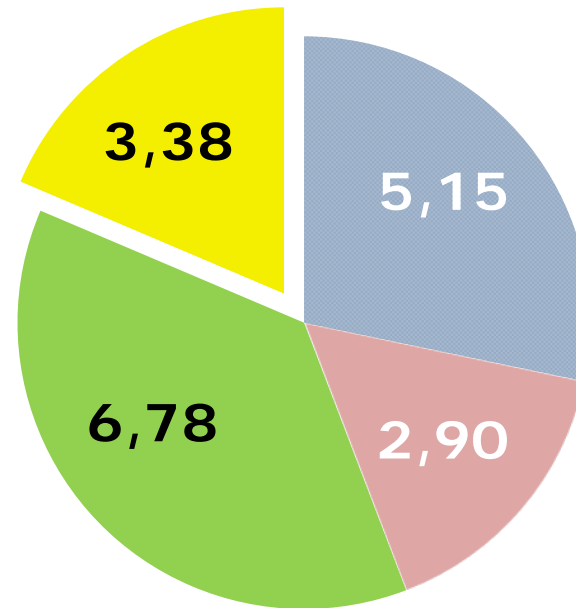
- 5,15 [Cent]

13,06 [Cent]



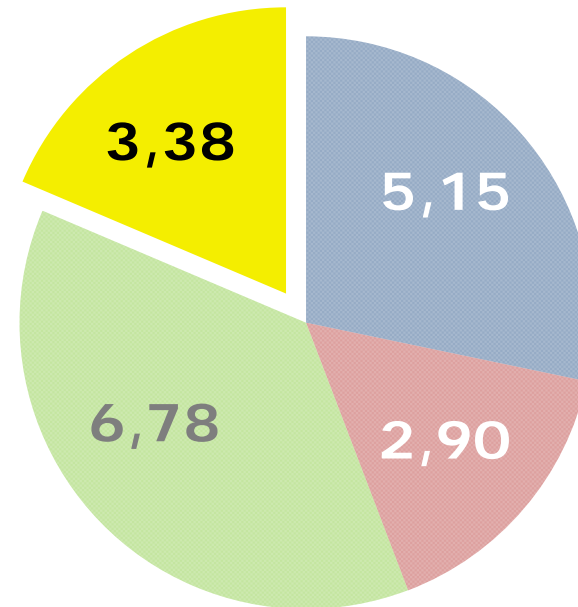
Kennzahlen:

Leistungen pro kWh _{el} :	18,21 [Cent]
Festkosten pro kWh _{el} :	- 5,15 [Cent]
Betriebskosten pro kWh _{el} :	- 2,90 [Cent]
	<hr/>
	10,16 [Cent]



Kennzahlen:

Leistungen pro kWh _{el} :	18,21 [Cent]
Festkosten pro kWh _{el} :	- 5,15 [Cent]
Betriebskosten pro kWh _{el} :	- 2,90 [Cent]
Substratkosten pro kWh _{el} :	- 6,78 [Cent]



Kennzahlen:

Leistungen pro kWh_{el}: + 18,21 [Cent]

Festkosten pro kWh_{el}: - 5,15 [Cent]

Betriebskosten pro kWh_{el}: - 2,90 [Cent]

Substratkosten pro kWh_{el}: - 6,78 [Cent]

→ Saldo pro kWh_{el}: + 3,38 [Cent]



Ökonomische Kennzahlen der bayerischen Biogas-Pilotbetriebe

Vielen Dank! 😊

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Institut für Agrarökonomie

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martin.strobl@LfL.bayern.de