

# Beispiel Berechnung

## Vergütungsmodell KEV 2013

Projekt **Biregghang 8**

Vers. 3.0

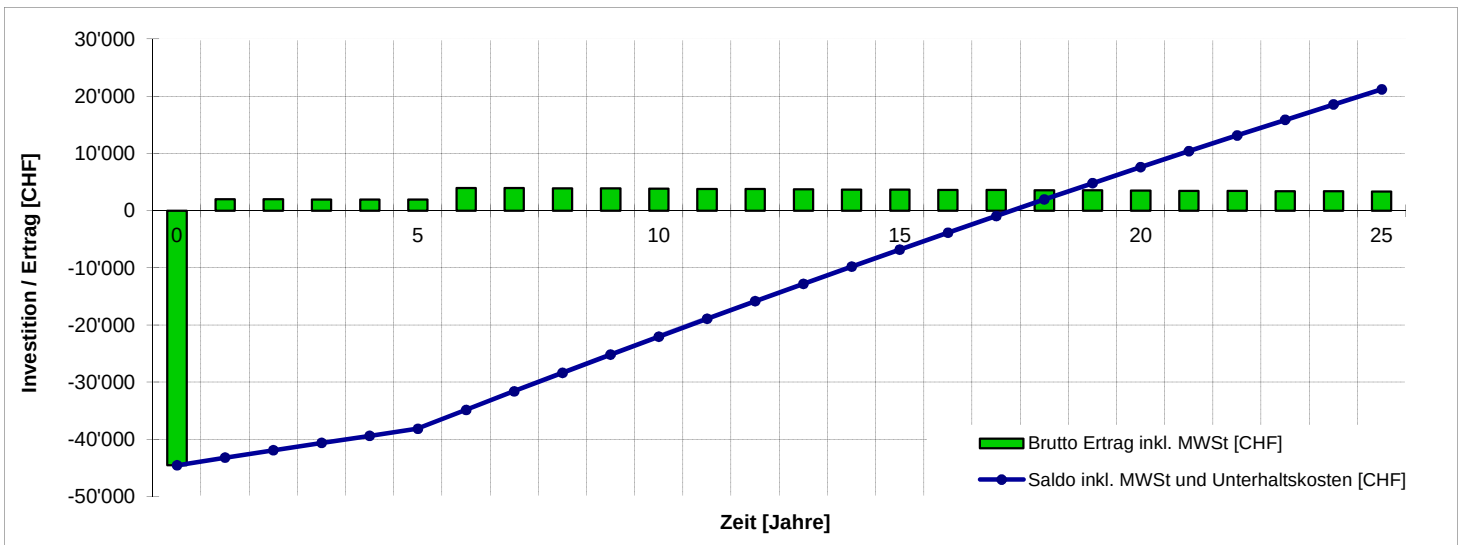
Datum

1.07.13

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|                                 |               |                                      |               |
|---------------------------------|---------------|--------------------------------------|---------------|
| Nennleistung DC                 | 15.00 kWp     | Gesamtkosten (inkl. MWSt)            | 44'500 CHF    |
| Energieertrag /Jahr             | 13'391 kWh    | Abzüge (Steuern, Förderbeitrag usw.) | 0 CHF         |
| Produktionskennzahl             | 893 kWh/kWp a | Nettokosten (inkl. MWSt)             | 44'500 CHF    |
| Unterhalt % der Gesamtkosten    | 1.0%          | Ø Kapitalzins 25 Jahre               | 3.82%         |
| Amortisationsdauer              | 25 Jahre      | kWp-Preis (inkl. MWSt)               | 2'967 CHF/ kW |
| geschätzte Degradation pro Jahr | 0.90%         | kWp-Preis (exkl. MWSt)               | 2'747 CHF/ kW |

| DC-LEISTUNG    | 15.00 kW TOTAL | 13'391 kWh/a    | 31.13 Rp/kWh | Durchschnittstarif über die gesamte Laufzeit |
|----------------|----------------|-----------------|--------------|----------------------------------------------|
| P1 (0-10kWp)   | 10.00 kW       | E1 = 8927 kWh/a | 33.2 Rp/kWh  | Tarife gültig im Erstellungsjahr 2013        |
| P2 (10-30kWp)  | 5.00 kW        | E2 = 4464 kWh/a | 27.0 Rp/kWh  |                                              |
| P3 (30-100kWp) | 0.00 kW        | E3 = 0 kWh/a    | 24.7 Rp/kWh  |                                              |
| P4 (100 - )    | 0.00 kW        | E4 = 0 kWh/a    | 23.1 Rp/kWh  |                                              |



| Jahr | Energieertr.<br>[kWh/Jahr] | Vergütung<br>[Rp./kWh] | Brutto<br>Ertrag inkl.<br>MWSt<br>[CHF] | Unterhaltsk<br>osten<br>[CHF/Jahr] | Saldo inkl.<br>MWSt und<br>Unterhaltsk<br>osten [CHF] | Amortisatio<br>n<br>[CHF/Jahr] | Restschuld<br>nach<br>Amortisatio<br>n | Netto<br>Ertrag<br>inkl.<br>Amortisatio<br>n und<br>Unterhalt] |
|------|----------------------------|------------------------|-----------------------------------------|------------------------------------|-------------------------------------------------------|--------------------------------|----------------------------------------|----------------------------------------------------------------|
| 0    |                            |                        | -44'500                                 |                                    | -44'500                                               |                                |                                        |                                                                |
| 1    | 13'391                     | 15.00                  | 2'009                                   | 695                                | -43'186                                               | 1'780                          | -42'720                                | -466                                                           |
| 2    | 13'270                     | 15.00                  | 1'990                                   | 695                                | -41'891                                               | 1'780                          | -40'940                                | -485                                                           |
| 3    | 13'151                     | 15.00                  | 1'973                                   | 695                                | -40'613                                               | 1'780                          | -39'160                                | -502                                                           |
| 4    | 13'032                     | 15.00                  | 1'955                                   | 695                                | -39'354                                               | 1'780                          | -37'380                                | -520                                                           |
| 5    | 12'915                     | 15.00                  | 1'937                                   | 695                                | -38'111                                               | 1'780                          | -35'600                                | -538                                                           |
| 6    | 12'799                     | 31.13                  | 3'985                                   | 695                                | -34'822                                               | 1'780                          | -33'820                                | 1'510                                                          |
| 7    | 12'683                     | 31.13                  | 3'949                                   | 695                                | -31'568                                               | 1'780                          | -32'040                                | 1'474                                                          |
| 8    | 12'569                     | 31.13                  | 3'913                                   | 695                                | -28'350                                               | 1'780                          | -30'260                                | 1'438                                                          |
| 9    | 12'456                     | 31.13                  | 3'878                                   | 695                                | -25'167                                               | 1'780                          | -28'480                                | 1'403                                                          |
| 10   | 12'344                     | 31.13                  | 3'843                                   | 695                                | -22'018                                               | 1'780                          | -26'700                                | 1'368                                                          |
| 11   | 12'233                     | 31.13                  | 3'809                                   | 695                                | -18'905                                               | 1'780                          | -24'920                                | 1'334                                                          |
| 12   | 12'123                     | 31.13                  | 3'774                                   | 695                                | -15'826                                               | 1'780                          | -23'140                                | 1'299                                                          |
| 13   | 12'014                     | 31.13                  | 3'740                                   | 695                                | -12'780                                               | 1'780                          | -21'360                                | 1'265                                                          |
| 14   | 11'906                     | 31.13                  | 3'707                                   | 695                                | -9'769                                                | 1'780                          | -19'580                                | 1'232                                                          |
| 15   | 11'799                     | 31.13                  | 3'673                                   | 695                                | -6'790                                                | 1'780                          | -17'800                                | 1'198                                                          |
| 16   | 11'692                     | 31.13                  | 3'640                                   | 695                                | -3'845                                                | 1'780                          | -16'020                                | 1'165                                                          |
| 17   | 11'587                     | 31.13                  | 3'607                                   | 695                                | -933                                                  | 1'780                          | -14'240                                | 1'132                                                          |
| 18   | 11'483                     | 31.13                  | 3'575                                   | 695                                | 1'947                                                 | 1'780                          | -12'460                                | 1'100                                                          |
| 19   | 11'379                     | 31.13                  | 3'543                                   | 695                                | 4'795                                                 | 1'780                          | -10'680                                | 1'068                                                          |
| 20   | 11'277                     | 31.13                  | 3'511                                   | 695                                | 7'611                                                 | 1'780                          | -8'900                                 | 1'036                                                          |
| 21   | 11'176                     | 31.13                  | 3'479                                   | 695                                | 10'395                                                | 1'780                          | -7'120                                 | 1'004                                                          |
| 22   | 11'075                     | 31.13                  | 3'448                                   | 695                                | 13'148                                                | 1'780                          | -5'340                                 | 973                                                            |
| 23   | 10'975                     | 31.13                  | 3'417                                   | 695                                | 15'870                                                | 1'780                          | -3'560                                 | 942                                                            |
| 24   | 10'877                     | 31.13                  | 3'386                                   | 695                                | 18'562                                                | 1'780                          | -1'780                                 | 911                                                            |
| 25   | 10'779                     | 31.13                  | 3'356                                   | 695                                | 21'222                                                | 1'780                          | 0                                      | 881                                                            |
|      |                            |                        | 83'097                                  | 17375                              |                                                       | 44'500                         |                                        | 21'222                                                         |