

## Extra Aardopwarming door Transportverliezen in Warmtenetten (gemeente Enschede)

Inwoners: 161741 mensen  
Oppervlak: 142.72 km<sup>2</sup>  
Huishoudens: 81054 huish  
Warmtevrraag: 41.6 GJ/y, huish  
Opwarming: 0.9 W/m<sup>2</sup>  
RCP8.5: 4 °C in 2100

<https://nl.wikipedia.org/wiki/Enschede>  
<https://nl.wikipedia.org/wiki/Enschede>  
<https://allecijfers.nl/gemeente/enschede/>  
<https://www.milieucentraal.nl/energie-besparen/inzicht-in-je-energierekening/gemiddeld-energieverbruik/>  
[https://www.researchgate.net/figure/The-global-annual-mean-earths-energy-budget-for-2000-2005-W-m-2-The-broad-arrows\\_fig1\\_257564838](https://www.researchgate.net/figure/The-global-annual-mean-earths-energy-budget-for-2000-2005-W-m-2-The-broad-arrows_fig1_257564838)  
<https://www.ipcc.ch/site/assets/uploads/2018/02/SPM.06-01.png>

1 GJ = 1.000 MJ = 1.000.000.000 J = 1.000.000.000 Ws  
1 kWh = 3.600.000 Ws = 3.6000.000 J = 3,6 MJ = 0,0036 GJ

0,9 W/m<sup>2</sup> stamt uit 2000-2005, toen we nog RCP8.5 volgden

| Verlies [%] | Vraag [GJ/y] | Aanvoer [GJ/y] | Verlies [GJ/y] | Verlies [MJ/d] | Verlies [W] | Opp [m <sup>2</sup> ] | Verlies [W/m <sup>2</sup> ] | Extra Opwarming [%] | EXTRA Opwarming [°C] |
|-------------|--------------|----------------|----------------|----------------|-------------|-----------------------|-----------------------------|---------------------|----------------------|
| 0%          | 3371846      | 3371846        | 0              | 0              | 0           | 142720000             | 0.00                        | 0%                  | 0.00                 |
| 5%          | 3371846      | 3549312        | 177466         | 485874         | 5623546     | 142720000             | 0.04                        | 4%                  | 0.18                 |
| 10%         | 3371846      | 3746496        | 374650         | 1025735        | 11871929    | 142720000             | 0.08                        | 9%                  | 0.37                 |
| 20%         | 3371846      | 4214808        | 842962         | 2307903        | 26711841    | 142720000             | 0.19                        | 21%                 | 0.83                 |
| 30%         | 3371846      | 4816923        | 1445077        | 3956405        | 45791728    | 142720000             | 0.32                        | 36%                 | 1.43                 |
| 40%         | 3371846      | 5619744        | 2247898        | 6154408        | 71231577    | 142720000             | 0.50                        | 55%                 | 2.22                 |
| 50%         | 3371846      | 6743693        | 3371846        | 9231612        | 106847365   | 142720000             | 0.75                        | 83%                 | 3.33                 |
| 60%         | 3371846      | 8429616        | 5057770        | 13847418       | 160271047   | 142720000             | 1.12                        | 125%                | 4.99                 |
| 70%         | 3371846      | 11239488       | 7867642        | 21540429       | 249310518   | 142720000             | 1.75                        | 194%                | 7.76                 |
| 80%         | 3371846      | 16859232       | 13487386       | 36926449       | 427389459   | 142720000             | 2.99                        | 333%                | 13.31                |
| 90%         | 3371846      | 33718464       | 30346618       | 83084511       | 961626283   | 142720000             | 6.74                        | 749%                | 29.95                |
| 99%         | 3371846      | 337184640      | 333812794      | 913929620      | 10577889117 | 142720000             | 74.12                       | 8235%               | 329.41               |

### EXTRA Aardopwarming [°C]

Als gevolg van transportverliezen warmtenetten

