

ECOSPEED Region

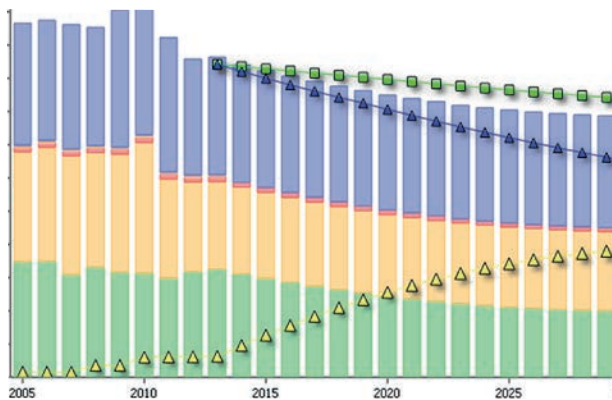
Simulation of scenarios for regions



Potential analysis

Define the potential that can be realistically tapped with regard to the use of renewable energy and efficiency enhancement for your region (e.g. area available for wind farms, redevelopment areas).

The analysis allows you to gauge the remaining potential (following implementation of the planned measures), and what percentage of your own energy needs could be covered by local energy production.



Scenarios through to 2050

When defining targets, it is advisable to create a reference scenario (trend without climate protection efforts) and a climate protection scenario (trend with consistent climate protection policy). Factors such as renewable energy expansion rates, rates of renovation, energy costs and regional value creation should be taken into consideration here.

Simulation of measures

Energy production

Plan your future production plants (wind, PV, water, CHP, etc.) and ECOSPEED Region calculates the energy output. Refine the simulation by adjusting the specified values for power, life cycle, hours at full load, space requirements etc. to your local conditions.

Efficiency enhancement

Simulate building renovations by construction year category and renovation quality (also for municipal buildings such as schools). Change your street lighting to LED lighting. Simulate the modal share in transportation or use CNG buses. With ECOSPEED Region, you can model all measures as required!

Calculation of value creation

ECOSPEED Region calculates the investment and maintenance costs and the cost savings and tax revenues generated by your measures.

Calculation of carbon emissions avoidance

You help reduce carbon emissions by generating renewable energy locally (electricity and heat).

ECOSPEED Region calculates the avoidable carbon emissions regardless of whether the electricity or heat produced locally is also consumed locally.

By using ECOSPEED Region (balancing & scenarios), you satisfy two central modules for the creation of climate protection plans in accordance with the Climate Protection Initiative (KSI).

Various versions for different client needs

| Balancing areas | Smart | Pro | Premium |
|---|------------------|------------------|------------------|
| Monitoring for first-time users | including | including | including |
| Municipal administration | ✓ | ✓ | ✓ |
| Buildings, Vehicles, Street lighting, Infrastructur | ✓ | ✓ | ✓ |
| Households | ✓ | ✓ | ✓ |
| By energy carrier | ✓ | ✓ | ✓ |
| Business | ✓ | ✓ | ✓ |
| By energy carrier | ✓ | ✓ | ✓ |
| Traffic | ✓ | ✓ | ✓ |
| By mode of transportation | ✓ | ✓ | ✓ |
| By vehicle category | ✓ | ✓ | ✓ |
| Energy production | ✓ | ✓ | ✓ |
| Electricity | ✓ | ✓ | ✓ |
| Heat | ✓ | ✓ | ✓ |
| Combined Heat Power | ✓ | ✓ | ✓ |
| Monitoring for advanced users | - | including | including |
| Households | | ✓ | ✓ |
| Space heating | | ✓ | ✓ |
| Hot water | | ✓ | ✓ |
| Processes | | ✓ | ✓ |
| Business | | ✓ | ✓ |
| Space heating | | ✓ | ✓ |
| Hot water | | ✓ | ✓ |
| Processes | | ✓ | ✓ |
| Major consumers industry | | ✓ | ✓ |
| Traffic | | ✓ | ✓ |
| By road category | | ✓ | ✓ |
| Non-energy-related emissions | opt.1) | ✓ | ✓ |
| Industrial processes, Evaporating emissions | | ✓ | ✓ |
| Agriculture, LULUCF | | ✓ | ✓ |
| Savege, Waste | | ✓ | ✓ |
| Climate correction (Heating grade days) | | ✓ | ✓ |
| "Scenarios" module | additional cost | additional cost | including |
| Potential analysis | (✓) | (✓) | ✓ |
| Energy production | (✓) | (✓) | ✓ |
| Efficiency enhancement | (✓) | (✓) | ✓ |
| Scenarios through to 2050 | (✓) | (✓) | ✓ |
| Reference scenario | (✓) | (✓) | ✓ |
| Climate protection scenario | (✓) | (✓) | ✓ |
| Simulation of measures | (✓) | (✓) | ✓ |
| Energy production | (✓) | (✓) | ✓ |
| Households | (✓) | (✓) | ✓ |
| Business | (✓) | (✓) | ✓ |
| Traffic | (✓) | (✓) | ✓ |
| Municipal administration | (✓) | (✓) | ✓ |
| Calculation of value creation | (✓) | (✓) | ✓ |
| Energy production | (✓) | (✓) | ✓ |
| Efficiency enhancement | (✓) | (✓) | ✓ |
| Calculation of carbon emissions avoidance | (✓) | (✓) | ✓ |

References

- ECOSPEED Region is used by over 1'600 local and city councils, as well as regions
- Officially recommended by the EU Commission as an outstanding tool
- Official balancing software of all the Swiss cantons and of the German region of NRW
- Officially recommended by the city networks Covenant of Mayors, European Energy Award and the European Climate Alliances

In collaboration with



Federal Office
European Energy Award

