CSE
IT-Consulting

GO GREEN

Optimizing the CO2 balance and reducing the CO2 footprint – effectively and efficiently

IT data use and storage - underestimated climate killers?

Huge amounts of data are already **stored on servers and cloud systems** around the world and are constantly being used.

The energy consumption, both for storage and in particular the computing power for data use (read/write), is unimaginably high.

It is estimated that the amount of data generated annually will increase to 175 billion terabytes by 2025.

This corresponds to the generation of approx. 4.2 billion tons of CO2.

Who we are:

CSE IT Consulting & Software Engineering GmbH

20 years of experience and competence make the difference!

Our specialists have developed innovative software that shows the following **savings potentials** extremely quickly and extremely effectively:

- ✓ **Green IT, Green Refactoring, Green Coding**
- ✓ **Reduction of energy costs**
- ✓ **CO2 reduction**
- ✓ **Runtime optimization of the systems**
- ✓ **Effective exchange of hardware**

CSE GmbH is the SAP optimization expert for all SAP-based software products:

- ✓ **SAP S/4HANA, SAP BW/4HANA, SAP HANA**
- ✓ **R/3, ERP, ECC, S4, Netweaver BI, BW**
- ✓ **DB: HANA, Oracle, Sybase etc.**
- ✓ **Software processes, any databases, systems of all kinds - on-premise, cloud, virtualized**

Green IT, green refactoring, Green coding

CSE IT-Consulting

Green IT

Green IT is a subset of information technology that focuses on reducing environmental impact.

This can include reducing the energy consumption of computer systems and data centers, developing environmentally friendly products , and promoting the use of recycled and environmentally friendly materials in technology production.

The goal of Green IT is to create a more sustainable and environmentally friendly technology industry that conserves natural resources, reduces CO2 emissions and contributes to combating climate change.

Green IT, green refactoring, Green coding

CSE IT-Consulting

Green refactoring

Green refactoring refers to a software engineering technique that improves the **efficiency and sustainability** of computer systems.
The aim is to reduce the **energy consumption and** environmental **impact of computer systems by improving existing code bases.**
This can be achieved by optimizing code to use resources more efficiently and by removing superfluous functionality. The implementation of energy-saving models and the use of green technologies such as cloud computing and virtualization can also help to reduce energy consumption.
Green refactoring is part of the larger trend towards sustainable development in information technology and can contribute to direct financial benefits for companies and improved environmental performance.

Green IT, green refactoring, Green coding

CSE IT-Consulting

Green coding

Green coding refers to environmentally friendly software development practices.

This can include reducing the carbon footprint of the development process by using renewable energy sources and creating efficient and low-power software.

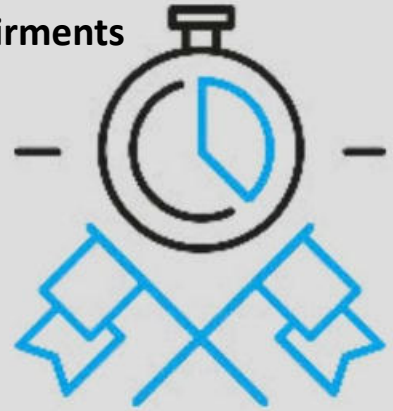
The goal of green coding is to minimize the environmental impact of the technology and make the industry more sustainable.

Our service package for your SAP systems: Your added value is our claim!

CSE IT-Consulting

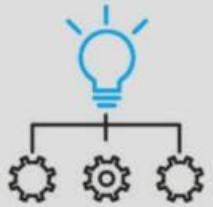
Your added value: fast - effective - visible - green

- ✓ Data collector - during operation - runs automatically in the background – no performance losses or impairments
- ✓ Determination of potential savings possible after approx. 2-3 weeks
- ✓ Cost reduction of inventory and investment costs (TCO)
- ✓ ROI – immediately achievable return on investment
- ✓ High customer satisfaction (key users, end users, ...)
- ✓ Increased quality through maximum performance - immediately visible success
- ✓ Comprehensive advice and support from our specialists
- ✓ Sustainability through CO2 reduction



Our service package for your SAP systems: Systematic success!

Analysis - solution - implementation (examples)



- ✓ Optimization of existing hardware costs (Green IT)
  - ✓ Cost reduction through optimal system utilization
  - ✓ Cost reduction through delaying new purchases
- ✓ Minimization of existing software costs
  - ✓ Cost reduction through license cost optimization (e.g. green memory)
- ✓ Minimization of future hardware costs (Green IT)
  - ✓ for new acquisitions (investments) through optimization and sizing
  - ✓ Saving of migration costs, especially when switching to S4HANA, HANA
- ✓ Optimization of future software costs (green refactoring)
  - ✓ Cost reduction through optimization and future calculations
  - ✓ Saving of migration costs, especially when switching to S4HANA, HANA
- ✓ Potential savings with increased, maximum performance (green refactoring)
- ✓ Resource savings (green refactoring, green coding) through better and optimal system

Cloud platforms

Go Green

- SAP cloud
- Azure Cloud
- AWS Cloud
- Google Cloud etc.