

SDEA Label

BY THE SWISS DATACENTER EFFICIENCY ASSOCIATION

Swiss Datacenter Efficiency association

Launched a first-of-its-kind datacenter efficiency label with the goal to **decarbonize datacenters** and significantly reduce their overall energy consumption.

Initiated by industry association digitalswitzerland and Hewlett Packard Enterprise (HPE), members of the consortium include:

EcoCloud at EPFL, Green IT Switzerland, HPE, the Lucerne University of Applied Sciences and Arts (HSLU), the Swiss Datacenter Association (SDCA), and the Swiss Telecommunications Association (asut). The initiative is supported by the Swiss Federal Office of Energy through the program SwissEnergy.

who we are

EPFL


Hewlett Packard
Enterprise


ecocloud

 Green IT
Switzerland

asut


SDCA
SWISS DATA CENTER ASSOCIATION

Lucerne University of
Applied Sciences and Arts

HOCHSCHULE
LUZERN

Technik & Architektur
FH Zentralschweiz

What is datacenter efficiency

relevant metrics

A datacenter is a physical facility housing a network of servers to host data with applications and services centered around data

energy efficiency

compute, communicate, store and host with less electricity

heat recovery

recover energy from the dissipated datacenter heat

renewable energy

use sources of renewable energy as electricity

SDEA label

certification levels

Unique

First datacenter emissions index

Timely

Projected datacenter growth & climate impact

Comprehensive

Captures end-to-end datacenter energy flow

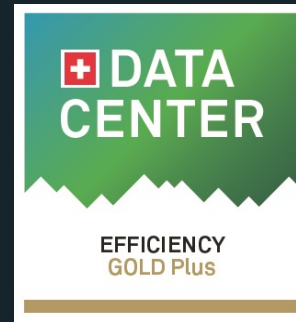
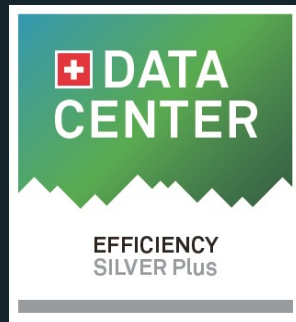
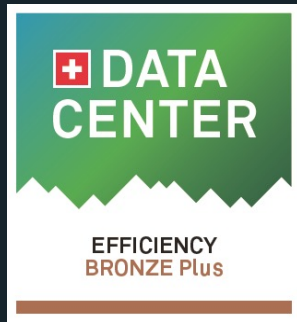




Premium variants

capture in-flow energy sources

Holistic quantification of emissions to gauge sustainability



KPIs

a breakdown of efficiency indices

IT INFRASTRUCTURE EFFICIENCY

Including compute, storage, network and workloads

DC INFRASTRUCTURE EFFICIENCY

Including but not limited to the electrical, cooling and heat recycling components, and equipment for physical security

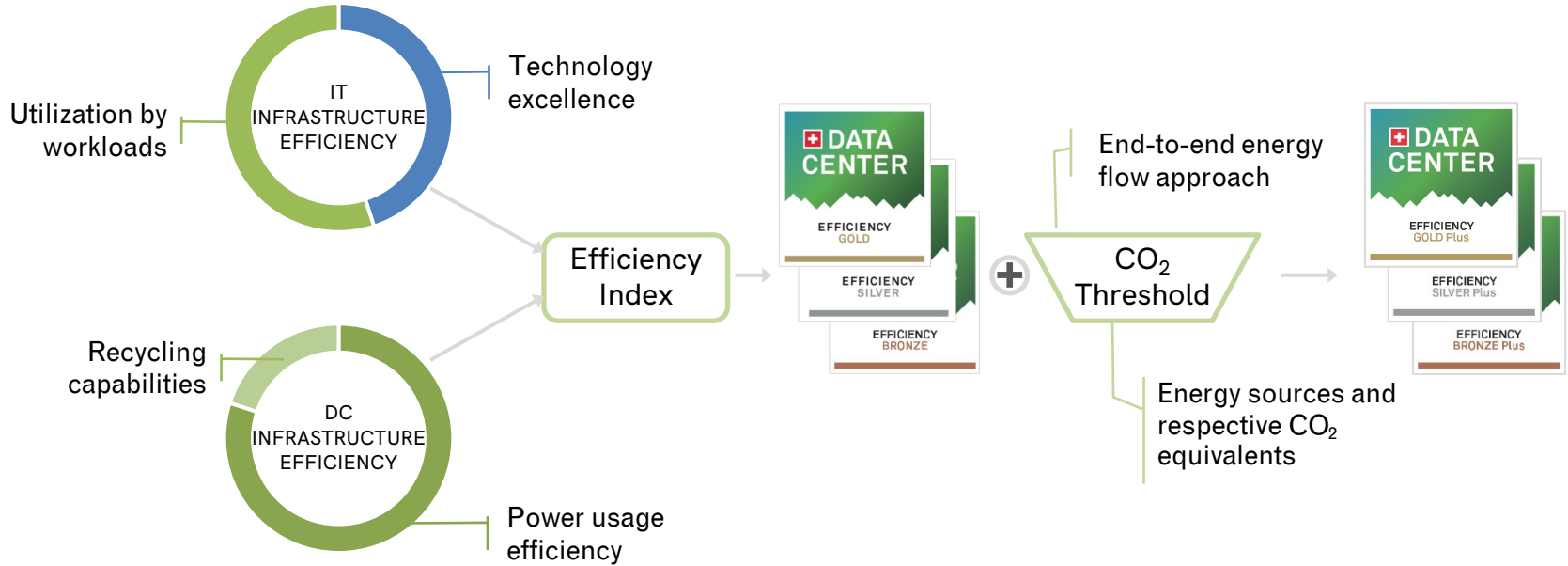
DC CARBON FOOTPRINT

Captures DC energy efficiency and the sustainability of the DC's ingress energy sources



Qualification

one combined efficiency index and eco premium



Certification

entity type

DC Infrastructure Only

- A co-location host provides DC infrastructure for the customers' IT

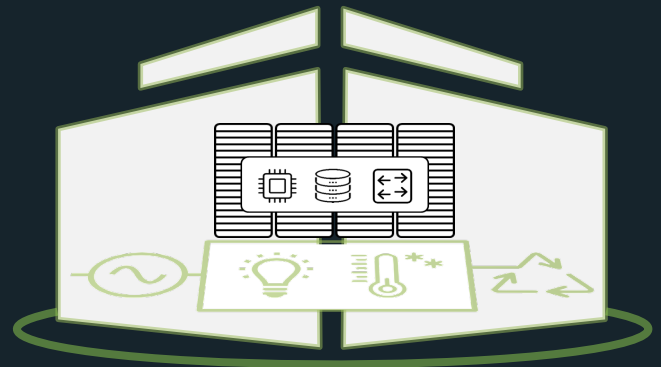
DC Instance

- IT infrastructure + DC infrastructure
- DC infrastructure certified together or a priori (e.g., co-location host)

DC Infrastructure



DC Instance



CEEDA 

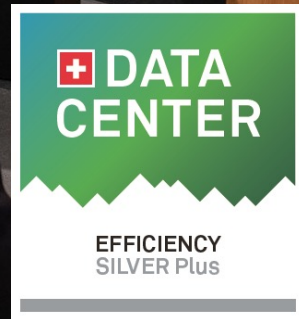


Holistic	✓		✓
IT Index			✓
DC Index		PUE	PUE ⁺
Emissions			✓



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