

Kapsch Smart Energy Management

Integrace IoT přes Kapsch Cloud

Optimalizace spotřeby a nákupu energií

Skupina Kapsch

s více než 120-ti letou tradicí



KBC

Kapsch
BusinessCom



- ICT řešení pro organizace
- Řešení infrastruktury informačních a komunikačních technologií
- ICT facility řešení
- IoT

KCC

Kapsch
CarrierCom



- Řešení v oblasti železniční dopravy
- Řešení v oblasti veřejné dopravy
- Veřejný operátor

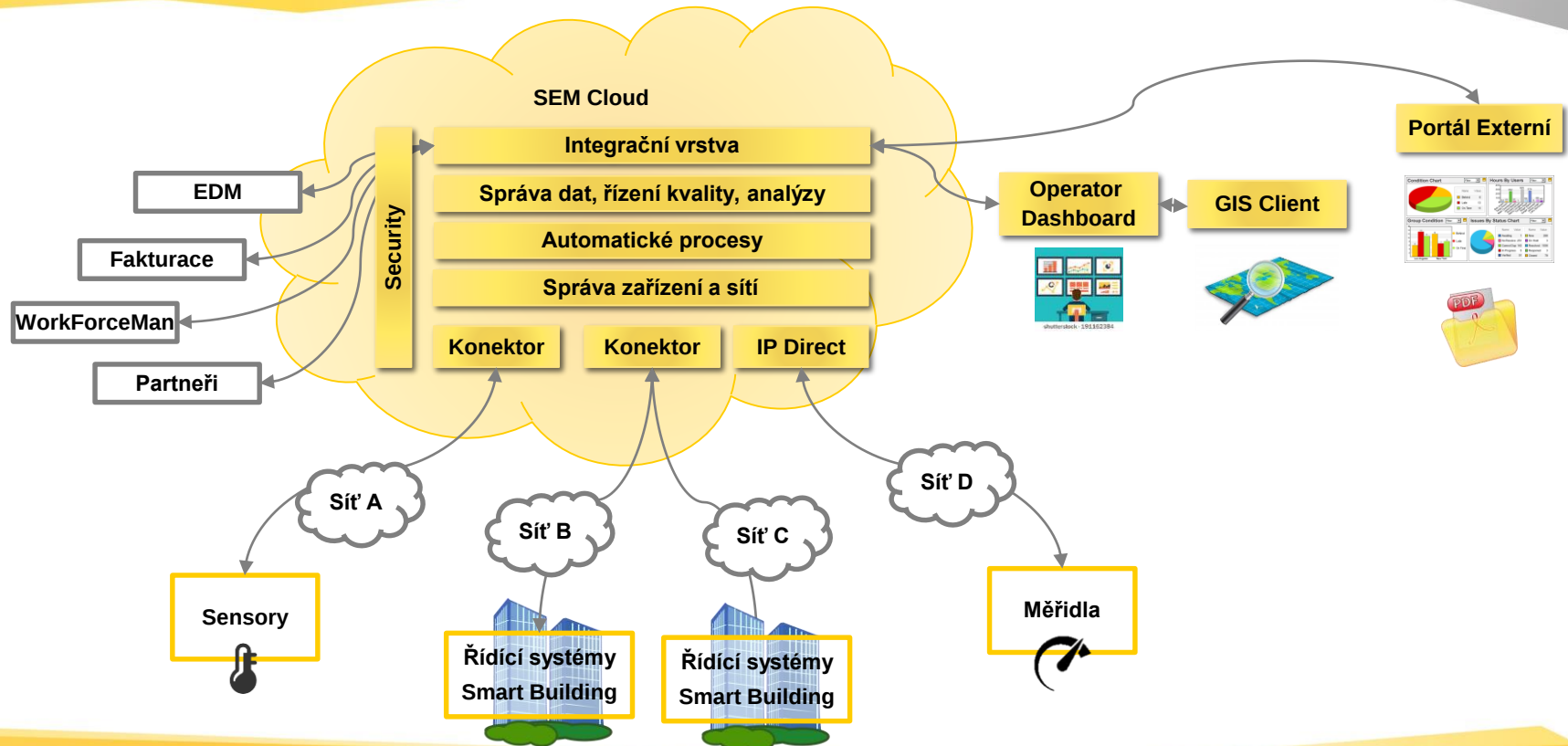
KTC

Kapsch
TrafficCom

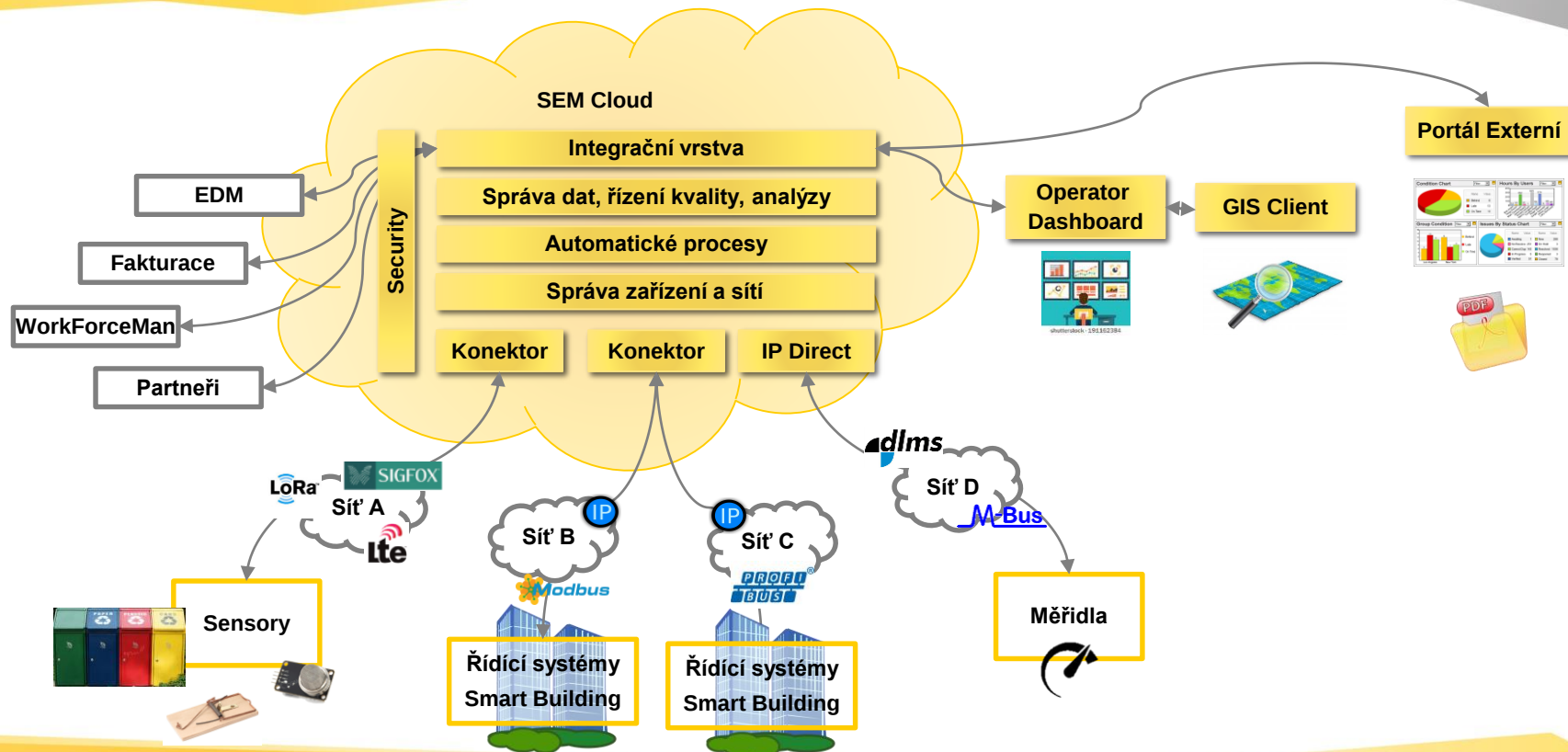


- Inteligentní dopravní systémy (ITS)
- Inteligentní řešení mobility (IMS)

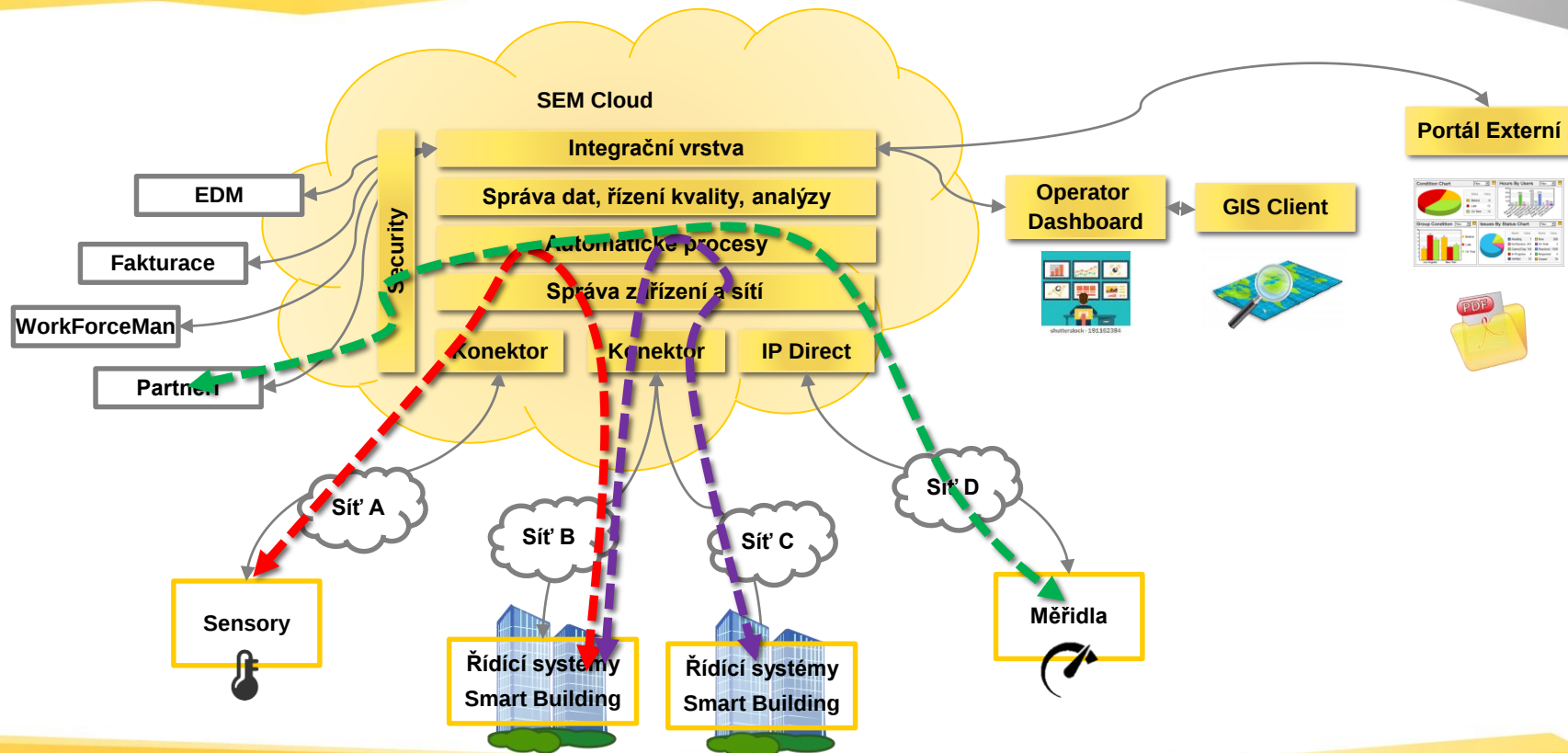
Architektura SEM



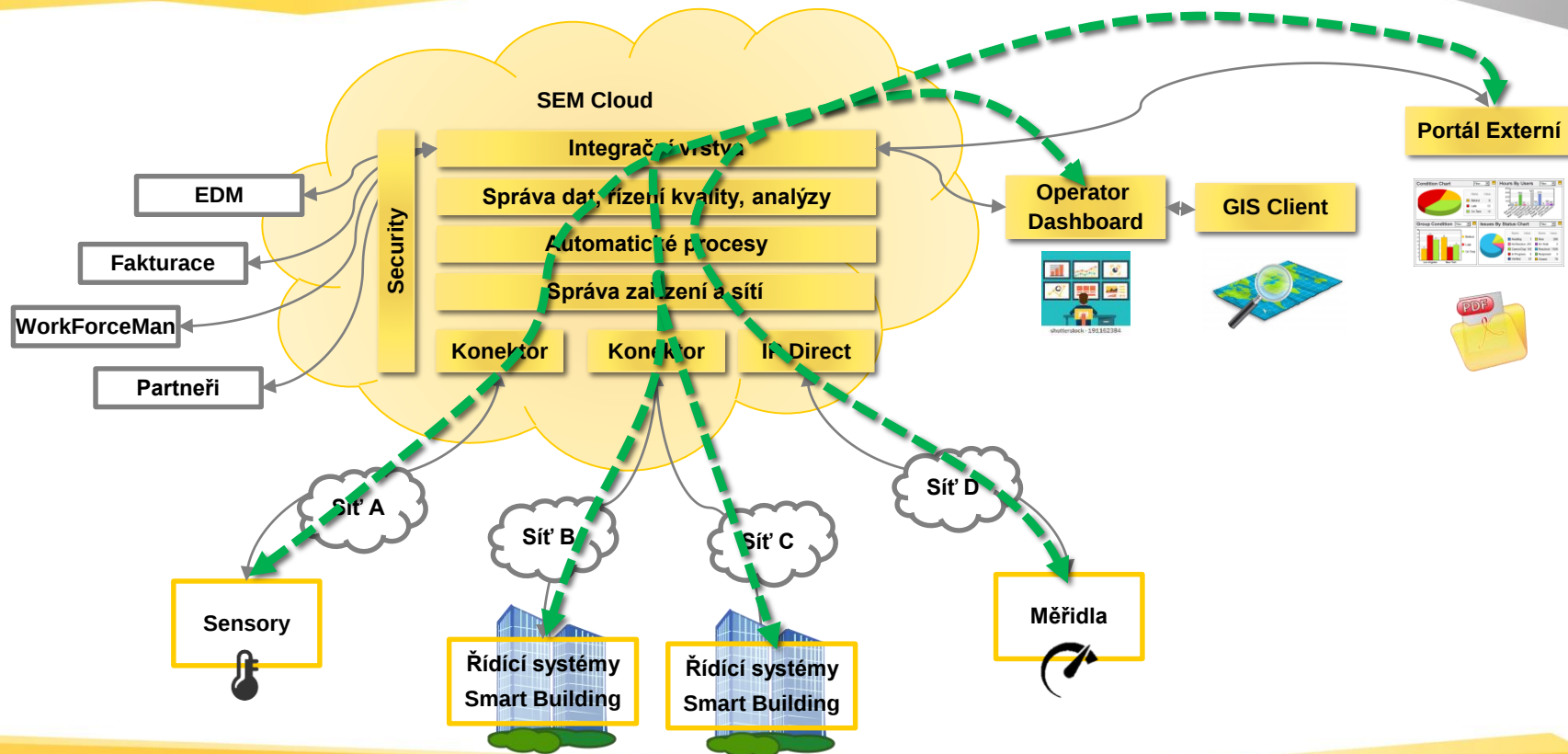
Architektura SEM: Mezigenerační soužití



Provázání heterogenních systémů



Sběr a analýza dat

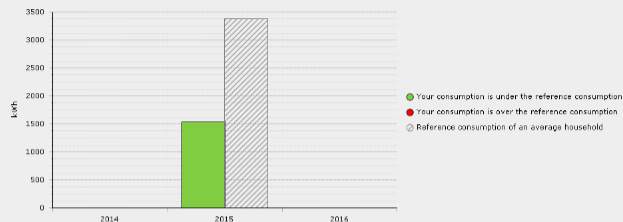


Portál pro konečného zákazníka

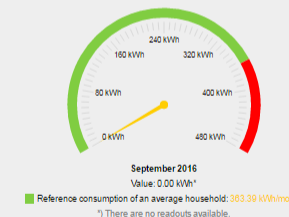
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Home Data Customer Meters Energy saving Help demo Logout

Long-term consumption



Monthly consumption: 08300832400 - 1.8.x - Active energy consumption



08300832400 - September 2016

Average power: 0.00 kW
Average stand-by power: 0.00 kW
Total consumption: 0.00 kWh
Stand-by consumption: 0.00 kWh
Total CO₂ production: 0.00 kg
Stand-by CO₂ production: 0.00 kg

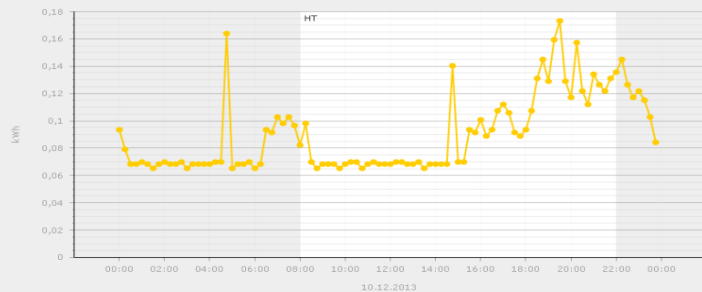
*) can only be estimated if 15-minute load profile values exist

Home Daten Kunde Zähler Energieeinsparung Verwaltung [?] rochenbauer Abmelden

Jahr Monat Woche Tag Tabelle

10.12.2013

ELONtest - Netzbetreiber an Kunde



Home Data Customer Meters Energy saving Administration [?] Kuba Logout

TEST030012
TEST030013



Meter type: Echelon meter
Serial number: TEST030012
Measures production: No
Measures multiple tariffs: No
Is pre-paid: No
Pre-paid credit: \$0

Features:

- Load profiling; billing for time-of-use, prepay, and optional max demand; power-quality analysis; remote-controlled disconnect/reconnect switch; comprehensive display, home area networking support; bidirectional power line communications
- Tamper-events detected, logged and communicated even during a power failure; Energy measurement technology highly resistant to DC magnetic fields.
- Optional serial multipurpose expansion port (MEP) allows secure hardware extensions for communication with in-home devices, gas and water meters. Optional CNX 3000 for power line and CNX 2000 for ZigBee modules can be used to connect to building information and control devices for home area network management.
- Forward, reverse, net active energy, kvarh import/export, and four-quadrant kvarh measurements enable customer micro-generation sources and power quality monitoring
- Each meter acts as repeater to reach other meters and establish a power line mesh network that shows the real topology of the low-voltage distribution system
- Available in two Max Current ratings - 65 A max, 100 A max

Reading the Display:

The indicators on the meter display designate which value is being displayed and provide indication of various operating parameters. The format of the 8-digit value shown on the display is configurable as to the number of digits, viewing of leading zeros, and the decimal point location.

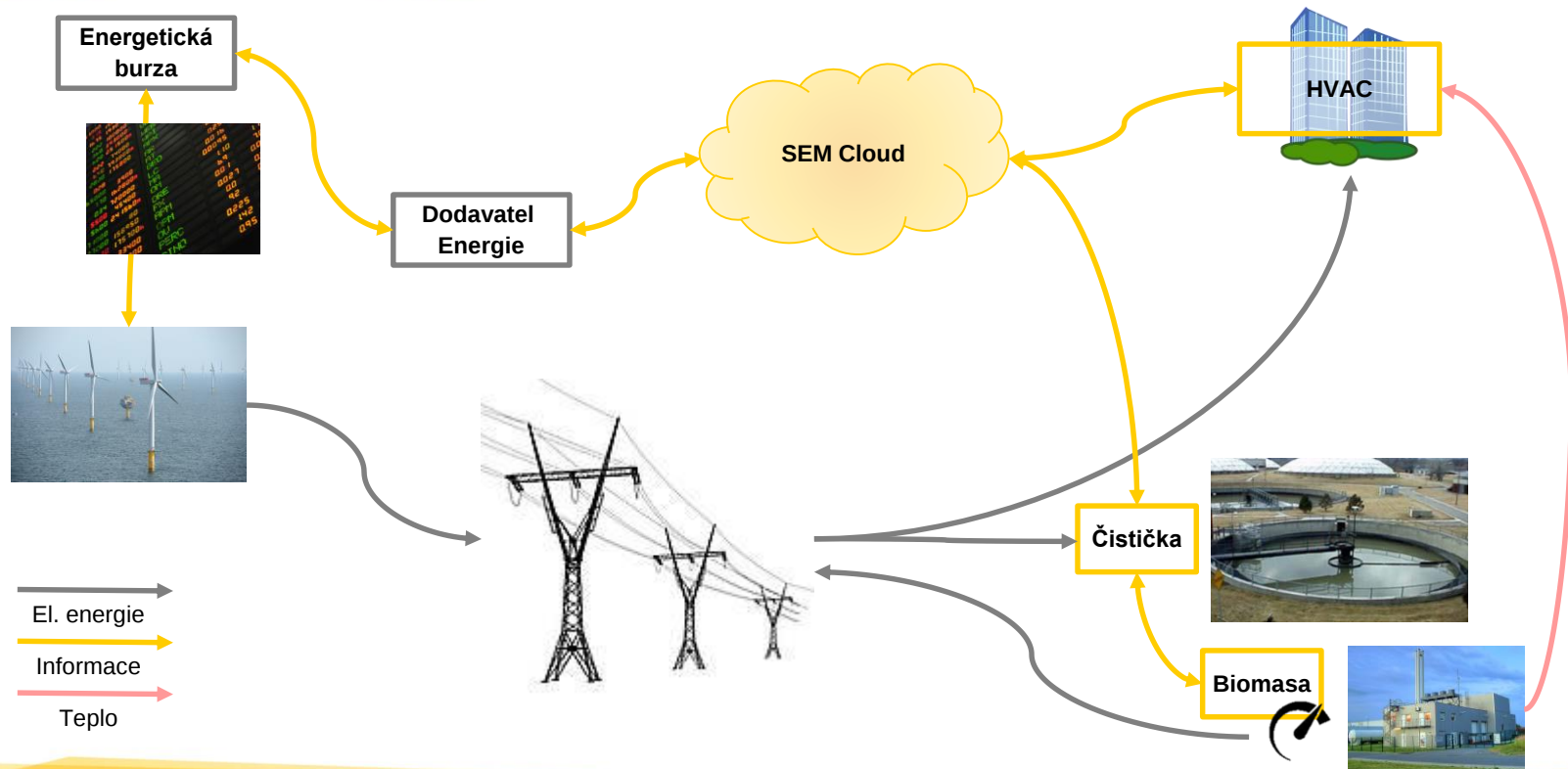
Variable identifiers:

- 1.8.0 - Summation of active energy consumption over all tariffs
- 1.8.1 - Active energy consumption in high tariff
- 1.8.2 - Active energy consumption in low tariff
- 2.8.0 - Summation of produced active energy over all tariffs
- 2.8.1 - Produced active energy in high tariff
- 2.8.2 - Produced active energy in low tariff

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Případová studie: Řízení spotřeby a výroby energií podle cen na burze Optimalizace nákupu

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Děkuji za pozornost

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