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CO2

IC-Meter data: Monthly Statistics for Energy and Indoor Climate August 2015

Location: Demo 1: Energy and Water Room: Green Tech House Vejle Box ID: 75C0EACC User: For batch operations Administrator <admin@ic-meter.com> Location created: 25th Mar 2015 Timezone: Europe/Copenhagen

Energy Balance for the Entire Building

13579	Central heat actual indoor temp.	1,207 kWh
	Savings if 20 °C indoor	926 kWh (77%)
**	Passive solar:	548 kWh
	Specific heat losses:	465 W/°C

Energy label and yearly consumption

0	Energy label:	A 2020 (Calculated after BE10 - Denmark)
•	Energy Supply:	42,183 kWh/year (11 kWh/m ² *year)

- Measured data calibrated to 20 °C indoor and standard DK-Weather conditions

Indoor Climate Meter data - Avg. Values for 6 active hours*

*On workdays between 8:00-14:00

CO ₂ :	474 ppm	
Temperature:	24.0 °C	0
Relative humidity:	51.1 %	\bigcirc

More Statistics >>>

Relative distribution for time of the day in workdays and weekends, ventilation key figures and local weather



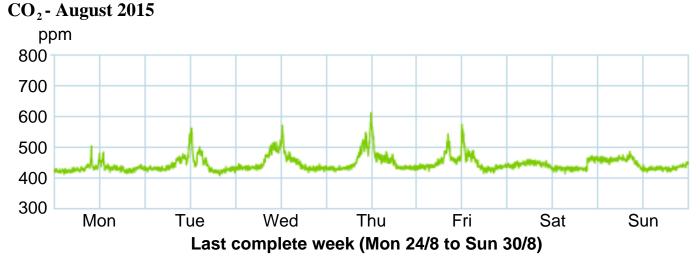
Classification of indoor climate

All indoor meter data are classified according to a Smiley/traffic light concept, where green is good,
yellow is less good and
red is bad.

The classification reflects the indoor climate with respect to health, what is good for the building and the climate outside. The thresholds as listed in the table below have been specified by the Technological University of Denmark, Center for Indoor Climate and Energy.

Indoor climate classes	Bad	Less good	Good	Less good	Bad
		\bigcirc		\bigcirc	
Fresh Air (CO ₂) ppm			Below 800	800-1,000	Above 1,000
Temperature °C	Below 18.2	18.2-20.2	20.2-23.2	23.2-25.2	Above 25.2
Relative Humidity %	Below 20	20-25	25-48.5	48.5-60.7	Above 60.7



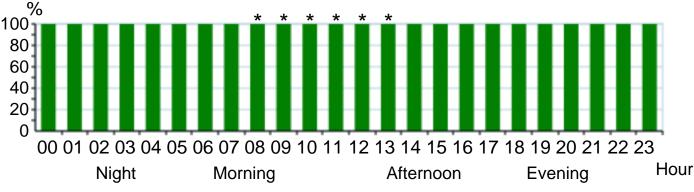


CO₂-Workdays

Relative distribution on the three climate classes for the period

Average CO ₂	Good	Less good	Bad
448 ppm	● 100 %	0 %	• 0 %

Relative distribution for time of the day and climate classes

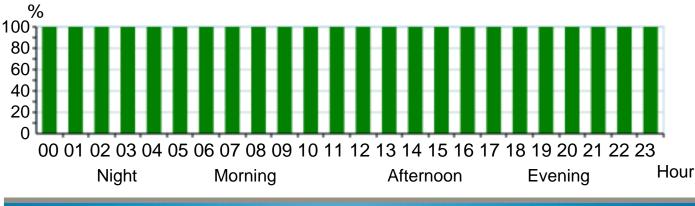


CO₂-Weekends

Relative distribution on the three climate classes for the period

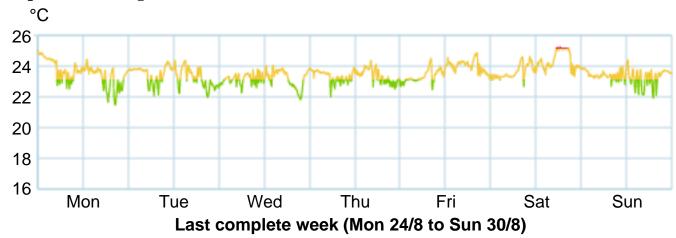
Average CO ₂	Good	Less good	Bad
439 ppm	● 100 %	0 %	• 0 %

Relative distribution for time of the day and climate classes





Temperature - August 2015

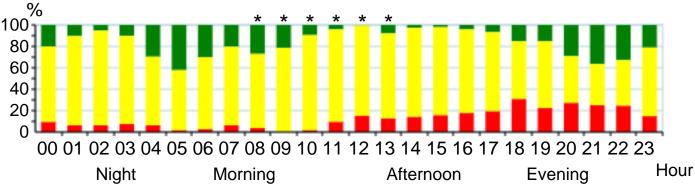


Temperature - Workdays

Relative distribution on the three climate classes for the period

Average Temperature	Good	Less good	Bad
24.0 °C	● 17 %	<mark>)</mark> 71 %	9 12 %

Relative distribution for time of the day and climate classes

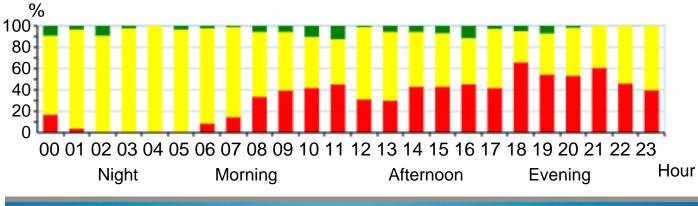


Temperature - Weekends

Relative distribution on the three climate classes for the period

Average Temperature	Good	Less good	Bad
25.1 °C	9 5 %	<u> </u>	9 32 %

Relative distribution for time of the day and climate classes





Humidity - August 2015

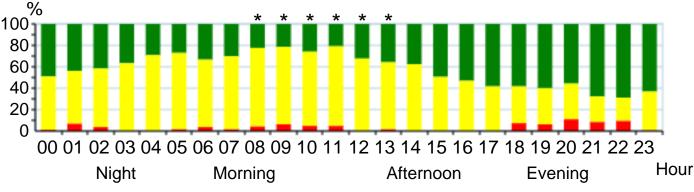


Humidity - Workdays

Relative distribution on the three climate classes for the period

Average Humidity	Good	Less good	Bad
49.5 %	● 43 %	<u> </u>	9 3 %

Relative distribution for time of the day and climate classes

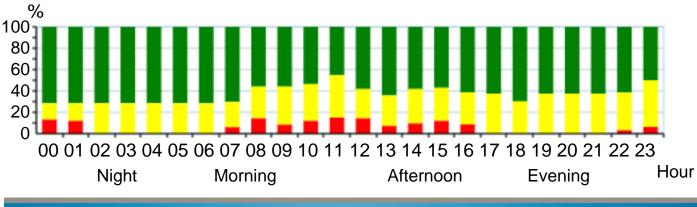


Humidity - Weekends

Relative distribution on the three climate classes for the period

Average Humidity	Good	Less good	Bad
45.6 %	. 63 %	<u> </u>	6 %

Relative distribution for time of the day and climate classes





Period: August 2015

Ventilation key figures

Air change rate: 0.9 /h 2,750.3 m³/h Heavy ventilation: N/A minutes /day Vapor production: 1.3 kg /day

IC-Meter calculates four key figures based on measurements from the previous 30 days.

- *Relative air change per hour pct./hour* (Air change rate) indicates how many m³ get replaced in a room during an hour, compared to the volume of the room.
- *Absolute air change per hour m³/hour* indicates how many m³ get replaced in a room during an hour.
- *Heavy ventilation minutes/day* indicates minutes when the relative air change rate is above 3. This corresponds to e.g. two open windows resulting in the air in the room being replaced quickly.
- *Vapor production kg/day* indicates the average total vapor produced in a room to maintain a higher absolute humidity indoor than in the air outside.

More information

More information on www.ic-meter.com



Period: August 2015

Local Weather

Average temperature	Min	Max
17.5 °C	7.3 °C	27.7 °C

Average humidity	Min	Max
73.6 %	30.8 %	98.8 %

Wind speed m/s	Direction		
Average wind speed	1.	2.	3.
2.3 m/s	Е	SE	SV

Read more about the measurement concept of IC-Meter on <u>www.ic-meter.com</u>