

Building Energy Efficiency 2018



SIGNIFICANT LONG TERM COST SAVINGS
CZECH REPUBLIC

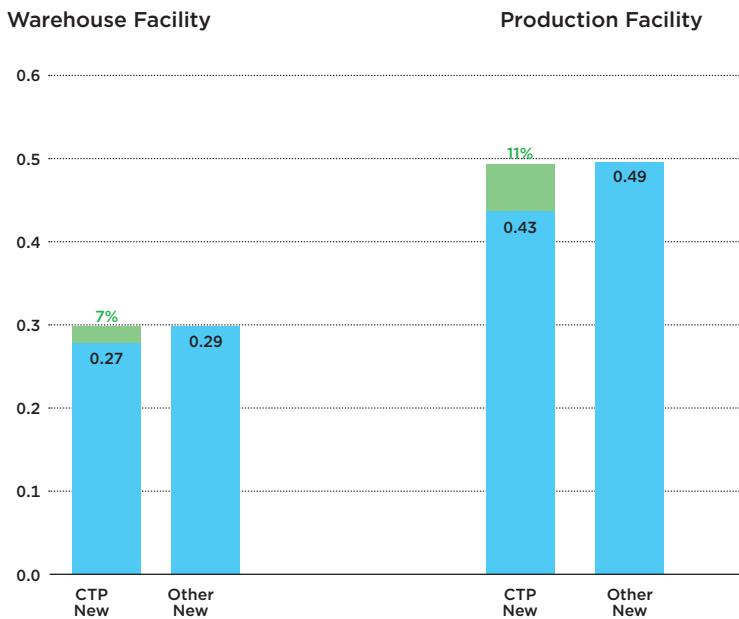
CTP buildings are built to the highest standards to ensure they meet the energy efficiency requirements our clients expect. We continuously upgrade our building standards to include the latest proven technologies to improve longevity, maintenance requirements and energy efficiency—all of which translate to significant operational cost savings for our tenants from one building generation to the next.

We recently conducted a study of our standard warehouse and production facilities which incorporate our latest energy efficiency standards compared to other new buildings on the market.

Our efforts demonstrate that the latest CTP-built buildings lead the market, offering up to 11% cost savings annually.

Energy Savings Comparison

(Baseline: New CTP Building)



Save up to

11%

with the latest CTP specifications

■ Energy Savings in %
■ Energy Expenditure per m²/mo.

Real World Energy Expenditure: Heating, Lighting, Building

Building type	Main space temperature	Heat gains from technology	Number of employees	Gate opening frequency	Operation time	Lighting requirements	Specific energy costs (m ² /mo)
WAREHOUSE 10,000 m ²	15 °C	1 W/m ²	50/shift	medium	2 shift Mo-Fri (333 hr/mo)	avg. 200 lux	€0.27
PRODUCTION 10,000 m ²	18 °C	10 W/m ²	200/shift	medium	3 shift Mo-Sat (333 hr/mo)	avg. 300 lux	€0.43



Building Specifications

		Other New	CTP New
BUILDING ENVELOPE			
Roof	description	180 mm MW	240 mm MW
	U (W/m ² .K)	0.23	0.17
Facade	description	panel 150 mm MW	panel 150 mm MW
	U (W/m ² .K)	0.27	0.27
Rooflights	description	multiple cell polycarbonate	multiple cell polycarbonate
	U (W/m ² .K)	0.27	0.27
Office part windows	description	PVC, double glazed	aluminium, triple glazed
	U (W/m ² .K)	1.5	1.39
LIGHTING			
Hall	source type	fluorescent T5	LED
	lm/W	95	120
Office areas	source type	fluorescent T5	LED
	lm/W	90	95