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Building portfolio

Optimized electricity cost

Saves money & the planet

## The solution

### Spot price optimization

myLoadShift is an add on solution to myCoreAI which optimizes your building to consume electricity when the price is favorable. The spot prices are determined the day before, and myLoadShift predicts the building's needs 48h in advance. The thermal inertia of the building can then be used to shift the consumption of electricity.

Some electricity needs cannot be shifted, such as lighting and most fans, but heating generally can. The thermal inertia of buildings is normally 2-12h. myCoreAI together with myLoadShift will know how much inertia your individual buildings have, depending on for example materials, behavior of the occupants and the outdoor temperature. Therefore, the system is able to optimize the consumption as well as your cost, without jeopardizing the indoor climate.

To fully benefit from myLoadShift you must have heat pumps and/or cooling machines, and to make the financial savings, you also have to be buying parts of your electricity from the spot market.

## Insights

Just like in myCoreAI you will be able to track the performance of myLoadShift through performance reports in our web portal called myPortal.

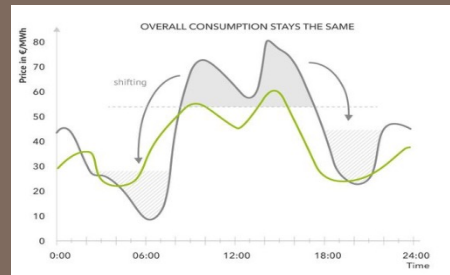


Fig 1. Load shifting

Electricity cost saving  $\leq$  35%

## Benefits

### For you

myLoadShift saves you money since it allows your buildings to consume electricity at favorable prices. Given you have heat pumps and cooling machines, we see cost reductions exceeding 35% when we optimize them.

The size of your savings depends on the size of your buildings, how many heat pumps and/or cooling machines you have in your stock, and the inertia which decides how much energy we can shift.

### For the planet

By deploying myLoadShift together with myCoreAI in buildings, the real estate sector can be a significant part of the solution to the capacity problems in the electricity network. Lowering consumption during peak hours when the demand is high, will result in lower peaks and reduced need for "bad" energy sources like oil and coal. Dynamic consumers also allow for a higher share of intermittent energy production like solar and wind.

### Features

- Optimization of electricity cost
- Optimized indoor climate
- Performance reports of savings

### Prerequisites

- myCoreAI
- Ability to control heat pumps, cooling machines & ventilation
- Energy meter reading data

