



HeatAdapt

Automate Your heat pump based on dynamic electricity prices

Built for air-to-water and ground source heat pumps



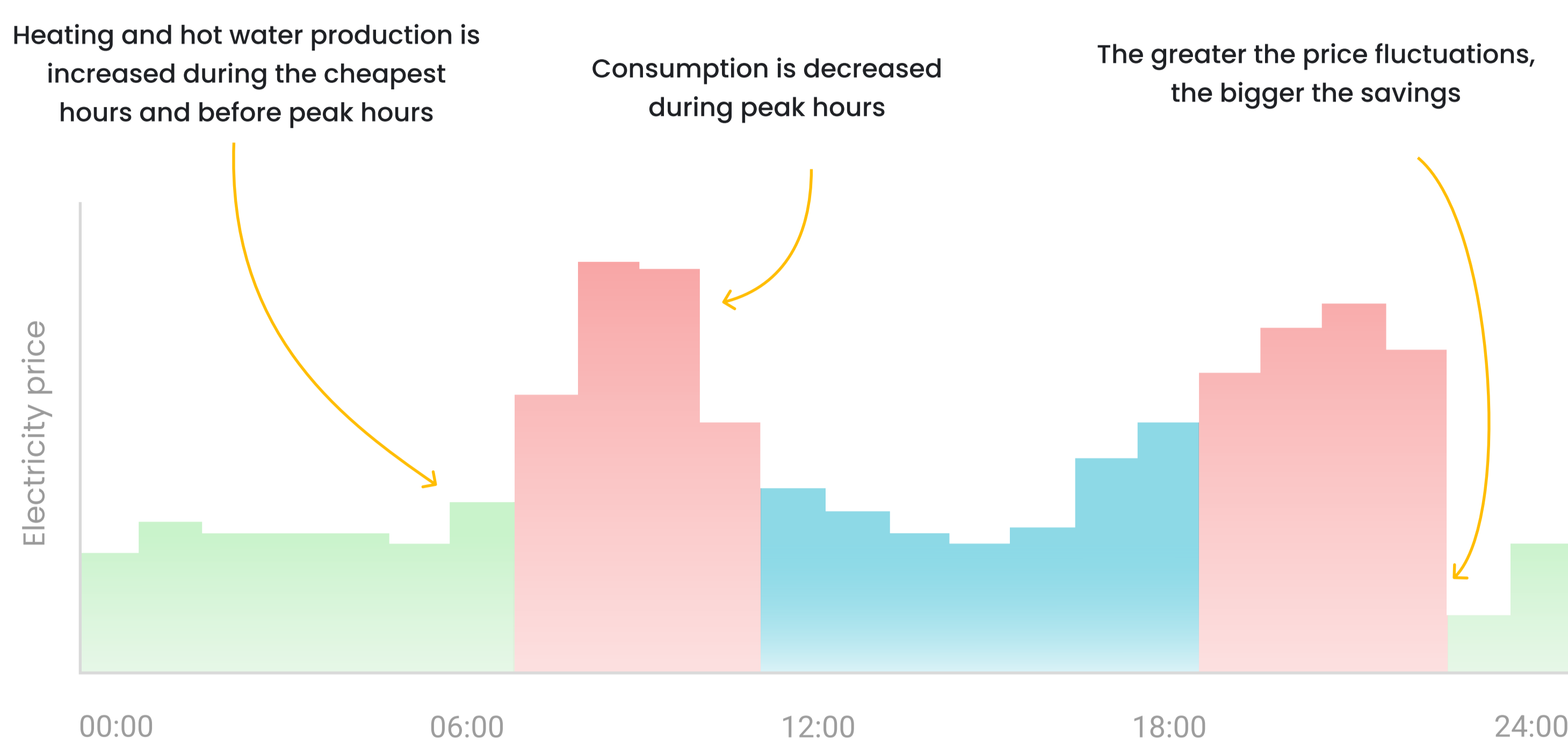
Timing your heating to off-peak hours can deliver significant savings

14% - 24% per year

savings achieved by HeatAdapt during April 2024 – March 2025

up 31% per month

with highest monthly savings achieved in October 2024



Benefits of automatic tracking of hourly electricity prices



COST SAVINGS

Leverage low hourly electricity prices and decrease energy consumption during peak times, leading to substantial savings on your electricity bill.



CONVENIENT

HeatAdapt automatically determines the most efficient heating pattern for each day by analysing hourly electricity prices, weather forecasts, and the building's thermal properties.



ENVIRONMENT

By automatically reducing energy use during peak hours, the load on the electricity grid is also reduced. This way, we can consume more green energy.



HeatAdapt is **compatible with heat pumps from over 20 manufacturers**. It can be integrated either during the installation of the heat pump or later, such as during routine maintenance.

Likely the fastest return on investment for a heating system

The control logic of HeatAdapt was developed in collaboration with TalTech university researchers, based on a 12-month study that involved detailed measurements, modelling, and savings assessment of over ten Nordic buildings.



Home, built in 2018

Highly insulated

23%

Annual savings

Heat pump: Air-to-Water
Heated area: 110 m²



Older home, built in 1974

Moderately insulated
Renovated in 2005

18%

Annual savings

Heat pump: Air-to-Water
Heated area: 127 m²



Home, built in 2000

Well insulated

20%

Annual savings

Heat pump: Air-to-Water
Heated area: 161 m²



New home, built in 2022

A energy class

24%

Annual savings

Heat pump: Geothermal
Heated area: 200 m²



The savings are calculated based on buildings that participated in the study during the period April 2024 – March 2025. HeatAdapt's savings models are based on a study conducted in cooperation with TalTech University during the 2023/24 heating season. The study included more than ten small Nordic houses, with measurements of energy consumption, room temperatures, and heat pump parameters, and an estimate of average monthly savings in electricity costs. Annual savings are calculated based on the average monthly savings percentage over a 12-month period. Actual energy savings for a particular building may be higher or lower depending on the characteristics of the building and heating system, the consumption habits of the residents, and fluctuations in hourly electricity market prices.

Cutting-edge control algorithm, engineered exclusively for heat pumps



ALGORITHMS DESIGNED TO MAXIMISE SAVINGS

Developed in collaboration with university scientists during the 2023/24 study, the dynamic price control schedules are tailored for heat pumps to maximise potential savings.



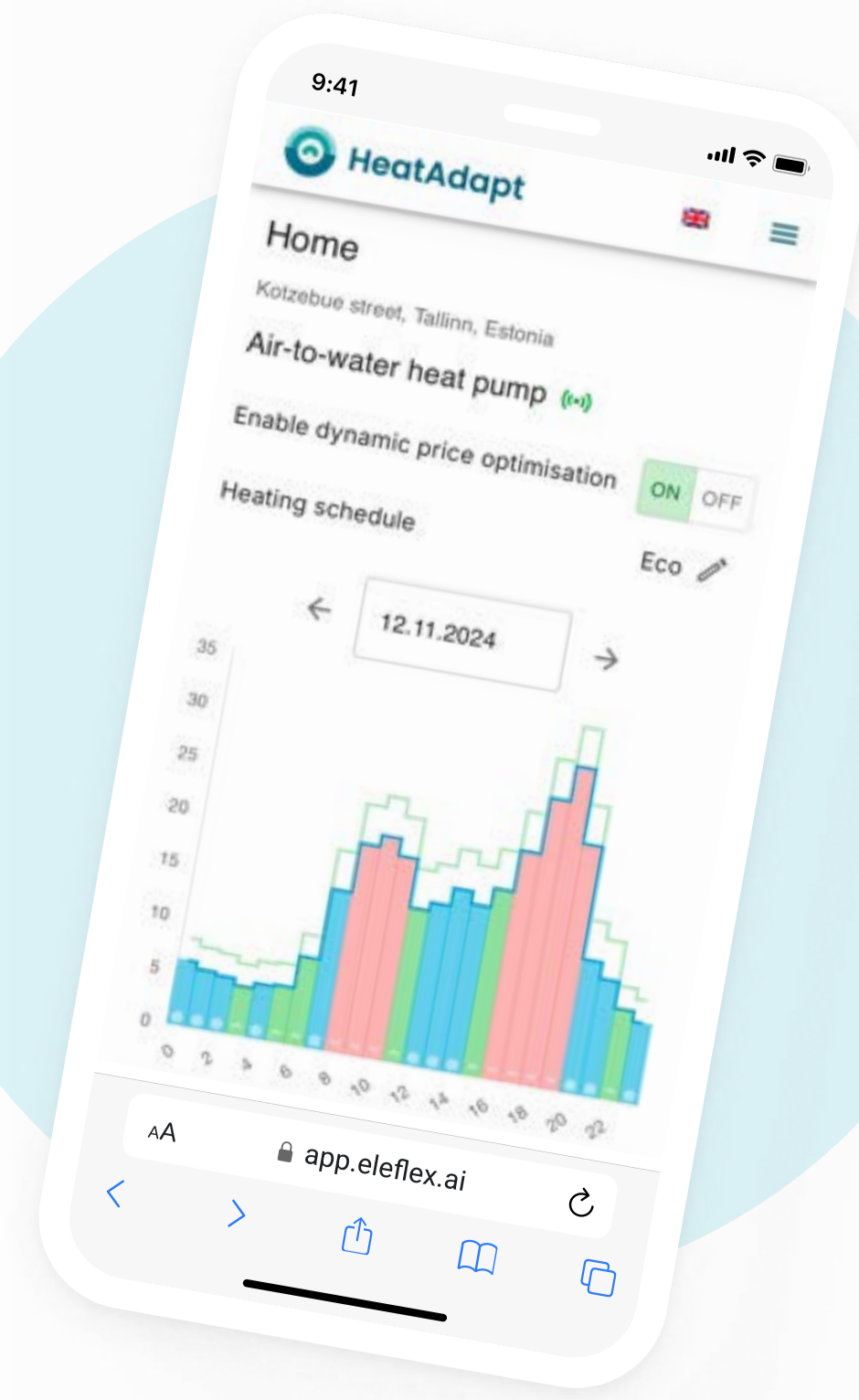
WORKS SEAMLESSLY WITH SOLAR PANELS

Using solar production forecasts, HeatAdapt accounts for solar panel output and optimises the heating schedule during surplus electricity, increasing self-consumption.



WEATHER AND COP-BASED OPTIMISATION

HeatAdapt adjusts for outdoor temperature-driven COP changes in air-to-water heat pumps, using sudden shifts in temperature to enhance the benefits of dynamic electricity price optimisation.



Web app offers a clear overview and control

Daily heating schedules are conveniently accessible on the web app. The graph also shows dynamic electricity prices and savings based on the applied schedule.

- Adjust settings for greater cost savings or enhanced comfort based on your preferences.
- Overview of dynamic electricity prices, heating schedules and savings.