

PreHeat is an intelligent forecast based energy management system, that saves energy and ensures good housing comfort year around

Energy efficient housing

Preheat ensures a more energy efficient housing by reducing and utilising your heating better without sacrificing comfort. Preheat manages the energy supply in the home based on weather forecasts, knowledge of the house and temperatures, which minimises heat spill. Depending on the nature of the housing, PreHeat can reduce energy consumption for heating by up to 20%. The biggest savings will be achieved in homes with lower energy label as the forecast based energy management ensures a much better energy usage.

Self-learning forecasting system

Preheat builds up knowledge about the thermal properties of the house, such as degree of insulation, the influence of the sun, wind, outside temperature and user behaviour in the house. Preheat combines this knowledge and weather forecasts to estimate the amount of energy needed to maintain a good comfort in the house. Forecast management reduces heat spill and utilises free heat from the sun optimally, which profits both your wallet and the planet.

Minimizes fluctuations in temperature

Over time, Preheat will learn to know the house so that it can organise and manage the heating based on something happening in the future. If Preheat knows that the sun begins to shine early in the afternoon, the energy delivered to the house can be limited already in the morning to avoid heat spill because the house gets too hot.

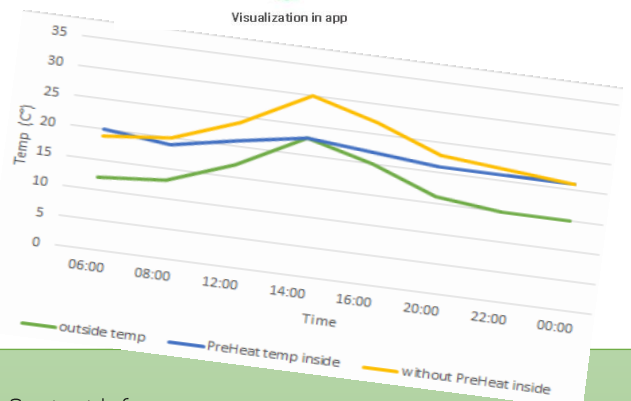
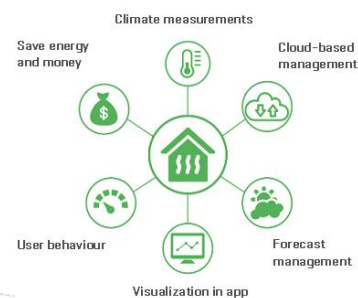
Preheat consists of a small hardware box that communicates with Neogrid's servers via the Internet. The heavy mathematical calculations for the house's dynamic heating requirements are calculated by Neogrid, to plan for how the house must be heated in the coming period. The calculations take into account the weather conditions, the house's thermal inertia and user behaviour.

Remote control and complete overview

In the Preheat app, it is possible to keep an eye on how the heating of the house is organized and see the history of how it has been running. You can see your consumption data with graphs that display your hourly, weekly, monthly and annual consumption. Preheat also alerts in case of unintended consumption. Preheat ensures a better understanding of how energy is used and is offering energy advice for how your consumption can be optimised to achieve more savings.

Easy installation - easy to operate

No heavy intervention on the heating system is needed, as the installation just requires to put up a new thermostat. Self-learning operational optimization is then made by the system itself. New comfort levels can easily be set in the app. For example, night setback or lowering the temperature when no one is home. Preheat can also set the house to be heated when the family returns from work or a longer holiday.



With PreHeat:

- Up to 20% savings on your heating bill!
- Optimal energy utilization of weather conditions
- Reduction of overheating in periods of sunlight
- Alerts if unintended consumption
- Complete overview over consumption

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