

Integrated Climate action plan

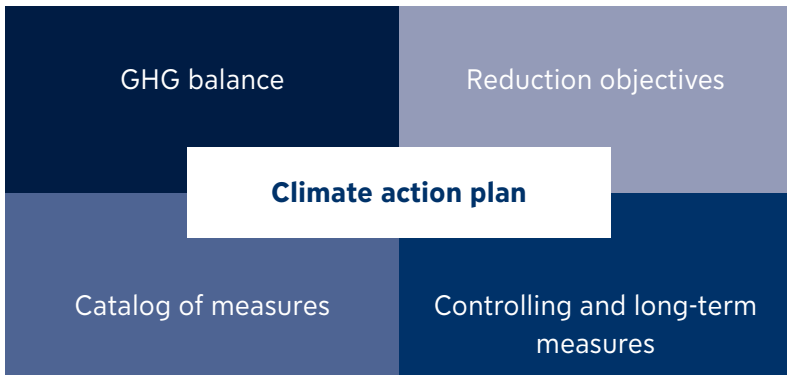
at Friedrich-Alexander-Universität Erlangen-Nürnberg

Short version



Core content of climate action plan

FAU would like to act as a role model in the area of climate action and meet its social responsibilities. FAU has therefore drawn up a climate action plan as the basis for the systematic reduction of its own greenhouse gas (GHG) emissions. The action plan depicts the current status quo, defines measures aimed at allowing us to meet our goals for reducing greenhouse gases, and describes the approach we intend to take for controlling and implementing measures over the long term.



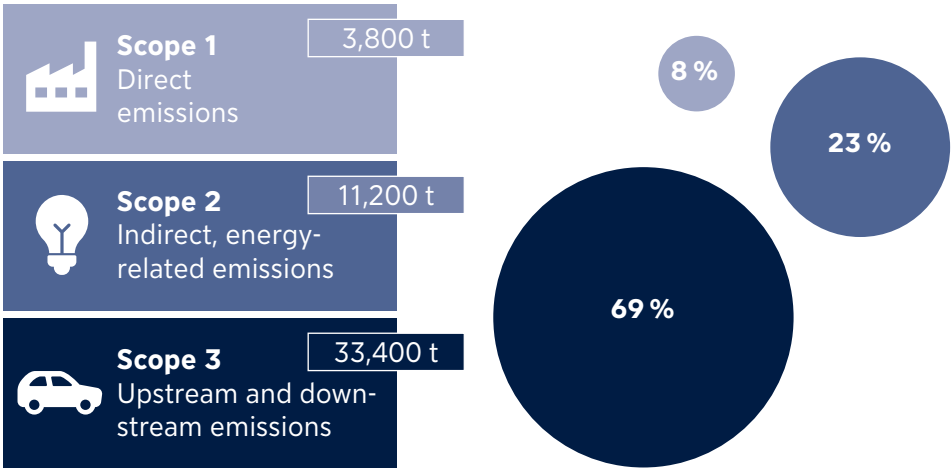
Current status

As a university which offers the entire spectrum of disciplines with extensive research activities and more than 250 buildings, FAU required a total of 154 GWh of energy in 2022. The 85.8 GWh required for heating consists of both district heating and natural gas (including the quantities required to operate the heat-generated cogeneration unit). As well as producing approximately 6.7 GWh of heat, the cogeneration unit also produces approximately 5.7 GWh of electricity. All emissions from the cogeneration unit have been allocated entirely to the area of heating in the GHG balance. The energy required for cooling purposes is already included in the other figures.

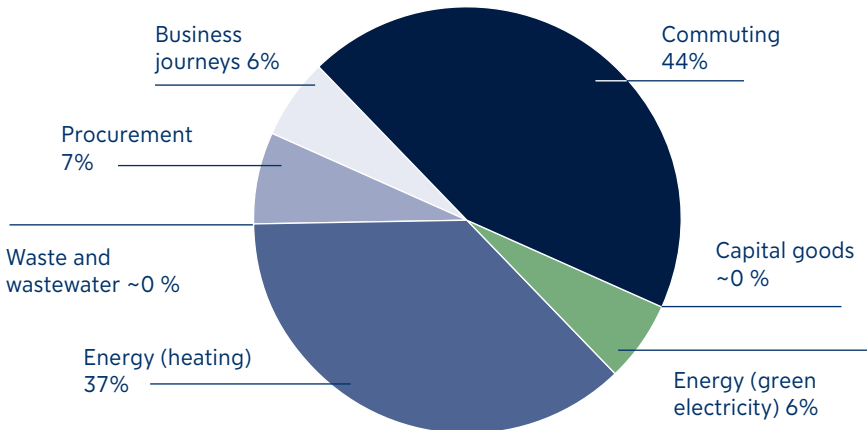
Consumption in kWh	
Electricity	68,400,000
Heating	85,800,000
Total energy	154,200,000

GHG balance

From a market-based perspective (considering the composition of electricity consumed according to electricity tariff) the total emissions of FAU in 2022 were approximately 48,400 t CO₂ equivalents (CO₂e). Choosing a 100% green electricity tariff meant that FAU's GHG emissions were reduced on the balance sheet by approximately 27,800 t CO₂e (36.5 %) in 2022.



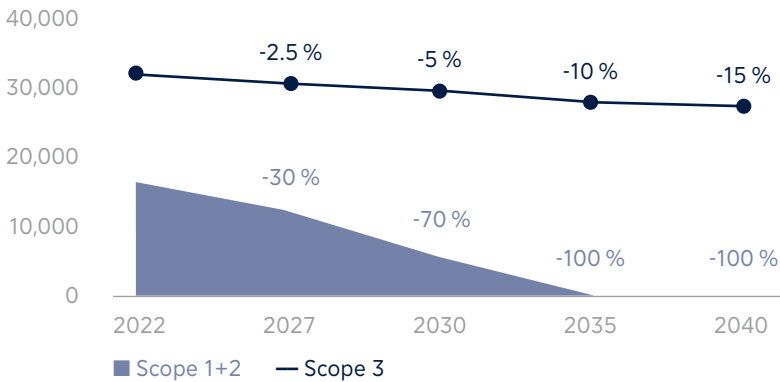
The majority of the remaining GHG emissions is due to the commuting of FAU members (44 %) and heating requirements (37 %).



Goals for reducing GHG and reduction pathway

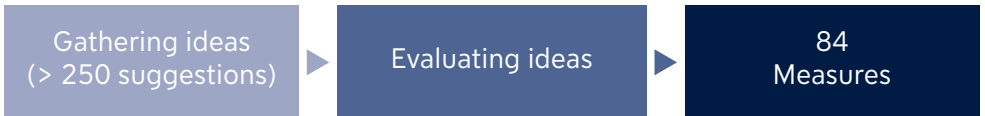
FAU has set itself ambitious goals and is striving towards achieving GHG neutrality in 2035 already, i.e. striking a balance between emissions of greenhouse gases and the removal of greenhouse gases from the atmosphere. FAU focuses predominantly on cost-effective reductions of emissions, although this also depends significantly on external developments, particularly in the field of energy supply.

FAU's reduction pathway



Climate action

Creating the catalog of measures in consultation with FAU members:



The measures come from 13 fields of action and have at times widely differing requirements concerning investment and the scope in which a reduction of emissions can be expected when they are implemented. The catalog of measures is a working basis and a declaration of intention. It is also possible for FAU to achieve the goals if not all of the measures included can be implemented.

Catalog of measures



investment required

partial investment

no investment

13 fields of action:

- Climate change adaptation
- Facility management
- Heating/cooling
- IT infrastructure
- Lighting
- Mobility
- Procurement
- Renewable energies
- Research
- Teaching
- Transfer
- University properties
- Waste and wastewater

Controlling and long-term measures

Consolidation strategy for climate action concept and climate change management:

- Continuation of climate change management in Green Office
 - Requirement for additional or permanent human and financial resources
- Increased integration of internal and external stakeholders
 - Communication with and involvement of all internal status groups
 - Synergy effects from collaboration and consultation with external stakeholders
- Sustainability Committee responsible for monitoring and steering
 - Status report on implementation
 - Checking whether objectives and measures are still effective

Controlling strategy for implementing the climate action plan:

- Top-down controlling
 - Monitoring of GHG balance (on an annual basis)
 - Evaluation of to what extent objectives have been reached
- Bottom-up controlling
 - Progress in implementing measures
 - Effectiveness and cost efficiency of measures
- Comparison of indicators
- Reporting and adjustments

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aufgrund eines Beschlusses
des Deutschen Bundestages



The extended version of the integrated
climate action plan is available at:
fau.info/klimaschutz