# SEE PROGRAMME ANNUAL PLAN 2023 AND LONG-TERM OUTLOOK

**B.MARECHAL** 

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# **UNIVERSITY OF TWENTE.**



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## PREFACE

The SEE programme annual plan details the plans for 2023 to continue making the organisation more sustainable.

Sustainable means lower the CO2 impact, improve circularity, minimize pollution and strengthen biodiversity. This broad interpretation of sustainability is necessary as all these large issues are connected to each other and influence one another. We cannot make progress on one by ignoring another. That said, prioritising and boundary setting is essential to allocate the available resources, primarily staff time, efficiently.

The main focus in 2023 lies on operational management issues that have a high impact on UT's CO2 footprint. The goal for 2030 is to reduce CO2 emissions by 49% and become CO2 neutral. The more UT reduces, the fewer emissions need to be compensated. Besides CO2 impact, the focus also goes to issues that have high visibility and as such have great capacity for building support and increasing awareness on sustainability. Change requires difficult decisions to be taken. In order to make it possible for these decisions to be taken, there needs to be sufficient support to carry through those decisions. Awareness, communication and transparency are essential ingredients to build and maintain support.

The plans for 2023 build on the efforts and achievements of previous years.

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Via this link, you can find the members of the SEE working group, sounding board and steering group

## **MANAGEMENT SUMMARY**

This report looks ahead to the plans for 2023. The figure below provides a summary of the major tasks for 2023.



Figure 1. Overview focus SEE programme 2023

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## **1. INTRODUCTION**

The SEE Annual plan for 2023 details the plans, activities and processes that will be carried out in 2023 by members of the SEE Programme in collaboration with colleagues from service departments, from faculties as well as students and initiatives such as Green Hub Twente and organisations such as SUSTAIN and Scientists4Future.

The plans have the primary aim to contribute towards reaching the goals agreed to in the Sustainability Policy for operational management in May 2020 by the University Council.

The main challenges are to reduce UT's greenhouse gas emissions, avoiding environmental pollution, reducing UT's impact on the depletion of natural resources and deforestation and combatting the loss of biodiversity.

The aims are carbon neutrality, circularity, strengthening biodiversity and minimizing the impact of UT's activities on the soil, air and water. Each year we aim to take steps towards reaching these large goals.

### 1.1 UPDATED DUTCH AND EU SUSTAINABILITY GOALS

The European Green Deal<sup>1</sup> has set their target at a 55% reduction in CO2 emissions by 2030. The Dutch government expressed their ambition to strive towards 60% reduction in CO2 emissions in their coalition agreement<sup>2</sup>. The EU circular economy action plan is one of the main building blocks of the European Green Deal.

### 1.2 DEVELOPMENTS IN CARBON PRICING

Carbon prices fluctuate<sup>3</sup>. Currently a price of €100 per tonnes CO2eq is considered acceptable but this paper describes het results of a survey among scientists who are experts on carbon pricing that carbon price recommendations were skewed towards high prices of \$92 in 2030 to \$224 in 2050<sup>4</sup>.

### 1.3 DEVELOPMENTS IN SUSTAINABILITY REPORTING

European Corporate Sustainability Reporting Directive will provide standards that organisations can/should use to report on their sustainability performance. The SEE programme is in close contact with the colleagues at GA and S&P who are involved in this reporting to ensure data collection and monitoring is in place to be able to provide the required information.

### 1.4 SHAPING 2030 GOALS

The UT strategy Shaping 2030<sup>5</sup> set out the goal to reduce CO2 emissions with 15% by 2023 in the areas of food, water, waste, travel and energy use and become a sustainable organisation by 2030. As a university, we lead by example. We consider sustainability to be a precondition for everything we do.

The 15% CO2 reduction goal in 2023 is compared to data from 2019. The EU targets compare their reductions to 1990. UT chooses for now to compare to 2019 as there is no reliable and comparable data available from 1990.

The 2022 SEE Annual Report analyses what steps have been made and what is needed in the coming years to become a sustainable organisation in 2030.

<sup>&</sup>lt;sup>1</sup> https://climate.ec.europa.eu/eu-action/european-green-deal\_en

<sup>&</sup>lt;sup>2</sup> https://open.overheid.nl/repository/ronl-f3cb0d9c-878b-4608-9f6a-8a2f6e24a410/1/pdf/coalitieakkoord-2021-2025.pdf

<sup>&</sup>lt;sup>3</sup> https://carboncredits.com/carbon-prices-today/

<sup>&</sup>lt;sup>4</sup> https://www.cesifo.org/en/publications/2022/working-paper/pricing-carbon

<sup>&</sup>lt;sup>5</sup> https://www.utwente.nl/en/organisation/about/shaping2030/

## 2. PLANS FOR 2023

The main focus in 2023 lies on operational management issues that have a high impact on UT's CO2 footprint. The goal for 2030 is to reduce CO2 emissions by 49% and become CO2 neutral. The more UT reduces, the fewer emissions need to be compensated. Besides CO2 impact, the focus also goes to issues that have high visibility and as such have great capacity for building support and increasing awareness on sustainability. Change requires difficult decisions to be taken. In order to make it possible for these decisions to be taken, there needs to be sufficient support to carry through those decisions. Awareness, communication and transparency are essential ingredients to build and maintain support.

Climate change is not the only challenge we are facing: pollution of air, soil and water, availability of resources and loss of biodiversity are all challenges that have to be tackled simultaneously as they are interrelated.

The responsibility for the resources UT uses includes assessing the impact of resource mining and scarcity of materials as well as labour conditions in mining. This leads UT to focus on circularity and on applying criteria addressing this in procurement and purchasing processes.

Energy saving remains a priority as well as reducing CO2 emissions from business travel as well as commuting. We aim to facilitate the development of a UT vision on circularity and water in the coming two years. These vision documents need to be widely supported therefore time will be taken to consult widely.

Compliance with legislation on mobility reporting, waste recycling and product use, the application of recognized energy saving measures (EML) and reporting on wastewater will be done and reported on in the Annual Report 2023.

The focus in 2023 lies on CO2 emission reduction in energy and mobility (business travel and commuting) complemented with efforts to improve the sustainability performance in the areas of food, waste, buildings and procurement. This does not mean no action will be undertaken in the other themes, it merely emphasizes the focus.

The plans for 2023 build on the efforts and achievements of previous years. Depending on external circumstances some projects may gain in priority during the year while others move forward at a slightly slower pace. The annual plan is designed to provide a structure and will be flexible enough to adapt when necessary.

#### 2.1.1 Energy: plans for 2023

Due to the increased energy price, improving energy efficiency is not only important from a sustainability point of view but also from a financial point of view. A 20% reduction goal of current usage is required in 2023 (EB decision). SEE programme will support, encourage and stimulate the application of measures that have - due to high energy prices - now resulted in more acceptable return on investment times.

The goal of becoming gas-free is prioritized further. Most gas is used to produce steam for air humidification. Pilots will be held to investigate whether adiabatic cooling which can be done electrically is feasible and appropriate for all kind of lab environments.

Energy efficiency – following the TRIAS ENERGETICA – remains the mantra within the energy theme: limiting the demand for energy, using sustainably generated energy and looking at energy reduction throughout the chain.

**PLAN** Continue to work towards: **Energy Roadmap** Efficiency objective 2% Roadmap for UT real estate towards CO2 neutral real estate **Paris Proof buildings** Energy consumption of 70kWh/m2/year

ACTION Maintain Energy

reduction/year

**GOAL 2023** 

4% gas consumption reduction/year

- Energy efficiency measures
  - Applied at building renovation projects (Roadmap to CO2 neutral real estate) 0
  - Projects identified within the faculties 0
  - Projects focused on increasing awareness, behavioural changes and organizational changes which 0 impact on the user-influenced energy consumption
  - Becoming gas-free: pilots with adiabatic air humidification 0
  - Optimise organizational processes within student associations to benefit from energy efficiency 0 measures at Pakkerij
  - Transfer lighting to LED 0
- Energy reduction/limiting demand
  - Reducing the number of multifunctionals (printers/photocopiers) with the start of a new contract (LISA) 0
  - Enable smart stand-by modus coffee machines reducing energy demand machine based on site specific 0 usage and attendance
- Monitoring and reporting of the performance of UT buildings towards the Paris-proof target of 70kWh/m2/year
- Local energy generation
  - The covering of carparks with solar panels is investigated 0
- Policy or guidelines on the use of lighting, internal and external to reduce unnecessary energy usage and minimize light pollution.
- Expanding https://energydata.utwente.nl/ to include more UT buildings and facilitating insight into faculty specific energy consumption based on the square meters used.
- Continuing the Certificates of Origin in order to purchase green electricity and the purchase of Voluntary Emission Reduction carbon credits to offset the CO2 emissions of UT's gas consumption.

#### Reasoning for these choices

#### Impact

It is not anymore a question of what to do in terms of energy savings: we need to do everything we can do reach the set reduction target of 20%.

#### Communication statement

Together towards a CO2 neutral university.

There is an urgent need to reduce UT's energy consumption. All aspects of energy consumption need to be reviewed and considered for implementing efficiencies. Every member of the UT community has a role to play. We need to take all small and large steps.

#### Roadmap

Due to the increased importance on achieving a 20% energy reduction in 2023, the Executive Board has tasked Bertyl Lankhaar

#### Communication campaign

A communication campaign to create awareness and get there UT community actively involved already started at the end of 2022, see article 21/11/22 and 01/12/22 on respectively what you can do and what UT is doing, and will continue in 2023 with communication materials [Annex I] and stickers to remind users where what can and should be turned off when not in use.

#### Effort

Especially realizing lasting behavioural change is a high-effort task. At the section 'risks' this is described in more detail.

#### Awareness & visibility & support for sustainability

Support for sustainability increases when sustainability measures are made visible. Within the energy theme, this can be done by physical projects such as solar panels (covering car parks).

#### Risks & how to deal with these

A risk that has been identified is that many projects will be set up without UT wide coordination or monitoring resulting in incomplete reporting on the UT's progress or missing opportunities to share internally or show externally the leading role of UT by sharing best practices externally.

A second risk is a lack of time: The current 0.5 fte energy coordinator focusses on building-related energy efficiency projects and the SEE programme could benefit from a 0.5 fte energy coordinator that has dedicated time to focus on reducing user-influenced energy consumption and supports the UT community on how to realise changes in behaviour that are long-lasting. Without this dedicated time the risk is that only easy short-term issues are addressed and more complicated changes (requiring a lot of consulting, discussing, trying-out and evaluating) -and thus time-wise demanding- are not addressed.

A third risk that is identified is the lack of personnel to manage projects such as potentially the solar car port projects. It should be discussed if this can be solved by temporary external staff in order to build support for sustainability.

The fourth risk is that no policy officer has been identified yet who can develop the light policy. This encompassing policy development as well as technical, working conditions (HR), sustainability, safety and aesthetic aspects. The fact that the task cannot be allocated to an obvious policy officer makes the policy at risk of not getting done.

#### Financial aspects

Costs associated with energy saving often means an investment up-front and an annual gain in reduced costs, The return of investment improves with high prices.

#### Next steps

When pilots with adiabatic cooling are supported broadly, financially and operationally, the University could become gas-free.

#### 2.1.2 Travel & Mobility: plans for 2023

#### **ACTION 2023**

Decide on ...% reduction CO2 & ...% CO2 compensation for business travel

In 2022 a start was made discussing how to reduce the CO2 emissions from business travel. Some faculties indicated they will develop plans for their staff on this. The SEE programme aims to streamline this UT-wide in order to facilitate monitoring and reporting on progress.

#### Reasoning for these choices

#### Impact

The impact of a statement saying UT will reduce xx% of its flying kilometers in 202x compared to 2019 is substantial as it demonstrates real transparency and commitment in working towards a CO2 neutral campus.

#### Communication statement

UT CO2 neutral, 50% reduction<sup>6</sup>, 50% compensation by 2030 for business travel.

#### Roadmap

Some faculties have included making plans on reducing CO2 emissions from business travel in the annual plans, others have not yet.

#### Communication campaign

A campaign will include informing, involving and providing opportunities for giving feedback. SEE programme will aim to bring together the various initiatives to enable a UT wide statement.

#### Effort

Ensuring all noses point in the same direction across a university with five faculties requires a lot of meetings, discussions and consultations to ensure all stakeholders are being heard and involved.

#### Awareness & visibility

A percentage provides an understandable goal which can be communicated clearly. This increases visibility.

#### Risks & how to deal with these

There is a risk some faculties make plans, others do not and UT will have a patchwork of measures, ideas and initiatives confusing staff and preventing UT to make a statement on this topic as well as to realise substantial progress. The new position of Sustainability Coordinator can play a role in this by ensuring faculties are informed more frequently and creating consultation and reflection moments for the UT community.

#### Financial aspects

CO2 compensation involves using budget. Some universities state this needs to be paid from the travel budget; others aim to collect the compensation into an internal fund to be used to pay for sustainability measures. FIN advises on this topic. The CO2 price is a matter of discussion and a minimum CO2 price of €100 should be taken into consideration.

#### Next steps

Sustainability Panel - UT wide consultation on this topic where existing examples (at UT and outside UT) will be discussed.

<sup>&</sup>lt;sup>6</sup> Percentage to be decided in 2023



#### Reasoning for these choices

#### Impact

Making a conscious decision on whether to travel and how to travel is at the core of the SEE approach on mobility. The train map (launched January 30,2023) facilitates the decision-making process on how to travel within Europe. In 2023 a travel check will be developed which has a decision-tree like structure and looks at both business travel and commuting. Most CO2 impact is made by long-distance flights. Therefore a tool encouraging to make a conscious choice whether to travel and when you travel to travel sustainably is an expansion of the current train map.

The train map focusses on the available alternatives to flying. But the expected reduction in CO2 emission is 0.6% (190 tonCO2) of the total UT footprint based on no flights below 700km only and no reduction in travel kilometers. This is 5% of all CO2 impact of flying. But by increasing people's awareness on the impact of travelling, it can be expected that fewer trips will be made overall.

#### Communication statement

Making a conscious decision on whether to travel and how to travel At UT, train is the default mode of travel within Europe.

#### Roadmap

The travel Check will be developed. This is a tool where the UT community is nudged towards choosing the most sustainable travel option (for both business travel and commuting). This takes the shape of a online decision tree model, where a person is guided towards the most sustainable option.

Alongside, feedback is collected on the train map which will be processed. The train map will also be updated when new train routes (night trains) will become available.

#### Communication campaign

A broad, high profile communication campaign using staff members who share their personal experiences will be developed to bring attention to this tool and the goal it aims to achieve.

#### Effort

Ensuring inclusion of the train map and travel check in the booking tool will require a lot of time for consulting with the travel agent. A new travel agent contract is due to start in Q2, 2023. The processing of feedback is a time-consuming task.

#### Awareness & visibility

The train map was the most read UTwente newsarticle in English. This topic has high potential for increasing awareness of what UT does in terms of making their operations more sustainable and is highly visible.

#### Risks & how to deal with these

The monitoring will be accompanied by UT wide reporting to avoid this tool not being used.

#### Financial aspects

Train travel is currently more expensive. Considering the large support and awareness among scientific staff, these costs can be absorbed by the department of the person travelling. For student travel Erasmus has already instigated a green top-up.

#### Next steps

Based on the decision on which percentage of CO2 emission reduction UT wants to achieve (and what percentage UT is thus willing to compensate its emissions for), the character of the guidelines can develop from default to obligatory to enable UT to achieve the set goals.

#### Other projects/actions:

 Monitoring these tools to stimulate more sustainable behaviour will be done quarterly. An inventory will be made on the impact of study travel in collaboration with <u>Green Hub</u>.

- Promotion activities such as trying out an electric car (the option offered in the rental agreement but often not used), cycling to workday and a session on how to book a train trip will help to create awareness on this topic and what an individual can do to contribute.
- In collaboration with HR mobility reporting legislation will be complied with and projects on for example differentiation of commuting allowance between cyclists and motorists will be discussed.
- In collaboration with LTSH and real estate and maintenance an inventory will be carried out on campus to assess if current parking spaces are sufficient (also for new building projects).
- Mobility survey processing and presenting the results. Drawing up a plan for follow-up mobility panel surveys.

#### 2.1.3 Food & Drinks: plans for 2023



#### Reasoning for these choices

#### Impact

UT together with its partner in catering Appèl signed a collaboration agreement with Green Dish to calculate the impact of certain dishes and develop a menu with a lower impact ultimately resulting in a menu that falls within the planetary boundaries.

#### Communication statement

Catering within planetary boundaries at UT Vegetarian work lunches are the norm at UT

#### Communication campaign

The impact of food will be visualized and monitoring information will be shared periodically.

#### Effort

This change requires quite a lot of effort from our contractor and its staff. Regular communication and monitoring processes will need to be developed to reduce the staff capacity needed for this.

#### Awareness & visibility

This is a very visible measure with guaranteed impact when meat consumption is reduced. Everyone eats and has an opinion even if they do not use the canteens. It is a topic that engages a lot of people.

#### Risks & how to deal with these

The food on offer needs to be varied and of good quality. Feedback is regularly collected and discussed within the Green Dish project and in contract meetings.

#### Financial aspects

UT arranged the involvement of Green Dish as it helps to work towards UT's goals. At a European tendered contract non substantial changes can be made during the course of the contract, therefore UT decided to shoulder these costs to work towards the set goals.

#### Next steps

Lunches and dinners are also held at other locations where the norm vegetarian is default when a UT work order number pays for it. Conversations should be held across UT to see how the food norm can be applied to other locations as well.

#### Other actions:

• A Foods and drinks plan will be finalized in 2023 and published on the sustainability website.

• The pilot with oat milk in coffee machines instead of dairy milk will be expanded

#### 2.1.4 Waste: plans for 2023



Circularity is a broad concept. Many steps are being taken at UT, especially in the real estate area and terrain management. Without a definition and more concrete goals the UT community it is difficult to communicate what is being done and how well UT is doing.

#### Reasoning for these choices

#### Impact

A plan is needed in order to monitor and report on UT's impact.

#### Communication statement

Working towards a circular campus: step by step

#### Communication campaign

This topic is complex and broad. A campaign to bring more attention to this topic, perhaps in collaboration with Studium Generale, Green Hub, DesignLab can contribute to more knowledge and awareness on this topic.

Effort

Initially it will be a lot of effort collating the available information and to get everyone on board. UT wide consultations through the sustainability panel will be held to collect input from the UT community.

#### Awareness & visibility

A clear definition and plan enable UT to make circularity tangible and visible. Circularity aspects can be included in the sustainability walks across campus.

#### Risks & how to deal with these

#### Financial aspects

Once a plan is developed and each building project has a circularity target, this may have an impact on the budget as all choices in building or renovation projects have an impact on the budget.

#### Next steps

The SEE programme will facilitate the shaping of a vision on circularity in operational management, followed by an implementation plan and a monitoring plan.

#### Other actions:

All waste projects have a focus on increasing awareness and visibility.

- Monitor no free disposables are used
- Improve waste separation inside the buildings
  - Waste islands
  - 75% of coffee cups need to be collected separately by 2024
  - Laboratories identify potential new waste streams
- Expand waste collection options
- Improve waste separation outside
  - Bins for three waste streams
- Minimize waste
  - o Remove cups from coffee machines where possible
  - o rPET cups or hard cups with return system for all large events (obligatory in 2024)

- Promotion of Billie Cup
- At events (intern)
- o Assess options for test with waste separation after collection (post-separation) at Bata
- Develop plan for minimising e-waste and improving collection processes (incl. interventions) as well as monitoring and reporting on the e-waste stream
- Green Hub: Animation video on how UT's waste is processed

#### 2.1.5 Events: plans for 2023



Student organized event Bata will be the test-case for a plastic-free event using ecocoin for cups and ensuring plastic recycling by post collection waste separation.

#### Reasoning for these choices

Impact

Events are very visible. Sustainable choices made at events reach a lot of people.

<u>Communication statement</u> A plastic waste-free music event Or: All corporate events are sustainable

#### Communication campaign

Clear communication is needed to explain the return system with plastic cups at events to obtain clean mono waste streams.

#### Effort

The effort lies mainly in making clear agreements with event organizers so they ensure the crew follow the agreed procedure and communicate about the positive value of it.

#### Awareness & visibility

Sustainable choices such as vegan food and a return system for cups are highly visible and contribute to increasing awareness among visitors (less waste on the floor), a positive image of an event and reflects positively on the location (UT campus) as well.

#### Risks & how to deal with these

A risk is that the implementation of return system is done incorrectly or visitors are given cups without returning one. This was piloted in 2022 and was considered low risk. Staff needs to be allocated to collecting cups. Attention needs to be paid by organizers to ensure sufficient staff.

#### Financial aspects

The financial implications are minimal, mainly extra personnel costs and rental cost hard cups.

#### Next steps

Events organized by student committees are encourages and supported in implementing a return system. Next step is to realise that for externally organized events.

#### Other actions:

- A trainee will assess waste minimization options at events
- Green Hub continues promoting their events checklist
- A handout is produced to help secretariats to know what they can pay attention to when organizing UT events

#### 2.1.6 Buildings: plans for 2023

#### PLAN 2023-2024

Standard reporting on sustainability and circularity vision and performance for building projects/renovations

#### **2023 ACTION**

Built-in energy monitoring in all new buildings

#### 2050 GOAL

Energy neutral buildings are the norm

#### Reasoning for these choices

#### Impact

The largest impact UT has in in its buildings. These are built or renovated and will be in use for decades. Buildings renovated or built now need to meet the requirements of 2050.

By reporting more detailed on what UT does, it will help UT to identify where ambition and other factors such as material availability, deadline and budget do not match. This transparency is essential to maintain the support of the UT community and to monitor the progress towards the set goals.

#### Communication statement

Circularity: Working towards a circular campus: step by step. Energy: Together towards a CO2 neutral university.

#### Communication campaign

Through LTSH and campus development communications as well as via the sustainability page information will be shared. Relevant measures will be included in the sustainability walk route.

#### Effort

A lot of people are involved and information is not collected centrally. Processes will need to be decided upon to make this a smooth process.

#### Awareness & visibility

Buildings and renovations are very visible but people often do not know where to find the information. Through posters, permanent information boards this topic can contribute to increased awareness of sustainability at UT and increase the visibility of the topic.

#### Risks & how to deal with these

The main risks is to proclaim to renovate sustainably while in the end budget may not allow the investment in sustainable or circular materials as it is not 'necessary' for the functional use of a building. When this is the case it should be reported on transparently.

#### Financial aspects

Currently circular materials or sustainably sources materials are more expensive than conventional materials. Suppliers may not source the desired materials. This may make it more difficult to make the business case sound.

#### Next steps

The SEE Programme will collaborate with LTSH and Real Estate and Maintenance department to initiate the reporting and monitoring.

#### Other actions

- Energy roadmap (more detail on UT website) is updated annually to monitor progress
- The Paris-proof target of energy consumption of 70 kWh/m2/year is monitored (See Energy chapter)
- PDEng candidate is developing a BIM (Building Information Modeling)-based circularity assessment method. The
  objective is to "Provide an insight into circularity potential of buildings throughout their lifecycles, by exploiting BIM
  open standards and developing a BIM-based circularity assessment tool, to fulfil information needs of chain
  partners in the construction sector."

#### 2.1.7 Procurement & Purchasing: plans for 2023

| GOAL 2023<br>Increase knowledge about<br>sustainability in operational<br>purchasing, tactical procurement<br>and contract management |
|---|
|---|

The department procurement and purchasing states in their annual plan: Our department is there to help you purchase sustainably.

#### Reasoning for these choices

#### Impact

Procurement and purchasing deal with a large volume of budget and can realise an enormous impact by including sustainability criteria in their contracts, tenders and agreements.

#### Communication statement

#### UT purchases sustainably

Working towards a circular campus step by step

#### Communication campaign

Demonstrating we see sustainability as a precondition for everything we do is possible through procurement. Monitoring the performance of UT's suppliers through the CO2 footprint is done annually

#### Effort

To enable the department procurement and purchasing to help clients purchase sustainably, it requires training and time allocation to get familiar with the aspects of sustainability in procurement and in checking compliance in contract management meetings. Monitoring requires a lot of effort as data has to be collected from each individual supplier.

#### Awareness & visibility

Through reporting information will be shared. Procurement can be a topic for a Sustainability Panel to involve the UT community and increase awareness.

#### Risks & how to deal with these

Expectations may be high within the UT community and not all suppliers may be able to deliver to a high sustainability standard.

#### Financial aspects

Training will be arranged using budget from SEE or from the Procurement department.

#### Next steps

Monitoring of compliance of agreed sustainability criteria of contracts. Follow up opportunities with suppliers for improvements in their sustainability performance.

#### All Actions:

• The SEE Programme is asked to provide advice in tenders where sustainability is most important.

#### 2.1.8 Water: plans for 2023



The SEE programme will facilitate the shaping of a vision on water usage and pollution, followed by an implementation plan and a monitoring plan.

A pilot on water saving in toilet sinks will be carried out in 2023.

#### 2.1.9 Biodiversity: plans for 2023

#### All Actions:

- 22 May World Biodiversity Day activities to highlight what the status is of biodiversity at UT campus
- An inventory is being conducted and a plan developed to assess the status and the potential of the UT campus to strengthen its biodiversity in collaboration with contractor Krinkels' ecologist.

#### Next steps

The development of a vision on climate adaptation, climate robustness for the UT campus.

#### 2.1.10 Finance: plans for 2023

The financial aspects of the SEE Programme are added twice a year to the MARAP management reporting cycle and spring memorandum.

The FIN department is involved in sustainability projects by advising for example on what options there are for CO2 compensation mechanisms.

The FIN department will in collaboration with UNL discuss the <u>letter</u> sent by Scientists4Future and Young Academies to encourage universities to withdraw all investments of university funds from the fossil fuel industry.

#### 2.1.11 Environment: plans for 2023

#### Environmental permit

The yearly environmental inspection on the conditions of the Environmental permit by the Omgevingsdienst Twente (ODT) was held in January/February 2022.

Other conditions associated with the Environmental permit

- Continue reporting on minimisation Substances of High Concern (ZZS)
- · Identify opportunities for research projects (i.e. waste water)
- Campus wide approach on compliance conditions permit
- Organise a gathering for neighbours to keep them updated of developments on campus

Reporting on waste water and quarterly water monitoring to the Water Board as well as calibrations on measuring equipment

• Annually submitting the declaration of water treatment and pollution levy as well as requesting dispensation for daily monitoring to continue monitoring quarterly.

#### Permit for law on Nature Protection

UT was informed the annual reporting on nitrogen deposition, as a result of gas installations for heat and air humidification as well as transport movements on campus was no longer required by the Province. UT does have a permit which was required due to proximity to a Nature-2000 area, Lonnekermeer.

#### Sustainable labs

Overlapping several themes is the Sustainable labs project, where environmental issues, waste and energy issues converge. In 2022 the SEE Programme presented a concise Sustainable Labs project proposal based on LEAF (<u>Laboratory Efficiency</u> <u>Assessment Framework</u>). In 2023, SEE will collaborate with HSE advisors of the faculties to see which elements of this proposal can be implemented.

Pilots that were conducted in 2022 will be finalized and the results will be shared: An inventory was done based on several themes (energy, plug load, fume hoods, cold storage, recycling and waste reduction), feedback is given with points for improvement, depending on how many a lab improves a certificate is given.

#### 2.1.12 Communication: plans for 2023

All means of communication support one of more of the following goals:

- Inform the target groups about the actions the UT takes to become a sustainable organization
- Create awareness & change the mindset about the importance of sustainability in our daily operations

• Connect, activate & involve target groups: participate and collaborate in making the UT a sustainable organization A secondary aim is to make our efforts more visible externally in line with the role UT wants to take up on being an example for the region. Having UT's management put the topic on the agenda, to speak about it in presentations, will help make visible and audible that becoming a sustainable organisation is in the DNA of UT's leadership and is being woven into the entire organisation.

Communication campaigns always supports an intervention by the organisation, connected to a theme. Communication plans will be written and executed to inform the community, bring them on board with measures and prevent/lower resistance, activate community members to take action themselves, as well as contribute to the image of the UT as a sustainable organization. The implementation of interventions is always accompanied by a communications plan/campaign to illustrate, explain and build support for the intervention. This communication campaign includes material for relevant means of communication: e.g. social media, website, press releases/news items, slides for screens on campus and other ideas that are suitable for the specific topic.

In 2023, communication will be in many ways a continuation of the groundwork laid by the SEE programme in previous years. Communications support will be developed at least for interventions taken in the areas of mobility, energy, buildings, waste and food. Activities connected into these strategies are for example a campus walk on energy or biodiversity as an extension to the existing Sustainability Walk.

A number of special days are selected (such as the cycle to workday, Earth Hour, warm sweater day etc.), for which in collaboration with the Green Hub communications officers communication material will be developed. The main goal is to raise awareness on the importance of sustainability, get community members to connect to the sustainability community of the UT (through the Green Hub) and activate them to take action themselves wherever possible.

The communication advisor maintains regular contact with the Green Hub communications officers to align communications related to operational sustainability issues and provides guidance on corporate communications for the Sustainability Week which is organized in collaboration with Saxion and ROC.

The communication advisor is a member of MC and works to build the knowledge within the MC colleagues on sustainability issues to ensure integration in the regular communication where possible. Because other members of MC are becoming more active in this area, ensuring this becomes more important than ever in 2023. Since other parts of the organization (outside of CFM/SEE) are also starting to take action on sustainability, especially energy use, the communication advisor ensures that these efforts align and strengthen each other. The communication advisor also ensures to maintain good connections with other relevant groups in the UT community, such as the SEG Sustainability and the Green Hub.

Other activities include:

- Continuously updating the Sustainability website to keep the information relevant and up to date
- Writing ad-hoc news articles surrounding important or visible sustainability-related activities/changes on campus
- Support 'signature projects' -such as the launch of the Travel Check- when they are implemented
- Updating the Sustainability Walk and relevant signs on campus
- Publishing a series of interviews with UT community members about the role sustainability plays in their work
- Promoting events about sustainability on campus (together with the Green Hub and other stakeholders, for example Studium Generale)

#### Projects in 2023 include:

- A travelling exhibition on sustainability measures
- An updated sustainability walk route
- Communication materials on energy saving
- A corporate UT presentation of slides on sustainability in operations to be used internally and externally by managers

#### Risks & how to deal with these

Communication is a very important tool for realizing behaviour change as well as in keeping the UT community informed. As there is only one communication advisor on sustainability who supports the SEE programme and guides the Green Hub officers on communication issues, this person received requests to contribute to education and research issues as well. If UT is serious about increasing the profile of UT on sustainability more capacity is needed in this area.

#### 2.1.13 Data and reporting: plans for 2023

#### Carbon Platform

Together with <u>Realised</u> SEE a carbon platform has been developed for the reporting on the CO2 footprint. CO2 emissions of external partners that come in after the deadline can still be added to make the assessment more accurate as the report can be produced dynamically.

#### Energy data platform

More buildings are added to <u>https://energydata.utwente.nl/</u> where electricity, gas, district heating and water consumption can be seen and downloaded.

<u>Monitoring and reporting</u>: The SEE Programme strives to year on year improve its transparent reporting. A lot of data is hard to collect or provides in unusable formats. In 2023 SEE will work with its partners to continuously improve the input data to ensure the reporting can continue to improve as well.

#### 2.1.14 SEE Programme: plans for 2023

The SEE structure has been modified. A new position of Sustainability Coordinator was created taking on the strategic tasks to get sustainability embedded into the organisation for SEE as well as for the Green Hub.

The steering group was reduced in size and to facilitate more discussion a Sounding Board was initiated. Also, a Sustainability Panel will be set up to facilitate the input from any member of the UT community. When all these details have been crystallized out, these will be shared on the <u>SEE Programme website</u>.

## 2.2 BUDGET 2023

The budget for the SEE Programme is divided into three parts: salaries, communication and promotion and Training And development of which €222k comes from central support (centrale ondersteuning) and €199k from strategic reserves. This budget was approved to SEE in May 2020 when the <u>Sustainability Policy</u> was adopted.

| Category                  | Budget  |  |
|---------------------------|---------|--|
| Staff                     | 222,000 |  |
| Communication & Promotion | 44,000  |  |
| Training & Development    | 155,000 |  |
| Total                     | 421,000 |  |

## 3. APPENDICES

### 3.1 APPENDIX I POSTER ENERGY SAVING



## 3.2 ENERGY 2023 & LONG TERM OUTLOOK



## 3.3 TRAVEL & MOBILITY 2023 & LONG TERM OUTLOOK



## 3.4 FOOD & DRINKS 2023 & LONG TERM OUTLOOK



## 3.5 WASTE 2023 & LONG TERM OUTLOOK



## 3.6 EVENTS 2023 & LONG TERM OUTLOOK



## 3.7 BUILDINGS 2023 & LONG TERM OUTLOOK



## 3.8 PROCUREMENT & PURCHASING 2023 & LONG TERM OUTLOOK



## 3.9 WATER 2023 & LONG TERM OUTLOOK



## 3.10 BIODIVERSITY 2023 & LONG TERM OUTLOOK



## 3.11 FINANCE 2023 & LONG TERM OUTLOOK



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