



DOE & DURF

The competition for
young engineers

RULES OF THE GAME

2022 Edition

Energy Transition

Which link in the Energy Transition can you improve?

The Competition

Engineers worldwide come up with the most innovative solutions which are of crucial importance to our society. Solutions for the major issues facing us; conceived by innovators who dare to think without limits and actually take the step towards realisation. Doe&Durf is a competition in which you get the chance to think without limits. We offer you a platform to share your ideas with the engineering industry. ... if you dare to.

Doe&Durf (Do&Dare) is an initiative of JongNIngenieurs, the youth association within Koninklijke NIngenieurs. Innovation and visibility are what it is all about at Doe&Durf. With this challenge, we want to show that the young engineer is capable of developing creative and innovative solutions that contribute to today's societal challenges. As a Doe&Durf entrepreneur and innovator, we challenge the young engineer to:

- Develop brilliant, innovative solutions which can be utilised to help the market and society.
- Show that these innovative solutions contribute (positively) to society, while also creating support among non-engineers.

We challenge you to produce a brilliant idea as a team, in which the theme **'Energy Transition'** with the central question **'Which link in the Energy Transition can you improve?'** is your starting point.

In this document you will find the rules of the competition and of course an explanation of the theme. We want to wish you good luck and above all a lot of fun doing and daring it!

See you at the workshop!

Organisers of Doe&Durf JongNIngenieurs

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The Rules

Theme 2022 – ‘Energy Transition; Which link in the Energy Transition can you improve?’

The Dutch ambition to satisfy the UN Paris climate agreement and the consequent assignments is big. The Energy Transition plays a key-role in this. To combat our negative impact on the planet, we are obliged to think about alternative methods for generation and usage of energy. The transition to these new methods has an impact on different chains, which we come across in both our work and daily environment. Existing chains may have to change, and new chains may need to be created. Examples are not only chains directly linked to the Energy Transition, such as the Energy Supply and Distribution chains, but also chains that are indirectly impacted, such as Food, Real Estate, and the Mobility and (Public) Transport chains.

The Doe&Durf competition challenges you to come up with ideas to improve existing chains or better implement new chains, to contribute to the Energy Transition. How could you do this for a whole chain? By choosing its weakest link(s). You will do this based on the analysis of a chain of your choosing. With the chain and the weakest link(s) in mind, you can outline problem, which you are going to solve, and its scope. With your solution, you will improve the link(s) and, through this, also the whole chain. You may have a revolutionary idea that does not really fit the outlined angle on chains; this is fine. After all, all ideas are welcome that carry on solutions for the challenges we face in the Energy Transition.

We recognise that our rapidly digitising world brings many possibilities to take on challenges by using software-skills, but also the policy and the hard technical solutions for these challenges remain necessary. When considering the approach, before you think on what you will solve, please also give a thought on how you will satisfy the problem you have outlined. Below, we have given four areas of attention as to describe how your idea will solve the problem (you are free to think of other areas, of course):

- Market development
- Measurement
- Policies, laws, and regulations
- Knowledge & awareness

Market development is about product and process innovations, which involves the questions which products are still usable after the Energy Transition, how to make them reusable, or which new ones may accelerate the Energy Transition.

Measurement is about the (further) development of measuring instruments in order to be able to reliably evaluate and compare methods of energy generation and usage, and their impact on the environment.

Policies, laws, and regulations is about developing clear policies and regulations linked to the Energy Transition. For example, which new types of contracting are needed for a different distribution of energy? Which policies either frustrate the Energy Transition, or accelerate it?

Knowledge & awareness is about increasing, sharing, and bundling knowledge. Awareness is an essential part of current and future generations to make more sustainable choices, regarding energy usage reductions for example.

Participation

By participating in this competition, you as a team get the opportunity to show what we as young, ambitious, and talented engineers (and therefore as the industry) can mean for society. With this you put yourself, your company, and the engineering industry on the map.

As a participant you get the chance to practically apply thinking 'out of the box' and let your creativity run free. The limited number of rules ensure that as a team you can fully use your talents and for once do things completely different. You are your own boss as a team, in which freedom is central.

You will work with your own team on your concept and idea. During the workshops we want to inspire and motivate you to take your idea further. All teams are present at these workshops, giving you the opportunity to also meet other young engineers.

English and Dutch will be used in written correspondence, but presentations will be done in Dutch. It is therefore advised to include a person in the team who can understand Dutch.

Individual young engineers who work at a member-office, but who are unable to form a full team, can apply individually. They will form a Doe&Durf team with other individual engineers.

From idea to concept

When you register, you provide a brief description of the idea. This description is only intended for the organisation and gives us an initial picture of the variety of ideas. In addition, we want to challenge you in this way to already get started with the theme. You will further develop this idea with your own team during the competition. We organise workshops that inspire you, enrich your knowledge and/or contribute to your process and/or design of your idea.

After the workshops you submit your concept, and the jury nominates three to five teams for the finals. If you are one of the nominees, you will receive a message from us both by telephone and in written form. There will be no further discussion about the results. Lastly, during the finals, the jury decides who will be the winner of the Doe&Durf competition and who will receive the prize of €1,000.

The jury will judge the finalists on the following points:

- The concept is scored on:
 - the degree of innovativeness and originality;
 - the extent and depth of elaboration;
 - demonstrated feasibility;
 - possible spin-off;
 - sales potential.
- The concept must be able to be picked up by the (social) media and arouse the interest of politicians and clients. Which team is best at marketing their concept?
- The extent to which the concept provides new insights into the industry.

The enrolment

The following criteria have been drawn up for both the registration and the teams.

The criteria for registration:

- Teams are free to choose their own interpretation of or approach to the theme.
- The registration must be original and innovative.
- The registration must create (potential) media attention.
- Enrol via this [link](#).
- The enrolment closes at **11.59 PM on Friday, August 26, 2022**.
- When registering a team, the (financial) conditions are accepted.
- When participating, one is obliged to pay the registration fee of €300 per team within two weeks after receiving the invoice.
- Finally, commitment and attendance at the workshops (and finals) is a must!

The criteria for the teams:

- **A team consists of a minimum of 3 and a maximum of 5 participants under the age of 36**
We encourage that each team consists of a diverse mix of specialists who can make their own unique contribution to the idea. We also expect enthusiasm and commitment from all team members; registration is not entirely without obligation.
- **Within the team there is a team captain**
The team captain will act as a contact person for the Doe&Durf organisation.
- **The member-office provides a team manager for the team**
To increase the involvement of the member-office, each team appoints a team manager (someone from outside the team). For example, a team manager can be someone who is directly involved within the Board of Directors. The team manager serves as a source of information for the team. The age limit of 36 does not apply to the team manager.
- **At least one member-office of the Koninklijke NIngenieurs should be directly linked to the team**
This implies that at least two team members work for a company that is a member of the Koninklijke NIngenieurs in order to maintain the link with a member-office. Other team members may be relevant specialists who do not work directly at a member-office, but who are enthusiastic to participate, or are partners of the member-office, or possess unique skills, etc.
- **The member-office of Koninklijke NIngenieurs is liable**
When participating, one of the member-offices guarantees the registration fee to be paid and the commitment of the involved team members.
- **A member-office may submit up to three teams**
- **Registration fee for participating teams is €300,-**
Participating teams can partake in the workshops after registration and submission of the idea. For this, we ask a registration fee of €300 to cover organisational costs. By participating, you agree to the terms and conditions as described in this document. The contact person will receive an invoice for the registration fee from Koninklijke NIngenieurs. For the engineers who enrol individually, the registration costs will be shared among the members of the composite team.
- **Contribution for teams participating in the finals is €300,-**
There are 5 teams that will be selected for the finals after preliminary rounds. To fund this final event, the teams that reach the finals will contribute €300 extra.

All amounts stated are exclusive of BTW.

The planning

