
SUSTAINABILITY ROADMAP PROGRAMME FOR PHARMA INDUSTRIES

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In addition to Covid-19, the year 2020 was characterised by the intensification of the collision between man and nature. There has been a worsening of the climate crisis and a further loss of biodiversity.

As stated on the UN website, „The 2030 Agenda for Sustainable Development is a programme of action for people, planet and prosperity signed in September 2015 by the governments of the 193 UN member states. It encompasses 17 Sustainable Development Goals (SDGs) in a grand programme of action with a total of 169 targets”[1].

No one is excluded, nor should anyone be left behind on the path to putting the world on a sustainable path. In this perspective, ZETA, together with its partners ENERTEC and DENKSTATT, has combined its competences in the development of a sustainable strategical programme for pharmaceutical companies.

The Pharma branches requires in fact a deeper understanding of the process plants and their interaction with the infrastructure, as well as of the influence of the numerous standards, laws and guidelines with which the pharmaceutical industry is confronted. The close cooperation of experts from different fields - such as process and clean room technology, thermal energy technology, water consumption analysis, sustainability and climate strategies - not only enables the development of an overarching concept for minimising greenhouse gas emissions, but also the sustainable implementation of decarbonisation strategies.

Process plants and building technology offer sufficient potential for reducing CO₂ emissions - it is therefore necessary to develop and implement ambitious, but technically and economically realistic measures.

Examples from the temperature control of bioreactors and heat recovery represent possibilities for technical approaches. The strategic approach is based on the internationally recognised standard of Science Based Targets and follows concretely defined steps. Starting with detailed technological assessments, a roadmap is defined and brought to practical application at the production site.

REFERENCES:

[1] UN website, Sustainable Development Goals, www.un.org

