

Decarbonisation study

We provide you with professional decarbonisation studies that identify recommendations for action in further planning and implementation phases. In doing so, our focus is on your goals and requirements, such as achieving your company's internal CO₂ emission reduction targets, ensuring future economic viability, or on site-specific requirements.



From our experience, an decarbonisation study for your site is particularly useful in the following cases:

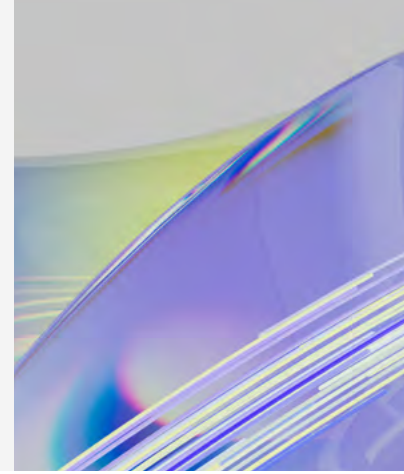
- your goal is to reduce CO₂ emissions
- you need a transformation strategy up to climate neutrality / Net-Zero
- your energy demand is increasing / decreasing
- terms and conditions of energy supply and demand are worsening.
- you want to use new technologies (e.g. heat pumps, e-boilers, solar thermal, etc.)
- you want to use new fuels (e.g. hydrogen, ammonia, biomethane, biomass, etc.)
- availability is insufficient
- you are facing issues regarding ageing of the plant park or problems with ease of maintenance and servicing

- possibilities for obtaining subsidies or reduction of levies, charges and taxes
- changed legal / official (environmental) requirements
- possibility of using synergy effects in an energy cooperation with others

The main elements of an decarbonisation study proposed for this purpose are the following:

- Joint definition of the objectives
- Analysis of the current energy situation and outline of the forecast
- Development of future-oriented energy concept variants / transformation strategies
- Technical and economic evaluation of the variants
- Development of a recommended plan of action

An decarbonisation study leads to decisions for the long term and should therefore be carried out professionally, in a well-structured manner and on the basis of state-of-the-art technology/ market parameters.



The typical phases and deliverables of an decarbonisation study, which have proven to be effective over many years of experience at Iqony Solutions, are the following:

Phase 1: Data evaluation and development of concept variants

- Creating a checklist for targeted information gathering
- Conducting a kick-off meeting including a site visit
- Evaluating necessary basic data and compiling coordinated forecast data
- Developing suitable concept variants / transformation strategies taking into account your goals and requirements
- Conducting an interim meeting on study findings so far, including agreement on the concept variants to be compared



Phase 2: Comparison of concept variants

- Determining load balances and annual energy consumed/generated
- Determining CO₂ emissions/emission reductions
- Preparing schematic diagrams and layout drawings
- Estimating investment costs
- Assessing European, national and regional funding options (e.g. BEW, KWKG, etc.)
- Determining energy production costs
- Mapping out key milestones for the realization of the project

Phase 3: Recommendation for action and documentation of results

- After completion of the decarbonisation study, we will be happy to support you with our know-how as an engineering service provider through all further project implementation phases from preliminary and final design to commissioning.

Benefit from our extensive experience and the up-to-date market data we have for all relevant generation technologies relating to CO₂ reduction or net zero carbon.

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Contact person

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