# PRE-PROJECT PHASE OF YOUR GREEN ENERGY CONVERSION.

We accompany you on the way of integration of a plant for residual material utilization and energy conversion.


## HOLISTIC ENERGY SERVICES.

The integration of the plant for residue utilization and energy conversion is to be analyzed for technical, economic, legal and environmental suitability, depending on the modules selected. The detailed pre-project phase or project preliminary analysis is to serve as a well-founded decision-making basis for the possible purchase of a plant. Our customer receives a result documentation in the form of a final report. Additionally we present we present the results of the pre-project phase in a presentation.

**Key components of our pre-project phase include:**

> SCOPE OF SERVICES ENERGY ANALYSIS
> TEST TECHNICAL PLANT INTEGRATION
> LEGAL ASSET INTEGRATION REVIEW
> TESTING ECONOMIC PLANT INTEGRATION

#LETSGETGREEN

We are looking forward to your contact:

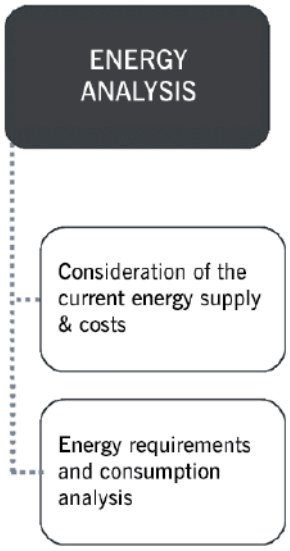
+49 355 8695 9890
service@bergundkiessling.com
www.bergundkiessling.com
twitter.com/berg_kiessling

B+K

## SCOPE OF SERVICES
## ENERGY ANALYSIS.

In the first step, we look at your initial energy situation. We look at how your company's existing energy supply (heat and electricity) is structured and which energy generation systems are already in place.

Older plants are often less efficient, but can sometimes continue to be used as redundant energy generators in the company's own energy mix. Our holistic approach takes existing systems into account and incorporates them into the overall concept.




Based on your existing load curves, we prepare an energy demand and consumption analysis and forecast. Your details on potential plant or production expansions expand the forecast. As a further basis, we evaluate your previous energy and connection costs.

## PERFORMANCE-OVERVIEW.

**1.** Comprehensive ACTUAL analysis of the energy situation of your company

**2.** Review of the technical, licensing & economic plant integration

**3.** Tailor-made system concept suitable for your boundary conditions implementation

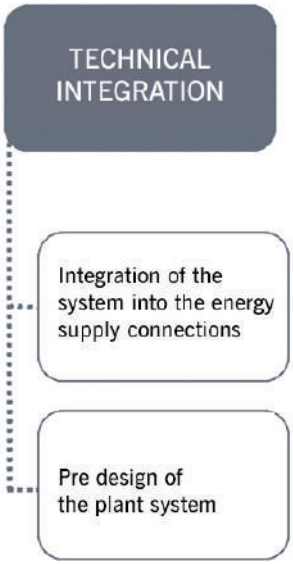
**4.** Presentation of the results and coordination for further concept implementation

More information:
www.bergundkiessling.com

## TESTING TECHNICAL PLANT INTEGRATION.

In the technical plant integration, we check the suitability of your desired plant location, taking into account your site and development plans, as well as the interfaces to the energy grids are included in the technical plant integration. In addition to your customer-specific interfaces, the distances to the feed-in points are also relevant in order to work out the final cost planning. We determine preliminary installation variants, which are later finalized within the scope of the building permit.

Our combined heat and power (CHP) ClinX plant systems can be placed in several variants due to the modular container design. We determine the optimal combination for your location and tailor the plant outlets to suit. In doing so, we take into account not only the plant systems, but also the addition systems such as storage.

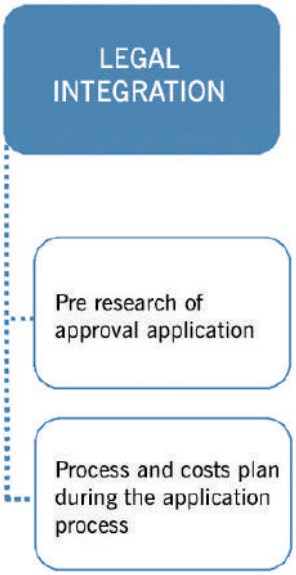



Due to the modular container design, we can place our ClinX plant system in different variants.
At **www.bergundkiessling.com/en/news/** you will find an overview of current reference projects.

## LEGAL ASSET INTEGRATION REVIEW.

Within the scope of legal plant integration, we examine the approval eligibility of the recommended plant systems and present the approval process.
We check, among other things, whether building permits or permits under the Federal Immission Control Act have to be obtained for the systems and how these affect the project sequence.

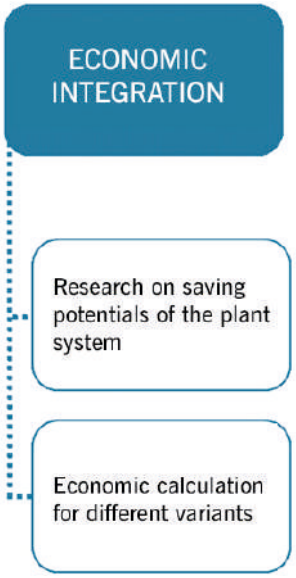
During the energy law integration, the procedure for the implementation of a grid connection is examined and presented with reference to the respective plant size. The locations determined in the technical examination are again prechecked for restrictions or obstacles in the legal analysis (a final examination can only take place in the context of obtaining a permit).




## TESTING ECONOMIC PLANT INTEGRATION.

The economic assessment represents a decisive criterion for the decision to implement a power generation plant. In connection with feed-in tariffs for electricity sales to the grid, the complexity increases. Classical CHP plants are operated under the conditions of the KWKG, while CHPs based on renewable energies are treated according to the EEG (Renewable Energy Sources Act).

The conditions and requirements differ, so that a case-specific consideration makes a lot of sense and is of decisive importance for the economic operation. Different variants, which have resulted from the technical examination, are now compared economically, as well as different variants of energy feed-in and self-consumption, and thus the most economical variant for the operation is determined.



## ENVIRONMENTAL PLANT INTEGRATION *(OPTIONAL)*

One way of reducing the greenhouse gas emissions of one's own company is to make greater use of the coupled provision of electricity and heat through CHP plants. Compared to separate systems, the use of CHP enables savings in energy input and CO2 emissions.

The achievable CO2 reduction depends on the one hand on the technology used and on the other hand on the fuel used. Both are taken into account in our analysis.

## INDIVIDUAL GRANT CHECK *(OPTIONAL)*

Various subsidy programs at federal and state level support energy-related measures. We select suitable programs from our comprehensive database - whereby, in addition to the plant system, company-specific factors also play a role in the selection.

The subsidies are divided into grant and loan programs. Here, it is important to find the optimal combination to support the system implementation with financial means.