

Efficient Milk Production

The dairy industry is an integral part of the global food system and plays a key role in the context of sustainable development, particularly in rural areas worldwide. It is an important factor in foreign trade and has a high employment potential.

Introduction

The ongoing growth in milk production is expected to continue in the future due to demands of an increasing world population and rising incomes in developing countries. According to studies of the OECD and FAO, the consumption of dairy products is expected to increase by 20 % until 2021.



Dairy herd. Source: IAK

An efficient production of high quality milk can only result from the adequate combination of many factors – from optimised forage production with the highly efficient and locally adapted use of fertilizers, good animal health and welfare, modern equipment and efficient farm management.

Locally adapted and sustainable production of fodder crops. Important aspects include, but are not limited to, land use management (e. g. crop rotation), nutrient management, pesticide management, energy production

Our services in international cooperation and commercial consulting

Whether in Germany or elsewhere, for public or private clients from the agricultural sector: IAK Agrar Consulting GmbH provides its expertise in the following areas:

- Strategic business development and structural adjustments for agricultural companies incl. dairy farms
- Preparation of business plans for dairy pilot projects as well as support during the implementation phase
- Investment support, financing and agricultural support programmes
- Classification of milk production in the overall farm concept

IAK Agrar Consulting GmbH is an independent agricultural consulting company working both for public clients (Federal Ministry of Food and Agriculture/BMEL, GIZ, World Bank, EU and many others) and private enterprises in Germany and abroad since 1981.

and consumption, landscape conservation and enhancement of biodiversity.

Animal welfare and sustainable animal production.

The average milk yield per cow is a central characteristic of a dairy herd. It is influenced by a variety of factors such as genetics, environment and feeding. The right balance should be found in order to ensure both animal welfare which is a guarantee of milk quality and high performances.

Development of technologies according to international standards. Both within the EU and beyond, international standards play an important role for quality assurance in a world of liberalised agricultural markets. For small and large milk producers to enter the market, production and product quality have to respect such standards.

Training and know-how transfer. Sound education and continuing training are decisive prerequisites for professional success and personal income support. Agricultural education as a contribution to securing skilled employees is crucial for maintaining competitiveness, successful farms and companies as well as the functionality of rural areas.



Slurry tank. Source: IAK

- Analysis of weak points in the stable and establishment of a monthly performance review
- Elaboration of proposals for organizing a profitable production process and efficient management and controlling
- Transfer of knowledge and experience exchange between dairy farms and scientific institutions
- Training courses for employees and managers of dairy farms on how to improve milk quality, the efficiency of milk production as well as on how to reinforce the staff's organisational and managerial skills
- Internships in major German agricultural companies

IAK offers consulting services for more than 180 farms in Germany, totalling more than 60.000 cows, 270.000 hectares and an average milk yield of 10.000 l per year.

As a major German consultant to the sector with in-depth knowledge and expertise in efficient milk production, IAK takes part in the following working groups, among others:

- State Working Committee "Dairy farming in the Free State of Saxony", member since 2014
- Working Group "Best Dairy Farms" of the German Agricultural Society (DLG), member
- Working Group "Milk production", coordinator: comparison and experience exchange among dairy farms from Saxony, Thuringia and Saxony-Anhalt



Rotary milking system. Source: IAK

Selected projects of IAK abroad

Consulting services, training and cattle breeding in Bulgaria, since 2014, € 300,000 per year

IAK holds a 50 % share of Genomika OOD, a Bulgarian trading and consulting company which is active in the field of cattle breeding, artificial insemination, trade with sperm and breeding animals

- Trade and provision of services in cattle breeding
- Trade and sale of high quality genetics and semen
- Advisory services in breeding, feeding, animal health and welfare, artificial insemination, hygiene management, fertility management, business economics, financing, investment, etc.

Providing consultancy services to modern dairy farms, Russia, private investors, 2003-11, € 200,000 per year

Stabilization of selected Russian agricultural enterprises by means of advisory services in order to increase the farm income of the enterprises

- Farm management services to two leading dairy farms (> 9000 kg milk/cow and year)

Introduction of modern production techniques in the field of animal production

Planning of a model dairy farm complex Agstafa with 2.400 heads and bull fattening, Azerbaijan, private investor, 2009-11, € 90,000

Planning and implementation of a dairy farm complex for 2.400 cows including calf raising, own dairy with a capacity of 50 t per day and cattle fattening

- Supervision and coordination of the planning stage covering the planning of business and investments, of land use for forage production, of dairy and cattle production management and of equipment supply
- Supervision and management assistance during the implementation phase and beyond
- Training for the local technical and managerial staff

Improvement of farm expertise for the sustainable development of milk production in Kazakhstan, 2019-2022, € 2 million (donor: BMEL/GFA)

This project is implemented by IAK in consortium with ADT Project Consulting as leading company. The goal is to increase the competence of selected milk producers and milk processing enterprises in regions like Kostanay, Akmola, North Kazakhstan and Pavlodar. The project shall help to increase self-sufficiency and boost the milk quality in Kazakhstan, reduce imports, expand milk production and establish the milk processing industry.

Cooperation partners



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