



Greenhouse Concept 2017

The total production value of the Danish greenhouse horticulture sector is DKK 3 billion, and it provides employment for 8,000 man-years. The sector is facing strong international competition emphasising the need for massive development focusing on new products and efficient technologies.

The consortium comprises leading companies and greenhouses who – with the increased skills that will follow from “Greenhouse Concept 2017” – will have the competencies to face the challenges of sustainable production.

Danish research institutes have made great progress in the area of climate technology in recent years. This means that the necessary knowhow can be supported by the consortium through targeted research and innovation in the following areas:

Collection, storage and recycling of energy

AgroTech will prepare a catalog of various energy-collecting techniques and various short-term and long-term storage methods.

Greenhouse curtains with improved light permeability

Ludvig Svensson have confirmed by experiments, that increased scattering on the curtain lowers plant temperature. Senmatic has created a new energy-optimized curtain strategy, that is being implemented in their software.

Development of light emitting diodes for use in greenhouses

Development of sensors to ensure optimum process control in greenhouses

Wireless sensors for measuring the micro climate in greenhouse production, will be produced and tested.

Development of systems for control, regulation, and monitoring of production systems and horticultural production

The integration of the Intelligrow3 platform is tested by the greenhouse climate simulator developed by AgroTech.



**Danish Agency for Science
Technology and Innovation**

Ministry of Science, Innovation
and Higher Education

Project period:

2008-2012

Budget:

DKK 12,000,000

Funding:

The Danish Agency for Science, Technology and Innovation under the Ministry of Science

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Senmatic A/S

Philips

Ludvig Svensson AB

Advansor A/S

Danfoss A/S

Viemose

Gartneriet Broløkke (Elvira Rose)

Gartneriet Alfred Pedersen og søn ApS

Varpelev tomater A/S

Gartneriet Rosa Danica A/S

Gartneriet Hjortebjerg

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