



**EFCA**  
**YOUNG PROFESSIONAL OF THE YEAR**  
**2017**

**Personal details**

Full name: Ask Tonsgaard Brüel

Nationality: Danish

Age as of 1/1/2017: 33

Company: Sweco Danmark A/S

Location: Sweco Denmark A/S (Headquarters), Granskoven 82600 Glostrup, Denmark

**Contact details**

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## Section A. EMPLOYER'S RECOMMENDATION

Since the very beginning of his career, Ask has worked intensively within biogas production and recirculation of nutrients, and this stirred his interest in the production of renewable energy. As a result, Ask has contributed actively to finding innovative solutions for the biogas industry and across the energy sector. These solutions have been brought into play on projects for a range of Sweco's customers, including ENVO, HMN and Biovantage.dk.

When I ask Ask what motivates him to work in the biogas industry, he has many explanations. But first of all, he expresses a strong wish to contribute to a cleaner energy production, in which all resources are fully and efficiently utilized. This is reflected in his work for our customers. Ask is a powerful contributor to the implementation of new and innovative projects that aim to develop Denmark's green gas sector.

### PUTTING CUSTOMERS FIRST

Ask has impressed both Sweco's management team and his colleagues with his outstanding skills as a project manager as well as his ability to put customers first and fully understand their needs before developing solutions. This translates into highly positive feedback from our customers. Ask has a unique ability to communicate clearly with both his customers and the many parties that are typically involved in biogas projects, and smoothly guide all participants through complex technical processes. He also makes a great effort to share his approach with his team in order to ensure that all team members are aware of the customer's needs and are prepared to create the best possible solutions.

Internally in Sweco, Ask has taken on the responsibility for gathering our knowledge and knowhow on circular economy and recovery of resources, and he has launched initiatives across departments and disciplines to develop Sweco's business activities further in this area.

### SEEING THE LARGER PICTURE

A project often resembles a jigsaw puzzle with many pieces that all must fit together. Ask's holistic grasp of issues is one of his most notable strengths, which enables him to identify all synergies in a project, instead of just optimizing the individual technical parts, and in this way provide customers with the best overall business case.

This was the case with Biovantage.dk. Ask assisted this consulting company in the establishment of a new pre-treatment plant at the biogas facility of Ribe Biogas. Thanks to this new plant, Ribe Biogas was able to increase its biogas production and thus revenues, whilst improving biomass yields.

### A NATURAL LEADER

Ask's understanding of projects and customers' needs combined with his calm approachable style, ability to listen and natural drive make him a natural leader. He has proven his potential as a project manager, which is underlined by the excellent approval ratings given by our customers.

Due to his ability to understand what drives our customers, at the age of only 33 Ask has been entrusted with developing Sweco's biogas business as our new Associate Market Director. Thanks to his efforts in this area, Sweco today has a completely different approach to the biogas market and more focused communication with customers. In his daily capacity

as Associate Market Director he is in charge of the business plan and strategy for the biogas area and manages Sweco's multi-disciplinary biogas team. Ask's role also includes identifying the right resources for each project. He has been actively involved in recruiting new employees that match the market's expectations and can help fulfil Sweco's strategy. I am truly impressed by Ask's performance in this area as well as his ability to put together the right team and create the innovative environment they need to perform their best.

Ask's talent for leading and assuming responsibility has not come out of the blue. With a background as a floorball player on Denmark's national team and later on as an elite coach, he draws on many years of experience on how to continuously deliver optimal performance both as an individual and as a team.

### ONGOING DEVELOPMENT

Ask's track record, with excellent grades from both the Technical University of Denmark as well as his recent business studies, shows a consulting engineer whose work is driven by the wish to develop and be at the forefront of developments – and I am delighted by Ask's achievements in the biogas area. Already now, we have gained invaluable knowledge about the sector – a knowledge that will be instrumental as we navigate in the biogas market, a market characterized by the ongoing changes and transformations in the sector.

We have already seen results of Ask's efforts even though the process is still in its early stages. By establishing a new strong biogas department in the town of Odense, Ask has ensured that we are closer to our customers, which has already paid off with a new project. Ask's strategic work has resulted in access to new customer segments as Sweco now has become a player in the biogas due diligence market. I am looking forward to following the development process that Ask has started. A process that will no doubt contribute to develop the biogas sector further and bring into play new innovative solutions. His technical accomplishments as a project manager speak for themselves, and I believe we have just scratched the surface of his management potential. I give him my outmost recommendation and I truly believe he deserves to become the young professional of the year.

Name: Rune Reid Thranegaard

Job title: Department Head (A), Energy

Managerial relationship to candidate: Line manager

## INCREASING BIOGAS YIELDS THROUGH NEW USE OF EXISTING TECHNOLOGY



### B.1 Project description:

Establishing a new pre-treatment plant with a total weight of nearly 50 tons in an existing building at a biogas facility can be a challenge, especially when the load-carrying structure was not prepared for a plant of this calibre. This is only one of the many challenges that Ask Tonsgaard Brüel helped solve – adding great value for the customer, Biovantage.dk.

The project, which was initiated in 2015, aims to establish a pre-treatment plant at Ribe Biogas to increase the gas production without adding other or increased quantities of biomass. Today, the plant processes controversial and expensive biomasses such as maize and silage, which break down quickly. However, apart from being expensive to use, they are also scarce resources

### B.2 Innovative characteristics of the project:

For these reasons, a new technique was introduced, AWEx, which had not yet been tested at biogas plants. The technique was originally developed and tested at pilot scale in relation to research on bioethanol production. The team had to think out of the box to develop the right technical solutions for the project to succeed and ultimately increase the biogas production of Ribe Biogas.

One of the unforeseen challenges was to integrate the new pre-treatment plant into the existing buildings at Ribe Biogas. With a total weight of almost 50 tons, the new plant was too heavy for the existing load-carrying structure. Ask addressed this challenge by introducing a new load-carrying structure in the existing building – a solution that required creative thinking.

### B.3 The YP's role in, and specific contribution to, the project:



Ask has assumed many roles on the project, including that of project manager for the entire project and the structural part, coordinator and biogas specialist. He has been responsible for both managing and coordinating the project and has served as project manager for the structural part of the project throughout the implementation phase. Therefore, Ask especially contributed to the project in three areas.

Firstly, Ask contributed to the project with his technical competences as he was in charge of designing the structural construction, which was necessary to be able to build the new and much heavier facility on a platform that was not built to carry a facility that size. His solution resulted in an interconnection between three different loadbearing elements. The design therefore included designing three different loadbearing parts of the facility that could support the entire facility.

Secondly, Ask also contributed as a consultant and biogas expert in the project. In this role he helped the customer through sparring find right solutions for the project and solve different technical biogas problems.

Thirdly, his contribution as project manager has been pivotal for delivering a successful project and using existing technology in a new context. Actually, the project has contributed to solving a general problem in the biogas industry – the lack of biomass that breaks down quickly.

Based on his thorough understanding of the customer's needs, Ask put together the right team that could deliver the project. He managed the team through all the phases and succeeded in creating an environment that encouraged innovative thinking. Finally, he made sure that the project was accomplished on time and budget.

#### B.4 Communication with the client/end user:

In a project with four parties, it can be a challenge to coordinate the involvement of all stakeholders and ensure that all solutions are brought into play and create synergies across the project. Ask accomplished all of this in close collaboration with and to the full satisfaction of the customer.

Ask also handled the challenges related to the technical solutions and communication among the parties in a very professional manner. All in all, he managed to create an environment that stimulated innovation. In the end, this ensured both that the customer's needs were met and that the desired results were achieved.



#### B.5 Describe the project end results and the benefits to the client/end user:

By using the AWEx technology, it is possible to increase the biogas production at existing biogas plants by 30-50 %. What makes this new technology interesting is that it makes it possible to create value from biomass sources that used to be a cost burden to society.

Ribe Biogas has seen that the technology works above expectations and the company has high expectations as to future results. The new pre-treatment facility has increased the revenues of Ribe Biogas thanks to the improved use of biomass.

Now the goal is to roll out the technology at other biogas plants in Denmark.

## Section C. CLIENT'S APPRECIATION OF THE CANDIDATE

**CUSTOMER: BIOVANTAGE.DK**

**PROJECT: ESTABLISHMENT OF A DEMONSTRATION PLANT AT RIBE BIOGAS – THE AD BOOSTER PROJECT.**

"Ask has a unique combination of technical insight and innovative approach. Throughout the project, he has had a targeted focus on our needs and objectives, and he has ensured that the project was accomplished in line with our specific needs in each situation. Ask did this by creating an innovative environment in which the relevant resources and disciplines together identified new innovative solutions – the best and most valuable solutions from our point of view.

The project has involved several stakeholders and parties who all had different interests. With his collaborative approach, Ask was able to quickly build the necessary trust and respect among the involved parties. His communications skills are outstanding and he is apt at ensuring that stakeholders' needs are communicated clearly throughout all project stages.

In addition, Ask skilfully identified critical misunderstandings with regard to interfaces and other important issues, and he contributed to their speedy correction, providing great value to us as customer.

**"WITH HIS COLLABORATIVE APPROACH, ASK WAS ABLE TO QUICKLY BUILD TRUST AND RESPECT AMONG THE INVOLVED PARTIES. HIS COMMUNICATION SKILLS ARE OUTSTANDING."**

In addition to the many innovative solutions in this project, Ask also contributed substantially to solving the structural challenges.

I have immense respect for Ask. Despite his young age, he has already proven that he can successfully manage large projects and I fully support his nomination for this year's EFCA YP of 2017."

**Name and signature:** Søren Kræmer



**Job title:** CEO

**Company:** Biovatage.dk

**CUSTOMER: HMN BIOGAS APS**

**PROJECT: ENZUP, BIOGAS UPGRADE AND INJECTION OF BIOGAS INTO THE GRID**

"Ask has held the role as coordinator of Sweco's consulting services for the building and construction component of HMN Biogas Aps' biogas upgrading facility at the wastewater treatment facility of BIOFOS Spildevandscenter Avedøre A/S.

Ask was HMN Biogas' sole point of entry to Sweco's consulting services within numerous disciplines and he ensured the coherence and quality of the project through transparent working methods, enabling us as customer to closely follow the entire process.

**"ASK COMMUNICATES FREELY AND PROFESSIONALLY WITH ALL TYPES OF PEOPLE AND HANDLES INTERESTS OF CONFLICT WITH A POSITIVE AND SOLUTION-ORIENTED ATTITUDE."**

All tasks were accomplished on time, with an approachable style and open mind to customer wishes and possible alternative solutions.

Ask communicates freely and professionally with all types of people and handles interests of conflict with a positive and solution-oriented attitude.”

**Name and signature:** Thomas S. Hernø



**Job title:** Project Manager

**Company:** HMN Biogas APS

**CUSTOMER: SOLUM GROUP**

**PROJECT: COMMERCIALIZATION THE TECHNOLOGY 'AIKAN'**

“ I have worked with Ask for the past years where he has been leading our effort in documenting our biogas technology Aikan. Ask possesses a good combination of engineering skills and a personality, which makes him an excellent resource and colleague in any innovative environment. Within a year, Ask has managed to get a full design package and a thorough description ready, used to commercialize the technology globally.

“ASK POSSESSES A GOOD COMBINATION OF ENGINEERING SKILLS AND A PERSONALITY, WHICH MAKES HIM AN EXCELLENT RESOURCE AND COLLEAGUE IN ANY INNOVATIVE ENVIRONMENT.”

Also financial evaluations of implementing the technology have been conducted to great value for the customer and our company. I give Ask my highest recommendations. ”

**Name and signature:** Martin Wittrup Hansen



**Job title and company:** General Manager at Burmeister & Wain Scandinavian Contractor, BWSC, formerly Vice President of Business Development at Solum A/S

**CUSTOMER: SOLUM GROUP**

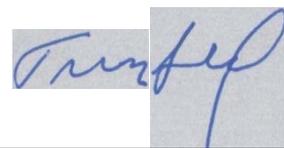
**PROJECT: COMMERCIALIZATION THE TECHNOLOGY 'AIKAN'**

“Ask has a unique and highly valuable combination of skills. He is technically very sound with engineering and quantitative skills being particularly strong. In addition, he has excellent business judgement, which is accompanied by outstanding communications and interpersonal skills.

“HE HAS EXCELLENT BUSINESS JUDGEMENT, WHICH IS ACCOMPANIED BY OUTSTANDING COMMUNICATIONS AND INTERPERSONAL SKILLS.”

Ask has been a core member of the team at one of our most important strategic partners for over a year, and while his tenure in the industry is amongst the shortest, he is nonetheless one of the most talented and important team members in our view. ”

**Name and signature:** Blake Sturcke



**Job title and company:** Chief Operating Officer and Chief Financial Officer, Encore Renewable Energy, formerly CFO at Turning Earth, LLC.

## Section D. CV OF THE CANDIDATE



### Curriculum Vitae



### Personal information

First name(s) / Family name(s)

**Ask Tonsgaard Brüel**

Business Address

Granskoven 8, 2600 Glostrup, Denmark

Phone number(s)

+45 43 48 64 49

Cell: +45 27 23 64 49

E-mail address

[asktonsgaard.brueel@sweco.dk](mailto:asktonsgaard.brueel@sweco.dk)

Nationality

Danish

Date of birth

30-09-1983

### Work experience

Dates

2016 – to date

Occupation or position held

Associate Market Director

Main activities and responsibilities

I have the full responsibility for Sweco's performance and initiatives on the biogas market in Denmark – my main objectives are to promote innovation and development and ensure the right results. In my role as Associate Market Director, I am in charge of developing, implementing, executing and continuously updating Sweco's business and strategic plan for the biogas market.

Besides my strategic responsibility I am also responsible for the management of Sweco's multi-disciplinary biogas team consisting of eight employees, This role involves managing the group's activity in the biogas market, coordinating projects and resources as well as ensuring the future workload. I am therefore also responsible for hiring new employees with the right competencies to ensure our competitiveness in the biogas market. As part of my role as manager, I am also responsible for creating the right environment for our employees so that they can develop creative and innovative solutions for our customers.

As Associate Market Director for biogas in Denmark, I am responsible for strategic coordination with the 14 Sweco countries in Europe – primarily Sweco Sweden and Sweco Finland. This includes securing resources across countries and the exchange of competencies in connection with projects as well as identifying common interests within the area of biogas in the different countries.

Name and address of employer

Sweco Danmark A/S, Granskoven 8, DK-2600 Glostrup, Denmark

Type of business or sector

Engineering Consultancy

Dates

2012 – to date

Occupation or position held

Project manager

Main activities and responsibilities	As a project manager in Sweco, I am responsible for coordinating, facilitating and producing innovative approaches for projects in the biogas sector in order to ensure the best solutions and discover possible synergies within projects. Biogas projects often require many different fields of expertise and involve many different parties. Therefore, a great deal of the work focuses on the dialogue with the customer as well as management work to ensure that all parties are on the same page about the project and that all resources are used in a way that supports the project in the best possible manner.
Name and address of employer	Sweco Danmark A/S, Granskoven 8, DK-2600 Glostrup, Denmark
Type of business or sector	Engineering Consultancy
Dates	2011-2012
Occupation or position held	Project manager
Main activities and responsibilities	As a project manager at Solum Group my main responsibilities were to run selected parts of the projects regarding the commercialization of the new technology 'Aikan'.
Name and address of employer	Solum Group A/S, Vadsby Stræde 6 DK-2640 Hedehusene, Denmark
Type of business or sector	Energy sector
Dates	2012 - 2015
Occupation or position held	Member of the board
Main activities and responsibilities	The role involved decision making on behalf of the organization and my main responsibility was to deal with the sponsors and negotiate contracts with them.
Name and address of employer	Vanløse Floorball, Damstien 6B, 2720 Vanløse, Denmark
Type of business or sector	Sports sector
Dates	2007 – 2012
Occupation or position held	Head Coach for the men's elite team (represented in the best Danish league)
Main activities and responsibilities	Planning and executing training as well as individual coaching. One of the main activities was to ensure collaboration and team spirit to make sure all team members would perform to their fullest potential.
Name and address of employer	Vanløse Floorball, Damstien 6B, 2720 Vanløse, Denmark
Type of business or sector	Sports sector
<b>Selected work experience at Sweco</b>	
Dates	2016
Occupation or position held	Project manager
Main activities and responsibilities	<b>CONCEPTUAL DESIGN FOR KORSKRO BIOGAS</b> In relation to an invitation to tender for EPC contractors issued by Korskro Biogas, Sweco prepared a conceptual design for the biogas plant. It was a requirement that the technical solutions were adapted to an existing architectural design, which demanded an innovative approach. The conceptual design included plant and building design, mass and energy balances, architectural services, specifications, and selection of equipment, operation and construction costs as well as time schedule. <b>Personal role:</b> Project manager for the construction and civil engineering works. Ask was responsible for coordinating all disciplines and structural parts, collecting bids from suppliers as well as pricing.
Name and address of employer	Jakobsen & Blindkilde, Drejervej 28, 7490 Aulum, Denmark
Type of business or sector	Energy sector
Dates	2015 - ongoing
Occupation or position held	Project manager and cross-disciplinary coordinator

Main activities and responsibilities	<p><b>AD BOOSTER SYSTEM FOR RIBE BIOGAS PLANT</b></p> <p>Sweco participates in the development of an AD booster demonstration system at the biogas plant of Ribe Biogas, a project partially funded by the Danish Energy Agency's EUDP programme to test new technology for pre-treatment by means of oxidation and steam explosion of biomass with a high content of fibre organics such as straw etc., which are normally considered non-suitable for biogas production.</p> <p><b>Personal role:</b> Project manager and cross-disciplinary coordinator. Ask is responsible for coordinating all structural activities. An innovative approach was required to fit in the new pre-treatment plant into the existing systems in the biogas plant. Ask also ensured that the right resources were available for each activity.</p>
Name and address of employer	Biovantage.dk, Klerkegade 19, DK-1308 Copenhagen K, Denmark
Type of business or sector	Energy sector
Dates	2014 – ongoing
Occupation or position held	Project manager
Main activities and responsibilities	<p><b>CONSTRUCTION MANAGEMENT AND SUPERVISION - ENVO BIOGAS PLANT IN TØNDER</b></p> <p>Responsible for the overall management of the construction and supervision of ENVO's new biogas plant (see project description below) and for reviewing the detailed design of this turnkey construction project (see description below).</p> <p><b>Personal role:</b> Responsible for the overall management of the construction and supervision of ENVO's new biogas plant, including the development of supervision plans and log books as well as review of the detailed design of the entire project.</p>
Name and address of employer	ENVO Group A/S, Vestvejen 170-172, 1. floor, 6200 Aabenraa, Denmark
Type of business or sector	Energy sector
Dates	2013 – ongoing
Occupation or position held	Project manager
Main activities and responsibilities	<p><b>ENVO BIOGAS TØNDER AND AABENRAA</b></p> <p>Sweco provides all project management services for the establishment of two biogas plants in the towns of Tønder and Aabenraa. Each plant is planned to receive up to 1 million tons biomass from local sources and produce 55 million m3 biogas annually.</p> <p>Sweco is responsible for facilitating dialogue and negotiating with all involved parties and for preparing a detailed economic and financial analysis, environmental permitting, including EIA and risk assessment documents, basic design of the biogas plant and biogas filling stations, tendering and contracting of suppliers and contractors as well as construction management and supervision of the works.</p> <p><b>Personal role:</b> Project manager responsible for the construction tasks, assistant project manager / coordinator for the overall project. Among his many tasks, Ask is charged with ensuring the best and most energy friendly solutions for the plant and biogas production throughout the production cycle – starting from the suppliers of biogas up to the biogas is injected into the Danish natural gas grid.</p>
Name and address of employer	ENVO Group A/S, Vestvejen 170-172, 1. floor, 6200 Aabenraa, Denmark
Type of business or sector	Energy sector
Dates	2013 – ongoing
Occupation or position held	Project manager

Main activities and responsibilities	<p><b>CNG FILLING STATIONS</b></p> <p>Procurement of 20 CNG trucks and establishment of 2 CNG filling stations as well as 1 mobile (daughter station) for the two new biogas plants - ENVO Biogas Tønder and ENVO Biogas Aabenraa. The project has received a grant from the Danish Energy Agency's pool for strategic partnerships for gas for heavy transport. All vehicles servicing the two biogas plants will be gas fuelled. Sweco is the project manager for both projects and prepares the tender documents, including technical requirements and specifications for the trucks and the filling stations.</p> <p><b>Personal role:</b> Project manager. Responsible for the implementation of 20 CNG trucks, two CNG filling stations and one mobile filling station at ENVO Biogas Tønder and Aabenraa. Ask drew up the application to the Danish Energy Agency, including the business case with financial calculations for the vehicles and size of the filling stations, ensuring the funding of the project. He has since developed the tender specifications for one filling station and a mobile plant and assisted in the selection, negotiation and contracting of a supplier.</p>
Name and address of employer	ENVO Group A/S, Vestvej 170-172, 1. floor, 6200 Aabenraa, Denmark
Type of business or sector	Energy sector
Dates	2014 - 2016
Occupation or position held	Project manager
Main activities and responsibilities	<p><b>ENZUP, ENZYMATIC UPGRADING AND INJECTION OF BIOGAS INTO THE GAS GRID</b></p> <p>ENZUP (Enzymatic Upgrading of Biogas) is an EUDP funded project implemented at the BIOFOS wastewater treatment facility in Avedøre, a Copenhagen suburb. The project has many interfaces. The BIOCAT project (see description below) is located at the same site; there are synergies in relation to BIOFOS' existing WWTP as well as new players on the site: HMN Biogas, HMN Naturgas and Electrochaea in addition to a number of suppliers and contractors each delivering their specific technical project. Sweco is thus in charge of a comprehensive cross-disciplinary coordination among the involved parties in relation to regulatory permits, including EIA screening, environmental permit, construction permit and application to the Danish Emergency Management Agency.</p> <p><b>Personal role:</b> Project manager. Moreover, Ask coordinates the permitting process and negotiations with the authorities, and he is responsible for the design, invitation to bid, bid evaluation, negotiation and supervision of the works. Working closely with HMN, Ask also ensured that interfaces etc. between the BIOCAT and ENZUP projects were coordinated.</p>
Name and address of employer	HMN Gashandel A/S, Vognmagervej 14, 8800 Viborg, Denmark
Type of business or sector	Energy Sector
Dates	2014 - 2016
Occupation or position held	Project manager
Main activities and responsibilities	<p><b>BIOCAT, POWER-TO-GAS AND BIOLOGICAL METHANIZATION</b></p> <p>The partially EUDP funded project aims to design, construct and engineer a 1 MW electrolysis demonstration facility for biological conversion of low-cost and stranded electricity and carbon dioxide, from the BIOFOS wastewater treatment plant, into natural gas for injection into the gas grid. Sweco managed all health and safety coordination for all contracts as well as all permitting, including environmental screening, application to the Danish Emergency Management Agency and the Danish Safety Technology Authority, CE marking and construction permit. As described above, the ENZUP and BIOCAT projects require extensive coordination among the numerous interfaces, stakeholders, suppliers and contractors.</p> <p><b>Personal role:</b> Project manager and coordination of the permitting process, design, invitation to bid, bid evaluation, negotiation with bidders and supervision of the works. Working closely together with HMN, Ask ensured that interfaces etc. between the BIOCAT and ENZUP projects were coordinated.</p>
Name and address of employer	Electrochaea.dk Aps, Chr M Østergaards Vej 4a, 8700 Horsens, Denmark
Type of business or sector	Energy sector
Dates	2013 - 2014
Occupation or position held	Biogas expert

Main activities and responsibilities	<p><b>FINANCIAL DUE DILIGENCE - ALTERNATIVE FUELS FOR BUSES</b></p> <p>Financial due diligence. Assessment of the introduction of gas, electrical or hybrid buses instead of the present diesel buses in the fleet of Midttrafik, a Danish bus operator, servicing the city of Aarhus and central Jutland (1.2 million inhabitants).</p> <p>The study evaluated practical solutions, fuels and maturity of the technologies as well as environmental, economic and financial consequences of using alternative fuels in relation to the three existing bus garages.</p> <p><b>Personal role:</b> Expert. Ask provided the economic and financial calculations and environmental assessments by means of the calculation model developed by him for the analysis of alternative fuels for waste collection trucks (see project description below).</p>
Name and address of employer	Midttrafik, Søren Nymarks Vej 3, 8270 Højbjerg, Denmark
Type of business or sector	Energy and transportation sector
Dates	2013 – 2014
Occupation or position held	Project manager
Main activities and responsibilities	<p><b>DUE DILIGENCE - PRE-TREATMENT OF HOUSEHOLD WASTE FOR A BIOGAS PLANT</b></p> <p>Preparation of due diligence. Development of business case, assessment and selection of technology with a view to establishing a pre-treatment facility for 80,000 tons of municipal solid waste annually for further processing in a biogas plant through sorting and mechanical pre-treatment of waste into pumpable and easily degradable bio pulp.</p> <p><b>Personal role:</b> Project manager. Ask was in charge of all parts of the report from the assessment to the technical solution for calculating the business case.</p>
Name and address of employer	ENVO Group A/S, Vestvejen 170-172, 1. floor, 6200 Aabenraa, Denmark and Meldgaard Holding A/S, Askelund 10, 6200 Aabenraa, Denmark
Type of business or sector	Energy sector
Dates	2013
Occupation or position held	Project manager
Main activities and responsibilities	<p><b>CONCEPTUAL DESIGN FOR HOLSTED BIOGAS</b></p> <p>In relation to an invitation to tender for EPC contractors issued by Holsted Biogas, Sweco prepared a conceptual design for the biogas plant, including plant design, mass and energy balances, building design, architectural services, specifications and selection of equipment, operation and construction costs as well as time schedules.</p> <p><b>Personal role:</b> Project manager for the construction and civil engineering contract and biogas specialist. Ask was responsible for coordinating all disciplines and construction parts as well as pricing. He also participated in the process design.</p>
Name and address of employer	Per Aarsleff A/S, Hasselager Allé 5, 8260 Viby J, Denmark
Type of business or sector	Energy sector
Dates	2013
Occupation or position held	Project manager
Main activities and responsibilities	<p><b>CONCEPTUAL DESIGN FOR MÅNSSON BIOGAS</b></p> <p>In relation to an invitation to tender for EPC contractors issued by Månsson Biogas, Sweco prepared a conceptual design for the biogas plant, including plant design, mass and energy balances, building design, architectural services, specifications and selection of equipment, operation and construction costs as well as time schedules.</p> <p><b>Personal role:</b> Project manager for the construction and civil engineering contract and biogas specialist. Ask was responsible for coordinating all disciplines and construction parts as well as pricing. He also participated in the process design.</p>
Name and address of employer	Per Aarsleff A/S, Hasselager Allé 5, 8260 Viby J, Denmark
Type of business or sector	Energy sector



Dates	2012 - 2013
Occupation or position held	Project manager and coordinator
Main activities and responsibilities	<b>ALTERNATIVE FUELS FOR WASTE COLLECTION TRUCKS</b> The study analyzed the overall economic and financial consequences of using alternative fuels instead of the presently used fuels. The study also assessed the environmental impacts, feasible solutions and the maturity of the different fuels with regard to combustion and technology. <b>Personal role:</b> Project manager and coordinator. Ask was responsible for the assessment of technical solutions, working out the economic and financial calculations and the business case.
Name and address of employer	The Procurement Network for Waste Collection - a cooperation of Copenhagen waste collection companies Vestforbrænding and Amagerforbrænding and the municipalities of Frederiksberg, Aarhus and Copenhagen) and RenoSam's working group for waste collection.
Type of business or sector	Energy sector
<b>Selected work experience at Solum Group A/S</b>	
Dates	2010 - 2012
Occupation or position held	Project manager
Main activities and responsibilities	<b>COMMERCIALIZATION OF THE TECHNOLOGY "AIKAN"</b> Global commercialization of Solum's technology "Aikan" for biogas production and waste treatment, including the financial model and a full design package. <b>Personal role:</b> Project manager, working closely with the US based firm Turning Earth, an integrated organics recycling company producing renewable energy.
Name and address of employer	Solum Group A/S, Vadsby Stræde 6 DK-2640 Hedehusene, Denmark
Type of business or sector	Energy sector
Dates	2011 - 2012
Occupation or position held	Specialist
Main activities and responsibilities	<b>DEVELOPMENT OF A DESIGN PACKAGE FOR 'AIKAN' NORTH AMERICA</b> Taking the design package to the next step in order to implement the technology in the United States. <b>Personal role:</b> Ask was responsible for the development of tender documents, plant specific and technical design and technical specifications. He also ensured that all standards, components and the construction of the plants were in compliance with US standards.
Name and address of employer	Solum Group A/S, Vadsby Stræde 6 DK-2640 Hedehusene, Denmark
Type of business or sector	Energy sector
Dates	2010 - 2012
Occupation or position held	Specialist
Main activities and responsibilities	<b>TECHNICAL AND FINANCIAL CALCULATION MODEL</b> Development of a technical and financial computational model as a tool for evaluating the technical aspects of projects and calculating volumes and outputs. The model can also be used for providing complete financial evaluations of the implementation of projects. <b>Personal role:</b> Managed the development work.
Name and address of employer	Solum Group A/S, Vadsby Stræde 6 DK-2640 Hedehusene, Denmark
Type of business or sector	Energysector
Dates	2010 - 2012
Occupation or position held	Specialist

Main activities and responsibilities	<b>DESIGN AND OPTIMIZATION OF BIOMASS TREATMENT AND PRODUCTION PLANTS WORLDWIDE</b> Development of plant-specific layout and technical design and tender packages for plants in Thailand, Indonesia, Malaysia, Philippines, Kenya, Lithuania, UK, Italy, Denmark, Iceland, USA and Greenland. <b>Personal role:</b> Ask was responsible for the design of equipment and technical specifications and for ensuring that requirements, components and plant construction were in compliance with the relevant legislation and standards in each country.
Name and address of employer	Solum Group A/S, Vadsby Stræde 6 DK-2640 Hedehusene, Denmark
Type of business or sector	Energy sector
Dates	2010
Occupation or position held	Master student
Main activities and responsibilities	<b>PRO TEC VINDUER A/S – PRODUCT DEVELOPMENT</b> As a part of his master's thesis, Ask worked with PRO TEC Vinduer A/S, a producer of windows, doors and facades, to develop energy efficient joints between windows and walls. Among other achievements, the work resulted in several creative solutions for easy and cost efficient installation of windows.
Name and address of employer	Solum Group A/S, Vadsby Stræde 6 DK-2640 Hedehusene, Denmark
Type of business or sector	Energy sector
<b>Education and training</b>	
Dates	2016 - 2018
Principal subjects/occupational skills covered	Graduate Diploma in Innovation Management (HD 2nd part)
Name and type of organisation providing education and training	Copenhagen Business School (CBS)
Dates	2014 - 2016
Principal subjects/occupational skills covered	Graduate Certificate in Business Administration (HD 1st part)
Name and type of organisation providing education and training	Copenhagen Business School (CBS)
Dates	2004 - 2010: MSC Civil Engineering, specializing in Construction Technology, Technical University of Denmark. Master's thesis: Development of energy efficient window-wall assemblies for PRO TEC Vinduer A/S
Title of qualification awarded	MSC Civil Engineering
Principal subjects/occupational skills covered	MSC Civil Engineering, specializing in Construction Technology. Master's thesis: Development of energy efficient window-wall assemblies for PRO TEC Vinduer A/S
Name and type of organisation providing education and training	Technical University of Denmark
Dates	2004 – 2007
Title of qualification awarded	BSc Civil Engineering
Principal subjects/occupational skills covered	BSc Civil Engineering, specializing in Construction Technology
Name and type of organisation providing education and training	Technical University of Denmark



Dates 2009  
 Principal subjects/occupational skills covered Course: Communication Strategies for Managers Business-to-Business Marketing  
 Name and type of organisation providing education and training Copenhagen Business School (CBS)

Dates 2009  
 Principal subjects/occupational skills covered I completed a semester abroad with courses such as: Energy Management and Renewable Energy Technology.  
 Name and type of organisation providing education and training KTH Royal Institute of Technology in Stockholm

**Personal skills and competences**

Mother tongue(s) Danish

Other language(s)  
 Self-assessment  
 European level (\*)

Understanding		Speaking				Writing	
Listening	Reading	Spoken interaction		Spoken production			
English	C2	C2	C2	C2	C2	C2	C2
Danish	C2	C2	C2	C2	C2	C2	C2

Social skills and competences

- > Good with people
- > Reading of people
- > Communication skills
- > Socialising

Technical skills and competences

- > Strategy and business development
- > Innovation processes and knowledge sharing
- > Project management and cross-disciplinary coordination
- > Circular economics and economic analyses
- > Energy optimization and renewable energy sources
- > Alternative fuels (e.g. electricity / gas)
- > Biogas and biomass

Hobbies and activities Floorball and Golf.

Awards Berlingske "Talent 100 2017"  
 Recipient of the 'Climate Scholarship' from TopDanmark in 2009 (10.000 DKK)

Membership of professional organisations IDA - Danish Society of Engineers, Kalvebod Brygge 31-33, DK-1780 Copenhagen V, Denmark