

Sagsnr	Projektitel	Opslag	Akronym
0175-0004A	AutoAI4CS Auto-Generated AI for Customer Service	Nye Tek	AutoAI4CS
0175-0005A	JobMatch Using Machine Learning for Personalized and Persuasive Job Recommendation	Nye Tek	JobMatch
0175-0008A	GS1 20 - OPTIMAL Ostomy Product that is Measuring Abrupt Leakage	Nye Tek	OPTIMAL
0175-00011A	LEGALESE Danish Language Processing for Legal Texts	Nye Tek	LEGALESE
0175-00014A	PIN Platform Intelligence in News	Nye Tek	PIN
0175-00018A	CryptQ Quantum Cryptography – Unbreakable data protection secured by the laws of nature	Nye Tek	CryptQ
0175-00019A	FacilityCobot Automating Facility Management by Collaborative Robots guided by Intelligent Sensors	Nye Tek	FacilityCobot
0175-00022A	NEXUS Next-Generation Ultracompact Spectrometers	Nye Tek	NEXUS
0175-00028A	InnoSHM Innovative Structural Health Monitoring and Risk Informed Structural Integrity Management	Nye Tek	InnoSHM
0175-00039A	GS1 20 - ShipWeldFlow Digital Twins for robotic unit welding analysis and optimization in ship production	Nye Tek	ShipWeldFlow
0175-00041A	UnFoLD Unified platform for the Future of Learning and Development	Nye Tek	UnFoLD
0175-00043A	DECOR Danish Ecosystem for Recycled powders and ingots	Nye Tek	DECOR
0176-00012A	CSIC Clinical stem cell innovation and production center	Sund	CSIC
0176-00013A	AI4Xray Intelligent prioritization and decision support for chest x-ray analysis	Sund	AI4Xray
0176-00014A	UCon Clinical Testing Clinical Testing of UCon: A New Treatment for Overactive Bladder and Faecal Incontinence by Dorsal Genital Nerve Stimulation	Sund	UCon Clinical Testing
0176-00020A	CHILD@HOME CHILDHOOD INFECTIONS: INNOVATIVE DIAGNOSTICS AND ANTIBIOTIC USE	Sund	CHILD@HOME
0176-00030A	OSCAR One Stop Shop for Clinical Research	Sund	OSCAR
0177-00002A	Hemp4Tex Sustainable Hemp Textiles – Approaching the entire value chain	Grøn omstilling	Hemp4Tex
0177-00004A	StarQuality Platform for Innovative New Green Gearing for Danish Plant Breeding Industry	Grøn omstilling	StarQuality
0177-00006A	DecomBlades The circular economy value chains for decommissioned wind turbine blades	Grøn omstilling	DecomBlades
0177-00021A	DREAMS Digitally supported Environmental Assessment for Sustainable Development Goals (SDGs)	Grøn omstilling	DREAMS
0177-00022A	ROROGREEN Green RORO shipping through digital innovation	Grøn omstilling	ROROGREEN
0177-00029A	AEngine Zero-Carbon Ammonia Marine Engine	Grøn omstilling	AEngine
0177-00035A	RePlast Industrial recycling of post-consumer plastics – inline analysis, documentation, and sorting	Grøn omstilling	RePlast

0177-00046A	GS20-1 ImproSil - ImproSil Improved float zone silicon for better stability in power conversion	Grøn omstilling	ImproSil
0177-00065A	Mvolt Medium voltage power electronics for wind systems	Grøn omstilling	Mvolt
0177-00066A	Cool-Data Flexible Cooling of Data Centers	Grøn omstilling	Cool-Data
0177-00071A	CALLISTE Calcined Clay-Limestone Technology Extension	Grøn omstilling	CALLISTE
0177-00084A	GrassProCast Prediction of optimum harvest time to achieve maximum protein content in grass for animal forage and human food.	Grøn omstilling	GrassProCast
0177-00085A	SuperTEM SuperTEM – monitoring and imaging of groundwater resources for sustainable exploitation	Grøn omstilling	SuperTEM
0177-00086A	ReDoCO2 Reducing and Documenting CO2 emissions from Peatlands	Grøn omstilling	ReDoCO2
0177-00103A	LOWCARBFUELSDK HTL-fuels: low carbon fuels for aviation and marine markets	Grøn omstilling	LOWCARBFUELSDK
0177-00109A	GreenTan Green tanning technology to foster environmentally friendly transition and growth	Grøn omstilling	GreenTan

Ansøger (affiliation)	Faglig kategori	Total budget	Ansøgt beløb inklusiv overhead	Beslutning #2
Københavns Universitet	Production, materials, digitalization and ICT	kr. 11.382.702	kr. 7.236.155	INV - Invitation
KU - DIKU *771*	Production, materials, digitalization and ICT	kr. 10.157.330	kr. 7.094.012	INV - Invitation
Danmarks Tekniske Universitet	Production, materials, digitalization and ICT	kr. 22.463.015	kr. 14.050.852	INV - Invitation
KU - JUR - Fakultetet		kr. 11.643.990	kr. 7.476.610	INV - Invitation
JP/POLITIKENS HUS A/S	Production, materials, digitalization and ICT	kr. 16.994.011	kr. 10.758.808	INV - Invitation
Danmarks Tekniske Universitet	Production, materials, digitalization and ICT	kr. 33.334.290	kr. 22.518.895	INV - Invitation
Enabled Robotics ApS	Production, materials, digitalization and ICT	kr. 17.624.499	kr. 11.751.900	INV - Invitation
Danmarks Tekniske Universitet Fotonik	Production, materials, digitalization and ICT	kr. 41.635.832	kr. 25.057.643	INV - Invitation
Danmarks Tekniske Universitet	Production, materials, digitalization and ICT	kr. 18.863.999	kr. 10.316.999	INV - Invitation
Syddansk Universitet (University of Southern Denmark)	Production, materials, digitalization and ICT	kr. 10.267.440	kr. 7.583.021	INV - Invitation
Aalborg Universitet	Production, materials, digitalization and ICT	kr. 21.933.619	kr. 14.519.491	INV - Invitation
NORDISK STAAL A/S	Production, materials, digitalization and ICT	kr. 14.547.259	kr. 10.972.409	INV - Invitation
Region Hovedstaden		kr. 31.076.820	kr. 24.996.531	INV - Invitation
KU - SCIENCE - DATALOGISK INSTITUT - UP1	Biotech, medico and health	kr. 18.892.456	kr. 13.822.355	INV - Invitation
InnoCon Medical ApS	Biotech, medico and health	kr. 8.442.557	kr. 6.503.502	INV - Invitation
RIGSHOSPITALET		kr. 24.256.854	kr. 14.995.846	INV - Invitation
DataFair ApS	Biotech, medico and health	kr. 78.514.160	kr. 24.212.932	INV - Invitation
Teknologisk Institut, Skejby	Production, materials, digitalization and ICT	kr. 14.915.965	kr. 10.194.519	INV - Invitation
GRAFF BREEDING A/S	Bioresources, food and biotech	kr. 18.444.238	kr. 12.056.037	INV - Invitation
Ørsted Wind Power A/S	Energy, climate and environment	kr. 40.812.652	kr. 22.843.287	INV - Invitation
Aalborg Universitet, RBG14	Energy, climate and environment	kr. 27.478.628	kr. 18.239.314	INV - Invitation
Danmarks Tekniske Universitet	Infrastructure, transport and construction	kr. 13.285.613	kr. 9.868.222	INV - Invitation
MAN Energy Solutions, filial af MAN Energy Solutions SE, TYSKLAND	Energy, climate and environment	kr. 55.693.366	kr. 29.997.880	INV - Invitation
Aarhus Universitet, Bygn 5366, 5794-5795	Production, materials, digitalization and ICT	kr. 22.724.952	kr. 16.964.068	INV - Invitation

Topsil GlobalWafers A/S	Energy, climate and environment	kr. 3.681.244	kr. 2.758.499	INV - Invitation
Aalborg Universitet	Energy, climate and environment	kr. 26.115.015	kr. 18.967.510	INV - Invitation
Danmarks Tekniske Universitet	Energy, climate and environment	kr. 18.359.306	kr. 13.282.477	INV - Invitation
Teknologisk Institut	Infrastructure, transport and construction	kr. 33.110.356	kr. 21.592.479	INV - Invitation
AGCO A/S	Energy, climate and environment	kr. 9.850.920	kr. 5.099.113	INV - Invitation
Aarhus Universitet	Energy, climate and environment	kr. 21.796.245	kr. 16.158.545	INV - Invitation
I-GIS A/S	Energy, climate and environment	kr. 32.291.391	kr. 24.372.428	INV - Invitation
Aalborg Universitet, PON111	Energy, climate and environment	kr. 42.857.097	kr. 30.755.005	INV - Invitation
ECCO SKO A/S	Energy, climate and environment	kr. 31.247.221	kr. 12.022.541	INV - Invitation

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sag	abstract
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[0177-00002](#) Hemp4Tex will develop Danish sustainable and low carbon foot-print hemp textile

[0177-00004](#) StarQuality establishes a series of scientific and industrial platforms to reduce glob

[0177-00006](#) An increasing number of wind turbines are reaching end of life and will soon have

[0177-00021](#) DREAMS develop digitalised decision support tools to promote Sustainable Develo

[0177-00022](#) ROROGREEN is a project that aims at bringing Denmark a step closer to sustainable

[0177-00029](#) Ammonia as a marine fuel has the potential to completely decarbonize the marine

[0177-00035](#) This project addresses the grand challenge of plastic waste handling and recycling.

[0177-00046](#) In 'Improved Float Zone Silicon for Better Stability in Power Conversion', ImproSil,

[0177-00065](#) The Mvolt project aims to foster a paradigm shift in wind systems by developing di

[0177-00066](#) Large energy demand for cooling data centers (DCs) is jeopardizing the effort to re

[0177-00071](#) Aalborg Portland aims to become the world's leading cement producer to supply l

[0177-00084](#) Grass is currently recognized as the most environmentally beneficial crop in arable

[0177-00085](#) One consequence of climate change is more extreme weather patterns, which cor

[0177-00086](#) Depending on their present condition, peatlands can store a huge amount of carb

[0177-00103](#) HydroThermal Liquefaction (HTL) has proven itself as the most resource-, energy- a

[0177-00109](#) ECCO, DTU and BioScavenge have joined forces to tackle one of the most promine

fabrics for the textile industry which can replace cotton fabrics and create a local production of hemp fibers to reduce the environmental footprint from plant production and to increase international competitiveness of Danish textile production. However, wind turbine blades (WTBs) made of glass fiber reinforced thermoset composites need to be decommissioned. However, wind turbine blades (WTBs) made of glass fiber reinforced thermoset composites need to be decommissioned. However, wind turbine blades (WTBs) made of glass fiber reinforced thermoset composites need to be decommissioned.

Project 2: Green Shipping. This project aims to advance environmental assessment (EA) to integrate Sustainable Development Goals (SDGs) and green transition by advancing environmental assessment (EA) to integrate SDGs. The project focuses on Roll-on Roll-off (RoRo) shipping. The project uses digital innovation to monitor RoRo shipping emissions and reduce the environmental footprint of the shipping industry. The project aim is to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel. The project uses digital innovation to monitor RoRo shipping emissions and reduce the environmental footprint of the shipping industry. The project aim is to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel.

Project 3: Circular Economy. This project aims to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel. The project uses digital innovation to monitor RoRo shipping emissions and reduce the environmental footprint of the shipping industry. The project aim is to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel.

Project 4: Sustainable Cement. This project aims to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel. The project uses digital innovation to monitor RoRo shipping emissions and reduce the environmental footprint of the shipping industry. The project aim is to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel.

Project 5: Sustainable Agriculture. This project aims to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel. The project uses digital innovation to monitor RoRo shipping emissions and reduce the environmental footprint of the shipping industry. The project aim is to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel.

Project 6: Sustainable Energy. This project aims to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel. The project uses digital innovation to monitor RoRo shipping emissions and reduce the environmental footprint of the shipping industry. The project aim is to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel.

Project 7: Sustainable Manufacturing. This project aims to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel. The project uses digital innovation to monitor RoRo shipping emissions and reduce the environmental footprint of the shipping industry. The project aim is to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel.

Project 8: Sustainable Transportation. This project aims to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel. The project uses digital innovation to monitor RoRo shipping emissions and reduce the environmental footprint of the shipping industry. The project aim is to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel.

Project 9: Sustainable Buildings. This project aims to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel. The project uses digital innovation to monitor RoRo shipping emissions and reduce the environmental footprint of the shipping industry. The project aim is to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel.

Project 10: Sustainable Water Management. This project aims to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel. The project uses digital innovation to monitor RoRo shipping emissions and reduce the environmental footprint of the shipping industry. The project aim is to demonstrate at full scale a large marine engine that operates on ammonia (NH₃) as a fuel.

fibers, yarns and fabric. Producers of hemp crops and manufacturers of fibers, textile industry and design
sh plant breeding. The project exploits naturally occurring plant-microbe interactions, the emerging New
composites are not easy to recycle and mostly end in landfill or incinerated. To create a viable business c
s and enable faster, better and more democratic decision-making processes. EAs are obligatory for a serie
s and optimize the industry's operational and strategic planning. By doing so, we reduce the fuel consum
ia and to do so at the MAN research facilities in Copenhagen. The projects will cover three main parts: 1
al relevant analysis techniques enables plastic sorting, product documentation, and materials traceability
Aarhus University (AU), which has a strong presence in the field of semiconductor physics, in order to rec
ely medium voltage – this opens the door to unseen flexibility in usage of system components. High impa
reliable integrated cooling energy system for DCs. The cooling solution includes an innovative phase-chan
velop the next generation cements based on the FUTURECEM (trademark) technology. The target within
le food production. This is especially due to the emerging development of technologies for protein extra
ping countries. The aim of SuperTEM is to provide technologies that monitor changes in ground water le
ls constitute a key target to achieve the national goal of reducing CO2 emissions with 70% by 2030. Ther
ocks, including agricultural (manures, straw, cuttings/shavings etc) and urban (organic waste, sewage slu
ergy in one of ECCO's tanneries in the Netherlands, and thereby decreasing its environmental footprint :

ers will share the value of (estimated) 250 mill DKK/year in DK. Hemp4Tex will approach the whole value chain. Breeding Technologies (NBT) and Classical Breeding Techniques (CBT) to develop naturally bushy QUALITY. Base for recycling WTBs, DecomBlades aims at establishing a functional value chain to handle end of life vessels of decisions on energy supply, transport, manufacturing, construction, mining and agriculture, forestry and the selection of the used vessels, which have the highest impact factor on the GHG emissions produced during production. 1) The concept development and initial design of an ammonia engine. 2) The design of an ammonia fuel cell. Our approach is to introduce three broad spectral cameras for inline plastic analysis in a conveyor system to reduce detrimental variances in the quality of FZ silicon. High quality material is a critical requirement for Solar and wind, solar and storage systems use the same components today but do not share them. Significant advantages of phase change material (PCM) storage and state-of-the-art controller system using artificial intelligence (AI) developed over the last 10 years is to pave the road for implementation of cements with extreme clinker replacements well beyond 50% and refinement for animal forage production, replacing imported soybeans. Due to this, grass production is not affected by sea levels or intruding saltwater without having to establish expensive boreholes. The monitoring results are promising. There is thus a great need to investigate the spatial variability of peat soil properties in order to assess the technical feasibility (e.g. etc). However, whereas the HTL part of the process is relatively well established from a research & innovation perspective, the aim is to increase its profitability. Key activities will include comprehensive monitoring, technology development and increasing its profitability.

the chain using innovative solutions scalable for industrial production of uniform hemp fibers and yarns of
TY plant varieties that today are highly demanded for decreasing the environmental footprints of the
MTBs from decommissioning, to re-processing and reuse in new applications. DecomBlades partners see
/ and fishery, which according to Statistics Denmark amounts to 84% of the total Danish GHG emissions.
maritime shipping. The operational efficiency gained by the optimized procedures will lower costs, attract
supply system. 3) Tests of ammonia operation at real scale on the 7MW 4S50ME-C test engine in Copenh
Denmark. By coupling the obtained spectroscopically signals with the chemical composition of the plastics, it
silicon based power electronics devices, which are used to control and convert large currents. The market
advantages are generated in this proposal that enable modularization and sharing of components which
achieved during the project. The AI-based controller integrates the thermal storage to modular cooling equipment
and what is accepted by European standardisation and concrete standard with CO2 savings in the range
reduction will play an increased role in arable farming in coming years, and the importance of optimizing th
delivered directly to the water manager operating a water well for immediate action. The scientific core i
total amount of C stored in these soils. Through the combination of state-of-the-art hardware, software, i
innovation perspective, the upgrading of the crude oil to marketable transportation is lacking in order for
development, digital twin modelling, impact and feasibility assessment and technology implementation. Based

high textile quality. The investment will be used at Danish universities, GTSs and Danish companies to combat the agricultural industry and eliminating the latent threat of widespread plant virus epidemics. StarQuality uses three promising recycling technologies: cement kiln, pyrolysis and mechanical shredding. DecomBlades EA is therefore a key tool for improving impacts of decisions to promote green transition, climate mitigation and more cargo from road to sea, and indirectly also reduce the emissions of road transport. The project will be led by MAN. MAN will be leading the project and be responsible for all on-engine development and in particular will be possible to obtain detail batch information and out-sort impurities for obtaining pure well documented material. It is huge with the insulated gate bipolar transistor (IGBT) as the main power component having a market share of 90%. This improves RoI, sustainability, and reliability. The Mvolt project is designed to meet the societal need for sustainable energy, resulting in a more efficient and flexible cooling system (Figure 1). The PCM storage will support the reduction of 50%. This requires basic research within concrete durability and workability. On the shorter term, the value chain of grass production becomes equally important. One of the main factors influencing the quality is a novel way of using transient electromagnetics (TEM) to image subsurface structures and image time-modelling techniques and IT technologies (Figure 1), the present project will develop an overall methodology to reach broader acceptance and adoption. Centered around a core of technical research on the preliminary assessment, it is expected that 95% of water would be reused and more than 3 times

develop and document it is possible to produce a high-quality textile hemp fabric, which fulfill all requirements. The project will take a crucial next step to mature these processes and to establish each of the necessary steps in the value chain and biodiversity improvements. In Denmark, annually around 3,500 projects and plans are screened. The project will use advanced technological hardware such as cameras, drones, mobile robots, and sensors, for automation and data collection. The project is also a key driver for the development of the systems for fuel injection, ignition, combustion and emission abatement, and the use of recycled plastic fractions. The system will be implemented in two national plastic recyclers and will have a total investment of 4.5 billion USD/year. Therefore even a small improvement of the silicon substrate can have a large effect on the sustainable power by lowering the Levelized Cost of Energy (LCoE) of wind energy, thereby increasing the flexibility of cheap and low-carbon electricity and waste heat. The project includes a systemic perspective and a target within 5 years is to develop cements ready for use in the precast industry, which constitutes 50% of the total production and yield of grass protein is timely cutting and collection of the grass in the field. Today, the farmers are struggling with varying groundwater levels and interfaces between fresh and saline groundwater related to water extraction. The project uses technology to map peatlands in detail and enable accurate estimates of CO2 emissions and potential C stocks. The project is a combination of research and innovation, focused on refinery operations and catalysis, this project delivers a fully documented green hydrogen production process. The energy would be harvested in the tannery. The current project would enable ECCO to take leather processing

ements for end-users in textile and fashion industry. LCA and TEA will document improvement of the im
ntals worldwide with a yearly production of more than 500 mill plants [1,2], as model plant, and as dem
value chain, such as data specification, logistics, process mapping and optimization, and demonstration. /
d for whether they require an EA or not, of which around 500 require a full EA. The cost is estimated to a
nated data capturing. The collected data will then be exploited by using artificial intelligence and optimiz
suitable for ammonia. EFT, a Danish supplier of fuel systems will design the ammonia fuel supply system
will benefit the Danish circular plastic economy. Obtaining documentation and pure plastic fractions will e
fect. Power electronics find their applications in e.g. renewable energy generation and electric transport
pace with which clean energy can replace polluting sources. To mitigate the risks of the disruptive deve
ctive to assess the impacts of the scaling up of the solution on greenhouse gas emissions and energy trar
of the Danish concrete market. This requires basic research within activation of calcined clay to signfica
s have very limited information available to support these crucial tactical decisions. The proposed GrassPi
ction wells. We will develop: 1) low-cost instruments for monitoring groundwater and saltwater levels ov
This methodology will provide decision-makers with detailed information and cost-effective tools to ap
go to market strategy for initial deployment and scale-up of HTL-derived sustainable aviation fuels (SAF) a
duction to the next level of sustainable production and make ECCO a role model for the leather industry

impact on environment, climate and economic feasibility.

o-plant for Proof-of-Concept (PoC), "bellflower" (wall bellflower, Dalmatian bellflower), Campanula portulacastris. A key strength of DecomBlades is the strong interlink between the eight work packages and the partners involved. The project is worth around 350 million DKK per year, of which 30 % can be saved through DREAMS. DREAMS will be implemented using simulation techniques for the development of decision support tools. DFDS will partake in the project as a living lab together with MAN. DTU will support the combustion system development with their world leading expertise. The project will enable the usage of recycled plastic material in the Danish plastic industry. Both the plastic industry and the aviation, and are currently seeing a rise in demand due to the ongoing transition towards green technology. The development of the Mvolt approach is stepwise; (i) First new components are validated (ii) secondly system level validation. We exploit the synergy between ICT and energy sectors and develop new business models and recently increase the early stage strength. A 30% CO2 reduction is expected, in line with the first generation FLOX. The FloCast project aims to develop a web-based decision support tool for Tactical Planning in grass production. The project will: 1) determine the best time to harvest; 2) semi-airborne imaging systems using drone-carriers; 3) an automated data management link to determine and appropriately select which peatland areas to take out of agricultural production and restore. Notably, the project will also develop jet and marine fuels. Results will include design of optimal upgrading pathways for jet and marine fuels, as well as the development of BioScavenge as technology provider together with DTU will develop and test the solution at ECCO's tank.

enschiagiana (figure A3), a very important Danish (and Dutch) pot- and bedding plant specialty [3,4].

. The knowledge and infrastructures required to fulfill the tasks are covered by the partners' facilities and located in the Danish Environment Portal in collaboration with major consultancies and authorities. The ongoing lab for the technologies and tools developed. The consortium is composed of a number of vendors and expertise on ammonia combustion chemistry and experimental work on smaller scale ammonia research consumers generate a strong pull for more recycled plastic and this technology is a causal step

r. Through closely correlated in-depth defect studies at Aarhus University and a close analog implementation at a power level of 0.5MW system is validated (iii) and lastly upscaling to 1MW is shown regulatory pathways that maximize the benefits of storage in integrated DCs. The Cool-Data will result in FUTURECEM targeting ready-mixed concrete, which is expected approved for use Denmark by 2020. Development and to make it commercially available to farmers by the end of the three-year project period

ed with cloud computing delivering direct feedback to water managers. The project team have a strong combination of the drone-mounted cutting-edge geophysical sensors, advanced 2D modelling techniques as well as novel catalytic and fractionation approaches to reducing production costs. The consortium company in Dongen. This will create a unique business opportunity for BioScavenge to become a preferred supplier

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