

MEET



Jesper Nygård
CEO of Realdania
Since 2013 CEO of Realdania (a modern philanthropy foundation). Until 2016 board member of the C40 Cities Climate Leadership Group and co-organizer of the COP21's Mayors meeting in Paris 2015.



Carsten Orth Gaarn-Larsen
CEO at the CLEAN Cluster since 2016 and former CEO of the Danish National Advanced Technology Foundation. CLEAN is a cleantech cluster based in Denmark with the mission to accelerate the green and sustainable transition while realizing growth for the Danish cleantech sector. Its aim is the transition to sustainable green energy. From his experience Carsten Orth Gaarn-Larsen knows how to navigate between companies, universities and public authorities to create new results.



Per Christensen
Since 2013, President of the United Federation of Danish Workers (3F), the largest trade union in Denmark. Per Christensen and 3F has for many years been deeply involved in how the climate challenge can be turned into a green job creation opportunity. In 2015, the 3F Green Think Tank (public private partnership) published its recommendations for how to create 52,000 new green jobs in Denmark. Per Christensen is also as chairman of Pension Denmark (pension fund) and Arbejdernes Landsbank (bank) deeply involved in society disruption challenges.



Professor Dr. Werner Brinker
From 1998-2015 Professor Brinker was chairman of the Executive Board of EWE AG, the 5th biggest energy supplier in Germany, Energy Manager of the Year 2006. For seven years until 2015 he was chairman of the board of the 'Forum für Zukunftsenergien' in Berlin. He was cofounder of the NEXTenergy Institute at the University of Oldenburg where he became Honary Professor in 2015 for Energy and Technology. Professor Brinker is an economic manager and mentor of energy economics.

ORGANIZING COMMITTEE

Prof. Dr. Horst-Günter Rubahn
Director, Mads Clausen Institute, SDU

Prof. Dr. Olav Hohmeyer
Energy and Environmental Management,
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Peter Rathje
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100%  **CLIMATE NEUTRALITY**
Solutions for crossing borders

INTERNATIONAL CONFERENCE
October 4-5, 2017, Sønderborg, Denmark



Smart Cities • National/Regional strategies
• Citizen participation • Energy efficiency
• Sustainable Entrepreneurship

WELCOME TO
100% CLIMATE NEUTRALITY
- SOLUTIONS FOR CROSSING BORDERS

A conference in the science and culture center ALSION
at the border of Denmark & Germany

The conference joins stakeholders, researchers and
industry representatives to point out ways
to reach 100% climate neutrality.

Organizers



Partners



www.climateneutral.eu

CONFERENCE PROGRAM

WEDNESDAY, OCTOBER 4

09.00	Registration
09.30-10.20	Welcome Addresses, Concert Hall <ul style="list-style-type: none"> • Prof Dr. Henrik Dam, President of the University of Southern Denmark • Prof. Dr. Werner Reinhard, President of Europa-Universität Flensburg • Prof. Dr. Thomas Severin, President of Hochschule Flensburg
10.20-11.15	Plenary Talks, Concert Hall <ul style="list-style-type: none"> • How C40 is taking strong leads in transitioning the Cities of tomorrow, <i>Jesper Nygård, CEO Realdania</i> • Disruptive technologies and solutions, <i>Carsten Orth Gaarn-Larsen, CEO CLEAN Cluster, Denmark</i> • The importance of creating new jobs and businesses in a collaborative way, <i>Per Christensen, President United Federation of Danish Workers, 3F</i>
11.15-11.40	Coffee Break
11.40-12.30	Plenary Talks continued, Concert Hall <ul style="list-style-type: none"> • Economic perspectives on a transition to climate neutrality, <i>Professor Dr. Werner Brinker, Honary Professor Oldenburg and former Chariman of the Executive board EWE AG, Germany</i> • Setting the national frame for ambitious cities, <i>Professor Dr. Günther Bachmann, General Secretary of the Council for Sustainable Development, Berlin</i>
12.30-13.30	Panel Discussion, Concert Hall
13.40-14.40	Lunch
13.30-14.30	Press Meeting, M304-M307, Red Box
14.45-16.45	Session: Energy Efficiency, U101
15.00-18.00	Session: SmartEnCities Network, Concert Hall
15.00-17.30	Matchmaking, U109 <ul style="list-style-type: none"> • Engineering Students-Industry Matchmaking, Atrium in front of U109 • Side Event: Matchmaking and Project Development in Energy Efficient Technologies, U109
18.30	Conference Dinner

THURSDAY, OCTOBER 5

8.30	Registration
9:00-9:30	Plenary talk, U101, Intelligent Energy Systems , <i>Dr. Serafin von Roon, CEO Forschungsgesellschaft für Energiewirtschaft, Munich, Germany</i>
9:40-11:10	Session: Participatory Approaches, M304-M307, 3rd Floor Session: Intelligent Energy Systems, U101
11:10-11:30	Coffee break
11:30-12:30	Session: Entrepreneurship and Smart Cities (IGEF), M304-M307 Session: Energy Efficiency, U101
12:30-13:30	Lunch
13:30-15:00	Session: Start-Ups in Sustainable Transportation (IGEF), M304-M307, 3rd Floor Session: Intelligent Energy Systems, U101
14:30-18:00	Field Trip, bus will depart from the main entrance

SIDE EVENTS, OCTOBER 5

9:00-18:00	Network SmartEnCities, U109
9:00-17:30	Doctoral Consortium: Entrepreneurship and Innovation for Sustainability, Innovation Lab 4th floor
19:30-22:30	Folk Music Concert, Kristian Lilholt and Band, Sønderborg Theater. Participation for a limited number is free, but registration in the app is necessary for conference participants

10 YEARS ANNIVERSARY

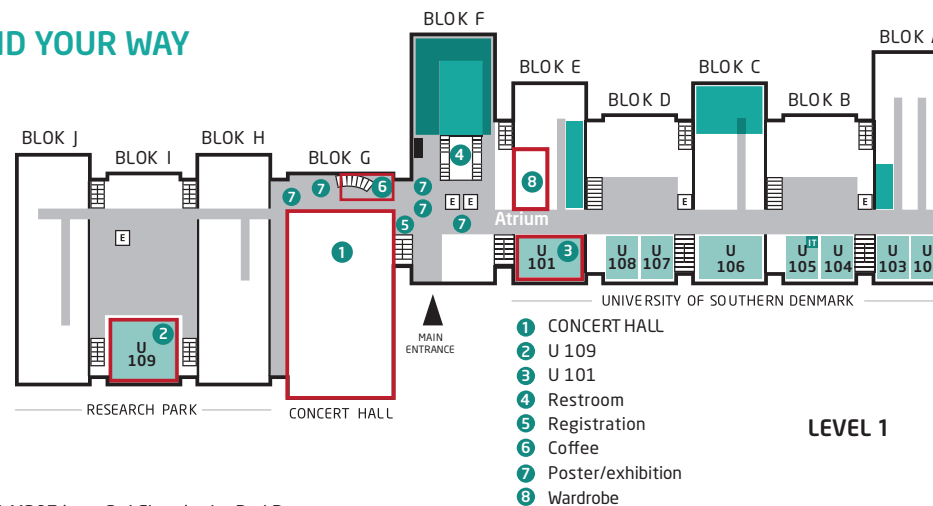
The Science and cultural center Alision and ProjectZero celebrate 10 years anniversary, a whole week of activities invites you to participate.

The conference is one part of these activities. Further information on the homepage and here: www.bit.ly/2x3aPq7

Scan code to read more.



FIND YOUR WAY



M304-M307 is on 3rd Floor in the Red Box

Climate Conference Reached Important Conclusions

'100% Climate Neutrality' at Alision attracted over 400 participants from all over Europe. The participants learned about the latest research in sustainable energy, and it was made clear that governments and countries alone cannot solve climate problems - support is needed from civilians, industry, towns and municipalities.

- It's about what kind of world we leave to our children. Action has to be taken now! I refuse to live in a world of ignorant people who don't take climate problems seriously. I don't care where they are from or of which country they are President!

Henrik Dam, Vice Chancellor of SDU, spoke in capital letters when he took the stage to welcome participants to this week's climate conference at Alision in Sønderborg. The conference was arranged by SDU's Mads Clausen Institute in Sønderborg along with Hochschule Flensburg, Europa-Universität Flensburg, ProjectZero, Kimapakt Flensburg, CLEAN and Sønderborg Vækstråd. The aim of the conference was to exchange knowledge about how to work most effectively towards 100% climate neutrality on Danish soil - and in the whole world.

The Mayor of Sønderborg, Erik Lauritzen, intimated in his welcome speech that the Municipality along with ProjectZero had already taken the first important steps. As a result of a strong collaboration with local partners, Sønderborg has managed to reduce the Municipality's CO₂ emission by 35% since 2007.

- The next milestone is to reach a reduction of 50% by 2020, said the Mayor.

If both this goal and the UN's climate target from the Paris Agreement in 2015 are to be reached, action must be taken now, as SDU's Vice Chancellor said from the podium. He was supported by the President of Europa-Universität Flensburg, Werner Reinhart.

- Researchers have to climb down from their ivory towers and lend their voices to the public debate.

Everyone must act

However, it is not only the responsibility of researchers to save our earth. The planet is literally melting around us, and the most prominent scientists in climate change think it is unlikely that we can keep the temperature increase below 2 degrees by the year 2100. Immediate action must be taken by industry, towns, municipalities and also you and me.

- Many people say that the Climate Conference in Copenhagen was a big failure. And of course it was a failure in the sense that the targets set were neither ambitious enough nor lived up to what we had hoped and expected. What we learned from Copenhagen, on the other hand, was invaluable: namely that if we

want to solve climate problems it isn't enough to leave it up to political leaders and countries, because without support from towns and mayors, industry and business leaders, researchers and the population, it simply isn't possible, said one of the speakers, Jesper Nygård from Realdania.

Professor Dr. Günther Bachmann, an advisor to the German government on questions of climate and sustainable development, agreed.

- Political leaders can shoulder the burden to a certain extent. But they should also be pushed by the population and their voters, he said during a panel discussion.

One of the main conclusions reached at the Climate Conference was that if we are to leave the planet to our children with good conscience it demands action from all participants in society, great and small. If we do not take action now, according to the latest scientific prognoses, we can look forward to a human-created temperature increase of four degrees celsius by 2100. The consequences will be catastrophic.

We can still make it

Although future climate predictions are gloomy, there is a small light in the darkness. Although we are all in the same boat, like Titanic heading for the iceberg, we can still change the course of catastrophe. The necessary technology already exists, according to the CEO of Clean Cluster Denmark, Carsten Orth Gaarn-Larsen:

- It is imperative that we reduce our energy consumption by 50%. But it IS possible. We already have the technology to optimise buildings and industrial processes, and that's why a conference like '100% Climate Neutrality' is so important. We have to share the technology and the knowledge we each have.

Danfoss, which was also represented at the conference, could provide examples of how supermarkets can save a great deal of money and an immense amount of energy by using surplus heat.

Per Christensen, President of Denmark's largest trade union, 3F, added to this that there are actually gains to be made by optimising industrial processes and modernising houses, in terms of both economy and jobs. In this way 3F has managed to generate over 5,000 workplaces by virtue of green jobs.

Go home and keep working

It is now up to all of the conference's arrangers and participants to continue working on the analyses and the conclusion drawn during the three intense days of the '100% Climate Neutrality' conference.

- At the Mads Clausen Institute, we are well aware of societal problems, not least climate change. We see it as part of our responsibility to invent the technological solutions that will make a difference to daily life, both regionally

and globally. We will continue to work hard on this, said Horst-Günter Rubahn, Head of the Mads Clausen Institute.

The Mads Clausen Institute researches in areas such as organic solar panels, which have the potential to create a revolution in solar energy as they can compete on price with oil and natural gas.

'100% Climate Neutrality' will be held in Sønderborg again in two years - and probably also next year in Flensburg with the title '100% Renewable Energy'.

Klimakonference nåede frem til vigtige konklusioner

'100 % Climate Neutrality' på Alsion tiltrak over 400 deltagere fra hele Europa. Deltagerne blev oplyst om den seneste forskning inden for vedvarende energi, ligesom det blev gjort klart, at regeringer og lande ikke kan løse klimaudfordringerne alene – de har brug for opbakning fra civile, industri, byer og kommuner.

- Det handler om, hvilken verden vi efterlader til vore børn. Der skal handles nu! Jeg nægter at leve i en verden af ignoranter, som ikke tager klimaudfordringerne seriøst. Jeg er ligeglad med, hvor ignoranterne kommer fra eller hvilket land de er præsident for!

Der blev talt med store bogstaver, da rektor for SDU Henrik Dam gik på scenen og bød velkommen til denne uges klimakonference på Alsion i Sønderborg. Konferencen var foruden SDUs Mads Clausen Institut i Sønderborg arrangeret af Hochschule Flensburg, Europa-Universität Flensburg, ProjectZero, Klimapakt Flensburg, CLEAN og Sønderborg Vækstråd. Målet med konferencen var at udveksle viden om, hvordan man arbejder mest effektivt hen mod 100 procent klimaneutralitet på dansk grund – og i hele verden.

Sønderborgs borgmester, Erik Lauritzen, lod i sin velkomsttale forstå, at kommunen sammen med ProjectZero allerede har taget de første, vigtige skridt. I kraft af et stærkt samarbejde med lokale aktører, har Sønderborg formået at nedskære kommunens CO₂-udledning med 35% siden 2007.

- Næste milepæl er at nå en reducere på 50 % inden 2020, lød det fra borgmesteren.

Hvis ikke blot dette mål men også FN's klimamål fra Paris-aftalen i 2015 skal nås, kræver det handling nu, som SDUs rektor sagde fra talerstolen. Han fik opbakning fra præsidenten for Europa-Universität Flensburg, Werner Reinhart.

- Forskerne bliver nødt til at klatre ned fra deres elfenbenstårn og lade deres stemme blive hørt i den offentlige debat.

Alle må handle

Det er dog ikke kun forskernes ansvar at redde vor jord. Kloden smelter bogstaveligt talt omkring os, og de fremmeste videnskabsmænd på klimaområdet anser det for usandsynligt, at vi kan holde os under en temperaturstigning under to grader frem mod år 2100. Derfor kræver det også øjeblikkelig handling fra industri, byer, kommuner, samt dig og mig.

- Mange siger, at klimatopmødet i København var en stor fiasko. Og selvfølgelig var det en fiasko i den forstand, at de mål, som blev stillet op, hverken var ambitiøse nok eller levede op til, hvad vi havde håbet og forventet. De erfaringer vi gjorde os i København var imidlertid alligevel uvurderlige; nemlig, at hvis vi ønsker at løse klimaudfordringerne, så er det ikke nok at overlade det til statsledere og nationer, for uden opbakning fra byer og borgmestere, industrien og virksomhedsledere, forskere og befolkningen, er det ikke muligt, lød det fra én af oplægsholderne, Jesper Nygård fra Realdania.

Professor Dr. Güther Bachmann, som er rådgiver for den tyske regering i spørgsmål om klima og bæredygtig udvikling var enig.

- Statsledere kan trække læsset i et vist omfang. Men de skal også skubbes af befolkningen og deres vælgere, sagde han i en paneldiskussion.

Én af hovedkonklusionerne fra klimakonferencen var således, at hvis vi skal efterlade os en jord, som vi kan være bekendt over for vore børn, kræver det handling fra alle aktører i samfundet, store som små. Hvis vi

ikke handler nu, siger de seneste, videnskabelige prognoser, at vi kan regne med en menneskeskabt temperaturstigning på fire grader celsius inden 2100. Det vil få katastrofale følger.

Vi kan nå det endnu

Selvom fremtidsudsigterne er dystre på klimafronten, så er der et lille lys i mørket. For selvom vi alle sidder i samme båd, som et Titanic på vej mod isbjerget, kan vi stadig nå at ændre katastrofekursen. Den nødvendige teknologi findes nemlig allerede derude, kunne direktør for Clean Cluster Denmark, Carsten Orth Gaarn-Larsen, fortælle:

- Det er bydende nødvendigt, at vi reducerer vort energiforbrug med 50 procent. Men det ER muligt. Vi har allerede teknologien til at optimere bygninger og industrielle processer. Derfor er en konference som '100 % Climate Neutrality' også så vigtig. Vi skal dele den viden og de teknologier, vi hver især ligger inde med.

Danfoss, som også var repræsenteret på konferencen, kunne i den sammenhæng fremvise eksempler på, hvordan supermarkeder kan spare både mange penge og en umådelig mængde energi ved hjælp af overskudsvarme.

Forbundsformand for Danmarks største fagforening 3F, Per Christensen, kunne supplere med, at der rent faktisk er store gevinster at hente i at optimere industrielle processer og at modernisere huse, både i form af økonomi og i form af arbejdspladser. 3F har således formået at generere over 5.000 arbejdspladser i kraft af grønne jobs.

Hjem og arbejde videre

Det er nu op til alle konferencens arrangører og deltagere at arbejde videre med de analyser og den konklusion, der blev draget i løbet af de tre intense dage, som '100 % Climate Neutrality' varede.

- På Mads Clausen Instituttet er vi meget bevidste om samfundsmæssige udfordringer, heriblandt ikke mindst klimaudfordringerne. Vi ser det som en del af vort ansvar at opfinde de tekniske løsninger, som gør en forskel i dagligdagen både regionalt og globalt. Det vil vi fortsat arbejde hårdt for, sagde Horst-Günter Rubahn, leder af Mads Clausen Instituttet.

Mads Clausen Instituttet forsker blandt andet i organiske solceller, som har potentiale til at skabe en omvæltning inden for solenergi, da de kan konkurrere med prisen på olie og naturgas.

'100 % Climate Neutrality' bliver afholdt igen i Sønderborg om to år – og sandsynligvis også allerede næste år i Flensborg med titlen '100% Renewable Energy'.