

> EXHIBITION

NEW 4.0 – DIGITAL EXHIBIT OF THE NEW 4.0 MODEL REGION

VENUE: Expo WindEnergy Hamburg 2018, Messeplatz 1, 20357 Hamburg
Hall 4A, fair booth A4.300

NEW 4.0 draws attention with a two and a half year lasting roadshow that also makes a stop at WindEnergy Hamburg. The focus is on the digital exhibit: It shows the North German model region of NEW 4.0 at an impressive size of 4 x 2 meters. It invites visitors with the help of augmented reality screens to playfully explore the challenges of the switch to a climate friendly energy supply.

Visit our NEW 4.0 digital exhibit at fair booth A4.300!



> PARTY

THE CLUSTER RENEWABLE ENERGY HAMBURG,
NEW 4.0 AND THE CC4E INVITE YOU TO OUR
PARTY AT THE FAIR BOOTH A4.301 IN HALL A4

27TH SEPTEMBER AT 5 PM

NEW 4.0
Norddeutsche EnergieWende



Gefördert durch:



aufgrund eines Beschlusses
des Deutschen Bundestages

**RENEWABLE
ENERGY
HAMBURG**
ENERGIESYSTEME
DER ZUKUNFT



NEW 4.0 – PROJECTS
FOR THE ENERGY SYSTEM
OF THE FUTURE

EXPO

WindEnergy Hamburg
25–28 September 2018

Visit NEW 4.0 at the Innovation Corner
at booth A4.300 in Hall A4.

NEW 4.0
Norddeutsche EnergieWende

NEW 4.0 – PROJECTS FOR THE ENERGY SYSTEM OF THE FUTURE

VENUE: Expo WindEnergy Hamburg 2018
Hall 4, A4.301, fair booth of the Cluster Renewable Energy
Hamburg

NEW 4.0 (North German Energy Transition) is a unique innovation alliance of enterprises, associations, industry, scientists and politicians that has emerged in Hamburg and Schleswig-Holstein in 2017. The major cross-regional project intends to show how the region as a whole, with 4.5 million inhabitants, can be solely supplied with regenerative power – 100% safely and reliably – as early as 2035. NEW 4.0 serves as a »blue- print« for the german energy transition and is funded by the Federal Ministry for Economic Affairs and Energy (BMWi). 100 projects and approximately 60 partners in the region combine all the necessary expertise and problem-solving potential to advance the energy transition in the north decisively.

Visit NEW 4.0 at the Innovation Corner at booth A4.301 in hall A4.

You can meet NEW 4.0, the Hamburg University of Applied Sciences (HAW Hamburg) with the Competence Centre for Energy (CC4E) and the Fraunhofer Institute for Silicon Technology (ISIT). Here you can explore a wind turbine from the top – dizziness cannot be ruled out.

> EVENT AT WINDENERGY EXPO

**NEW 4.0: Update for our Energy System –
Windenergy, Digitalisation and Sector Coupling**

VENUE: Expo WindEnergy Hamburg 2018, Hall A4, Room Osaka

TIME: Thursday, 27th September 2018, 10 a.m. to 12 a.m.

OPENING REMARKS AND WELCOME SPEECH:

Professor Werner Beba, Project Coordinator NEW 4.0
tba., Federal Ministry for Economic Affairs and Energy

SPEAKER:

Dr Clemens Gerbaulet, Schleswig-Holstein Netz AG
Juliane Weber, TenneT TSO GmbH
Sebastian Gellert, ArcelorMittal Hamburg GmbH
Tim Brandt, Wind to Gas Energy GmbH GmbH & Co. KG
Samuel Wiktor, Siemens Gamesa Renewable Energy GmbH & Co. KG
Dr Martin Grundmann, ARGE Netz GmbH & Co. KG

Moderated by **Jan Rispens**, Managing Director Renewable Energy Hamburg

We want to introduce our cross-regional project NEW 4.0 and serve detailed information and practical examples from different sectors. The workshop will end with a short matchmaking session and a light lunch.

> EVENT AT WINDEUROPE CONFERENCE

NEW 4.0: a blueprint for electrification and sector coupling

VENUE: Expo WindEnergy Hamburg 2018, Room Bilbao

TIME: Tuesday, 25th September 2018, 1:45 p.m. to 2:45 p.m.

INTRODUCTION:

NEW 4.0 – Project Idea & Future Energy System Services
Professor Werner Beba, Project Coordinator NEW 4.0

SECTOR COUPLING APPROACHES IN NEW 4.0:

Dr Clemens Gerbaulet, HanseWerkAG/Schleswig-Holstein Netz AG
Marko Bartelsen, Energie des Nordens GmbH & Co. KG
Pieter Wasmuth, Vattenfall Wärme Hamburg GmbH
Matthias Dechent, TRIMET Aluminium SE

NEW 4.0 pursues a dual strategy: increasing power exports to other regions while increasing the energy self-consumption ratio. Here, the particular focus lies on flexibilising power consumption in completely new dimensions and, in contrast to the previous system, on adapting the consumption to the generation. This means converting surplus, renewably generated power into other energy forms, such as heat or hydrogen for example (sector coupling). This will make a more flexible and resilient renewables-based energy system possible.