

WHAT IS NTNU ENERGY TRANSITION?



WHEN?

In 2014 the Rector at NTNU initiated a dialogue with major industrial companies in Norway, with the purpose of establishing and financing new world leading research groups at NTNU which could deliver research at the highest international standard. Following from this, Equinor and NTNU agreed in 2015 to develop such a research group on energy transition strategies, which they named NTNU Energy Transition Initiative (NETI).

WHY?

The energy transition ahead of us is vital for a sustainable future. NTNU Energy Transition Initiative was established to deliver world leading research on energy transition strategies to achieve the Paris ambitions in an efficient and realistic way. The Initiative shall give knowledge-based advice to corporate and governmental decision makers on how to transform the energy system to support transition to a sustainable society.

As the whole energy system is changing, we believe that an interdisciplinary approach to the transition is key, including industry, economy, technology, social science and the role of the consumer, among others.

WHAT?

MISSION STATEMENT

The NTNU Energy Transition Initiative is a research portfolio on the future energy mix, and energy systems transition with knowledge-based contributions to societal debate. We aim to be trusted advisors to Norwegian and European decision makers in their pursuit of achieving the goals of the Paris Agreement.

CORE VALUES

OPEN

- to new science
- to new people
- to new technologies
- to change
- for feedback

CONSTRUCTIVE

- solution-oriented
- technology-neutral
- multidisciplinary
- effective
- valuable

OBJECTIVES

NTNU Energy Transition Initiative aims to:

- be a research and fact base for decision makers and policy
- participate and help define public debate
- create dialogue between academia, policy, industry and government
- be visible to the Norwegian and European public

TARGET AUDIENCE

PRIMARY

POLICY



ACADEMIA



INDUSTRY AND
GOVERNMENT



SECONDARY

The Norwegian and European public

NTNU ENERGY TRANSITION



RESEARCH AREAS

Energy supply &
energy systems

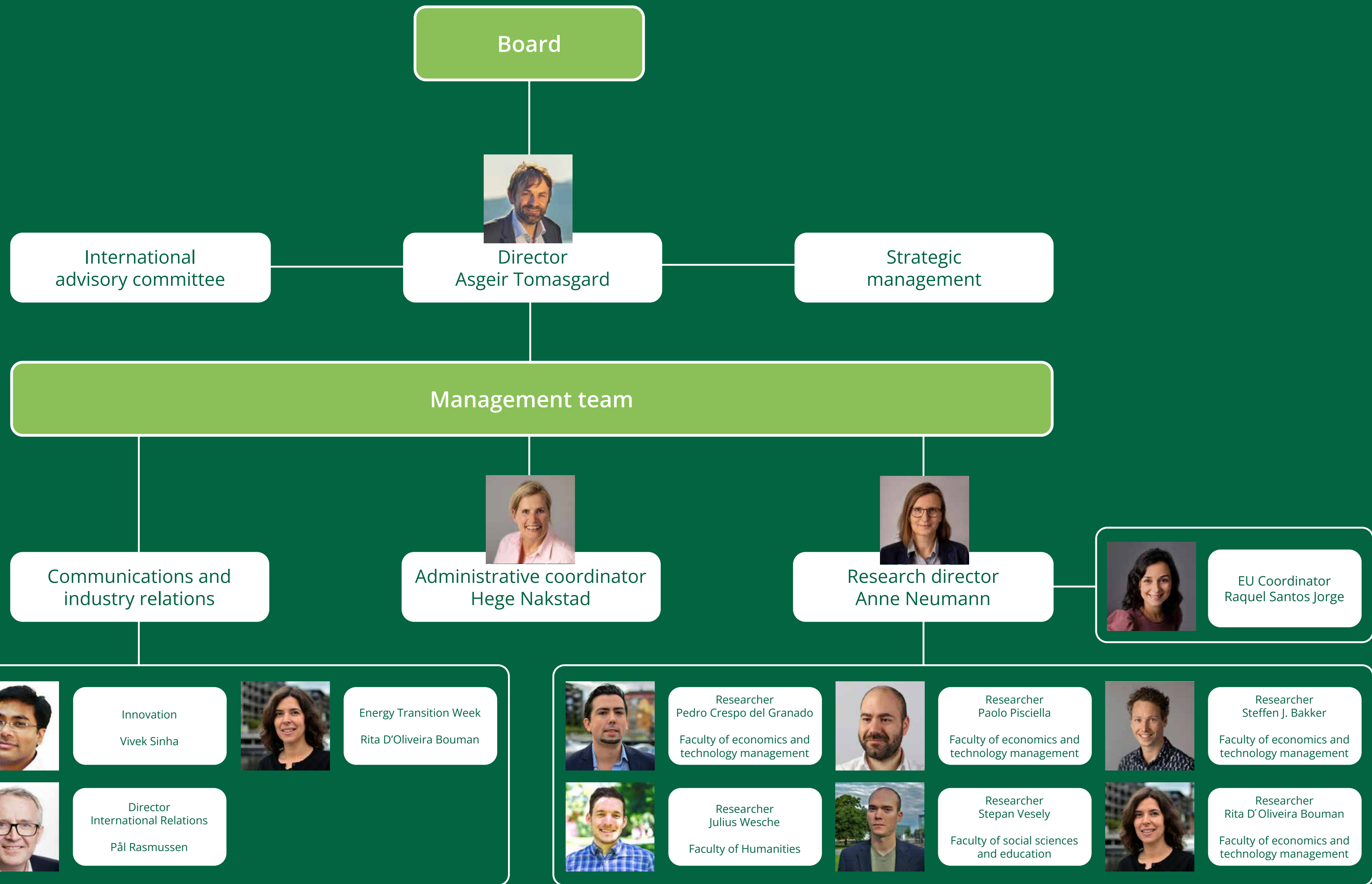
Innovation &
entrepreneurship

Sustainable
transition

Consumers &
markets

Sectoral demand &
sector coupling

WHO?



**Professor
Anne Neumann**
Regulation, industrial
organization and energy
markets

**Professor
Magnus Korpås**
Integration of renewable
energy in the energy system

**Professor
Marianne Ryghaug**
Interface between public
participation, innovation and
technology development,
energy and climate policy

**Professor
Arild Gustavsen**
Smart cities, zero emission
neighbourhoods and
buildings

**Professor
Ann Mari Svensson**
Batteries and storage

STRATEGIC MANAGEMENT

**Professor
Ruud Egging-
Bratseth**
Energy systems, markets
and infrastructure

**Professor
Asgeir Tomasgard**
NTNU Energy Transition
Initiative Director

**Professor
Stein-Erik Fleten**
Power markets and
renewable energy

Research interests

**Professor
Christian Klöckner**
Social innovation and
sustainability

**Professor
Anders Hammer
Strømman**
Industrial Ecology and life
cycle assessment

**Professor
Roger Sørheim**
Innovation

**Professor
Terese Løvås**
Gasification, alternative fuels
and thermodynamics

BOARD

The Director of the NTNU Energy Transition Initiative reports to the board.

The board shall:

- ensure that the activities in the work plan are completed within the defined period
- monitor the implementation of NTNU Energy Transition Initiative as well as the deliverables
- assess the compliance with the work plan and communication plan
- act as a discussion partner for the Director on strategic choices
- approve major changes to the work plan and communication plan
- guide the management team in revisions of the work plan and communication plan

The NTNU Energy Transition Initiative board consists of:

- **Johan E. Hustad**, Chair, Director NTNU Energy
- **Tor Ulleberg**, Deputy Chair, Equinor
- **Ane Torvanger Brunvoll**, NVE
- **Marie Bysveen**, Sintef Energy
- **Sverre Gotaas**, Herøya Industripark as
- **Bjørn Holsen**, Statkraft
- **Alfred Skår Hansen**, Gassco
- **Jan Fredrik Stadaas**, Equinor
- **Pål Kristian Moen**, Statkraft

INTERNATIONAL ADVISORY BOARD

- **Jae Edmonds**, PNNL
- **Nick Eyre**, University of Oxford
- **Carolyn Fischer**, Resources for the Future
- **Steven Gabriel**, University of Maryland & NTNU
- **Richard Green**, Imperial College
- **Christian von Hirschhausen**, TU Berlin
- **Franziska Holz**, DIW Berlin & NTNU
- **Volker Krey**, IIASA & NTNU
- **Mark O'Malley**, NREL
- **Reinhard Madlener**, RWTH Aachen University & NTNU
- **Henrik Madsen**, NTNU
- **David Newbery**, University of Cambridge
- **Sergey Paltsev**, MIT
- **Michael Pollit**, University of Cambridge
- **Frank O'Sullivan**, MIT

INTERNATIONAL NETWORK



INTERNATIONAL ADJUNCT PROFESSORS

International adjunct professors to facilitate the cooperation between NTNU Energy Transition Initiative and the international institutions



Dr. Franziska Holz,
DIW Berlin & NTNU



Dr. Reinhard Madlener,
RWTH Aachen
University & NTNU



Dr. Steven A. Gabriel,
University of
Maryland & NTNU



Dr. Volker Krey,
IIASA & NTNU

HOW?

ENERGY TRANSITION WEEK

The Energy Transition Week is a key meeting point to facilitate dialogue and debate challenges and solution for the transition to a future sustainable energy system. It is a yearly event hosted from Trondheim, gathering international speakers, expert panelists and more than 1000 attendees from policy makers, government, industry and academia. It includes the Energy Transition Conference, the Trondheim Tech Port Conference and a series of workshops.

WORKSHOPS

Every year NTNU Energy Transition Initiative organizes workshops with Norwegian and international academic and industry experts. This is an important arena for dialogue and research dissemination.

POLICY BRIEFS AND REPORTS

Based on ongoing and completed research, NTNU Energy Transition Initiative develops policy briefs and reports on important research and political issues, in collaboration with research institutions and industry partners.

OTHER

Additionally, activities are distributed through a podcast series, publications, social media, newsletters and external media outlets. Visit ntnu.edu/energytransition/ for more information.