

Workshop on Distributed Energy Management Systems, Washington DC, April 20, 2015

Review Process and Funding Modalities,
Trygve U. Riis, The Research Council of Norway

ENERGIX

Energy policy, society and economics

Renewable energy

- Hydropower
- Wind and marine energy
- Solar energy
- Bioenergy

The energy system

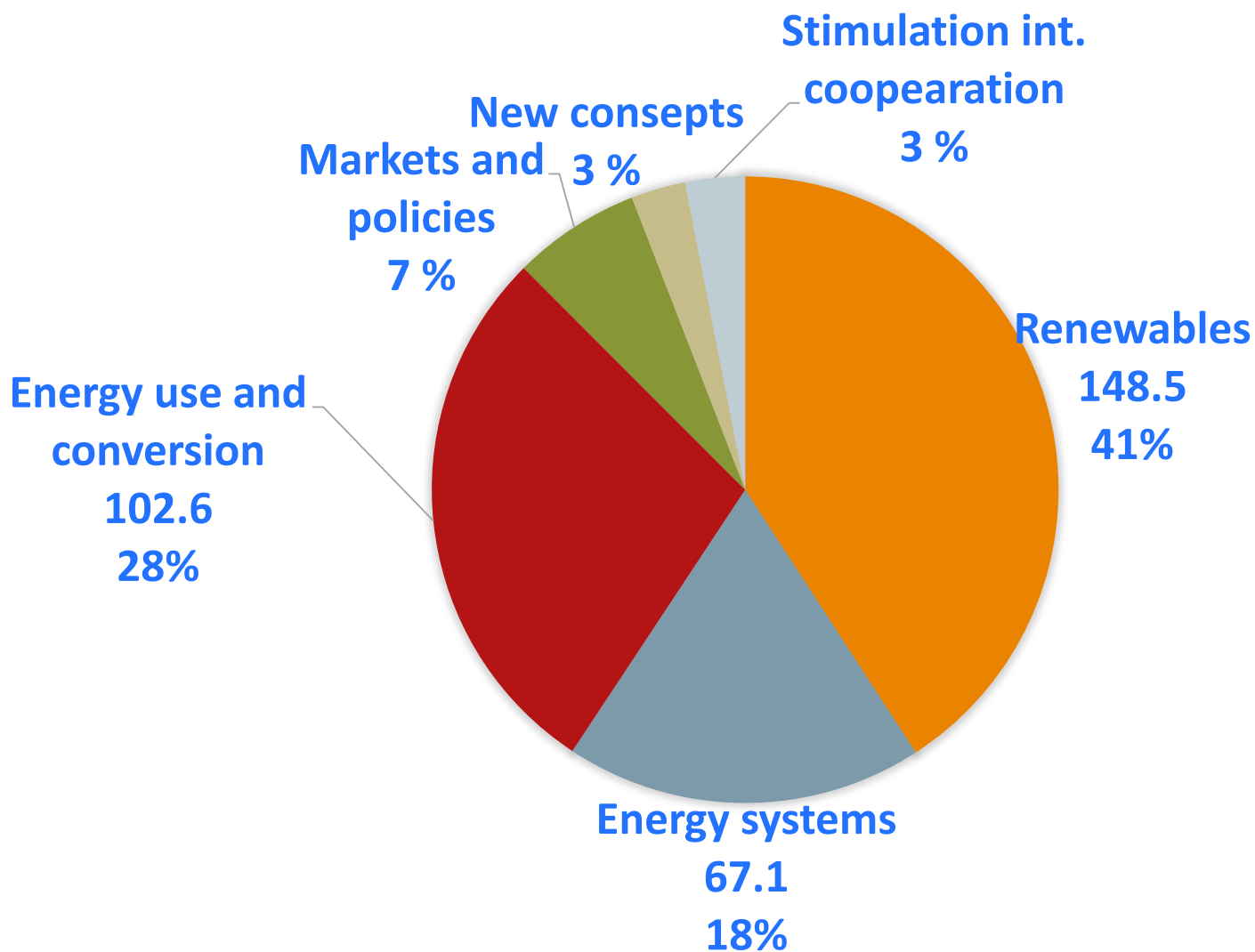
- Integration
- Balancing services and storage
- Smart grid and components

Energy use and conversion

- Buildings
- Industry
- Hydrogen
- Biofuels
- Batteries

New energy concepts

Portfolio ENERGI – 2014 [total 364 MNOK]



ENERGIX: Support to R&D in the innovation chain



Researcher projects

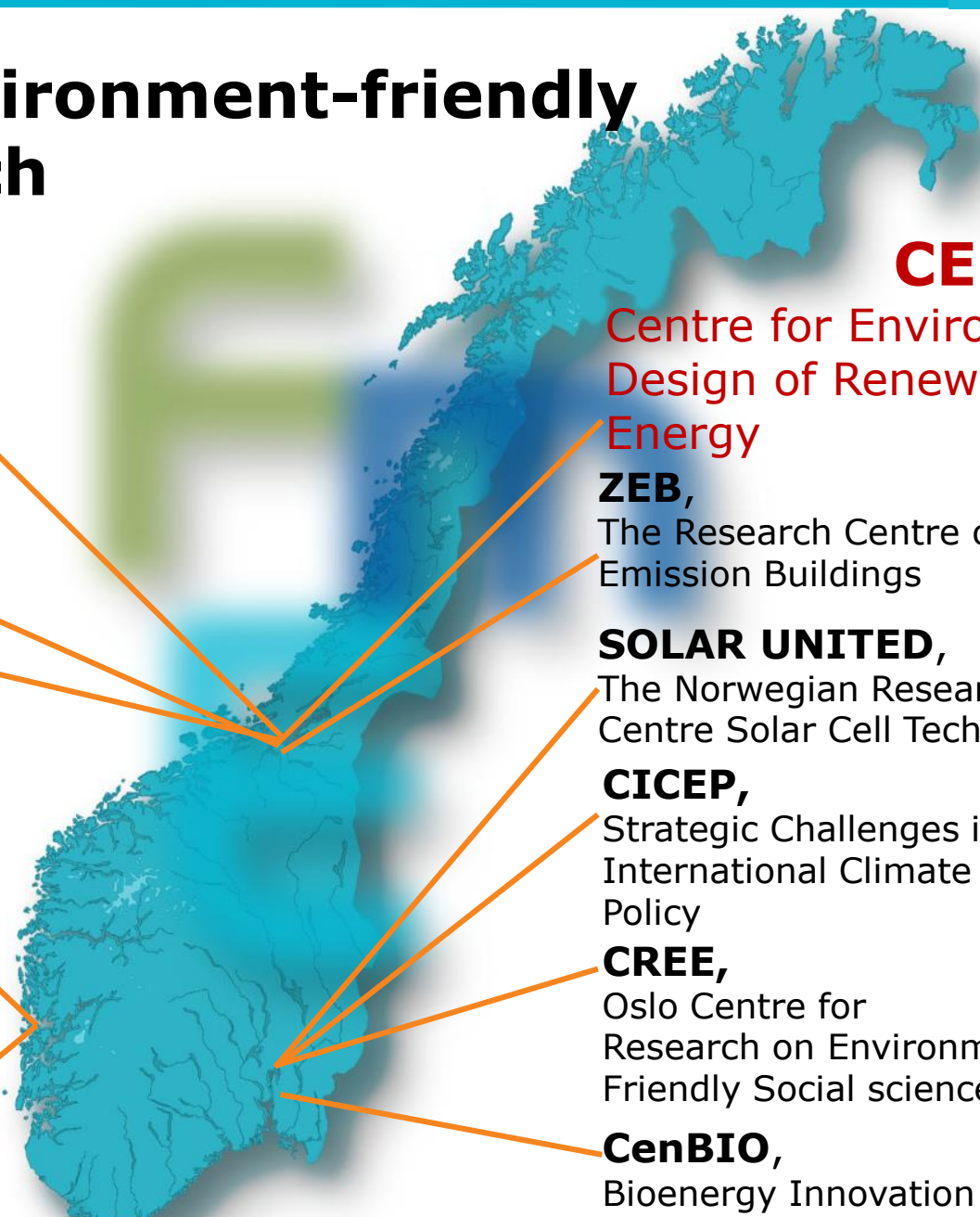


Competence projects



Innovation projects

Centers for Environment-friendly Energy Research



CEDREN,

Centre for Environmental
Design of Renewable
Energy

ZEB,

The Research Centre on Zero
Emission Buildings

SOLAR UNITED,

The Norwegian Research
Centre Solar Cell Technology

CICEP,

Strategic Challenges in
International Climate and Energy
Policy

CREE,

Oslo Centre for
Research on Environmentally
Friendly Social science

CenBIO,

Bioenergy Innovation Centre

BIGCCS,

International CCS Research
Centre

NOWITECH,

Research Centre for
Offshore Wind Technology

CENSES,

Centre for sustainable
Energy Studies

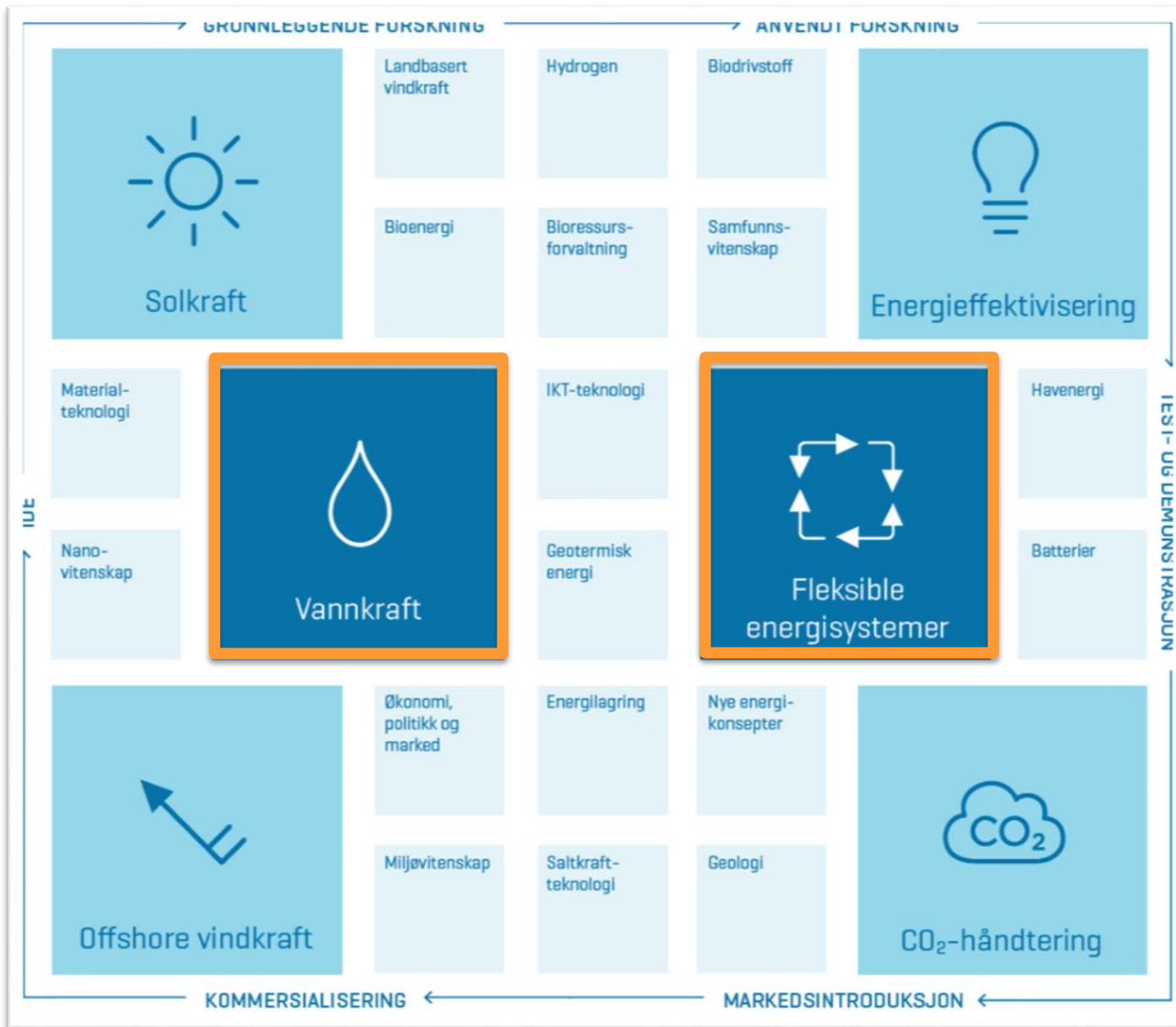
NORCOWE,

Norwegian Centre for
Offshore Wind Energy

SUCCESS,

Norwegian Centre for
Subsurface CO₂ storage

ENERGI21 - Recommended areas of priority



- 6 main areas of priority

- 2 areas that need special attention

- Important with solid bases on other areas

The energy system

- **Integration:**
- Systems understanding and integration between various energy carriers and the European energy grids
- **Balancing services and storage:**
- Accommodate a growing proportion of less reliable Norwegian and international power production
- **Smart grids and components:**
- Ensure high security of supply and environmental standards, and improve user-friendliness and potential for efficient operations and development





JST and RCN collaboration



- RCN invited by JST to participate in the workshop and identify collaborative projects
- JST is planning to give additional support to existing projects for establishing international collaboration
- Norway has a portefeuille of more than 20 projects in the «Energy System area», and at least 10 are candidates for such collaboration
- ENEGIX program board has allocated up to approx. 300 000 USD annually for 3 years to international collaborative activities

Follow up of this Workshop – Call for proposals

- JST and and RCN will discuss next step under Energy Science Week in Tokyo, May 26, 27, 28
- Selected projects will be invited to apply for additional funding for collaboration with CREST EMS projects
- Possible related collaboration with US and Germany should be investigated
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