



Research infrastructure enabling excellence in research

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The Research Council of Norway



- The National Funding scheme for infrastructure
- The Road map for Research Infrastructures
- The RCN Centre schemes and Research infrastructure

The Research Council of Norway – a key player in Norwegian research

- Covers all science and technology fields
- Budget of 8 billion NOK
- Research funding
- Adviser to the government
- Networking and dissemination
- International cooperation

The National Funding Scheme for Research Infrastructures (Ris)

The objective of the scheme is:

“to provide researchers with the equipment they need in order to perform high quality science and efficiently meet the needs of the business sector for high-calibre research.

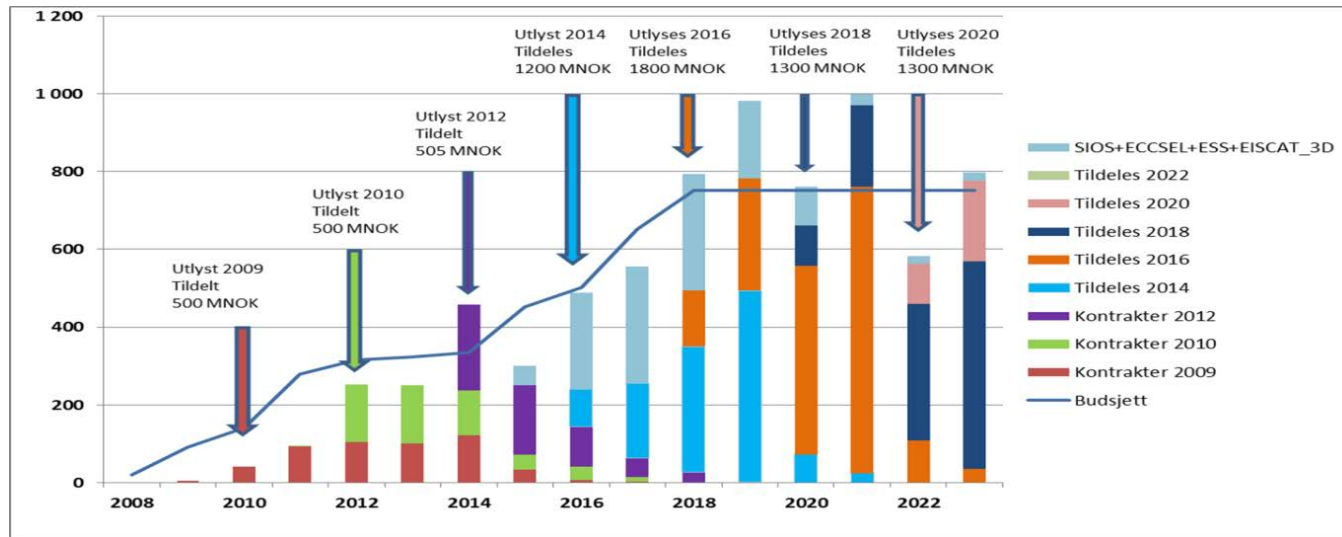
In addition, the initiative aims to enhance the Norwegian research community’s international reputation as a provider of outstanding research infrastructure.”



The National Funding Scheme for Research Infrastructures (Ris)

- A separate item in the national budget, with an allocation of 485 MNOK in 2016
- Four open calls in 2009, 2010, 2012 and 2014
- 2,9 billion NOK has so far been allocated to 115 infrastructure projects

Deadline
2016-call:
October 12th



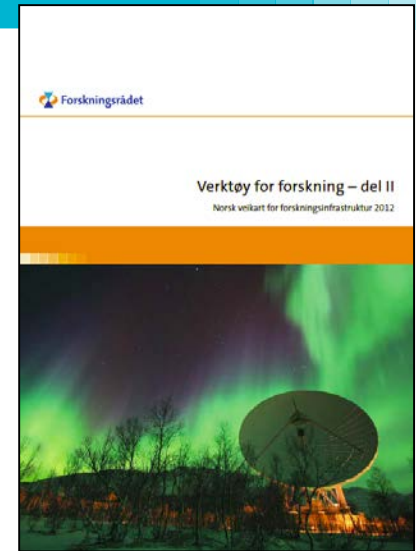
Evaluation process

- Open call and projects selection is based on
 - *scientific criteria (evaluated by international experts)*
 - *strategic criteria (evaluated by the RCN administration)*
- The assessment of grant proposals leads to
 - *selection of projects for funding*
 - *selection of projects for inclusion on the Norwegian Roadmap for Ris*



Norwegian Roadmap for RIs

- The roadmap is to present large-scale projects in which the RCN recommends investing
- Selection is based on stringent criteria:
 - the infrastructures must be *nationally-oriented*
 - the proposal has been assessed as outstanding, both in terms of *scientific quality* and *strategic orientation*
- Includes projects on the ESFRI Roadmap in which Norway has entered into agreements or has clearly signalled its desire to participate



Energy projects on the roadmap



ECCSEL – European Carbon Dioxide Capture and Storage Laboratory

ESFRI project, coordinated by
NTNU,

RCN funding 200 MNOK



Norwegian Zero Emission Building Laboratory

RCN- funding 63 MNOK
2015



National Smart Grid Laboratory

RCN funding 28,6 MNOK
2013



Norwegian laboratory for silicon-based solar cell technology

RCN funding 30 MNOK
2015



Norwegian Biorefinery Laboratory

RCN funding 37,5
MNOK
2013



Norwegian Fuel Cell and Hydrogen Centre

RCN funding 26 MNOK
2015



The Offshore Boundary Layer Observatory (OBLO)

RCN funding 21MNOK
2013

The research infrastructure itself,
will not give excellent research,
..... but excellent infrastructure in
combination with excellent
scientists will lay a foundation for
excellent research.



Centre schemes

Funding of time-limited research centres characterized by long-term research efforts of a high quality. Researcher training is an important aspect. Innovation-oriented centres (SFI and FME) have both research partners and industrial partners.



The Centres of Excellence scheme (SFF)

21 centres dedicated to long-term, basic research aimed at enhancing the quality of research.



The Centres for Research-based Innovation scheme (SFI)

24 research groups working in close alliances with innovative enterprises.



The Centres for Environment-friendly Energy Research scheme (FME)

11 centres which conduct concentrated, focused and long-term research in order to solve specific challenges in this field.

The FME scheme – objectives

The overall objectives of the FME scheme is to

- help to solve key challenges in the energy sector,
- generate solutions for the low-emission society and
- enhance the innovation capacity of the business sector.

Through:

- Long-term R&D-activity in close collaboration between research institutions, industrial companies and other user-groups.



Centres for Environment-friendly Energy Research (FME)

- 2009 – 2017:
 - 8 centres - technical
 - Total annual RCN-funding 125 MNOK
- 2011 – 2019:
 - 3 centres within social sciences
 - Total annual RCN-funding 24 MNOK
- 2016/17 – 2024:
 - 8 centres - technical
 - Total annual RCN-funding 160 MNOK



Centre for intelligent electricity distribution – CINELDI

Centre for an Energy Efficient and Competitive Industry for the Future - HighEFF



Mobility Zero Emission Energy Systems MoZEES

Norwegian CCS Research Centre NCCS



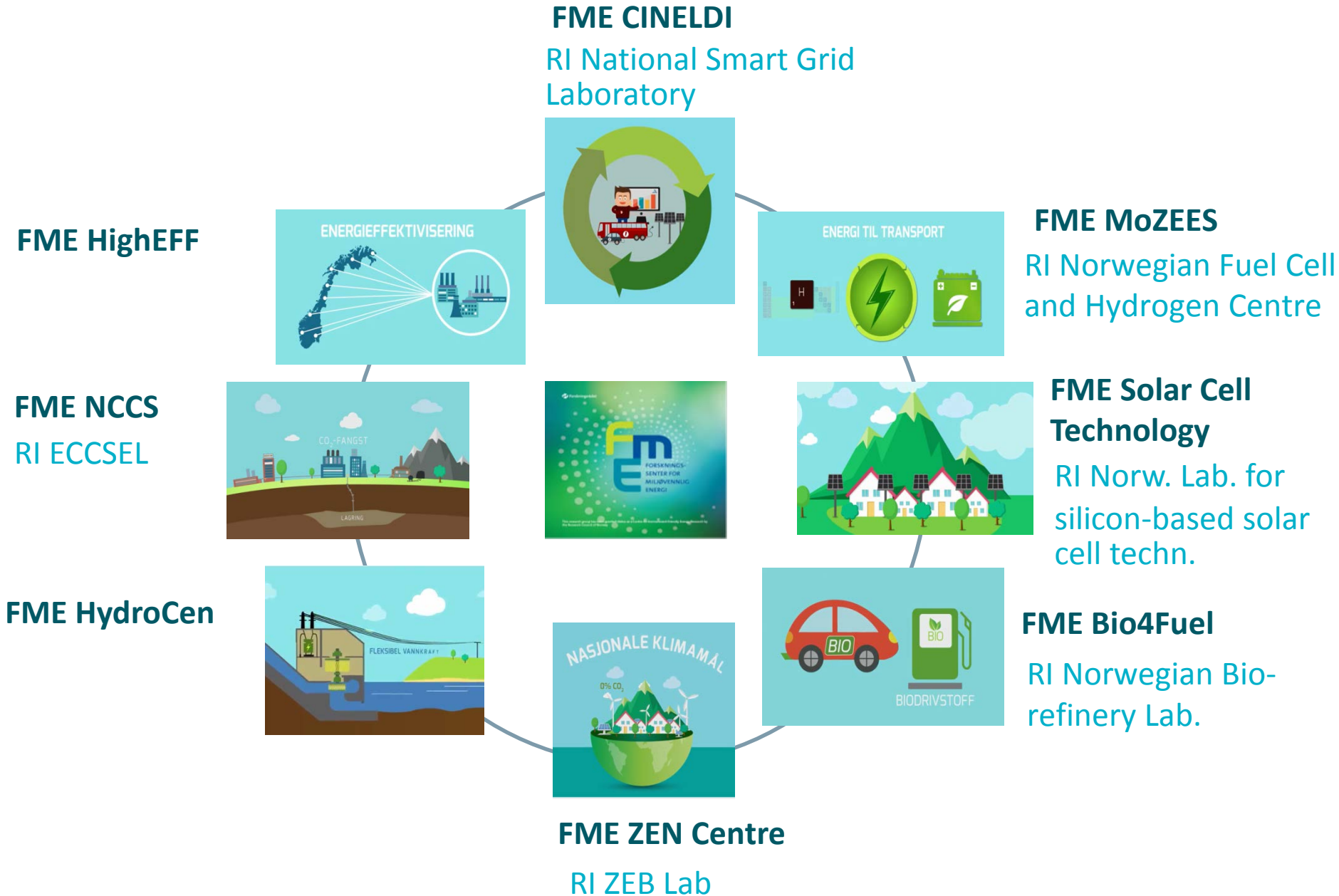
Research Centre for Sustainable Solar Cell Technology

Norwegian Research Centre for Hydropower Technology HydroCen



Norwegian Centre for Sustainable Bio-based Fuels and Energy Bio4Fuel

The Research Centre on Zero Energy Neighbourhoods in Smart Cities – ZEN Centre



CINELDI
Centre for intelligent electricity distribution
- to empower the future Smart Grid

+

National Smart Grid Laboratory



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Excellent research

of

Great value to industry and society at large!