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Innovation Strategies for Clean Energy Technologies

- The work of Swedish Energy Agency



The scene

- The climate change effect all societies one way or another.
- 70 % of the global GHG emissions are energy related (in Sweden 75 %).
- Urbanisation is fast 66 % of the global population will live in cities by 2050.
- "Electrification is coming" almost a billion people still lack electricity in their homes.





Energy Policy Targets for Sweden





Research, Innovation and "making a difference"

The SEA has:

- Annual budget app. 160 million €
- Equal amount of industrial co-funding (tot. 320 m€)
- ~ 90 programmes and 1200 projects running
- Scientific advice boards, systematic evaluation and long term governing thematic strategies
- Closed the gaps from basic research to demonstration, implementation and commercialisation
- Increased cooperation/co-creation with others



Business developement for Swedish innovations on international market (Support operations)



Market launch (Max EUR 100')

Industrial verification and commersialisation Incl. pre-commersial demo (On average EUR 700')

Verification with customer (Max EUR 200')





Our "Energy Transition Portfolio"

Some numbers:

- 181 companies in the portfolio
- Total investment app. 97 m€, co-investment app. 1,1
 billion€
- 23 companies market listed with a value of 1,5 billion€
- 50 of the innovations estimated having potential to reduce 14 times Sweden's total CO2 emissions (according to the quantitative methodology in the Avoided Emission Framework under MI).







Smar

Energy

- Enhance multinational cooperation between public funders, business development, commercialisation and innovation procurement, with a focus on investors and enablers
- Global platforms for public R&D MI call pilot 2019 by ERA-NET SES
- Develop joint dynamic frameworks e.g.
 Avoided Emission Frameworks to help guide the transition to a 1.5° C Compatible Solution Framework
- Multinational Soft-landing programs



Our international accelerator programs

- India Sweden Innovation accelerator
- Cleantech Hub China
- Cleantech Hub Great Britan
- Cleantech Hubs US (NY & SF)
- German Swedish Cleantech Platform
- Business Accelerator programme Indonesia





The core Cs

Coming together is a beginning, staying together is progress and working together is success (*Henry Ford*)

• Courage



Thank you for the attention!

Energimyndigheten

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