Poland Luxembourg Business and Financial Forum

Regent Warsaw Hotel
08 May 2014



Warsaw





[2]

STREAM 2:

Presentation of the Luxembourg Clean Technologies Sector

Simone Polfer

Deputy Director for Clean technologies Ministry of Economy

Agenda



T T T T

- Luxembourg believes in clean technologies
- State Aid for Research, Development and Innovation
- Innovative materials
- Rational use of natural resources
- Luxembourg Cluster Initiative & Goals
- Incubators and business location for clean-tech

Luxembourg believes in Clean technologies



Luxembourg ranks 5th in the Innovation Union Scoreboard 2014 40% of R&D and investment projects that received co-financing were clean-tech projects

Luxembourg believes in R&D for clean technologies

Luxembourg is multilingual and has a multinational workforce

Luxembourg is a breeding ground for disruptive technologies and courageous innovations

Luxembourg has state-of-the-art IT and logistic infrastructures

State Aid for Research, Development and Innovation

Research & Development projects or programmes -> 25% to 80% of RDI costs Technical feasibility studies Protection of technical industrial property (first filing) Aid for young innovative enterprises -> 50% of financial needs up to 1 mio \in Innovation advisory services and innovation support services Temporary secondment of highly qualified personnel Process and organisational innovation in services Investment in innovation clusters and animation of innovation clusters De minimis" measures

Innovative materials



Fields covered

Technically and functionally performing materials

Materials displaying reduced environmental and sanitary impacts during their entire life cycle (economy of resources, energy, recycling, mastering of environmental and health hazards)

Innovative materials



[7]



New Advanced Materials Composite materials, conductive polymers, nano-materials

Bio-materials

Bio-sourced polymers, biodegradable materials, based on systems-biology research

Green Building

Insulating materials, steel and glass construction, timber, innovative cements

Intelligent Design

Cradle to cradle approach, life cycle analysis, CO_2 footprint reduction

Rational use of natural resources









Home System





Centre de Recherche Public

Gabriel Lippmann











Innovative gasification and combustion technologies Biomass to energy, biogas, biofuel, sewage sludge treatment

Sustainable mobility

ICT for sustainable mobility Electromobility (vehicles and infrastructures) Energy efficient propulsion systems

Energy storage and smart grid solutions

Innovative chemical and/or thermal long term storage

Smart grid solutions improving the rational use of energy

8

Innovative control systems for building applications Smart homes, Domotic

Rational use of natural resources

& ECRES









 LED technology (Light Emitting Diodes)

Highly efficient LED solutions for industrial applications

PV (Photovoltaics)

Thin film technologies and cost efficient PV cells

[9]

Water treatment

Innovative and cost efficient technologies for water treatment

 CHP (Combined Heat and Power production) Innovative CHP solutions (micro-CHP, fuel cells, heating pumps...)

Luxembourg Cluster Initiative



Goals of the Cluster Initiative 2014-2020





Focus of the Ecoinnovation Cluster

STRENGTHEN THE LUXEMBOURG

CLEAN-TECH SECTOR



Mobility



Circular Economy

Sustainable Cities & Smart Technologies



12

Two incubators are active in Luxembourg



13



business incubator | coworking | fab lab



 Technoport in Esch/Alzette Esch/Belval:
 IT / Internet Oriented



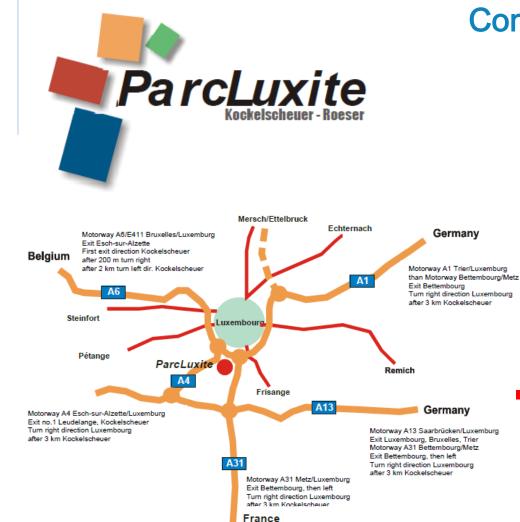
centre d'entreprise et d'innovation



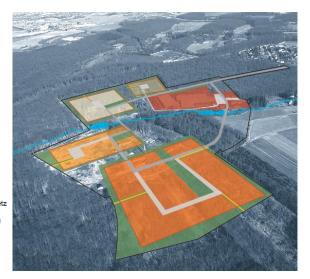
 Ecostart Innovation Centre in Foetz: Industry / Service Oriented

One interdisciplinary incubator planned – focus on biomedical sciences, but will also host ICT and cleantech companies that need wet labs

A public/private partnership for your new location in Luxembourg



Constructable land surface : 131.795 m2



14

 High-tech, clean- and biotechnology, R& D and services



THANK YOU FOR YOUR ATTENTION email : <u>Simone.Polfer@eco.etat.lu</u>