



**Northern Periphery and
Arctic Programme**
2014–2020



EUROPEAN UNION

Investing in your future
European Regional Development Fund



FREED

Funding Resources for Innovation
in Energy Enterprise Development

FREED e-mail bulletin No. 1, January 2017

Welcome to the first e-mail bulletin of the FREED project! The FREED supports SME's to realise their energy innovations and is funded under the EU Northern Periphery and Arctic Programme 2014 - 2020.

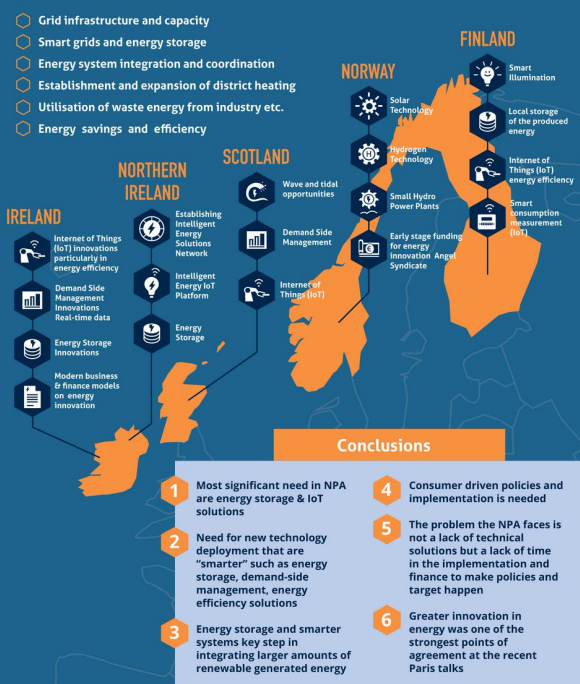


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What is FREED? Check our short
video [HERE](#)



Main areas for innovation & development in the NPA:



The FREED Innovate Energy 2016 Conference was held in Enniskillen, Northern Ireland, in December. Several companies presented their innovative energy technologies in this event. View presentations [HERE](#)



One of the main outcomes of the project during 2016 was the Energy innovation needs report. View full report [HERE](#)

FREED will issue a Tender (ITT) call in February 2017 to companies to provide solutions to meet regional energy innovation needs. Funding of 30,000 euro is available to support energy innovations in each region. More information about this is available on our [website](#)

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FREED e-mail bulletin No. 2, March 2018

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Every month one of the FREED supported Energy Technology Innovations will be presented in the e-bulletin!



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Two years of research and
innovation and one still left for
FREED Project.
Check out our last
Newsletter! [HERE](#)



In the frame of FREED Project,
Limerick Institute of Technology
supported the SOLO ENERGY's
FlexiGrid platform: an integrated
solar energy and storage system
solution.

Read about FREED
collaboration [HERE](#)

Read about Solo Energy Ltd [HERE](#)

Read about LIT [HERE](#)



Solo Energy innovative energy
system will be presented on 28th
March 2018 in Nenagh. Read the
report about the main milestones
achieved! [HERE](#)

FREED Partners will meet for their
IV Partners Meeting in Ireland at the
end of March 2018. Two site visits
will take place to see the innovative
energy solutions supported by
FREED Project in Ireland. Limerick
Institute of Technology and Western
Development Commission will
present their supported innovations
by Solo Energy in Nenagh and Pro
Air in Galway.

More information about this is
available on our [website](#)





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FREED e-mail bulletin No. 3, April 2018

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In the frame of FREED Project,
University of Oulu supported
GREENLED intelligent illumination
solution: a smart lighting system
based on wireless and flexible
control devices.

Read about FREED
collaboration [HERE](#)

Read about GREENLED OY [HERE](#)

Read about University of
Oulu [HERE](#)

GREENLED

GREENLED is a Finnish turnkey
lighting solution provider who
offers **Lighting as service concept**
covering planning, installation and
maintenance.

They installed their innovative
solution in Auditorium L8 at the
University of Oulu in 2017. Read the
report to discover more about
GREENLED technology! [HERE](#)



FREED Partners met for their VII
Partners Meeting in Ireland on 27-28
March 2018 to discuss project
progress and continue the
development of the FREED Service
Platform.

On 28 March 2018, the
functionalities of Solo Energy
storage system were presented
during a public seminar attended by
FREED Partners, TEA, CRES,
Dublin City County representatives
and others.

FREED Partners had also the
occasion to visit Pro Air innovative
heat pump in Galway supported by
WDC.

More information about it on the next
FREED e-bulletin No. 4!





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FREED e-mail bulletin No. 4, May 2018

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In the frame of FREED Project,
Western Development
Commission supported PROAIR
Indoor Climate Control
System: an air to air mini heat pump
able to revolutionise how houses are
heated and ventilated.
Read about FREED
collaboration [HERE](#)
Read about WDC [HERE](#)



ProAir Systems is an Irish based manufacturer of high quality Heat Recovery Ventilation units (HRV). They are developing an **innovative air to air heat pump, PAICCS (Proair Indoor Climate Control System)**, which leverages much higher than normal performance from an air to air plate exchanger. Its coefficient of performance is (greater than) >10, which is more than double its closest competing system.
Read about PROAIR [HERE](#)



During their VII Partners Meeting in Ireland on 27-28 March 2018, FREED Partners visited Proair and viewed the **PAICCS Prototype which has been successfully installed and commissioned in the ProAir facility.**

Independent measurements show significant benefits of the ProAir approach and would constitute a significant step forward in the technology readiness of the PAICCS prototype. Proair have also been developing PAICCS in other areas including a feasibility study which resulted in an **innovation partnership and funding from Enterprise Ireland**. This innovation partnership is to suitably upgrade the Galway Mayo Institute of Technology facilities to an international standard for taking ventilation and heating measurements. **The intention is to take the PAICCS from TRL (Technology Readiness Level) 5 to 7.**





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FREED e-mail bulletin No. 5, June 2018

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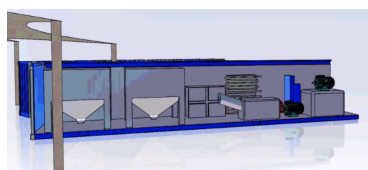


In the frame of FREED Project,
South West College supported
Organic Power Ireland Ltd – in the
integration of small scale Anaerobic
Digestion (AD) with energy storage
technology to increase the
practicable availability and usage of
on-site renewables.

Read about FREED

collaboration [HERE](#)

Read about SWC [HERE](#)



Organic Power is a player in the
Waste to Energy sector, based in
Northern Ireland. They are
developing an innovative small-scale
anaerobic digestion (SSAD) with an
electrical capacity of 20-80 kWe
CHP. The target market includes
farms and sites where specific
treatment of organic waste is
required.

Read about Organic Power [HERE](#)

INVITATION
FREED Project: Energy Innovations for SMEs
25th June 2018
Limerick Institute of Technology, Moylish campus

Limerick Institute of Technology is pleased to present a conference focused on **SMEs and energy innovations**.
Successful case studies of energy innovations in SMEs and existing finance supports will be presented and discussed with the audience.

Programme

- 8.30 - Registration
- 9.00 - Welcome and overview on FREED Project by Derek Blackweir (LIT)
- 9.15 - Case studies of Energy Innovations for SMEs
- 10.30 Coffee Break
- 11.00 Innovation Vouchers presented by Michael Dolan (Enterprise Ireland)
- 11.30 Business Angel/Venture capital presented by Tony Treacy (Irish Investor)
- 12.00 Tax relief in R&D presented by Denis Herlihy (RDO)

Venue for the event:
Limerick Institute of Technology
Moylish Park, Boardroom
Limerick V94 ECST

For further information:
Limerick Institute of Technology
carola.bosio@lit.ie
Tel. 0504.28128

Logos: WDC, South West College, FREED, Northern Periphery and Arctic Programme, European Union, LIT, University of Oulu

Next FREED event in June 2018:

**A conference about Energy Innovations
for SMEs will be held on 25th June**

2018: Limerick Institute of Technology will
organise an event to present successful
energy innovations case studies and to
discuss some financing opportunities
based on public and private funds.





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FREED e-mail bulletin No. 6, September 2018

Welcome to the sixth e-mail bulletin of the FREED project! FREED supports SME's to realise their energy innovations and is funded under the EU Northern Periphery and Arctic Programme 2014 - 2020.

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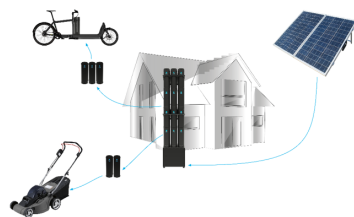


**ENERGY
TUBE**

In the frame of FREED Project, the **European Institute for Innovation** supported **Unicorn Engineering GmbH** in the development of multi-purpose scalable battery that can be integrated into a wide variety of applications.

**Read about FREED
collaboration [HERE](#)**

Read about Elfi [HERE](#)



Unicorn Engineering GmbH developed EnergyTube that is a universal, optional scalable battery system, its basing on IEC standards.

Due to its modularity it can be integrated in different applications using a voltage range 36V - 60V. The battery communicates via NFC its state of charge (SOC) and state of health (SOH).

**Read more about
EnergyTube [HERE](#)**



Next FREED event in October 2018!

The **Final FREED Conference** will be held on **16th-17th October 2018**: **South West College** will organise a public event at Crest Center in Enniskillen to retrace FREED experience in the last three years.

The case studies of all the innovative technologies supported by FREED Project will be presented together with the opportunities linked to the launch of the FREED Service Platform aiming at supporting energy innovations across 4 countries in the next years.

The FREED Partners will also have the chance to visit EnergyTube installation in Hillsborough and see demonstration of its functionalities.

**More information about the
event [HERE](#)**

