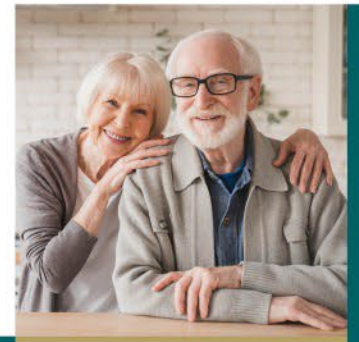
EirGrid

EirGrid.ie

Energy Citizens Roadshow

Limerick Strand Hotel, Limerick

22/ 04 / 2024



Home Energy Grants and Upgrades

Micro-generation and Community Ownership



Regional and Social Development



EirGrid

22/04/2024

EirGrid Energy Citizens Roadshow

Welcome.

Please take time to network, explore the information stands and help yourself to refreshments.

The panel discussion will commence at 7pm.

EirGrid



Agenda

7.00pm Overview of Event and Introduction of the Panel
Sarah Carey, MC

7.05pm What Shaping Our Electricity Future means for Limerick
Derek Carroll, EirGrid

7.20pm National Network, Local Connections
Alan Keegan, ESB Networks

7.35pm SEAI Supports for Communities and Households
Sean Sweeney, Local SEC Mentor, SEAI

7.50pm Limerick's Climate Action Plan
Kieran Reeves, Climate Action Coordinator, Limerick County Council

8:05pm Questions and Answers

8.25pm Wrap up and close of event



EirGrid

Overview of this evening

Sarah Carey, MC





EirGrid

What Shaping Our Electricity Future means for Limerick

Derek Carroll, EirGrid





EirGrid

Who are EirGrid and What Do We Do?

State-owned operators of Ireland's electricity transmission grid.

We send power from where it is generated to where it is needed.

We operate the wholesale electricity market.

We operate electricity interconnectors with neighbouring countries.

We do not generate electricity.



EirGrid

Ireland’s electricity grid

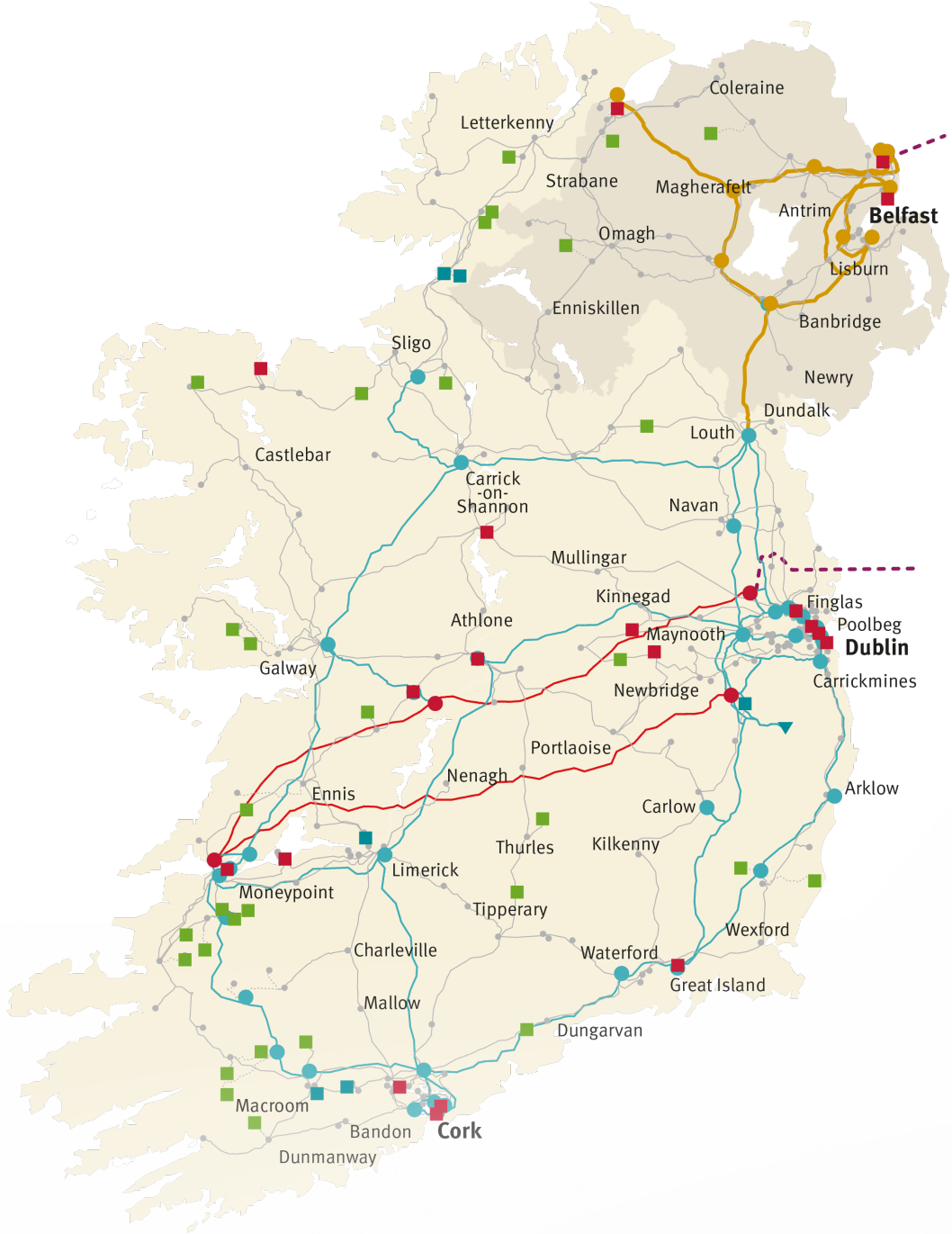
The grid gets into every corner of Ireland, bringing reliable power to homes, farms, schools, hospitals, and businesses.

There is approximately 9,500 km of high-voltage (110kV+) powerlines and cables across the island.

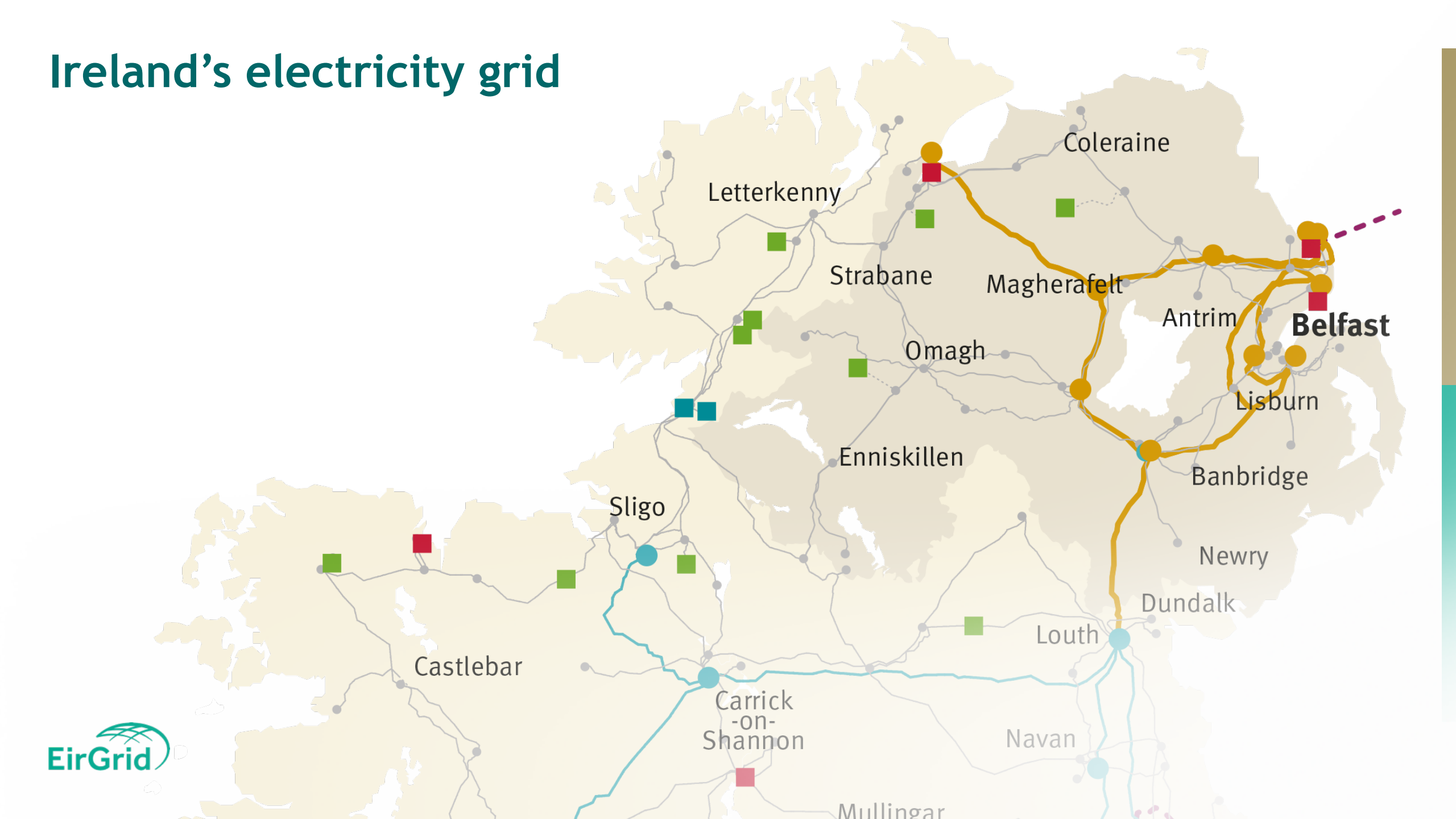
Peak demand during the cold snap last December was 7,031MW.

Electricity is getting greener all the time.

EirGrid

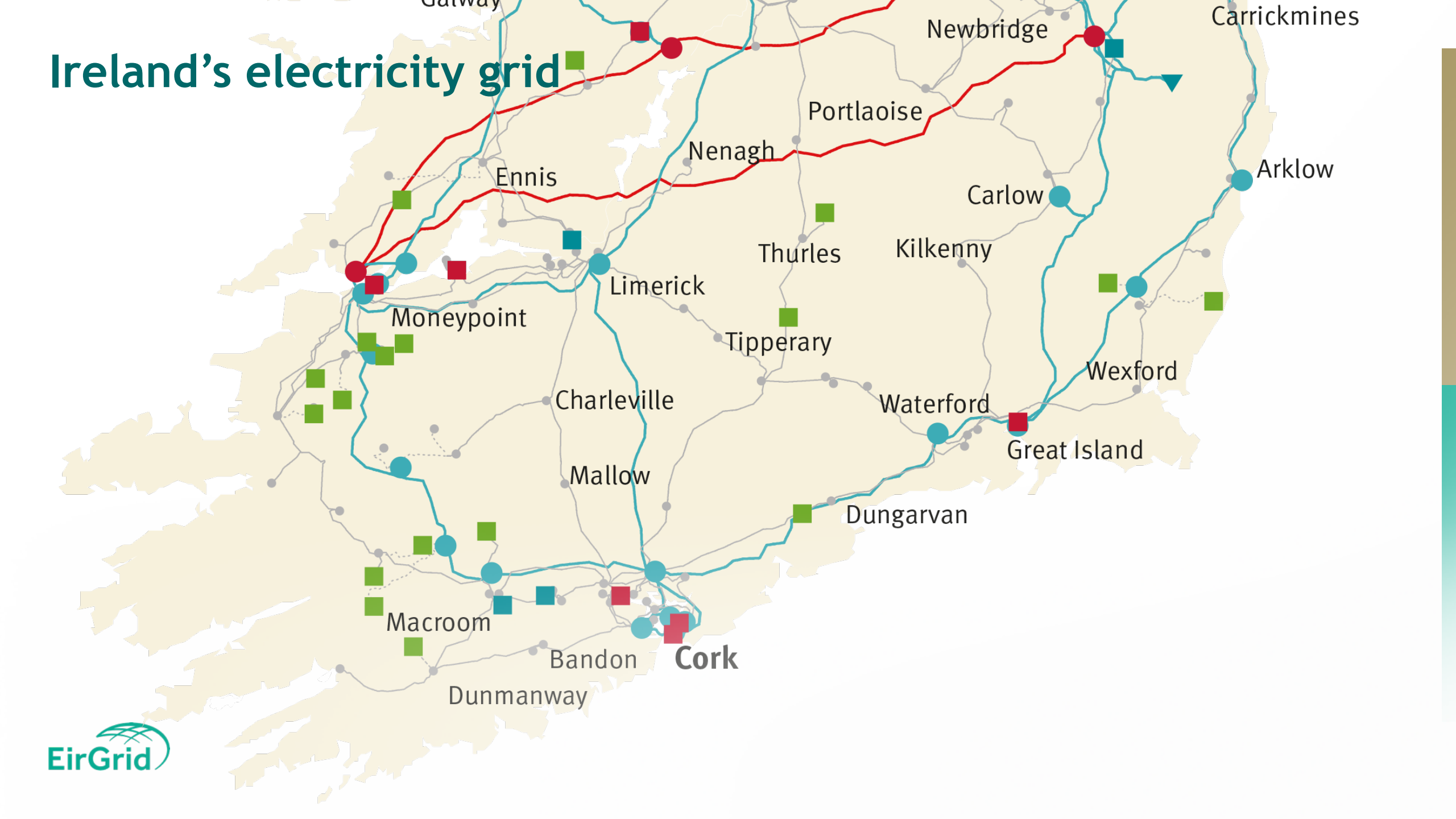


Ireland’s electricity grid



EirGrid

Ireland’s electricity grid



EirGrid


The Government has asked us to prepare the grid so up to 80% of Ireland's electricity can come from renewable sources by 2030
EirGrid

Ireland's Electricity Grid

The grid needs to carry at least **17GW** more renewable electricity by 2030 – that is more than triple 2020 levels.

100 kilowatts = 

30 Homes

100KW is enough to power approximately **30 homes**

1MW megawatt = 

300 Homes

One Megawatt is enough to power approximately **300 homes**

1GW gigawatt = 

300,000 Homes

One Gigawatt is enough to power approximately **300,000 homes**

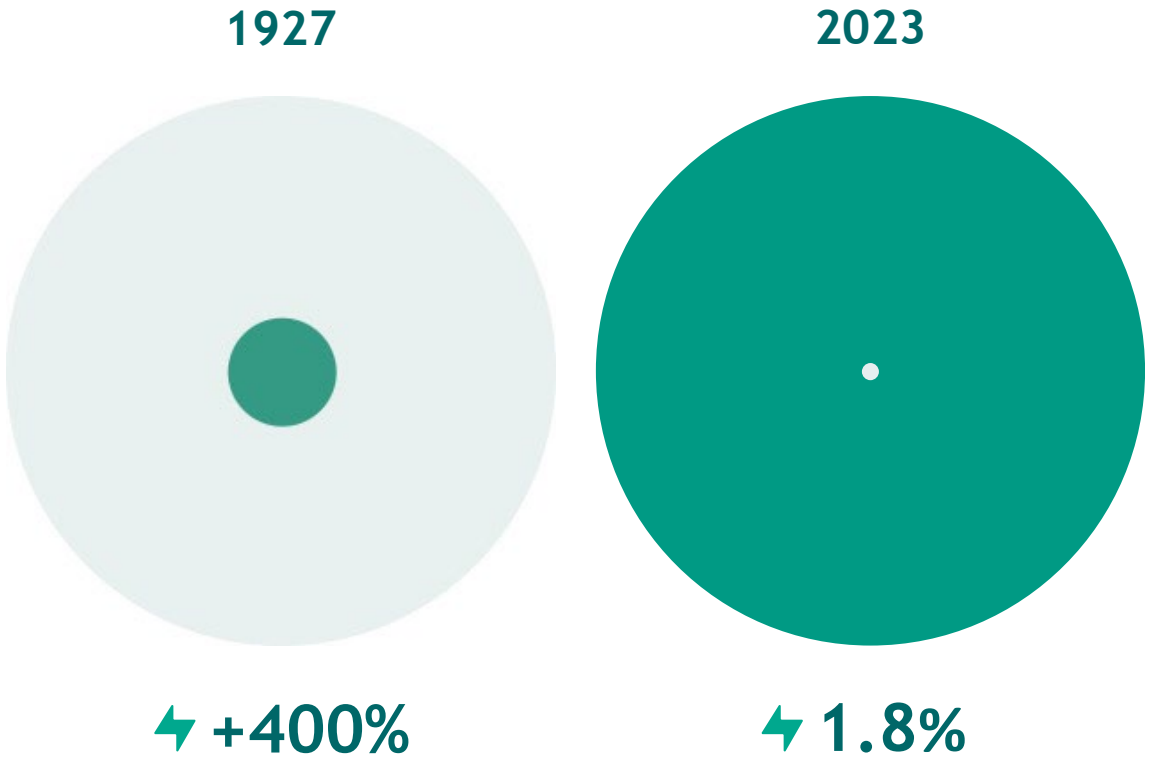
EirGrid

Ardnacrusha Hydroelectric Power Plant

In 1927, the Ardnacrusha hydroelectric power plant provided 4 times the amount of energy required (**400%)** by the country and was completed at a cost of one fifth of the Irish state budget. In 2023, it now represents approximate **1.8%** of our needs.

Amount of power needed

Power generated from Ardnacrusha



EirGrid

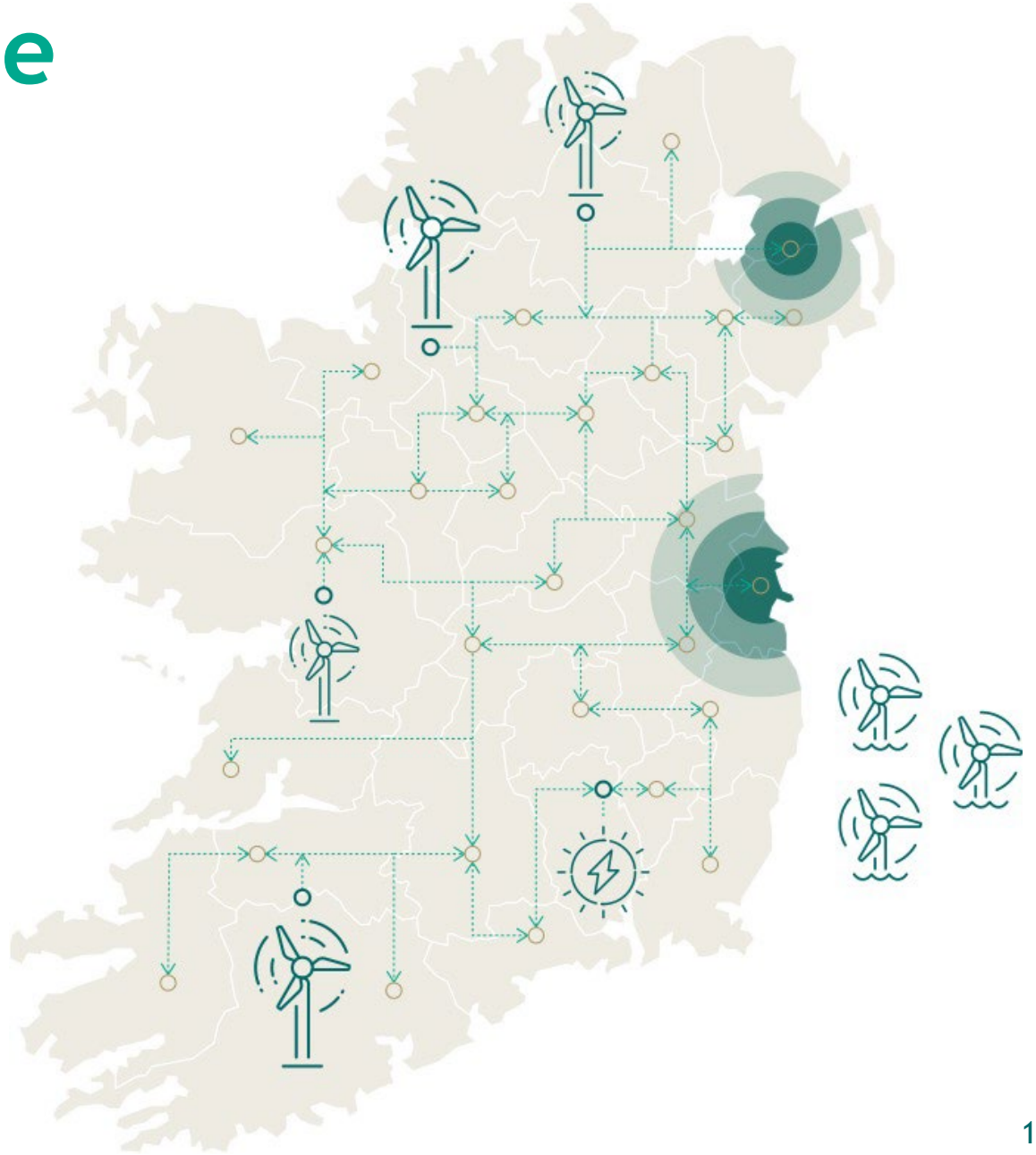
Context for preparing the plan

More electricity will be carried across the grid than ever before, and most of this power will come from renewable sources.

The grid needs to carry at least 17 GW more renewable electricity by 2030 – triple 2020 levels.

Power generated from renewable sources depends on the weather.

Renewable electricity is typically generated far away from where most electricity is used.



EirGrid

How did we consult and engage?



2
Civil Society Forums

Ireland & Northern Ireland

National Youth Assembly in Ireland

500+
Consultation Responses

TEDˣ Stormont Youth Event

100+
Virtual Consultation Events

- Local Authorities
- Chambers of Commerce
- Rural Communities
- Agricultural Organisations
- Community and Voluntary Groups

14 Week
Consultation and Engagement Programme

99
Deliberative Dialogue Participants in Ireland

2
Industry Forums

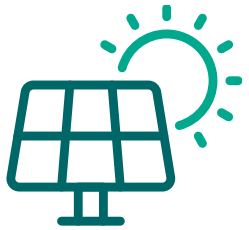
EirGrid

What did the Public say?

- Onshore-generation
- Security-of-supply
- Public-engagement
- Landowner-concerns
- Ecology
- Environment
- Offshore-wind
- Future-proofing
- New-technology

EirGrid

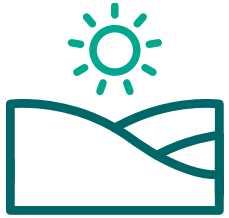
Recurring themes:



Microgeneration



Community Ownership



Benefits for regional and rural communities



Social Acceptance



Keeping costs manageable

What infrastructure will be required?

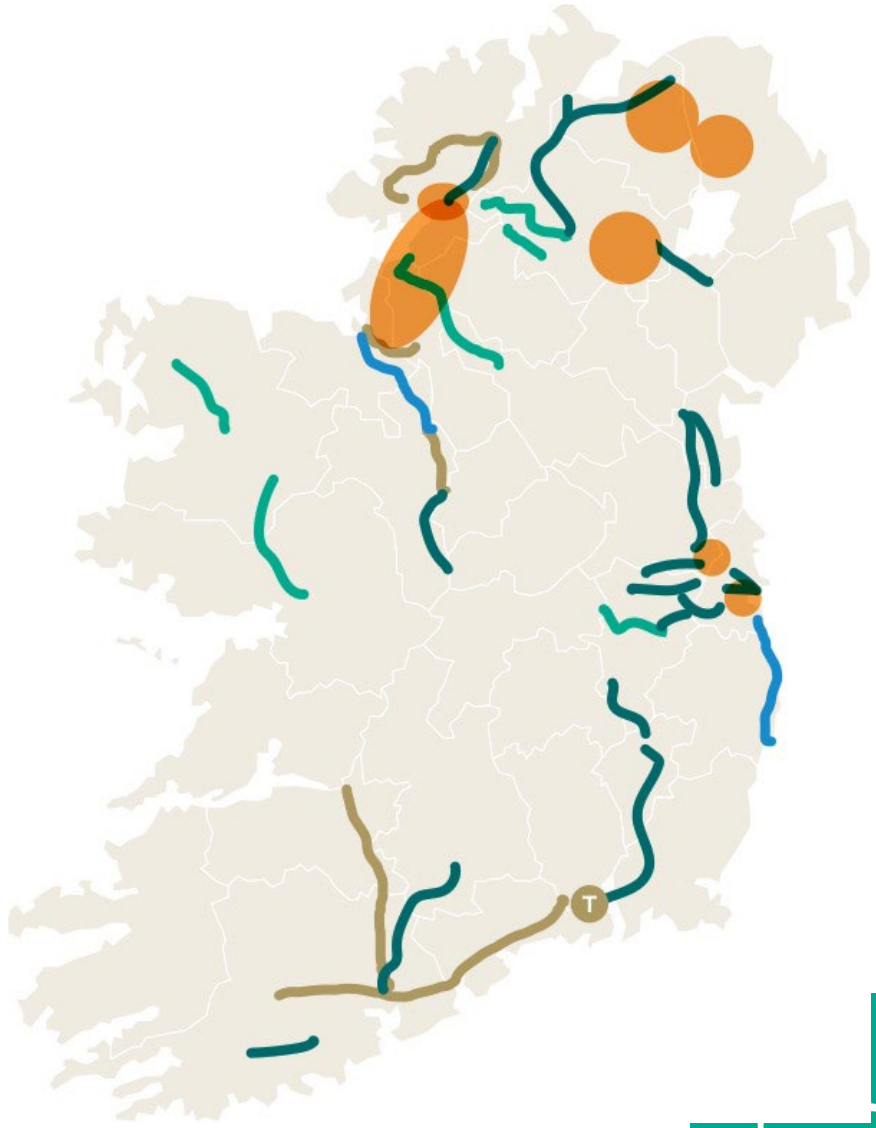
294
Existing Projects in the pipeline

40
New Projects in Ireland

4 new circuits
24 upgrades to existing circuits
1 new transformer
11 new technology projects

12
New Projects in Northern Ireland

3 new circuits
7 upgrades to existing circuits
2 new technology projects



EirGrid

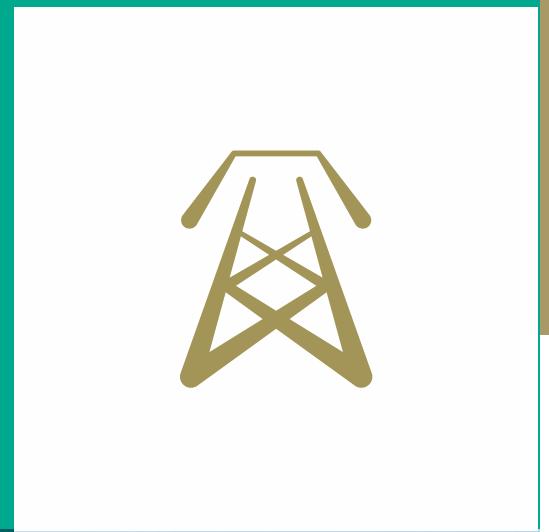
Our 6 Step Approach to Project Development



Step One	Step Two	Step Three	Step Four	Step Five	Step Six
How do we identify needs of the electricity grid?	What technologies can meet these needs?	What's the best option and what area may be affected	Where exactly should we build?	Apply for planning permission	Construct, energise (make live), and share benefits.

EirGrid

Summary







Thank you

The Oval
160 Shelbourne Road
Ballsbridge
Dublin 4
D04 FW28

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EirGrid

National Network, Local Connections

Alan Keegan, ESB Networks





EirGrid



EirGrid Energy Citizens' Roadshow: Wexford

Alan Keegan, DMSO Regulatory & Stakeholder Hub Manager.

Who We Are



Future Energy Customers



Our Services



Who is ESB Networks?

We deliver and connect electricity to 2.4 million homes and businesses. We play a central role in enabling climate action through the electrification of heat and transport as well as connecting renewables.



Delivering Electricity for 90 Years



180,000 km Network



€800m Annual Investment



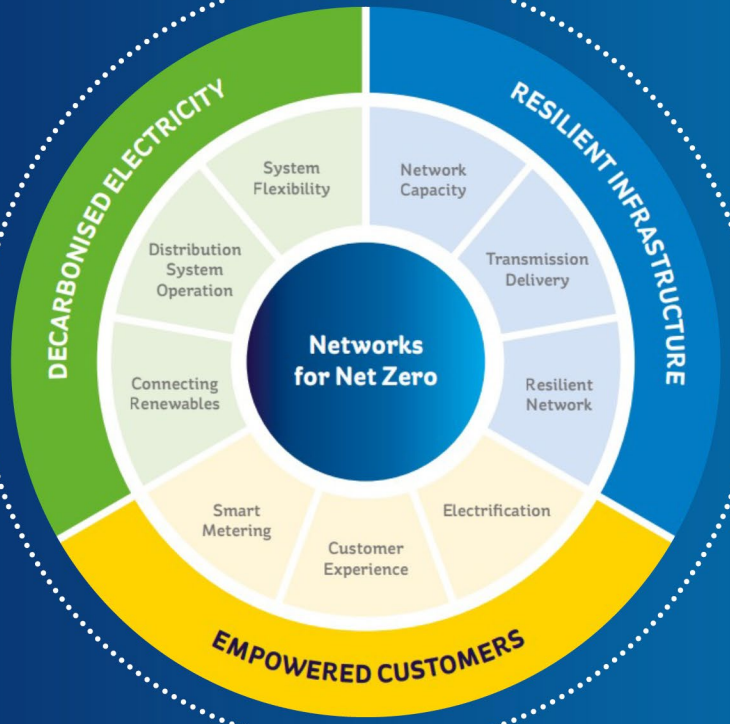
3,500 Employees nationwide

Our focus: Sustainability at our core

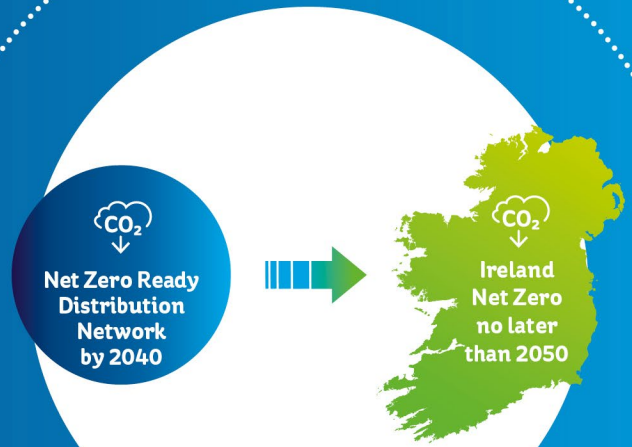
ESB Networks: Delivering Ireland's electricity network for a clean electric future



Delivering our Net Zero Strategy



Supporting Ireland's Climate Action Plan



Where do customers fit into all this ‘sustainability’ NOW ?

Customers will play an essential role in achieving the ambitious climate change targets….



- +15,000 domestic customers are delivering demand flexibility by signing up to Is This A Good Time?
  - Get involved at esbnetworks.ie/time
  - +40 commercial customers are supporting the efforts to help with security of supply
- +400,000 customers adopting solar/heat pump technology
- + 34,000 customers adopted EVs in 2023
- ~80,000 microgen customers eligible for Clean Export Guarantee.
- 1 million Solar Panels across Ireland
- Community energy projects

(numbers correct as of late 2023)

Where do customers fit into all this future ‘sustainability’?

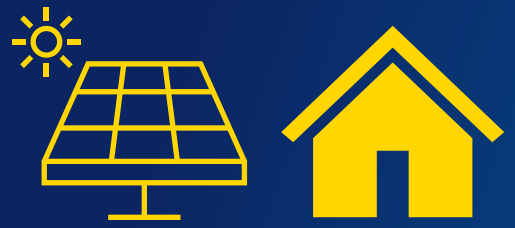


Our Services

- Connection of Micro Generation & Mini Generation
- ESB Networks Online Account
- National Smart Metering Programme
- Security of Supply – Initiatives



Connecting Micro-Generation



Think solar panels on the roof of the home



NC 6 Form



Free of cost

(numbers correct as of August 2023)

Connecting Mini-Generation



NC 7 Form

Approx €1,000

(numbers correct as of August 2023)

Smart Metering

Over 1.6 million smart meter installations across the country



Supports micro gen



View your electricity usage on your ESB Networks Online Account



Empowers all electricity customers to take control



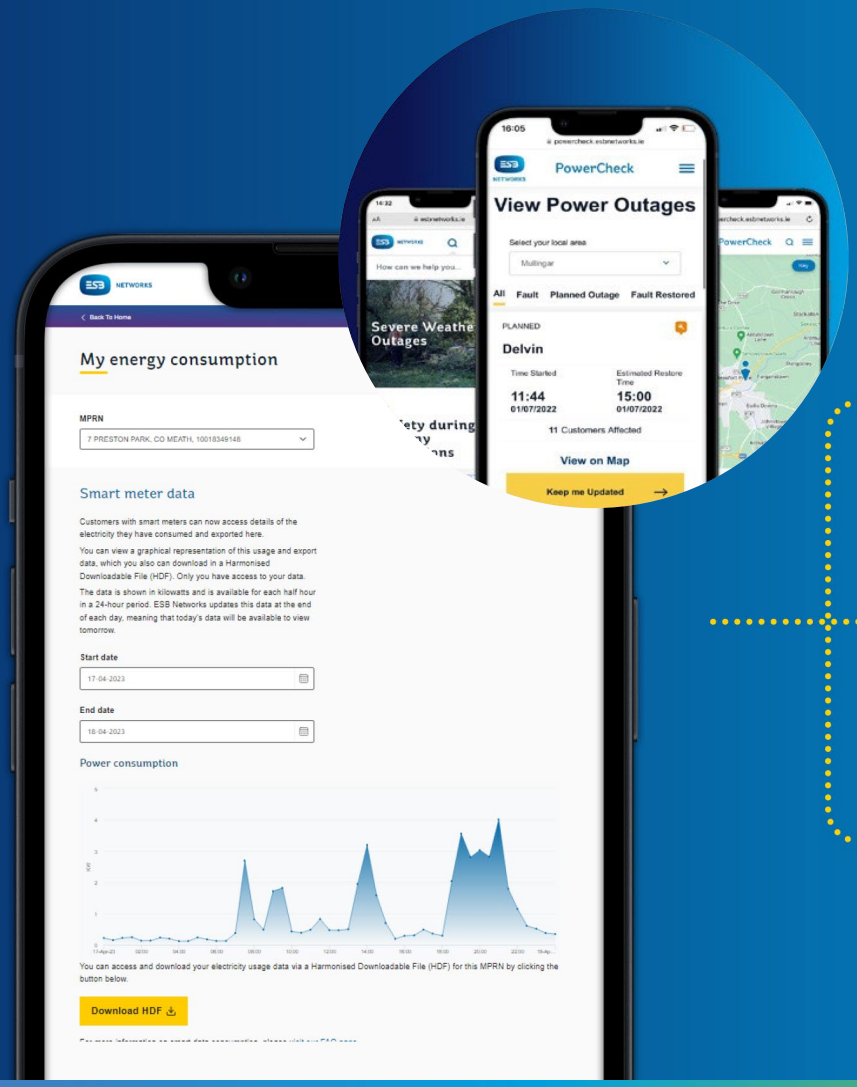
No more estimated bills

ESB Networks Online Account

Access your energy consumption data

Submit Your Meter Reading

View Your Power Outage Status



Find my MPRN
(Personal Meter Identifier)

Apply & Track Connections
(Homes & Business)

Participate in 'Is This a Good Time?'

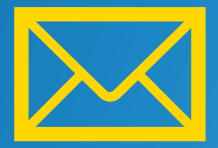
Sign up to our ‘Is This a Good Time?’ Customer Programme



- Get useful information and tips to help you learn how to **take control** of your home's electricity usage.



- Find out **when the best times are** to use your electrical appliances (i.e. outside of peak hours of 5-7pm or when renewable electricity is being generated).



- Get **rewarded** for taking control when prompted (via energy events).

esbnetworks.ie/time

Beat the Peak Business

The scheme has been set up for commercial electricity users and specialised energy management companies to provide flexibility services to the Irish electricity network.



PURPOSE

The purpose of the scheme is to:

- Shift demand during peak evening periods to alleviate potential tightness on the network and mitigate System Alerts.



SERVICE DETAILS

During the scheme, commercial electricity users will be asked to reduce demand reduction between 4.30-7pm, Monday – Friday (excluding public holidays).



SETTLEMENT

- Service Assets will be remunerated for reducing demand on a daily basis and for Peak Events that are called by ESB Networks.
- Service Providers will be remunerated for recruitment and management of Service Assets.

Find out more by visiting esbnetworks.ie/business or if you have any questions, please reach out to our team at btp@esb.ie



Q&A





engagement@esbnetworks.ie

SEAI Supports for Communities and Households

Sean Sweeney, Local SEC Mentor, SEAI





EirGrid

SEAI Grants
Sustainable Energy Communities

seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND

Rialtas na hÉireann
Government of Ireland

www.seai.ie

OVER 800 COMMUNITIES

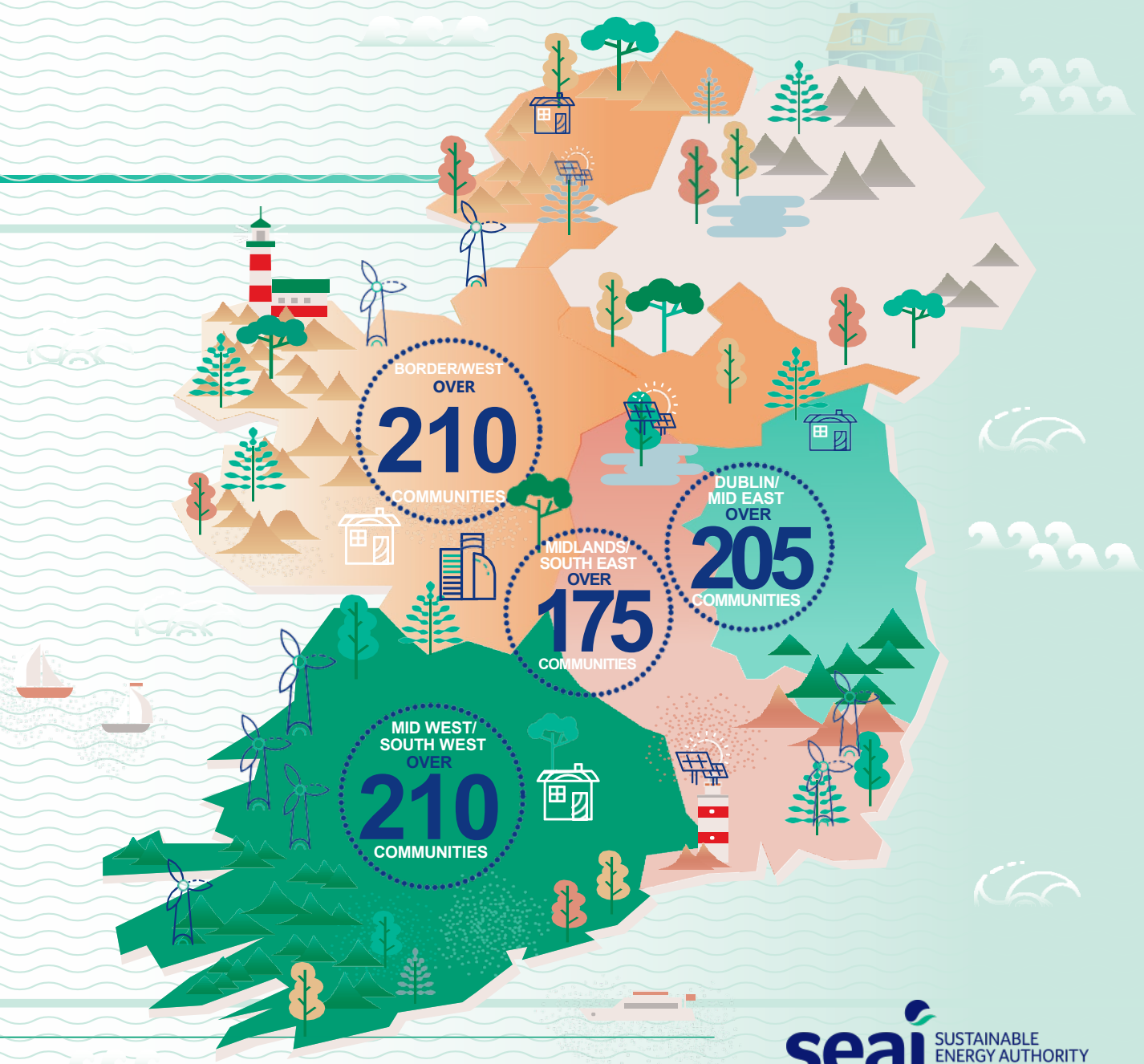
Part of SEAI's Sustainable Energy Communities Network

MORE THAN
40,000
CITIZENS ENGAGED

133 ENERGY MASTERPLANS COMPLETED

91
COMMUNITIES
Are currently working on their Energy Master Plans

Find out more at: www.seai.ie/sec



SUSTAINABLE ENERGY AUTHORITY OF IRELAND

BALLYHOURA
DEVELOPMENT CLG

SUSTAINABLE ENERGY
COMMUNITIES

What is a Sustainable Energy Community (SEC)?

A community that Works together to develop a Sustainable Energy System.

To do so, they aim to be:

- Energy Efficient.
- Use Renewable Energy.
- Consider Smart Energy Solutions.



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DEVELOPMENT CLG

SUSTAINABLE ENERGY COMMUNITIES

What is a Sustainable Energy Community (SEC)?

Potential Stakeholders within a SEC:

Community Council	Sports Clubs	Housing Groups
Community Groups	Private Individuals	Enterprise and Businesses
Tidy Towns	Resident Groups	Farmers
School(s)	Active Retirement Groups	Service Providers

- **No limitation on** who makes up the stakeholders, but it needs to be **diverse and community focused.**

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SUSTAINABLE ENERGY COMMUNITIES

Why form an SEC?

*Answer the Question –**'What can we do'** – a 100% funding*

- ***'Learn'.***
  - This can be used for Community Energy Information Sessions.
  - Help understand the technologies and available solutions.
- **Like Minded Individuals.**
  - Buying power.
  - Support within the community.
- **Be Ready for Funding- Climate Action Fund/ LEADER**
  - Shovel Ready.
  - Little to no additional expenses.





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DEVELOPMENT CLG

SUSTAINABLE ENERGY
COMMUNITIES

What is an Energy Master Plan (EMP)?

An EMP outlines your community's current energy uses.

- Assessment of Housing, Facilities, Services, Business and Transport.
- What is needed.
- Steps.
- Costs and Savings.
- Large scale project feasibility and options.



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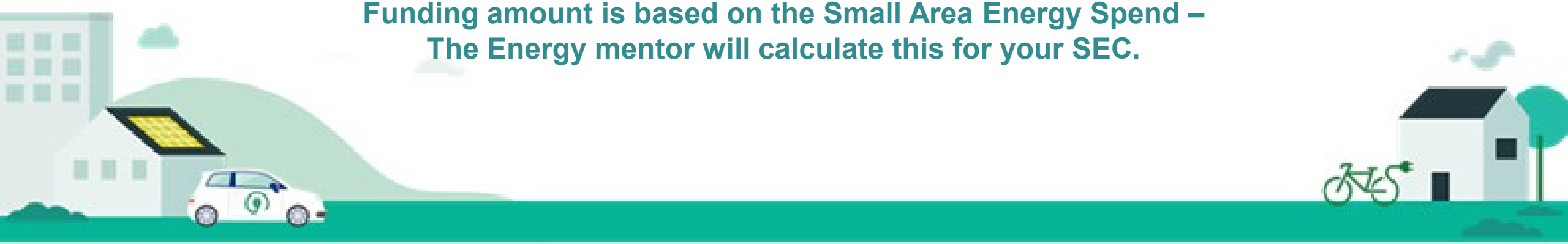
SUSTAINABLE ENERGY COMMUNITIES

What is an Energy Master Plan (EMP)?

EMP Funding Amounts

Level	Funding Amount	Energy Spend
1	€10,000	Up to €500k
2	€15,000	Up to €2m
3	€20,000	Up to €20m
4	€25,000	Over €20m

Funding amount is based on the Small Area Energy Spend –
The Energy mentor will calculate this for your SEC.



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Joining the SEC Network

SUSTAINABLE ENERGY COMMUNITIES

Contact:

Seán Sweeney, SEAI Energy Mentor

Ballyhoura Development

Ssweeney@Ballyhoura.org

087 636 0117

SEAI.IE/SEC



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SEAI Energy Grant Programmes

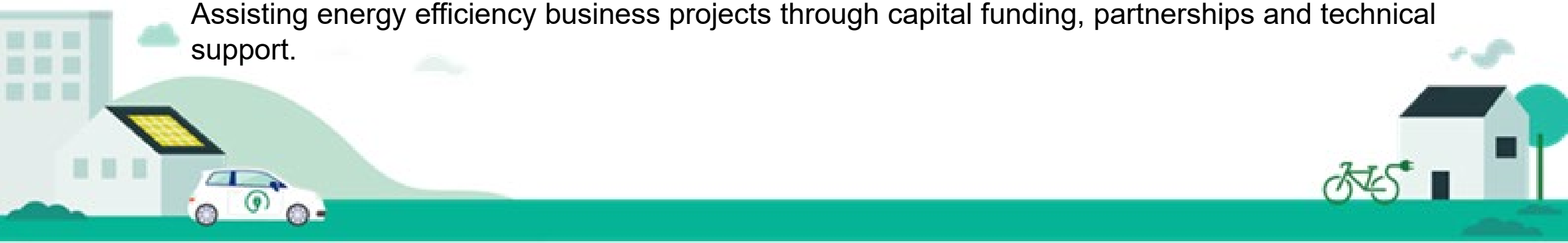
SUSTAINABLE ENERGY COMMUNITIES

- **Home Energy Grant Programme**
  Individual energy upgrades for private homeowners.

- **Free Energy Upgrades Programme**
  Delivering free energy upgrades to eligible homeowners who are in receipt of certain welfare payments

- **Communities Programme**
  Assisting energy efficiency community projects through capital funding, partnerships and technical support.

- **Business Grants & Supports (non-domestic)**
  Assisting energy efficiency business projects through capital funding, partnerships and technical support.



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Retrofitting the Home

SUSTAINABLE ENERGY COMMUNITIES

Fabric First Approach

1. Roof, Wall and Floor Insulation, Windows and Doors
2. Heating Systems (Heat Pumps and Heating Controls)
3. Renewable Technologies (Solar Thermal and Solar PV)



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SUSTAINABLE ENERGY COMMUNITIES

	Free Energy Upgrade	One Stop Shop Service	Individual Energy Upgrade
Home energy assessment	✓	✓	
Project management		✓	
Wall and roof insulation	✓	✓	✓
Floor insulation		✓	
Windows	✓	✓	
Heating controls	✓	✓	✓
Heat pump systems	✓	✓	✓
Solar water heating		✓	✓
Solar electricity		✓	✓
Ventilation	✓	✓	
BER assessment	✓	✓	✓

Supported by

seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND

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Home Energy Grants

One Stop Shop

SUSTAINABLE ENERGY COMMUNITIES

All services required to complete a home energy upgrade.

1. Fully Managed Solutions
2. Wider Range of Grants
3. Grant Values deducted from cost of work upfront.
4. Currently 12 Providers
5. Up to €45,050 of a grant – depending on the needed measures and type of home.



BALLYHOURA DEVELOPMENT CLG

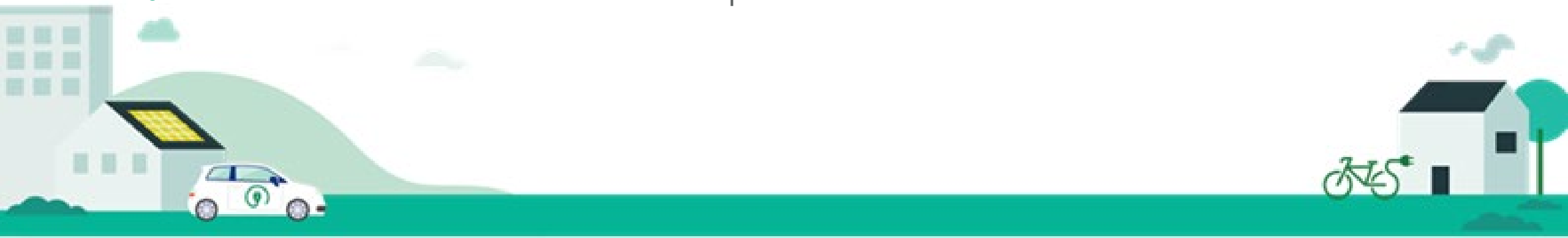
Home Energy Grants

Individual Grants

SUSTAINABLE ENERGY COMMUNITIES

Home energy upgrades done individually and at your own pace.

1. Individual Solutions addressed and claimed for.
2. Smaller Range of Grants.
3. Grant claimed afterwards, or Done through the contractor.
4. Significant number of suppliers – SEAI Registered Providers.
5. Grant value dependent on the measure.
6. Have to do BER after works to show improvement.



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Home Energy Grants

Measure Value

SUSTAINABLE ENERGY COMMUNITIES

Grant name	Apartment (any)	Mid-Terrace	Semi-Detached or End of Terrace	Detached House
Attic Insulation	**€800**	**€1,200**	**€1,300**	**€1,500**
Rafter Insulation	**€1,500**	**€2,000**	**€3,000**	**€3,000**
Cavity Wall Insulation	**€700**	**€800**	**€1,200**	**€1,700**
Internal Insulation (Dry Lining)	**€1,500**	**€2,000**	**€3,500**	**€4,500**
External Wall Insulation (The Wrap)	**€3,000**	**€3,500**	**€6,000**	**€8,000**
Floor Insulation	**€3,500**			
Windows (Complete Upgrade)	**€1,500**	**€1,800**	**€3,000**	**€4,000**
External Doors (max. 2)	**€800 per door**			
Air Tightness	**€1,000**			
Mechanical Ventilation	**€1,500**			

All applicants must carry out a Building Energy Rating (BER) on completion of works. A BER grant is only payable once as part of a works grant.

BALLYHOURA DEVELOPMENT CLG

Home Energy Grants

Measure Value

SUSTAINABLE ENERGY COMMUNITIES

Grant name	Apartment (any)	Mid-Terrace	Semi-Detached or End of Terrace	Detached House
Heat Pump Systems	**€4,500**	**€6,500**		
Central Heating System for Heat Pump	**€1,000**	**€2,000**		
Heat Pump Air to Air	**€3,500**			
Heating Controls	**€700**			
Launch Bonus for Reaching B2 with Heat Pump	**€2,000**			
Solar Hot Water	**€1,200**			
Solar PV (Electricity)	**0 to 2 kWp €900/ kWp – (max €1,800) 2 to 4 kWp €300/kWp – (max €2,400) (Capped at 4 kWp)**			
Home Energy Assessment	**€350**			
Project Management	**€800**	**€1,200**	**€1,600**	**€2,000**

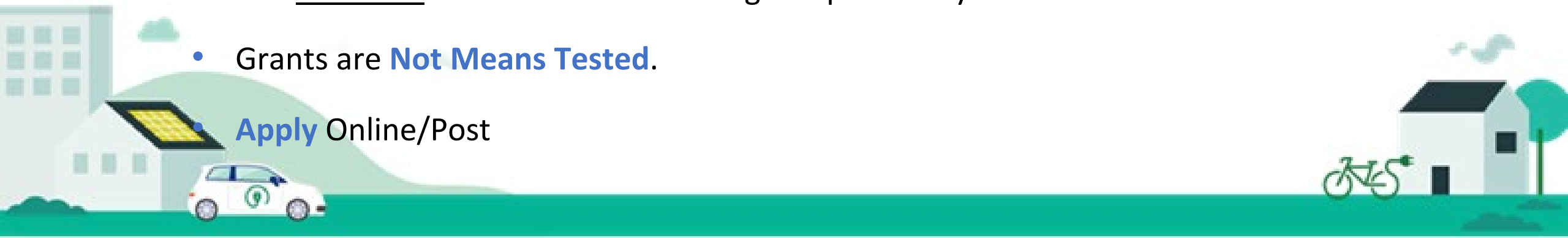
All applicants must carry out a Building Energy Rating (BER) on completion of works. A BER grant is only payable once as part of a works grant.

BALLYHOURA DEVELOPMENT CLG

Eligibility Criteria

SUSTAINABLE ENERGY COMMUNITIES

- Make sure you are grant approved **before** the work starts
- Must use an **SEAI registered contractor**
- **Insulation** and **Heating Controls** grants - available to all owners of homes built and occupied before 2011.
- **Heat Pump Systems** and **Solar Thermal** grants - available to all owners of homes built and occupied before 2021.
- Must complete a **post-works BER assessment**
- You **must not** have received an SEAI grant previously for the same measure.
- Grants are **Not Means Tested**.
- **Apply** Online/Post

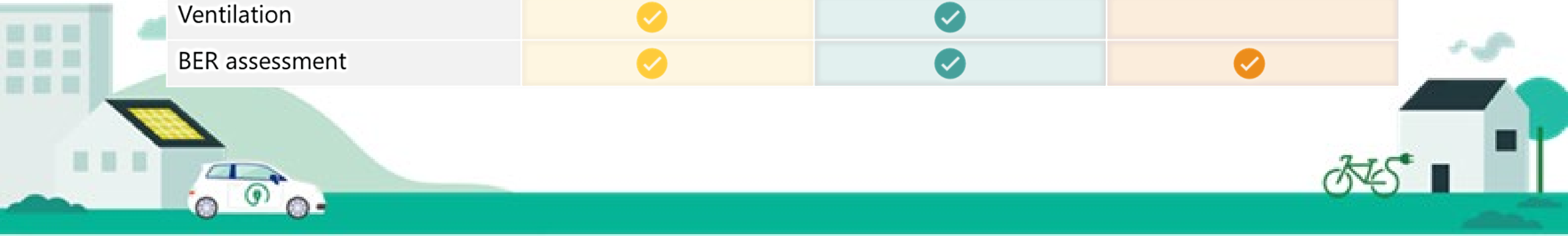


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Free Energy Upgrades

SUSTAINABLE ENERGY COMMUNITIES

	Free Energy Upgrade	One Stop Shop Service	Individual Energy Upgrade
Home energy assessment	✓	✓	
Project management		✓	
Wall and roof insulation	✓	✓	✓
Floor insulation		✓	
Windows	✓	✓	
Heating controls	✓	✓	✓
Heat pump systems	✓	✓	✓
Solar water heating		✓	✓
Solar electricity		✓	✓
Ventilation	✓	✓	
BER assessment	✓	✓	✓



BALLYHOURA DEVELOPMENT CLG

Free Energy Upgrades

SUSTAINABLE ENERGY COMMUNITIES

Delivering free energy upgrades to eligible homeowners who are in receipt of one of the following:



- Fuel Allowance.
- Working Family Payment.
- Family income supplement/ One Parent Family Payment.
- Domiciliary care allowance.
- Jobseekers allowance > 6 months & child under 7.
- Carers allowance and lives with the person being cared for.
- Disability Allowance for over 6 months & child under 7.

- Must own and live in your own home which was built & occupied before 2006.
- Must not have received works previously under the scheme.

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Free Energy Upgrades

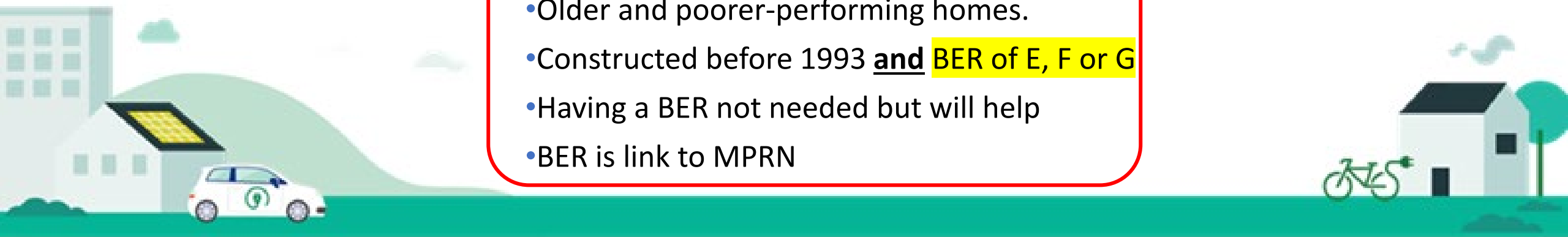
SUSTAINABLE ENERGY COMMUNITIES

- For each eligible home, an SEAI technical surveyor determines which upgrades can be installed and funded.
- **Available energy upgrades:**

Attic insulation	Cavity wall insulation	External wall insulation	Internal wall insulation
Ventilation, mandatory where attic and/or wall insulation installed			
Other secondary measures such as lagging jackets, draught proofing & energy efficient lighting			
Occasionally, heating upgrades and/or window replacements may be recommended.			

- Delivered through a panel of private contractors and community-based organisations

- **Prioritisation:**
- Older and poorer-performing homes.
- Constructed before 1993 **and** BER of E, F or G
- Having a BER not needed but will help
- BER is link to MPRN

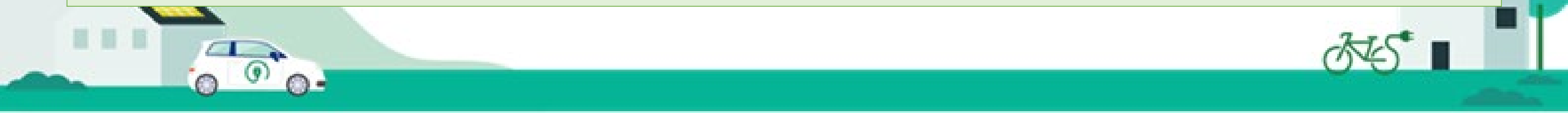


BALLYHOURA DEVELOPMENT CLG

Energy Grants

SUSTAINABLE ENERGY COMMUNITIES

Communities & Businesses	Households	Schools
SEAI's Community Energy Grants	Community Energy Grants - Home	Department of Education – Summer Works Scheme
SEAI Energy Audit Vouchers €2,000	One Stop Shop	Path Finder
LEADER	Individual Grants	
Community Climate Action Fund	Warmer Homes Scheme	
Sports Capital Grant		
Town & Village Renewal Fund		
Community Centres Investment Fund		
Community Benefits Fund		



BALLYHOURA DEVELOPMENT CLG

Business Energy Audits

SUSTAINABLE ENERGY COMMUNITIES

Energy Audits for Businesses available through SEAI

€2,000 voucher which will help you understand

1. How much energy your business uses.
2. Processes and equipment that use the most energy.
3. Actions you can take to Save, understand your costs and make an impact.

Energy spend of at least €10,000 to qualify



BALLYHOURA
DEVELOPMENT CLG

SUSTAINABLE ENERGY
COMMUNITIES

Thank You

Contact Information

Seán Sweeney,

SEAI Energy Mentor

Development Officer

Ballyhoura Development

Ssweeney@Ballyhoura.org



Local Opportunities of the energy transition

Kieran Reeves, Climate Action Coordinator, Limerick County Council





EirGrid

Limerick will become a green city region on the Shannon Estuary connected through people and places.



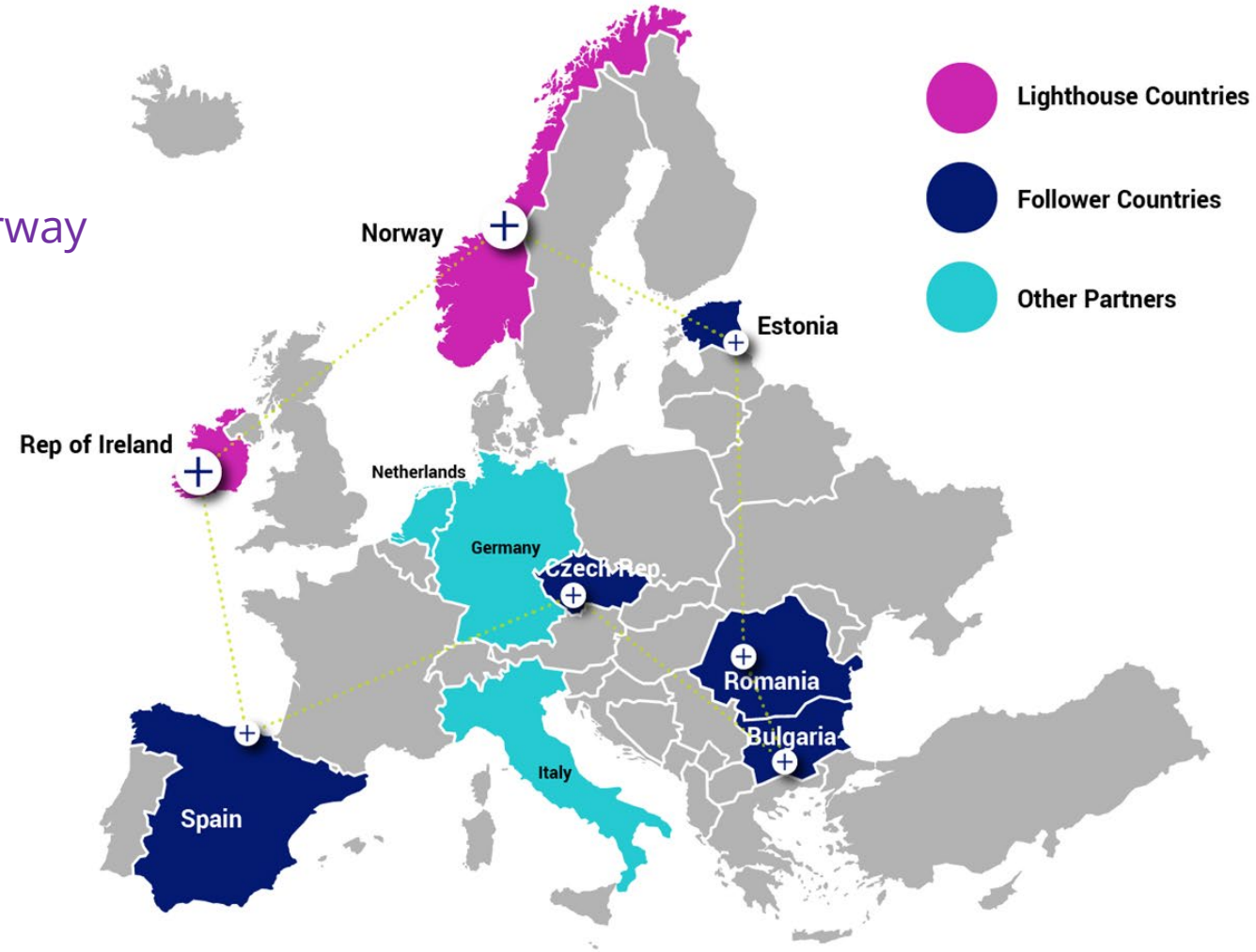
Cities

Lighthouse Cities

- Limerick City – Ireland
- Trondheim Commune – Norway

Follower Cities

- Alba Lulia – Romania
- Pisek – Czech Republic
- Vöru – Estonia
- Smolyan – Bulgaria
- Sestao - Spain



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Project Partners

Limerick City & County Council

NTNU

Trondheim Kommune

Limerick City & County Council

Primăria Municipiului Alba Iulia

Sestao Udala Ayuntamiento

Písek

Cmdarh

Võru Linn

ABB

ARUP

AtB

avis budget group

Colaborativa

ESB Energy for generations

ESB Networks

Energy Agency of Plovdiv

FourC

Future Analytics
Planning | Research | Economics

GKinetic

IES

IOTA Foundation

ISOCARP
Knowledge for Better Cities

kjeldsberg
Innovasjon siden 1856

mPower
energising smarter communities

nhp Eiendom

ovgroup
green economy industry
UniCredit
WWF

powel

RPM
Research to Market
Solution

Space Engagers

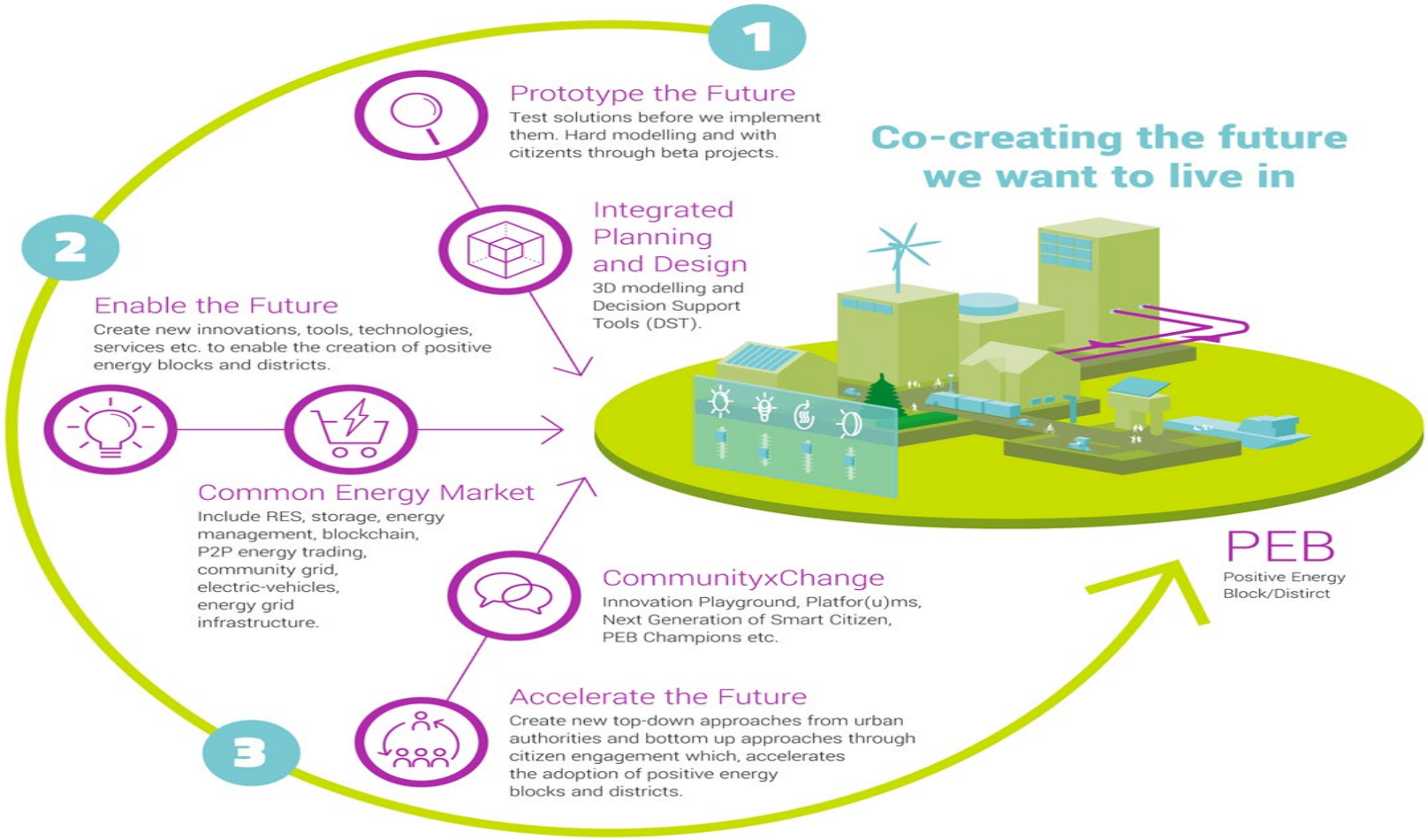
Statkraft

TrønderEnergi

University of Limerick
Ollscoil Luimnigh

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Approach

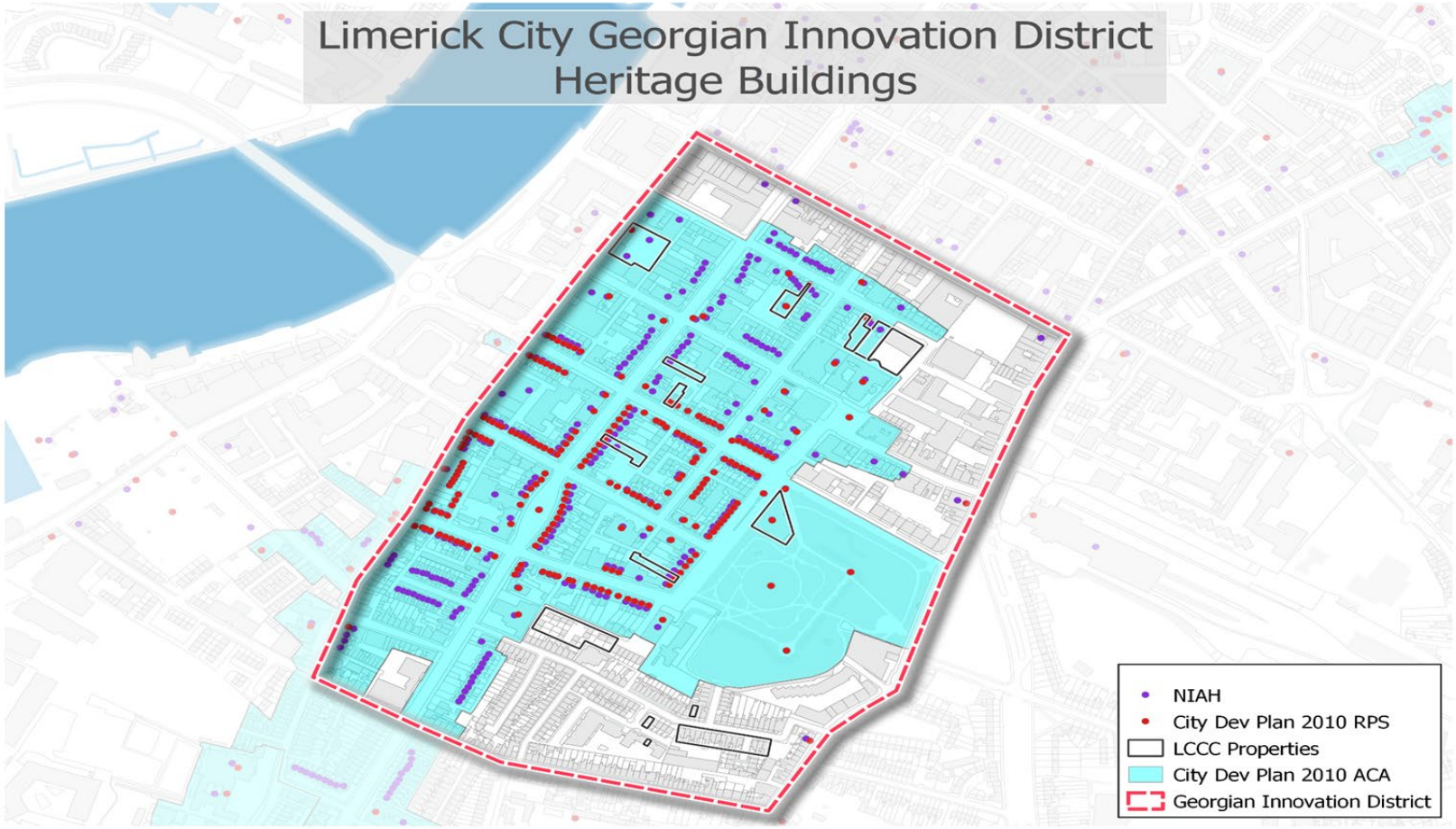


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Understand The Challenge

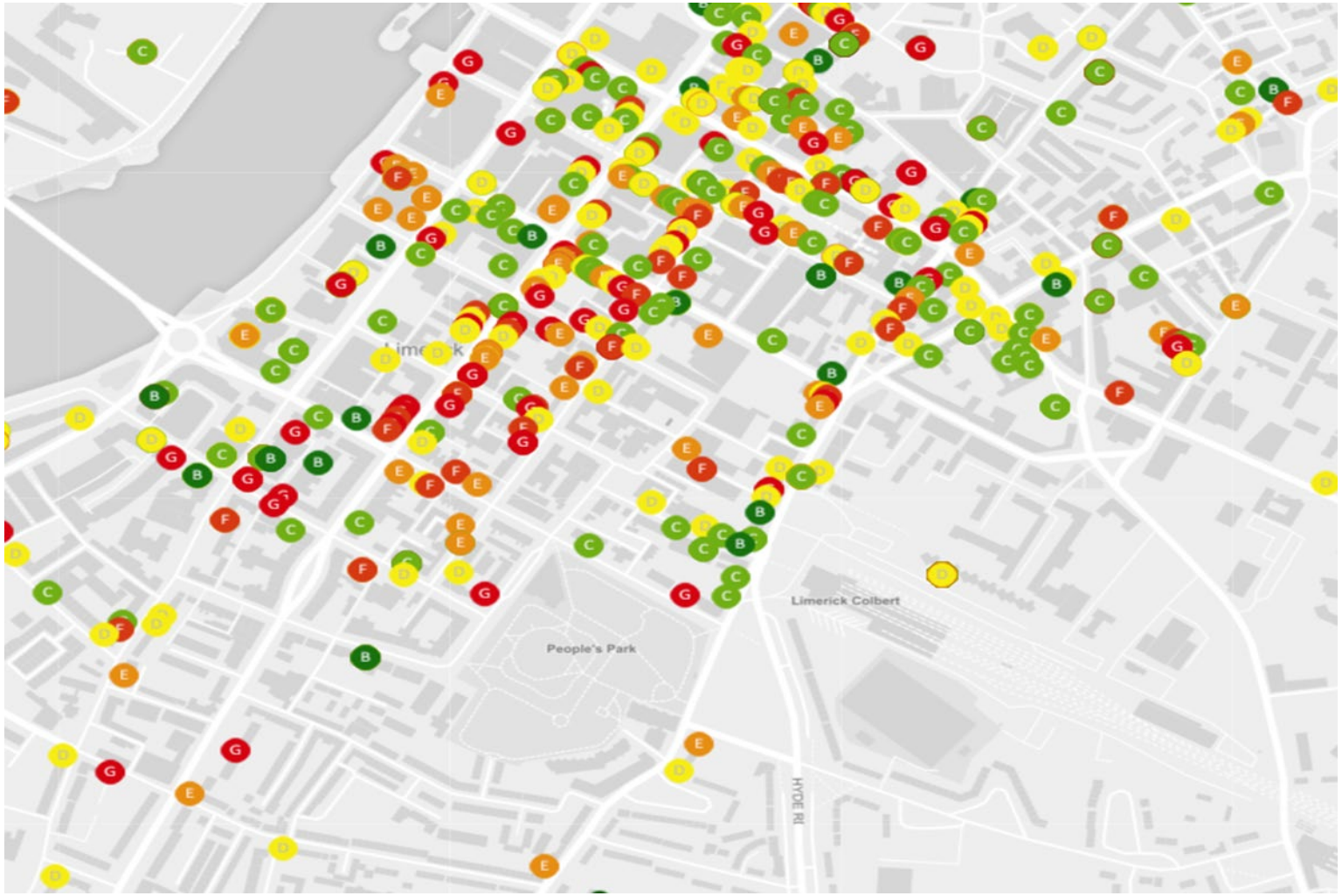
Conservation

458 buildings of national architectural historic significance



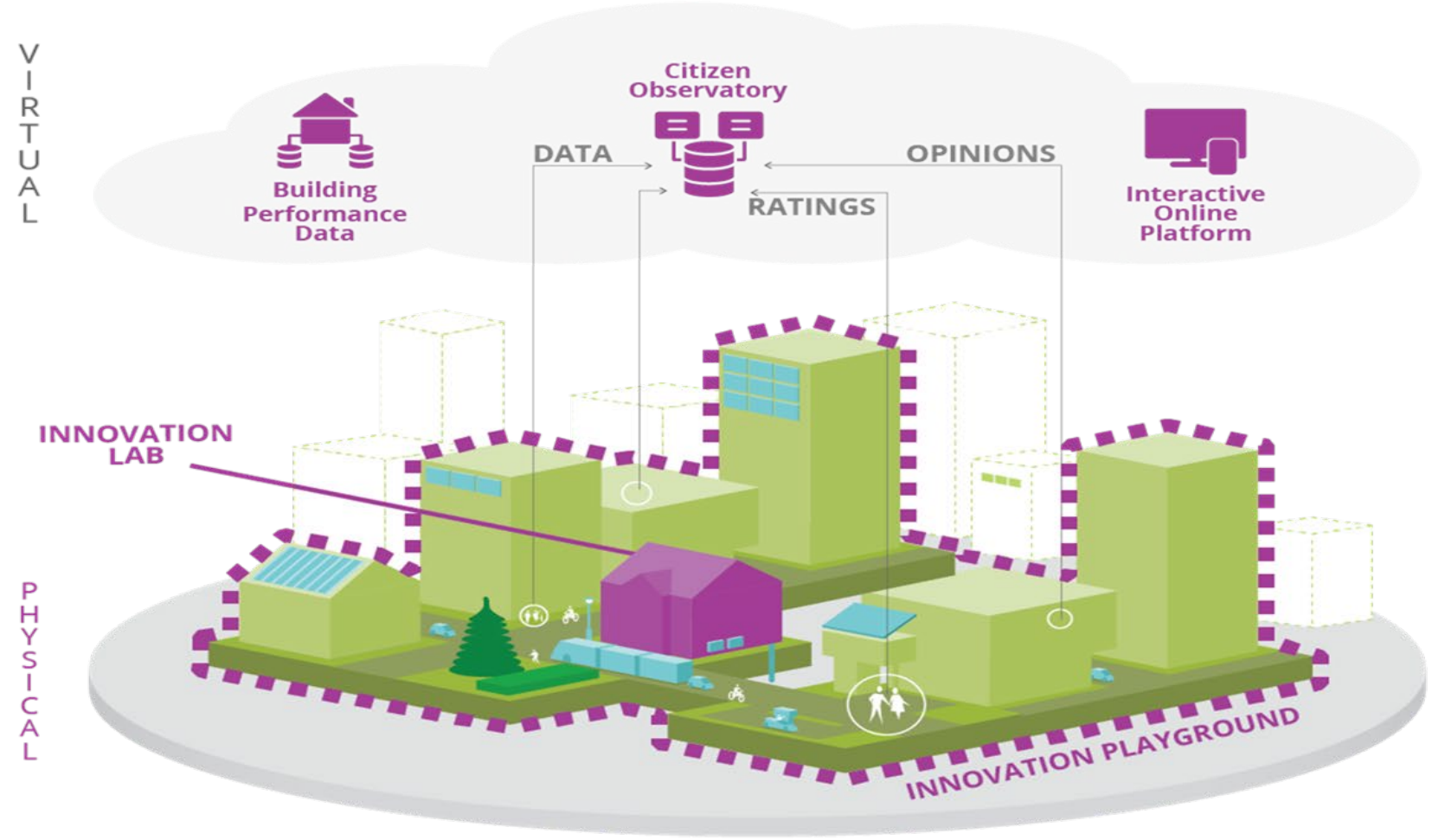
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Understand the Energy Challenge



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Innovation Playground | Innovation Lab



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OUR DPEB





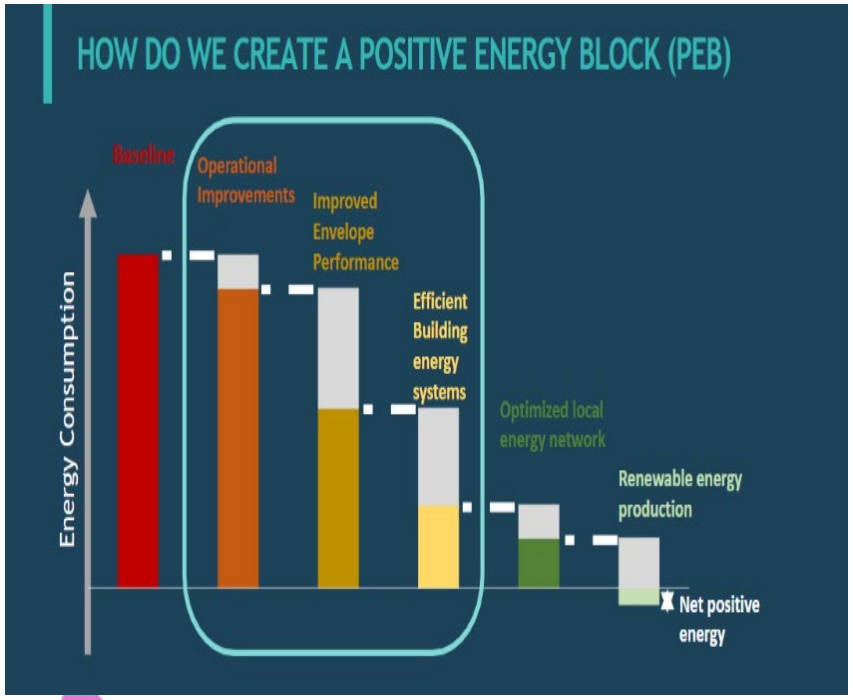


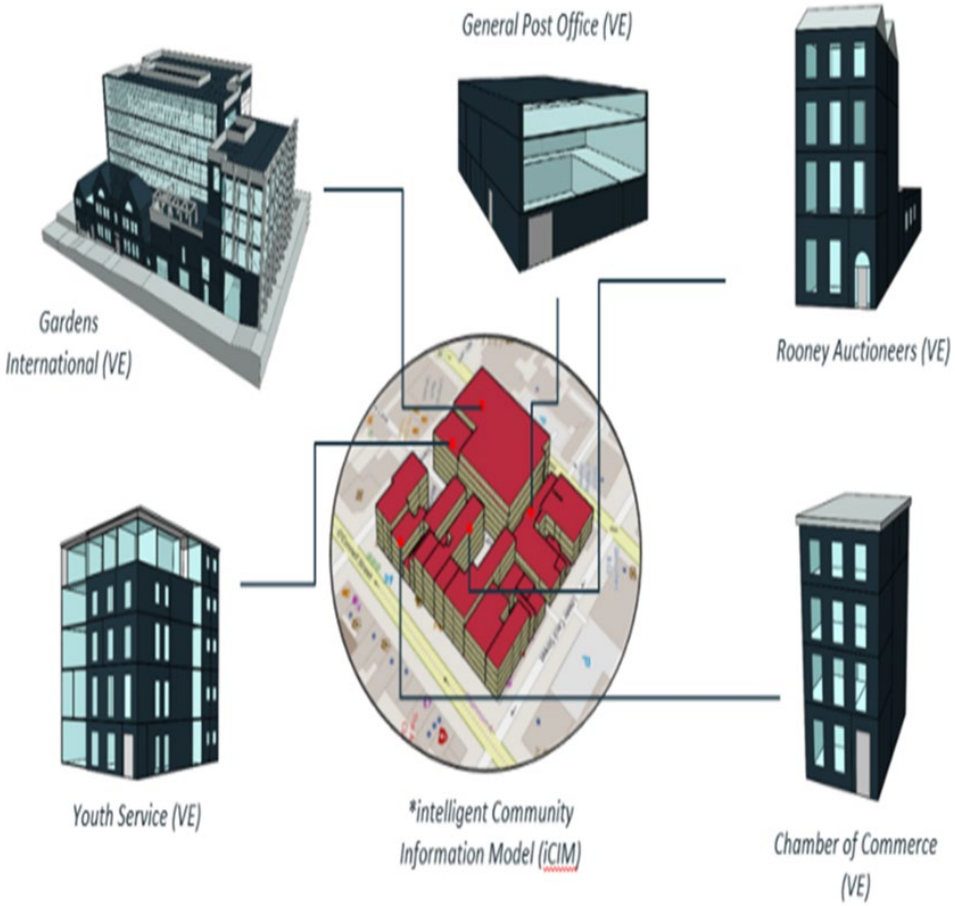


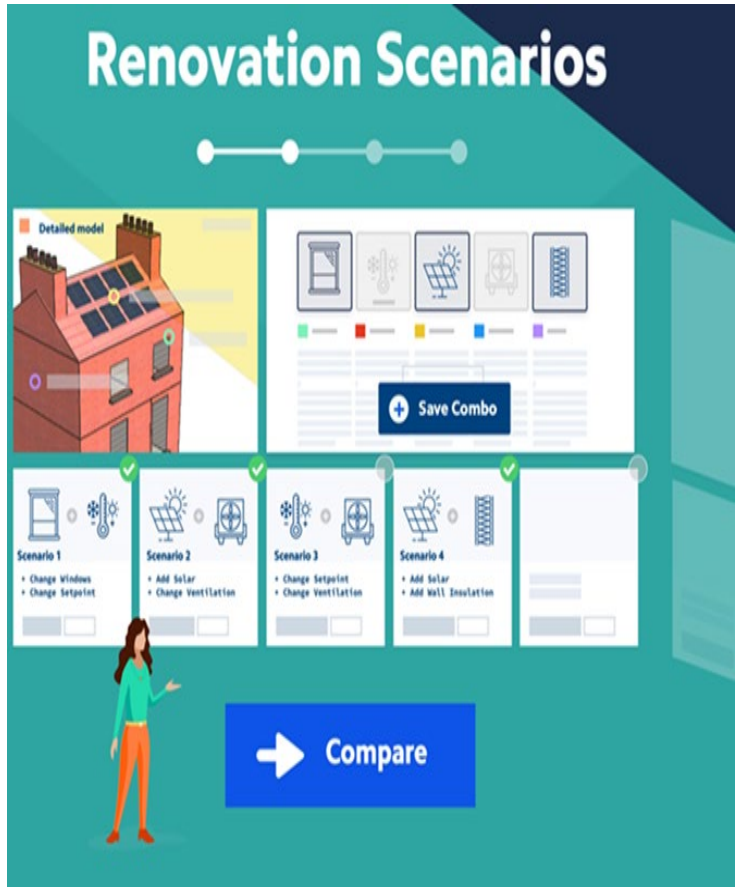


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Limerick's Positive Energy Block – Prototyping the Future







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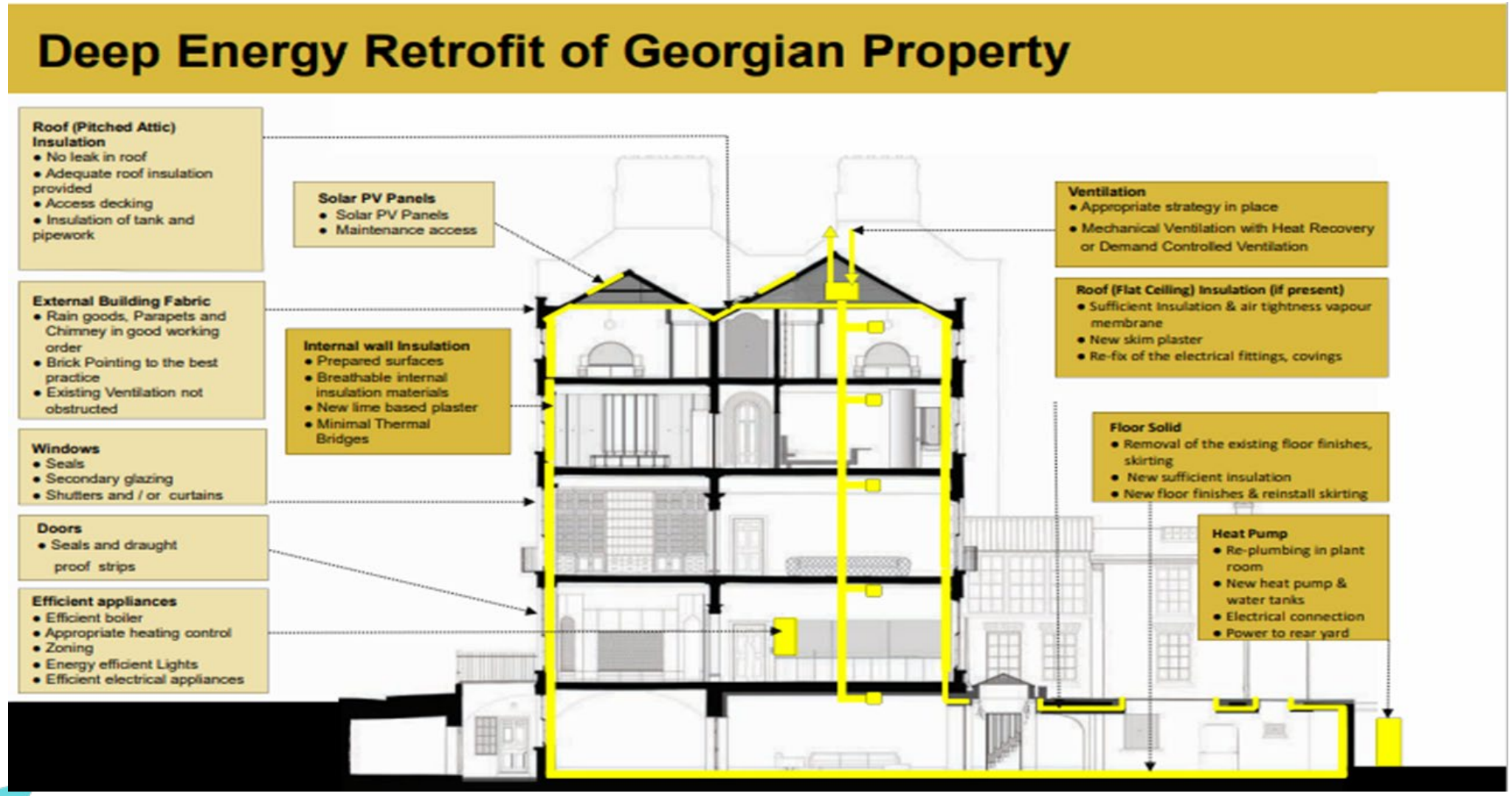
FURTHER SOLAR ANALYSIS - CITY LEVEL



Number of Buildings: 756
Total Floor Area: 392,816.1 m²
Total Roof Area: 110,037.9 m²

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Understanding Energy Retrofitting in Historic Buildings



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Helping People Understand Energy in Their Buildings Supported by the Digital Twin

SMART LAB

Using Smart Technology to Drive the Energy Transition in Limerick

Up to 100 building owners and occupants in Limerick city installing sensors provided by to monitor their

- building's temperature,
- humidity, and
- carbon dioxide levels.



Energy monitor (Source: Vutility).



Indoor Environment Sensor (Source: Milesight).



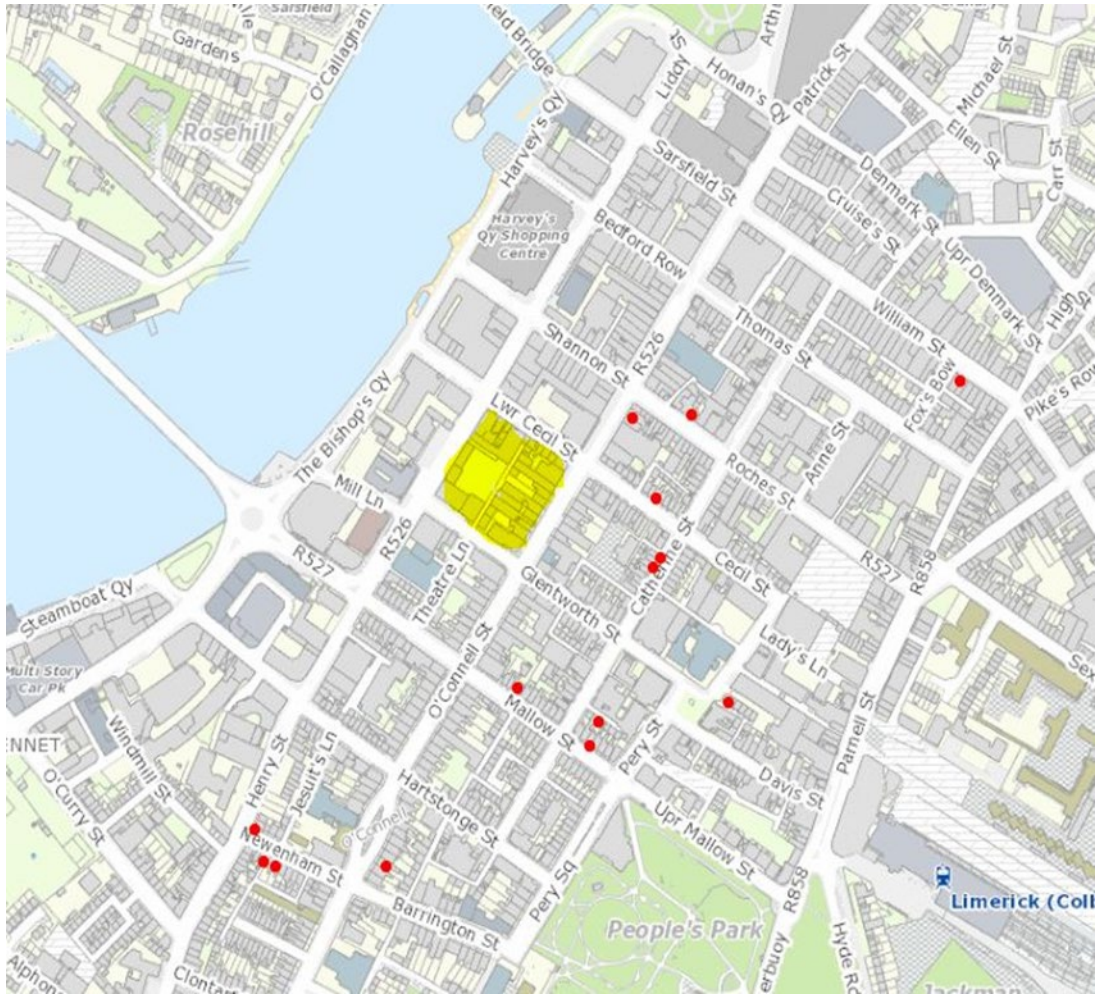
U Value Kit

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Supporting People to Renovate - Living City Initiative Tax Incentive



Before | After



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Financing the Challenge of Retrofitting



- Build on work of +CxC.
- Establish the business case for energy retrofitting of historic buildings.
- Outline the scope of a potential sustainable investment fund.
- Propose a legal structure for the creation of the fund.

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Limerick Citizen Innovation



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ENGAGEMENT – WHERE PEOPLE'S KNOWLEDGE OF THE CITY BECOMES KNOWLEDGE FOR THE CITY

City Engage Week

Mapping Limerick's Laneways



Co-Creation Board Game



Narrative Tours of Georgian Limerick



Citizen Sensing



SBIR Launch



Creative Play



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Positive Energy Champions



Cathie Chappell

"I drive an electric car, but feel unable at present to make longer journeys due to the lack of charging points. I would like to monitor this, and hopefully see an improvement in this infrastructure."

Aoife McKeon

"I hope to encourage impactful individual change with the aim of raising awareness about the aim to become a Smart City."

Jennifer Tierney - Cityxchange Team

"I am eager to share the journey of my transition to an electric car and all it involves and hope that by doing so I can inspire people in a similar position so that they can make the change."

Bill Kelly - Community Power

"Our project 'Greening the Gold' aims to energise the citizenry of Limerick City to become actively involved in the energy transition."

Grainne Mchenney

"I aim to improve the energy usage in the Georgian quarter in a realistic way that is sustainable and economically feasible."

Anne Cronin - Limerick Cycle Bus

"We aim to highlight the need for safe segregated connected infrastructure for cyclists of all ages in Limerick."

Andrew O'Connell - St. Michael's Rowing Club

"There is huge potential for St. Michael's in harnessing the river to power our launches and the clubhouse in a clean and sustainable way."



David O'Connor - Facilities Manager Limerick City and County Council

"Over the next 10 weeks I plan to work with the +CityxChange team to incorporate their knowledge into the management of Council buildings by implementing some positive energy actions."

Siobhan O'Reilly - Limerick City Gallery of Art

"We are working with +Cityxchange partners Integrated Environmental Solutions (IES) using their modelling platform to get a better understanding of how the building uses energy."

Patricia Roberts - No.1 Pery Square

"I hope to reduce business energy costs and to demonstrate the positive effect of the reduction on the environment to employees and customers."

Mark Manning - Smart Systems

"We hope to lower the energy costs associated with the building by monitoring the energy usage of the building and its constituent parts."

Una Walsh

"My plan as a Positive Energy Champion is to Empower Communities."

Neil Ward - Peter McVerry Trust

"We hope to identify and implement actions and changes that will help us to provide and manage more energy efficient homes, that in turn support cost effective living for our tenants."

Tom Spillane

"I will be examining the current transport system that exists within Limerick, and trying to mould new forms of active transport into the system."

Limerick's First Positive Energy Champions!

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Open Innovation Calls





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Supporting Enterprise – Tidal Turbine

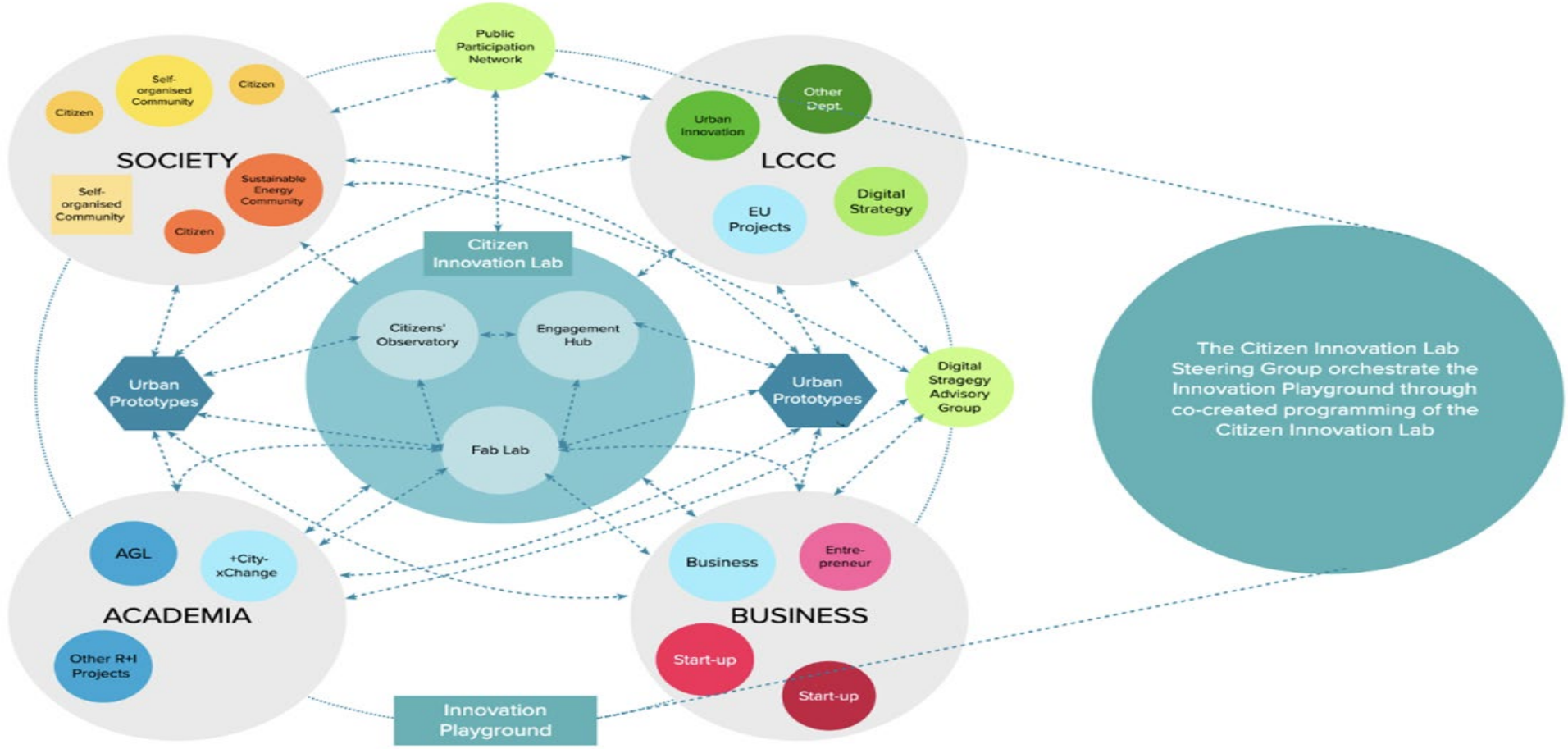






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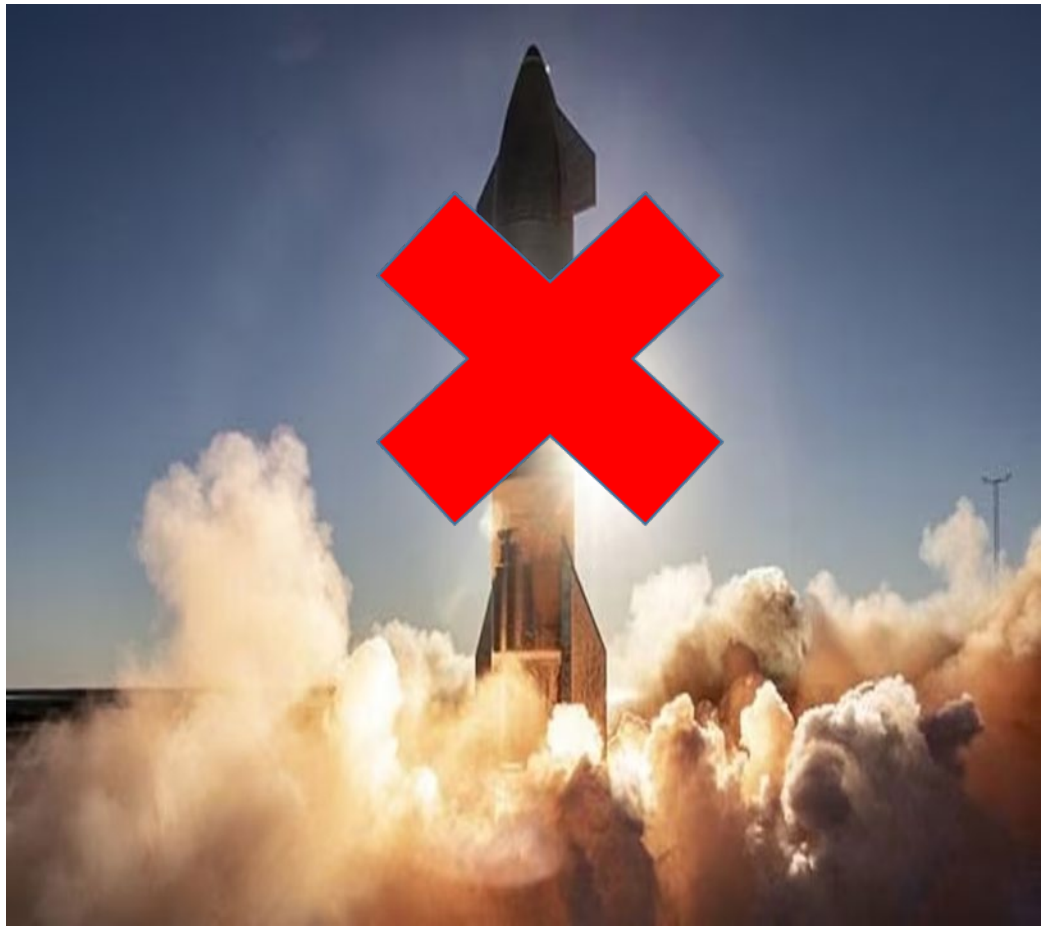
Creating an Innovation Eco-System



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Issues Still Remain

- Difficulties achieving building retrofitting – technical and financial.
  - Guidance on retrofitting historic buildings are still in draft – creates uncertainty.
  - Financial supports do not support SME.
- Regulations to support Renewable Energy Communities not in place.



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We are working with
a wide variety of people



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Questions and Answers





Wrap up



