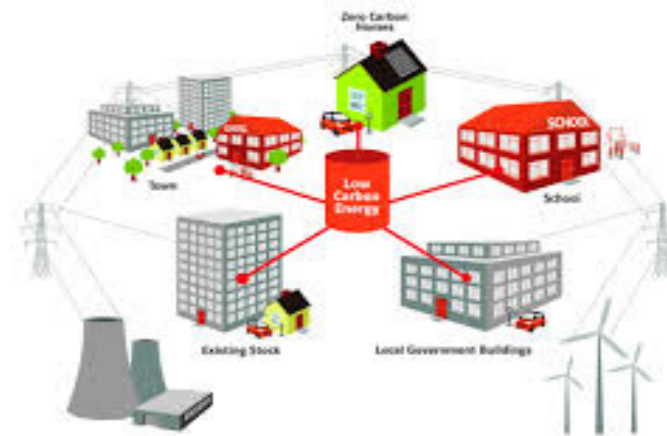
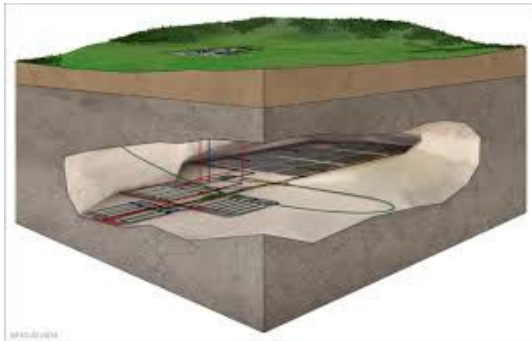




# UK nuclear impacts on Ireland and the decentralised energy alternative



**Sean Morris**  
**NFLA Secretary**  
**NFLA All Ireland Forum seminar, October 2018**



# Agenda

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- **UK new nuclear – where are we at present?**
- **Hinkley Point ‘radioactive’ mud in S Wales / Bristol Channel**
- **Carlingford Lough dredging – similar issues?**
- **Deep underground repository – under the Irish Sea?**
- **NFLA’s renewable, decentralised energy policy**
- **Best practice examples in seven areas of low carbon work**
- **Conclusions**





# UK new nuclear – state of play

- **Hinkley Point C – site cleared, construction 2020 – 27?**
- **EDF – financing issues, problems with other sites**
- **Wylfa B – about to commence planning inquiry**
- **Financial decision in 2019/20, UK Govt £5bn support**
- **Sellafield Moorside – in big trouble due to Toshiba woes**
- **Needs a new partner, KEPCO / Chinese?**
- **Bradwell B – early assessment ongoing, Chinese 66% owned**
- **Small nuclear – Trawsfynydd mooted, lots of questions**





# Hinkley dredged mud issue & the Irish Sea



- 300,000 tons of material from Hinkley C site needs removing
- Application to dump in Cardiff Deep Grounds
- NFLA supported research from Tim Deere-Jones argues more tests needed on radioactive content from A / B sites
- Over 80,000 signed petition of concern
- Senedd debate and legal challenge
- Legal challenge showed EIA had not been done by EDF
- A second Senedd debate 10<sup>th</sup> October
- Tidal channel and material will move in & out of Irish Sea
- Galvanised real concerns in S Wales / SW England



# Carlingford Lough dredging – a concern?

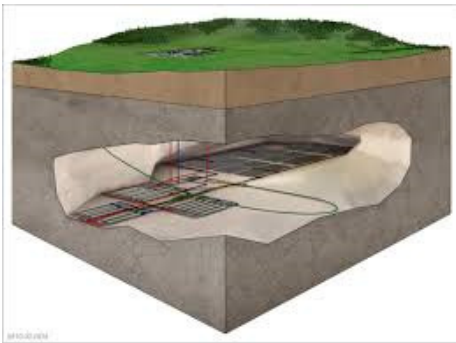
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- Not comparative to the Hinkley issue
- There are Sellafield derived particles in Carlingford Lough and Dundalk Bay – RPII / RIFE reports
- Port Authority should be aware of that
- Tim Deere-Jones is undertaking research on matter which NFLA will take an interest in
- An EIA should be done on the whole dredging project
- A full radiation survey and monitoring of the sediment would also be welcomed by the NFLA
- 61<sup>st</sup> anniversary of Windscale fire – did have impact on the Cooley Peninsula



# UK deep underground repository



- **NO long-term solution to the UK's large rad-waste legacy**
- **UK / Welsh policy – seek a volunteer to host deep repository**
- **7 previous attempts have all failed going back 30 years**
- **Councils will be asked again late 2018 / early 2019**
- **Over 95% of waste is at Sellafield**
- **The geological screening allows partially under-sea site**
- **Cumbrian Councils will be under pressure to volunteer**
- **Previous process - geology of Cumbria limited for a GDF**
- **An under Irish Sea Cumbrian solution has been suggested**
- **If not Cumbria, huge transport issues to a new site**

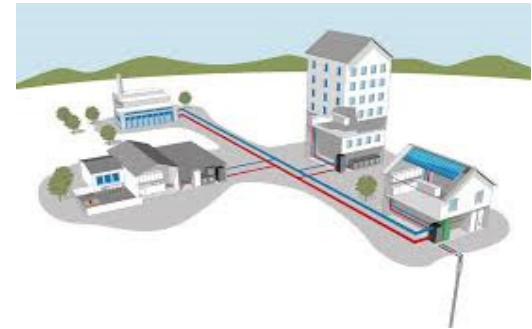
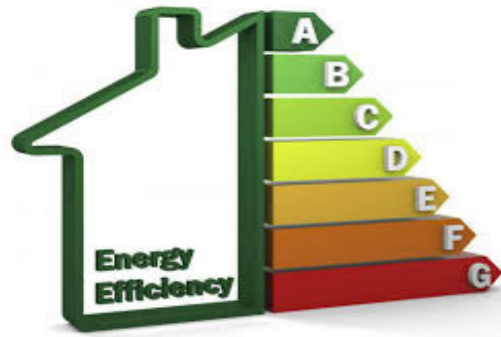
Type	Volume (m3)
VLLW	2,720,000
LLW	1,600,000
ILW	449,000
HLW	1,500
<b>TOTAL</b>	<b>4,770,000</b>



# NFLA's energy – what we advocate



**A WIDE RENEWABLE ENERGY  
MIX – YES!**





# The role of local government

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- **C40 cities analysis**
- **EVERY city needs to diverge from ‘business as usual’**
- **\$1 trillion needs to be invested globally by Councils**
- **By 2030 90% of city needs to be powered by renewables**
- **Would bring huge economic, social & life quality benefits**







# NFLA decentralised energy annual report

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- **Climate change mitigation is a huge imperative**
- **Councils can, and are, playing their role where possible**
- **Report profiles best practice examples in six areas -**
- **Comprehensive carbon reduction plans**
- **New Council policies to create low carbon homes and buildings**
- **Income generation from low carbon**
- **Modernising and creating low carbon Council estate**
- **Smart Energy Neighbourhoods / Community Energy / District Heating**
- **Renewable transport schemes**





# Decentralised energy best practice



Solar farms being built and making profits



W Sussex solar farm –  
£7.9 m income over 15 yrs

TIPPERARY IS PLANNING  
**32 ACTIONS TO REDUCE CO<sub>2</sub> LEVELS** INCLUDING:

- Better Energy Certificates** leading to greater investment
- SuperHomes** - Retrofit homes to an A/BBB standard
- More social housing** and public health centres of homes
- Active Energy Days** in Tipperary
- SME Energy Efficiency Awards**
- More Renewable Energy projects**
- Participatory Information** made widespread available
- Energy in Agriculture** - Evid
- Supporting Community Energy Projects**



Nottingham solar plans - £27.5m over 40 sites





# Local Authority Plans – carbon transition



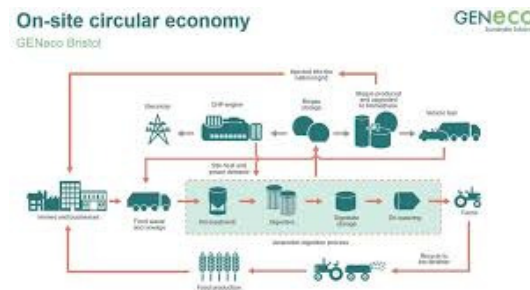
Use 'internet' of things to reduce energy



124 Sustainable Energy Communities in Ireland



Manchester Civic Quarter Heat Network



Bristol anaerobic digestion scheme



Fife's hydrogen refuse trucks

Birmingham's hydrogen buses





# Conclusions

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- **Ireland is impacted by the UK nuclear programme**
- **Discharges into the Irish Sea continue in a number of ways**
- **A deep underground waste repository partially under the sea is of concern**
- **Accidents can and do happen as Windscale anniversary reminds us**
- **Renewable and decentralised energy is the answer**
- **Councils could, and should, be a core part of that answer**
- **Work with us for a renewable, safe and peaceful future**

**Conclusions?**