

Task	Activity	Priority	Interdependencies	Who's undertaking it - external/internal	Outcome	How does it make a difference?	Notes	Next Steps	Key Contacts
Intelligence: Developing increased knowledge, awareness and understanding of current utility situation and future ambitions to assist growth in areas of Lincolnshire, especially where supply is volatile.									
1	Energy Options Analysis (EOA) commission	1	This commission is linked to a number of the other tasks in this work programme either directly or indirectly.	RLB with input from the IG Reference group. Overseen by JR	The main outcome is to answer the key lines of enquiry (KLOEs) by July 2023: - To challenge whether the provision of energy genuinely affects viability, differentiating between the levels of National Grid, Local Distribution Network Operator (DNO) and local energy operators – and whether a decision to implement local innovative solutions could deliver necessary local requirements; - To identify how authorities could work together to build the scale to make an alternative energy offer attractive to the private sector; - To strengthen the connection between energy and other utility provision, notably digital infrastructure and the internet of things; - To provide a forum for the private and public sectors to collaborate on specific schemes, creating the environment for a strong dialogue that leads to investment in priority sites. This would involve: - Identifying any significant barriers and/or opportunities relating to the underlying energy provision infrastructure within Lincolnshire (taken at District/Unitary scale as well as Greater Lincolnshire), and provide strategic recommendations on how to redress / maximise those barriers/opportunities including consideration of best practice or emerging examples; - Identifying any significant opportunities within the existing, or potential future energy networks, within Greater Lincolnshire to maximise the opportunity of increased Green Energy/Renewables within the area. To include best practice/forward looking examples on how infrastructure development could be forward funded; - Providing analysis (and increased understanding) of the energy requirements associated with key employment sectors within Greater Lincolnshire (for example Agriculture) and seek to quantify the future impacts as a result of growth within those sectors, or significant changes within them, for example Carbon Reduction in the Food Chain; - Scoping two housing site opportunities in Greater Lincolnshire where a more collaborative energy approach can deliver commercially viable net zero carbon development and achieve the wider objectives of this brief; - Producing a Red/Amber/Green (RAG) rating network map/Geographical Information Systems (GIS) layer for Greater Lincolnshire for the network (particularly access to high V lines/infrastructure). This would then be used to develop key/targeted decisions based on the need to secure significant inward investment where this is needed from National Grid/DNOs based on what we know as our overall aims for Growth.	As the availability of power is crucial for the growth of thriving environments this commission is essential when making informed decision on future projects, and helping to make choices that will aid the transition to net zero by 2050.	Work is underway. Contract was signed 30th June. Expected completion by April 2023 Sept 22 - Notification from RLB that they were behind schedule - awaiting revised work programme to be issued	RLB reviewing information requested from authorities. Letter of authority signed by MK so RLB can approach DNOs/ IDNOs. Monthly progress meetings with RLB and IG Ref group scheduled from Sept to Dec Breifing paper for about commission produced - to be presented at Sept mtg Awaiting RFID06 from RLB - for LAs to review data produced so far.	Peter Baxter - RLB
2	Energy Options Analysis next steps	1a	Dependant on Task 1	JR/MK	To be aware of what happens after the final energy option analysis report has been received. How can this information be used to help growth in Lincolnshire?	Utilising the findings of the Energy Options Analysis and gaining political approval will be critical in order to realise the value of this piece of work.	This will follow after the final report and presentation has been completed.	To start after completion of the EOA in June 23, but internal discussions to be occurring before that	
3	Open Data Utility reports	2	Links to Task 17, 18, 19, 20 and 21	JR assisted by FHB	By June 2023 have knowledge and understanding of the current situation regarding open data, (i.e what data is available to use freely and what is not) for all of the utilities. Have awareness of utilities future steps as they transition towards Net Zero, and have started to form contacts within the utility companies to assist understanding.	The work will help enable an informed (but caveated) decision to be taken regarding particular sites, and will help to streamline the site selection and feasibility stages of projects.	Electricity report completed Jul 20, and reviewed Aug 22. To be added to as necessary as a result of RII0 ED2 Gas, Water and Digital remain.	Information gathering from utility websites etc Preparation of reports for Gas, Water and Digital	Gas- Cadent website Water -Anglian Water/ Severn Trent websites Digital - Infrastructure - Openreach/ Virgin media websites Caroline Illingworth, GLEP
4	UKFV Local Area Energy Plan (LAEP)	7	Independent of Task 1, but potential link to Task 10 c and 12	UoR/ GLEP	LAEP for the Southern part of the UKFV	LAEP can provide sound foundations for effective and sustained local action to cut carbon emissions taken by well-informed local leaders and initiative-takers. The resulting plan can potentially underpin specific proposals to upgrade local energy networks to enable decarbonisation in line with local objectives.	JR has been asked to join the task and finish group and the Governance Group to input from energy option analysis side and be aware of what LAEP doing to avoid duplication. LAEP work started Aug 22	Explore if other LAEPs have been produced in Lincs.	
5	Develop a repository of information for energy related Nationally Significant Infrastructure Projects (NSIP)	Completed. Needs updating as new energy related NSIP arise	Linked to Task 11	JR with assistance where required.	A repository of energy related projects and schemes to form an intelligence base that can be used as a reference source. Including an overview sheet for all schemes.	Quickly being able to obtain County wide information about energy NSIPs schemes, understanding their proposal, location and scale.	This repository will need to be regularly updated and maintained.	Keep the repository of information up to date when new energy related NSIPs arise. Investigate possibility of mapping energy related NSIPs on to Map of Lincs.	
6	LCC Interests in the Energy Agenda	Completed. But needs comments from others and then updating		JR with input from other Depts	An overview of the Energy Agenda, and an appreciation of the multi discipline nature and links to other areas.	Visual representation of different elements of the energy agenda that easily identifies how wide ranging and diverse the sector is and how elements interrelate.	This was drafted in March 2022, and therefore might need to be updated to reflect the British Energy Security Strategy	Update as necessary to reflect current energy picture. Consult with other relevant departments (Vanessa's team/ Sustainability) to ensure coverage of all possible angles	
7	Water - South Lincolnshire Reservoir. LEP Water Strategy	19	Connected to, but not dependant on Task 19	Anglian Water	Intelligence of South Lincolnshire Reservoir project - timescales, preferred option, proposed plans and any utility implications	Awareness of this project and ability to share this information and point people in the right direction as and when necessary.	Possible role to play in helping the project work out the business/ water opportunities - water in industrial processes, land irrigation etc.	Reading GLEP Water Strategy and info on SLR when AW send this.	
Place - Specific sites and areas - Understanding the local utility landscape. Allowing informed decisions to be made for specific sites.									
9	South Lincolnshire Food Enterprise Zone Ph 2 and Ph 3.	9	Connected to Task 1, 4 and 10 c	SL FEZ project team (inc JR)	Understanding the energy options available (inc renewables) for Ph 2 and Ph 3 of the SL FEZ with the view that constraints could be resolved by undertaking one or more of the options.	Potential for local energy solutions to be used to help power the next Phases of the SL FEZ. This will help the transition to Net Zero, have potential to increase the skills sets in the local area, and could be used as a case study/ model of best practice to promote alternative energy uses within Lincolnshire.	There is no allocation of power/capacity currently in the WPD network for Ph 2 and Ph 3 of the SL FEZ development, although there is an application to temporarily divert power from the residential development proposed on the East side of the A151. Ph 2 and 3 will potentially be developed over the next 10-15 yrs so there could be options to generate own electricity and set up an independent Distribution Network (IDNO). Interest and expectations from potential companies wishing to location at SLFEZ for low carbon energy provision.	Revisit Sustainable Direction report to see if anything still valid. Get update from SH re Energy Oasis proposal on feasibility for power generation on Ph 2 of the SL FEZ. Was this work commissioned? b - Update from Simon Wright - suggested that this work fizzled out without going anywhere, but will get an update to confirm. Possibility of AD with food waste collection being feedstock? Currently only one AD facility in the County (Hemswell Cliff) that accepts food waste. Requirements and logistics for locating AD at SLFEZ would need to be considered - space, would this be the best option for energy generation, delivery of feedstock, etc. 13.9.22 - Meeting with GLEP, Homes England and SHDC to talk about the potential for joint opportunities for alternative power provision for future phases of the SL FEZ and adjacent residential.	Ian Walker, LCC
9	Horncastle Industrial Estate extension	Utilities information provided, so completed at the current stage		HR - JR maintaining an overview of project	Establishing if there is enough power for planned Horncastle Industrial Estate extension, and if not, what alternatives could be available	Supports economic growth and thriving environments.	Hayley will be leading on this project, but JR will be maintaining an overview.	Liaison, as and when appropriate	Hayley Redford
10	Determine work programmes for Alternative Energy /Digital options in the locations below, looking at areas of -hydrogen, bio fuels, solar, wind, battery storage, energy from waste (EFW)								
10(a)	Greater Lincoln	15	To be looked at after Task 1 completed	Explore whether have sufficient expertise internally to carry out work of this nature. If not additionally support may need to be procured. This work programme will not start until after the Energy Options Analysis work has been completed (April 2023), and the order that the local areas get look at will need to be determined. An agreed work programme and budget is required to determine alternative energy options available in the project areas. This work programme will also help to establish options to help pathway to Net Zero.	An awareness of alternative energy options in specific places to help enable growth of thriving environments, support high aspirations across Lincolnshire and assist in the transition to Net Zero.	- How does this work link with LAEP? Esp the South Holland/Boston location with the planned UKFV LAEP - Discussions with districts- has any work already been carried out. Could any partners help with this process?	Cross reference against the findings of the Energy Option Analysis. Then: 1. Clarification of areas - map define boundaries and map. What is required in terms of capacity in these areas - planned level of growth. 2. Establish budget and who is going to do this work. Is there sufficient internal expertise or does this work need to be carried out externally?	CoR/ NKDC?	
10(b)	Grantham A1 corridor	17	To be looked at after Task 1 completed						Simon Wright - LCC for info about background of Grantham A1 corridor
10(c)	South Holland / Boston	14	To be looked at after Task 1 completed, potential link to Task 4						Caroline Illingworth to find out what happening with the UKFV LAEP
10(d)	Coast	16	To be looked at after Task 1 completed, could also link to Task 4						Nicola Radford - LCC re what is happening on the coast, areas of development that may have utility constraints.
11	Involvement in review of energy related NSIP applications inc: (Tilbridge Lane Solar Farm, Outer Dowsing Offshore Wind, West Burton Solar Farm, Cotta Solar Farm, Gate Burton Solar Farm, Net Zero Pipeline (Harbour Energy), Humber Low Carbon Pipeline)	5	Linked to Task 5	JR and additional support when required	Understanding what benefits these projects could have on the local area and helping to create thriving environments that have high aspirations as per LCCs Corporate Plan.	This links to Task 5. LCC have no control over NSIP applications and their timescales and therefore this work stream may require other work streams to temporarily be put on hold because of it.	Timescale dependant on specific proposal - each project at different stages. A standard approach and checklist for what needs to be looked at needs to be established to ensure that looking at correct things and not missing out any relevant points.	Project specific, but Neil McBride for all socio economic comments	
Problem Solving - Understanding network capacity issues, and where constraints exist have the knowledge and awareness to look for potential local innovative solutions to assist growth in these areas.									
12	The need for power in southeast Lincs to enable the development of large-scale glass houses	10	Connected to Task 1, could be linked to Task 8 and 10 (c)	TBC	Growth - For developers to know how to contact the DNOs to find out information regarding the network capacity in the area, or what alternatives might be available.	Developers will be able to build what they need to which will result in growth, employment opportunities and innovation.	Sept 22 - Note WPD changed names to National Grid.	Be available to provide basic advice if necessary. Attend relevant meetings accordingly.	Relevant WPD staff - open data information on WPDs website. (note since Sept 22 name change to National Grid)
13	Alternative, especially hydrogen, fuel for LCC fleet (i.e Transport, Waste, Highways) and public transport.	17	Linked to the transport element of Task 1	TBC	Viability of running vehicles on Hydrogen or alternative fuels.	Carbon reduction - adhering to the Green Masterplan	Explore and liaise with other services areas to establish baseline (Waste, Highways etc).	Liaise with LCC colleagues over medium to long terms to understand what is happening locally, regionally and nationally.	Jason Copper, LCC - note Sept 22 Jason has now left LCC.
14	How are Homes England and the electricity providers responding to the Levelling Up White Paper ?	12		TBC	TBC	Dependant on what the outcome of the piece of work is.	Read Levelling up white paper Contact Homes England Research Levelling Up and Regeneration Bill mentioned in the Queen's speech to see if this will have impacts.	Jane Tricker, Homes England	
15	Links between Waste and Energy	11	Links to Tasks 1, 8, 10 & 12 (Task 8 and 12 because of the links with AD)		Increased knowledge and understanding of the links between waste and energy, and what opportunities might be available. Collaboration with other Council Services.	Possible colocation of industries, food waste collection disposal route	LCC are members of ADBA - AD and Biomass Association - https://adbresources.org/ - Membership runs out in the Autumn	Researching ADBA.	Mike Reed, Matthew Michell LCC
Breaking through communication barriers. Liaising with utility companies, forming relationships and developing clear communication channels to gain understanding of how they operate, direction of travel and their future investment plans to link to plans in Lincolnshire.									
16	Regular communication updates to relevant groups to inform about progress in the utilities field	6	Linked to all elements of work programme	JR	Relevant groups having awareness of the utility work and LCC's leadership role in the field	Demonstrating leadership, making connections to enable growth, Information sharing and raising awareness	Establish list of groups that need to be updated - formulate programme of updates - topics etc Oct 22 - Paper for October Infrastructure Group meeting & bi-monthly updates Oct 22 - Growth / Communities AD & HoS event Nov 22 - Paper to November E&E Scrutiny Cttee & periodic updates To arrange - Presentation to SMLT - Periodic updates to GLEP Energy Council & subgroups - Periodic updates to Developers Forum - Periodic updates to Chamber of Commerce Policy Boards - Periodic updates to DLT - Periodic discussion at E&E CPB	Formulate a template that can be used to update relevant parties.	
17	Establishing a programme of meetings with Northern Powergrid (NPG) to discuss growth priorities in the Lincolnshire area	3	Connected to but not dependant on Task 3	JR	1. Creating clear communications channels 2. Gaining efficient and effective answers to questions 3. Understanding their network assets, capacity, constraints and future plans	Enabling communication and collaboration to support growth of thriving environments	June 22 - Two meetings have been held with NPG to date. NPG have suggested that they will be able to review their Network capacity in a specific area if size of development and 6 figure grid references were provided. To date no one has provided this information to them. July 22 - Meeting set up with NPG 14/10/12 (Note - resent meeting invitation to WLDC after feedback from IG) Think about how EOA links to this	Aug 22 - Feedback from RII0 ED2 Prepare agenda for October meeting	Paul Glendinning (NPG), Anda Baumerte (NPG), Richard Proctor (NPG)
18	Establishing appropriate names and contact details for relevant staff to develop a programme of meetings with Western Power Distribution (WPD) to discuss growth priorities in the Lincolnshire area (Note - from Sept '22 WPD changed name to National Grid)	4	Connected to but not dependant on Task 3	JR			Next round of stakeholder workshops Sept 22 Think about how EOA links to this	1. Find relevant contact details and progress meetings with WPD. 2. Review what open data is available regarding network assets and capacity 3. Review RII0 ED2 business plans	Mick Nuttley - North Lincs Distribution Manager Ian Brooks - South Lincs Distribution Manager

19	Establishing appropriate names and contact details for relevant staff at Anglian Water and Severn Trent Water to develop a programme of meetings to discuss growth priorities in the Lincolnshire area.	18	Connected to but not dependant Task 3 and 7	JR				1. Find relevant contact details and progress meetings with AW and ST 2. Review what open data is available regarding network assets and capacity 3. Review any available business plans for future development	
20	Establishing appropriate names and contact details for relevant staff at BT Openreach and other digital infrastructure providers to develop a programme of meetings to discuss growth priorities in the Lincolnshire area.	20	Connected to but not dependant on Task 3	JR				1. Find relevant contact details and progress meetings with Openreach 2. Review what open data is available regarding network assets and capacity 3. Review any available business plans for future development	LCC - Stephen Brooks?
21	Establishing appropriate names and contact details for relevant staff at Cadent to develop a programme of meetings to discuss growth priorities in the Lincolnshire area.	13	Connected to but not dependant on Task 3	JR				1. Find relevant contact details and progress meetings with Cadent. 2. Review what open data is available regarding network assets and capacity 3. Review any available business plans for future development	
22	Establishing relationship with Midlands Energy Hub to understand what work they are doing in Lincolnshire and collaborate where possible	8	Information learnt from this task could link to and influence other projects	JR	1. Dialogue and collaboration - information exchange and sharing best practice 2. Knowledge of projects across the East Midlands that Midlands Energy Hub are undertaking.	Collaborative working and sharing best practice to aid growth and the transition to Net Zero	Awaiting response from Jack Hayhoe		Jack Hayhoe