

Net Zero North West

Project Intelligence Platform
Specifications Tool

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Introduction

As NZNW continues to drive industrial decarbonisation efforts in the region, the need for robust and dynamic project intelligence has become increasingly clear.

The current projects list, developed through the North West Industrial Cluster Plan, is plagued with outdated information, lack of detail, and several assumptions and gaps. This poor quality and lack of accuracy do not stand up to scrutiny, leading to a weak evidence base that hampers our ability to secure necessary investments, create jobs, and achieve significant carbon reductions.

To address these challenges, the proposed Project Intelligence Platform (PIP) will provide a more accurate and up-to-date database of projects. By integrating advanced data analytics and modelling capabilities, the platform will enable us to track the development, delivery, and operational phases of each project throughout its lifecycle. This will ensure we can accurately identify when capital investments are confirmed and made, jobs are created, and carbon reductions are realised.

Moreover, this platform is envisioned to become a critical tool for all stakeholders involved, from government bodies to private sector partners and academic institutions. By offering a centralised hub for project data, the platform will facilitate better communication, collaboration, and decision-making across the board. This will not only streamline our decarbonisation efforts but also enhance the overall impact and efficiency of our initiatives. The PIP is a critical tool in supporting This stage involves defining the platform's scope and functionalities through comprehensive requirements gathering and stakeholder engagement. It lays the groundwork for a tool that is tailored to the needs of all users. It will be realised and executed across three key stages: Specification, Build, and Populate.

This document aims to address what is the first of three key stages for the development of the PIP, the 'Specification Stage.' This stage involves defining the platform's scope and functionalities through comprehensive requirements gathering and stakeholder engagement. It lays the groundwork for a tool that is tailored to the needs of all users. Specifically, the document provides detailed specifications on the PIP's functionalities, covering data input, processing, analytics, and reporting capabilities. It will also help to guide the subsequent stages of the PIP's development.

System Requirements Gathering:

The NZNW Project Intelligence Platform has been specified in a manner that allows for the correct data retention at the outset of the project to ensure there is no future intelligence gap. The specifications have been outlined in five groupings:

- 1) Project Identification
 - 2) Project Details
 - 3) Impact Metrics
 - 4) Finance and Investment Data
 - 5) Performance Tracking
- to allow for a structured build.

Structure:

For each data field there is a range of information and descriptors to make the requirement of the field clear.

Each field has an indication whether the data can be predefined and inputted via a validated list. This will increase efficiency and support reporting, making the tool more effective. These validated lists can be found on the 'Inputs' tab. Although these can be edited and changed during the data entry phase it would be best if they were agreed before or during the build phase. Each data field has a requirement priority. Stakeholders have not challenged the stated preferences and so the stated priority preference should be used.

The type of data expected to be held in the field is defined in column H. This indicates if the data will be a number, text etc.

An expected indication of how feasible it will be to obtain the data is included in column I. We have retained this information to guide the data inputting organisation on how they should direct their efforts when gaining the data.

An expected indication of where the data will be obtained is included in column J. We have made suggestions where and how we expect the data to be sourced to aid with any automation that can be achieved.

Finally we have identified who will be able to access (see) the data. This is imperative to have identified to ensure there are no data breaches or the incorrect dissemination of sensitive data that the provider does not wish to be shared. It is important that the developer of the system is able to ensure that user profiles are included so that data confidentiality is achieved.

Modelling for Data Inputting Stage:

For the People & Skills Section, a high level employment modelling can be implemented as per the methodologies used in other studies (the DESNZ Regional Jobs Calculators (Opergy) - <https://opergy.co.uk/wp-content/uploads/2024/06/Opergy-Report-for-the-Power-Sector-Regional-Jobs-Estimates-Project-Dec-v3.pdf>, OEUK Workforce Insights - <https://oeuk.org.uk/product/oeuk-workforce-insight-2023/> or OWIC Skills Intelligence Report - <https://www.owic.org.uk/media/gf5ddwxt/offshore-wind-skills-intelligence-report-2023.pdf>)

Individual Job Role modelling can be implemented by using methodologies from other studies (Energy Skills Intelligence Hub (OPITO/Opergy - <https://www.energyskillshub.co.uk/methodology/> or Robert Gordon University - <https://www.rgu.ac.uk/wp-content/uploads/2023/09/powering-up-the-workforce.pdf>)

Data Input:

Although efficiencies should be added into the tool wherever possible, it is not envisaged that the tool will be significantly automated or draw data from external sources. This is due to much of the data being bespoke and needing to be identified for this project. For reasons of standardisation, security and control it is envisaged that the data will be populated manually, ensuring the data within it is correct, of high quality and is understood by the users.

Assumptions

For the financial estimation of Capital Expenditure on energy if the expenditure is unknown then we can use the following expenditure assumptions:

Technology	CAPEX £m/MW
Wind Onshore	1.5
Wind Offshore	3.4
CCGT	0.61
OCGT	0.32
Biomass	2.53
Nuclear	6
Solar	0.84
Wave and Tidal	3
Hydrogen	0.82
Battery Storage	1.37
Pumped hydro storage	1.93

For the carbon saving from switching fuel types it is recommended that NZNW uses the Government conversion factors below. The difference in the carbon generated can be calculated either by quantity of fuel used or the energy produced. For hydrogen we suggest that the current year's grid electricity carbon value is used to calculate the carbon saving, using the assumption that the hydrogen is produced from grid power, unless the carbon value of the hydrogen being used has been ascertained.

Any electricity produced exclusively by a known renewable can be given the carbon value in the second table below.

Grid Electricity

Activity	Unit	Year	kg CO ₂ e
Electricity	kWh	2024	0.20705

Renewable Electricity

Activity	Fuel	Unit	kg CO ₂ e
Electricity	Solar	kWh	0.041
Electricity	Nuclear	kWh	0.02
Electricity	Wind - Onshore	kWh	0.011
Electricity	Wind - Offshore	kWh	0.012

Other Fuels

Gaseous Fuels		
Fuel	Unit	kg CO ₂ e
Butane	tonnes	3033.38
	litres	1.75
	kWh (Net CV)	0.24
	kWh (Gross CV)	0.22
CNG	tonnes	2568.16
	litres	0.45
	kWh (Net CV)	0.20
	kWh (Gross CV)	0.18
LNG	tonnes	2590.46
	litres	1.17
	kWh (Net CV)	0.20
	kWh (Gross CV)	0.18
LPG	tonnes	2939.36
	litres	1.56
	kWh (Net CV)	0.23
	kWh (Gross CV)	0.21
Natural gas	tonnes	2568.16
	cubic metres	2.05
	kWh (Net CV)	0.20
	kWh (Gross CV)	0.18
Petrol (average biofuel blend)	tonnes	2778.53
	litres	2.08
	kWh (Net CV)	0.23
	kWh (Gross CV)	0.22
Petrol (100% mineral petrol)	tonnes	3154.08
	litres	2.35
	kWh (Net CV)	0.25
	kWh (Gross CV)	0.24

Liquid Fuels		
Diesel (average biofuel blend)	tonnes	3014.09
	litres	2.51
	kWh (Net CV)	0.25
	kWh (Gross CV)	0.24
Diesel (100% mineral diesel)	tonnes	3203.91
	litres	2.66
	kWh (Net CV)	0.27
	kWh (Gross CV)	0.25
Fuel oil	tonnes	3228.89
	litres	3.17
	kWh (Net CV)	0.29
	kWh (Gross CV)	0.27
Gas oil	tonnes	3226.58
	litres	2.76
	kWh (Net CV)	0.27
	kWh (Gross CV)	0.26
Lubricants	tonnes	3181.00
	litres	2.75
	kWh (Net CV)	0.28
	kWh (Gross CV)	0.26
Naphtha	tonnes	3142.38
	litres	2.12
	kWh (Net CV)	0.25
	kWh (Gross CV)	0.24

Biofuel		
Bioethanol	litres	0.01
	GJ	0.42
	kg	0.01
Biodiesel ME	litres	0.17
	GJ	5.06
	kg	0.19
Biodiesel HVO	litres	0.04
	GJ	1.04
	kg	0.05
Biopropane	litres	0.00
	GJ	0.09
	kg	0.00
Biomethane (liquified)	litres	
	GJ	0.11
	kg	0.01
Methanol (bio)	litres	0.01
	GJ	0.42
	kg	0.01

Biomass		
Wood logs	tonnes	46.26
	kWh	0.01
Wood chips	tonnes	42.76
	kWh	0.01
Wood pellets	tonnes	54.34
	kWh	0.01
Grass/straw	tonnes	54.09
	kWh	0.01

Biogas		
Biogas	tonnes	1.26
	kWh	0.00
Landfill gas	tonnes	0.70
	kWh	0.00

Other energy type carbon emission values are available. For a full list see - https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fassets.publishing.service.gov.uk%2Fmedia%2F6722566a3758e4604742aa1e%2Fghg-conversion-factors-2024-condensed_set_for_most_users_v1_1.xlsx&wdOrigin=BROWSELINK

PROJECT IDENTIFICATION

This data grouping is for the identification of the static individual project data, capturing project information to allow for the classification of organisations to enable grouping and filtering of the future aggregated data. The majority of this data is normal information that has industry standard specifications for field size and content requirements.

PROJECT ID								
Category	Sub Category	Description	Pre-Defined Data (If Applicable)	Requirement Priority	Data Type	Feasibility to Obtain (L/M/H)	How/Where to Obtain	Who will be able to Access it?
Project ID	N/A	A unique identifier assigned to each project for easy reference.		Must have	Number	High	Pre-Defined Data	All NZNW members
	Client Name & Contact Details	Name of the client with their preferred contact details.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Lead Collaborator	Who the primary collaborator is.	N/A	Must have	Open Text	High	Developer	All NZNW members
	Collaboration Partners	Who the lead collaborator's partners are.	N/A	Must have	Open Text	High	Developer	All NZNW members
Project Name	Full Name	The official full name of the project as recognised by stakeholders.	N/A	Must have	Open Text	High	Public Domain	All NZNW members
	Abbreviated Name	A shortened version of the project name, if applicable, for easier reference.		Could have	Open Text	High	Pre-Defined Data	All NZNW members
Description	Objectives	The specific goals the project aims to achieve.	N/A	Must have	Open Text	High	Developer	All NZNW members
	Scope	The boundaries and extent of the project's activities and deliverables.	N/A	Must have	Open Text	High	Developer	All NZNW members
	Expected Outcomes	The intended results or benefits expected from the project.	N/A	Must have	Open Text	High	Developer	All NZNW members
	Project Justification	The rationale behind why the project is necessary.	N/A	Must have	Open Text	High	Developer	All NZNW members
Owner/ Organisation	Organisation Name	The name of the organisation responsible for the project.	N/A	Must have	Open Text	High	Public Domain	All NZNW members
	Organisation Type	The type of organisation (e.g. public, private, NGO).		Must have	Defined Text	High	Public Domain/Pre-Defined Data	All NZNW members
	Department/Division	The specific department or division within the organisation overseeing the project.	N/A	Must have	Open Text	High	Public Domain	All NZNW members
Contact Info	Primary Contact Name	The main individual responsible for project-related communication.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Role/Title	The position or title of the primary contact within the organisation.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Email Address	The primary contact's email address.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Phone Number	The primary contact's phone number.	N/A	Must have	Number	Medium	Developer	NZNW team only
	Secondary Contact Name	An alternative contact person in case the primary contact is unavailable.	N/A	Should have	Open Text	High	Developer	NZNW team only
	Secondary Contact Details	Email and phone details for the secondary contact.	N/A	Should have	Open Text	Medium	Developer	NZNW team only
	Web Address	The organisation's URL.	N/A	Must have	Open Text	High	Public Domain	All NZNW members
Project Location	Address	The physical address where the project is located.	N/A	Must have	Open Text	High	Public Domain	All NZNW members
	City	The city in which the project is based.	N/A	Must have	Defined Text	High	Public Domain	All NZNW members
	Post Code	The postal code for the project location.	N/A	Must have	Open Text	High	Public Domain	All NZNW members
	Country	The country where the project is situated.	N/A	Must have	Defined Text	High	Public Domain	All NZNW members
	Geographic Coordinates	Latitude and longitude for precise location tracking.	N/A	Should have	Number	High	Public Domain	All NZNW members
	Site Description	A brief description of the site's characteristics		Should have	Open Text	High	Pre-Defined Data	All NZNW members
Project Type	Primary Classification	The main category of the project		Must have	Defined Text	High	Public Domain/Pre-Defined Data	All NZNW members
	Sub-Type	A more specific classification within the primary category		Must have	Defined Text	High	Public Domain/Pre-Defined Data	All NZNW members
	Technology Type	The specific technology or method used in the project		Must have	Defined Text	High	Public Domain/Pre-Defined Data	All NZNW members

These are the dynamic details of a project that may change and expand over time. They provide information on the progress and environment of a project. Some of them will need dynamic fields that will be added once the previous field has been completed. We have suggested a maximum of five repetitions for these fields, though it may require more depending upon how the platform is used.

Project Details		Project Overview						
Category	Sub Category	Description	Pre-Defined Data (If Applicable)	Requirement Priority	Data Type	Feasibility to Obtain (L/M/H)	How/Where to Obtain	Who Will be Able to Access it?
Project Status	Status	The current phase of the project		Must have	Defined Text	High	Public Domain/Pre-Defined Data	All NZNW members
	Status Date	The date when the project's status was last updated.	N/A	Must have	Date	Medium	Public Domain/Developer	All NZNW members
Project Dependency 1	Dependency Description	A brief description of how the project relies on other projects for its successful completion.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Dependency Impact	The potential consequences for the project if the dependent projects face delays or issues.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Mitigation Strategy for Dependencies	Plans or strategies in place to manage risks associated with project dependencies.	N/A	Must have	Open Text	Medium	Developer	NZNW team only
Project Dependency 2	Dependency Description	A brief description of how the project relies on other projects for its successful completion.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Dependency Impact	The potential consequences for the project if the dependent projects face delays or issues.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Mitigation Strategy for Dependencies	Plans or strategies in place to manage risks associated with project dependencies.	N/A	Must have	Open Text	Medium	Developer	NZNW team only
Project Dependency 3	Dependency Description	A brief description of how the project relies on other projects for its successful completion.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Dependency Impact	The potential consequences for the project if the dependent projects face delays or issues.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Mitigation Strategy for Dependencies	Plans or strategies in place to manage risks associated with project dependencies.	N/A	Must have	Open Text	Medium	Developer	NZNW team only
Project Dependency 4	Dependency Description	A brief description of how the project relies on other projects for its successful completion.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Dependency Impact	The potential consequences for the project if the dependent projects face delays or issues.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Mitigation Strategy for Dependencies	Plans or strategies in place to manage risks associated with project dependencies.	N/A	Must have	Open Text	Medium	Developer	NZNW team only
Project Dependency 5	Dependency Description	A brief description of how the project relies on other projects for its successful completion.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Dependency Impact	The potential consequences for the project if the dependent projects face delays or issues.	N/A	Must have	Open Text	High	Developer	NZNW team only
	Mitigation Strategy for Dependencies	Plans or strategies in place to manage risks associated with project dependencies.	N/A	Must have	Open Text	Medium	Developer	NZNW team only
Start Date and End Date	Proposed Start Date	The initial planned start date for the project.	N/A	Should have	Date	High	Public Domain/Developer	All NZNW members
	Actual Start Date	The actual date on which the project commenced.	N/A	Must have	Date	High	Public Domain/Developer	All NZNW members
	Proposed End Date	The initially planned completion date.	N/A	Should have	Date	High	Public Domain/Developer	All NZNW members
	Actual End Date	The date the project was completed.	N/A	Must have	Date	Medium	Public Domain/Developer	All NZNW members
Key Milestone 1	Delays	Details of any delays encountered, including reasons.	N/A	Must have	Open Text	Medium	Developer	NZNW team only
	Milestone Name	The title of a significant event or achievement in the project.	N/A	Must have	Open Text	Medium	Public Domain/Developer	All NZNW members
	Description	A brief explanation of the milestone.	N/A	Must have	Open Text	Medium	Public Domain/Developer	All NZNW members
	Planned Completion Date	The expected date for achieving the milestone.	N/A	Should have	Date	Medium	Public Domain/Developer	All NZNW members
	Actual Completion Date	The date the milestone was actually achieved.	N/A	Must have	Date	Medium	Public Domain/Developer	All NZNW members
	Responsible Party	The individual or team responsible for achieving the milestone.	N/A	Should have	Open Text	Medium	Developer	All NZNW members
	Dependencies	Other tasks or projects that must be completed before this milestone.	N/A	Must have	Open Text	Medium	Developer	NZNW team only
Key Milestone 2	Milestone Name	The title of a significant event or achievement in the project.	N/A	Must have	Open Text	Medium	Public Domain/Developer	All NZNW members
	Description	A brief explanation of the milestone.	N/A	Must have	Open Text	Medium	Public Domain/Developer	All NZNW members
	Planned Completion Date	The expected date for achieving the milestone.	N/A	Should have	Date	Medium	Public Domain/Developer	All NZNW members
	Actual Completion Date	The date the milestone was actually achieved.	N/A	Must have	Date	Medium	Public Domain/Developer	All NZNW members
Key Milestone 3	Responsible Party	The individual or team responsible for achieving the milestone.	N/A	Should have	Open Text	Medium	Developer	All NZNW members
	Dependencies	Other tasks or projects that must be completed before this milestone.	N/A	Must have	Open Text	Medium	Developer	NZNW team only
	Milestone Name	The title of a significant event or achievement in the project.	N/A	Must have	Open Text	Medium	Public Domain/Developer	All NZNW members
	Description	A brief explanation of the milestone.	N/A	Must have	Open Text	Medium	Public Domain/Developer	All NZNW members
	Planned Completion Date	The expected date for achieving the milestone.	N/A	Should have	Date	Medium	Public Domain/Developer	All NZNW members
	Actual Completion Date	The date the milestone was actually achieved.	N/A	Must have	Date	Medium	Public Domain/Developer	All NZNW members
	Responsible Party	The individual or team responsible for achieving the milestone.	N/A	Should have	Open Text	Medium	Developer	All NZNW members
Key Milestone 4	Dependencies	Other tasks or projects that must be completed before this milestone.	N/A	Must have	Open Text	Medium	Developer	NZNW team only
	Milestone Name	The title of a significant event or achievement in the project.	N/A	Must have	Open Text	Medium	Public Domain/Developer	All NZNW members
	Description	A brief explanation of the milestone.	N/A	Must have	Open Text	Medium	Public Domain/Developer	All NZNW members
	Planned Completion Date	The expected date for achieving the milestone.	N/A	Should have	Date	Medium	Public Domain/Developer	All NZNW members
Key Milestone 5	Actual Completion Date	The date the milestone was actually achieved.	N/A	Must have	Date	Medium	Public Domain/Developer	All NZNW members
	Responsible Party	The individual or team responsible for achieving the milestone.	N/A	Should have	Open Text	Medium	Developer	All NZNW members
	Dependencies	Other tasks or projects that must be completed before this milestone.	N/A	Must have	Open Text	Medium	Developer	NZNW team only
	Milestone Name	The title of a significant event or achievement in the project.	N/A	Must have	Open Text	Medium	Public Domain/Developer	All NZNW members
	Description	A brief explanation of the milestone.	N/A	Must have	Open Text	Medium	Public Domain/Developer	All NZNW members

IMPACT METRICS

This data grouping is where the identification and achievement of non financial benefits can be monitored. These data fields will change frequently as the project develops and is able to provide updated information for these fields.

IMPACT METRICS									
	Category	Sub Category	Description	Pre-Defined Data (If Applicable)	Requirement Priority	Data Type	Feasibility to Obtain (L/M/H)	How/Where to Obtain	Who Will be Able to Access it?
People and Skills	Job Phases	Consenting/Design	Number and types of jobs involved in the project's initial approval and planning stages.	N/A	Should have	Number	Medium	Combination of Developers themselves and Modelling	All NZNW members
		Manufacturing	Employment generated during the production of materials or equipment for the project.	N/A	Should have	Number	Medium	Combination of Developers themselves and Modelling	All NZNW members
		Construction	Jobs created during the physical construction or installation of the project.	N/A	Must have	Number	High	Combination of Developers themselves and Modelling	All NZNW members
		Operations & Maintenance	Long-term jobs required to run and maintain the project once it's operational.	N/A	Must have	Number	High	Combination of Developers themselves and Modelling	All NZNW members
		Decommissioning	Jobs involved in safely dismantling or repurposing the project at the end of its lifecycle.	N/A	Should have	Number	Medium	Combination of Developers themselves and Modelling	All NZNW members
	Job Family	Leadership	Jobs estimated in the Leadership Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Technical	Jobs estimated in the Technical Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Professional	Jobs estimated in the Professional Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Consenting & Project Management	Jobs estimated in the Consenting & Project Management Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Corporate Services	Jobs estimated in the Corporate Services Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		HSEQ	Jobs estimated in the HSEQ Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		People Development	Jobs estimated in the People Development Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Commercial	Jobs estimated in the Commercial Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Facilities	Jobs estimated in the Facilities Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Drilling/Wells	Jobs estimated in the Drilling/Wells Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Civil Construction	Jobs estimated in the Civil Construction Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Fabrication Yards	Jobs estimated in the Fabrication Yards Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Factories & Manufacturing	Jobs estimated in the Factories & Manufacturing Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Asset Operations	Jobs estimated in the Asset Operations Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Electrical	Jobs estimated in the Electrical Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Mechanical	Jobs estimated in the Mechanical Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Marine & Ports	Jobs estimated in the Marine & Ports Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Aviation	Jobs estimated in the Aviation Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
		Subsea	Jobs estimated in the Subsea Job Family.	N/A	Could have	Number	Medium	Combination of Developers themselves and Modelling.	NZNN team only
	Skills and Workforce Development	Number of Jobs Required	Job demand for project's realisation.	N/A	Must have	Number	High	Developers themselves and/or modelling.	All NZNW members
		Type of jobs Required	Types of jobs needed for project's realisation.	N/A	Should have	Defined Text	Medium	Developers themselves and/or modelling.	All NZNW members
		Skills Shortages Identified	Specific areas where a lack of skilled workers could impact the project.	N/A	Must have	Open Text	Medium	Developers themselves and desk-based research (public domain)	NZNN team only
		Training Initiative Types	Programs or partnerships established to address identified skills gaps within the workforce.	N/A	Must have	Open Text	High	Developers themselves, training bodies and/or desk-based research (public domain).	All NZNW members
		Training Initiative Volumes	Number of programmes or partnerships established.	N/A	Should have	Number	High	Developers themselves, training bodies and/or desk-based research (public domain).	All NZNW members
Socio-Economic	Carbon Intensity Reduction	Local Employment Rate Impact	The effect of the project on local employment rates, particularly in creating or safeguarding jobs.	N/A	Should have	Open Text	Low	Desk-based research (public domain).	All NZNW members
		Training Provided	Information on any training provided to employees as part of the job.	N/A	Could have	Open Text	Medium	Developers themselves, training bodies and/or desk-based research.	All NZNW members
		Baseline Carbon Intensity	The project's starting level of carbon emissions per unit of output.	N/A	Could have	CO2e	Medium	Developers themselves / DESNZ National Atmospheric Emissions Inventory (Point Sources)	All NZNW members
		Baseline Carbon Production	The project's starting level of carbon from current operations.	N/A	Could have	CO2e	Medium	Developers themselves / DESNZ National Atmospheric Emissions Inventory (Point Sources)	All NZNW members
		Expected Carbon Saving	The expected level of carbon being saved by the project's lifetime.	N/A	Must have	CO2e	High	Developers themselves / DESNZ National Atmospheric Emissions Inventory (Point Sources)	All NZNW members
	Economic Impact	Post-Implementation Carbon Intensity	The expected level of carbon emissions after the project's completion.	N/A	Must have	CO2e	High	Developers themselves and/or Public Domain	All NZNW members
		Reduction Percentages	The percentage decrease in carbon emissions as a result of the project.	N/A	Should have	%	Medium	Dependent on outcome of previous two data inputs. Likely a simple calculation.	All NZNW members
		Published Carbon Saving	The published amount of carbon saved by the project.	N/A	Must have	CO2e	High	Desk-based research (public domain).	All NZNW members
		Calculated Carbon Saving	The calculated amount of carbon saved by the project.	N/A	Could have	CO2e	Medium	Developers themselves.	NZNN team only
		Timeframe for Full Reduction Realisation	The period over which the full carbon reduction benefits are expected to materialise.	N/A	Must have	Date	Medium	Combination of Developers themselves and internal assumptions.	All NZNW members
	Community Impact	GDP Contribution	The project's estimated contribution to the local or regional economy.	N/A	Must have	£	High	Developers themselves.	All NZNW members
		Multiplier Effect	The broader economic impacts generated by the project (e.g., increased local business revenue).	N/A	Should have	Open Text	Medium	Internal assumptions.	All NZNW members
		Investment Attraction	The project's potential to attract additional investments in related areas.	N/A	Should have	Open Text	Low	Developers themselves, desk-based research (public domain) and internal assumptions.	All NZNW members
		Local Supply Chain Development	The project's potential to support and strengthen local supply chains.	N/A	Should have	Open Text	Medium	Developers themselves and relevant businesses, companies in local supply chain(s).	All NZNW members
		Community Engagement Initiatives	Programs or efforts to involve the local community in the project.	N/A	Should have	Open Text	High	Developers themselves.	All NZNW members
Power	Power	Social Equity	Measures to ensure that the project's benefits are distributed fairly among different social groups.	N/A	Must have	Open Text	High	Developers themselves.	NZNN team only
		Local Supplier Engagement	The extent to which the project engages local suppliers or small businesses.	N/A	Must have	Open Text	High	Developers themselves and desk-based research (public domain)	All NZNW members
		Local Power Implications	Power input into the grid by location	N/A	Could have	Defined Text	Medium	Developers themselves and desk-based research (public domain)	All NZNW members

FINANCIAL AND INVESTMENT DATA

This data grouping is where the identification and achievement of financial information can be monitored. These data fields will change frequently as the project develops and is able to provide updated information for these fields.

FINANCIAL & INVESTMENT DATA								
Category	Sub Category	Description	Pre-Defined Data (If Applicable)	Requirement Priority	Data Type	Feasibility to Obtain (L/M/H)	How/Where to Obtain	Who Will be Able to Access it?
Total Investment	Estimated Total Investment	The projected budget required to complete the project.	N/A	Must have	£	High	Developers themselves and or desk-based research (public domain).	All NZNW members
	Actual Total Investment	The final amount spent on the project.	N/A	Must have	£	Medium	Developers themselves and or desk-based research (public domain).	All NZNW members
	Cost Overruns	Any additional costs incurred beyond the original budget, with explanations.	N/A	Must have	Open Text	Low	Developers themselves.	NZNW team only
Funding Sources	Public Funding	Financial contributions from government bodies.	N/A	Should have	£	High	Developers themselves.	All NZNW members
	Private Funding	Investments from private companies or individuals.	N/A	Should have	£	High	Developers themselves.	NZNW team only
	PPP Contributions	Joint funding from both public and private entities.	N/A	Should have	£	High	Developers themselves.	NZNW team only
	Income Source	Origin of income, whether it be direct income, saving, or CfD		Should have	£	High	Developers themselves.	NZNW team only
	Other Sources	Additional funding from non-profit organisations, international agencies, etc.	N/A	Should have	£	High	Developers themselves.	NZNW team only
	Funding Amounts from Each Source	Specific amounts contributed by each source.	N/A	Should have	£	High	Developers themselves.	NZNW team only
	Funding Conditions/Requirements	Any specific terms or conditions tied to the funding.	N/A	Should have	Open Text	Medium	Developers themselves.	NZNW team only
Financial Milestones	Financial Milestone Name	The name of a significant financial event or target.	N/A	Should have	Open Text	Medium	Developers themselves.	NZNW team only
	Planned Disbursement Date	The expected date for the release of funds.	N/A	Don't need	Date	Low	Developers themselves.	NZNW team only
	Actual Disbursement Date	The date the funds were actually released.	N/A	Could have	Date	Low	Developers themselves.	NZNW team only
	Amount Disbursed	The amount of money released at each milestone.	N/A	Should have	£	Medium	Developers themselves.	NZNW team only
	Linked Project Milestones	The project milestones that are dependent on the disbursement of funds.	N/A	Should have	Open Text	Medium	Developers themselves.	NZNW team only
Budget Allocation	Budget for Planning/Design Phase	Funds allocated for the planning and design stages.	N/A	Should have	£	Medium	Developers themselves.	NZNW team only
	Budget for Construction/Implementation Phase	Funds set aside for construction or implementation activities.	N/A	Must have	£	High	Developers themselves.	NZNW team only
	Budget for Operations/Maintenance Phase	Budget earmarked for the operational and maintenance phase.	N/A	Must have	£	High	Developers themselves.	NZNW team only
	Budget for Contingency/Emergency Funds	Funds reserved for unexpected expenses or emergencies.	N/A	Must have	£	Medium	Developers themselves.	NZNW team only
	Allocation per Project Component	Distribution of the budget across different parts of the project	N/A	Could have	%	Medium	Developers themselves.	NZNW team only

PERFORMANCE TRACKING

This data area is where project management information and intelligence can be stored and updated by the NZNW team to provide an integrated view of the cluster and to identify any themes that are occurring across the constituent projects so that support can be given.

PERFORMANCE TRACKING								
Category	Sub Category	Description	Pre-Defined Data (If Applicable)	Requirement Priority	Data Type	Feasibility to Obtain (L/M/H)	How/Where to Obtain	Who Will be Able to Access it?
Current Progress	Percentage of Project Completion	The current percentage of the project that is complete.	N/A	Could have	%	Medium	Developers themselves and/or internal assumptions.	All NZNW members
	Tasks Completed vs. Tasks Pending	A comparison of what has been accomplished versus what remains to be done.	N/A	Don't need	Open Text	Medium	Developers themselves.	NZNW team only
	Progress Note	Additional qualitative updates on the project's progress.	N/A	Could have	Open Text	High	Developers themselves.	NZNW team only
KPI Tracking	List of KPIs	Specific KPIs that are being tracked for the project.	N/A	Should have	Open Text	Medium	Developers themselves.	NZNW team only
	KPI Baseline	The starting value or condition of each KPI before the project began.	N/A	Should have	Open Text	Medium	Developers themselves.	NZNW team only
	Date of Last KPI Update	The last time the KPI was measured or updated.	N/A	Could have	Date	Medium	Developers themselves.	NZNW team only
Issues and Risks	Risk Description	A brief description of each identified risk.	N/A	Must have	Open Text	Medium	Developers themselves.	NZNW team only
	Risk Category	The type of risk		Must have	Defined Text	Medium	Developers themselves.	NZNW team only
	Likelihood	The probability of the risk occurring		Must have	Defined Text	Medium	Developers themselves.	NZNW team only
	Impact	The potential impact of the risk		Must have	Defined Text	Medium	Developers themselves.	NZNW team only
	Current Status	The current status of the risk		Must have	Defined Text	Medium	Developers themselves.	NZNW team only
	Responsible Party for Risk Management	The person or team responsible for managing the risk.	N/A	Must have	Open Text	High	Developers themselves.	NZNW team only
Mitigation Strategies	Strategy Description	The approach or plan to address the identified risk.	N/A	Must have	Open Text	Medium	Developers themselves.	NZNW team only
	Implementation Date	The date the mitigation strategy was or will be implemented.	N/A	Don't need	Date	Medium	Developers themselves.	NZNW team only
	Effectiveness	An assessment of how effective the mitigation strategy has been.	N/A	Don't need	Open Text	Medium	Developers themselves.	NZNW team only
	Review Date for Mitigation Strategy	The next scheduled review of the mitigation strategy.	N/A	Don't need	Date	Medium	Developers themselves.	NZNW team only
	Contingency Plans	Backup plans in case the primary mitigation strategy fails.	N/A	Should have	Open Text	Low	Developers themselves.	NZNW team only

VALIDATION LISTS

These lists are the choices that can be selected for the fields that have validation applied to them. Validation will allow for improved reporting and greater efficiency in data entry. These lists are split into to categories. Common Lists where the choices are used in many fields across numerous data areas, and Individual Lists where the choices are used by only a single field. This is an important distinction as there needs to be clarity for future users as to whether they can change a set of choices knowing it only regards a single field or whether they need to be mindful that any choice changes will effect a number of fields and so the change in the choices may not be desirable or correct for all fields where it is used.

Common Lists							
Feasibility to Obtain	Who to Obtain	Data Type	Requirement Priority	How it will be Presented	What form will it be presented in?	Who it will be Presented To	Who will be able to Access it?
Low	Project	£	Must have	On system	Project/Company discrete	Internal NZNW team only	NZNW team only
Medium	Developer	%	Should have	On internal reports	Project category aggregated	Internal to cluster only	All NZNW members
High	Supplier	Number	Could have	On external reports	NZNW aggregated	Internal and external	Guest user
		Defined Text	Don't need			Active publication	Tier 1/Tier 2 Industry Members
		Open Text	Don't want				Public Sector/Cluster Partners
		CO2e	Must not have				
		Date					

Individual Lists							
Project ID	Abbreviated Name	Organisation Type	Site Description	Primary Classification	Sub-Type	Technology Type	Project Status
Numbers only	First 4 Letters	Public Company	Urban	Energy	Clean Power	Solar	Opportunity
Letters only	Combination of Names	Private Company	Rural	Infrastructure	Carbon Capture Enabled H2	Onshore Wind	Pre-planning
2 Letters, then 4 Numbers	Acronym	NGO/Charity/CIC	Offshore	Industry	Biomass with Carbon Capture	Offshore Wind	In Planning
		Local Government	Industrial	Research & Development	Fossil Fuel with Carbon Capture	Nuclear	In Progress
		National Government	Linear (e.g. pipeline)		Electrolytic H2	Battery	Complete
		Government Body			Fuel Switching	Biomass	Abandoned
					Carbon Transport	Gas with CCS	Decommissioned
					Carbon Storage	Hydrogen	
					Power Transmission & Distribution	N/A	
					Hydrogen Transport (Pipeline)		
					Heat Network		
					Industrial Carbon Capture		
					Industrial use of Hydrogen		
					Industrial Energy Efficiency		
					Industrial Process Improvements		

More Individual Lists					
Income Source	Risk Category	Likelihood	Impact	Current Status	Training Initiative Types
Income	Financial	Low	Low	Mitigated	Apprenticeship
Saving	Operational	Medium	Medium	Ongoing	FE Scholarship
CfD	Environmental	High	High	Escalated	HE Scholarship
	Reputational				T-Level Placement
					Work Experience Placement/Internship
					School Engagement Activity or Visit (e.g. STEM)

Allocation per Project Component
Equipment
Labour
Materials
Land/Rent
Buildings
Miscellaneous