

SP Transmission Annual Environmental Report 2021/2022

EAP Commitments

EAP Commitments

EAP Section	EAP Commitment	Target Year	Description and expected benefit	Implementation milestones	RAG Indicator	Status Update
Accommodating the Sustainability step-change	We will collaborate with SEPA on a Sustainability Growth Agreement.	By 2021 - amended date 2023	Our commitments to accommodate the sustainability step change provide a framework to move 'beyond compliance', improve the quality and completeness of our environmental data, improve our environmental training provision for staff and build on our ongoing collaborate with other networks and infrastructure companies. Benefits: Delivering this group of commitments will allow us to deliver our strategic goals, shift the focus upstream from operational impacts to those occurring in our supply chain and during the design and construction of our assets, ensure that training is provided in the new processes and systems introduced to deliver compliance with our T2 commitments and identify and share best practice by working together with our peers to find practical and optimal solutions.	Review of SGA work with SEPA and process restarted		We are on track to deliver all of our commitments in this area. We are behind on the delivery of one commitment relating to the development of a SGA with SEPA. This delay is due to the cyber attack on SEPA and the resourcing issues that it caused. We are continuing our work with SEPA on our SGA and are hopeful that
Step change	We will embed a process for Initial Environmental and Sustainability Reviews (IESRs) for all relevant projects, to identify potential environmental issues and opportunities at the earliest stage.	Ву 2021		after cyber attack Agreement of SGA and publish on SPEN website Review of existing		
	We will improve the quality of environmental data collected and analysed at all stages of the asset lifecycle, investing in enhanced geospatial systems and formalising data sharing collaborations with key stakeholders.	Ву 2023		processes to identify where IESRs are most appropriate Update		it will be in place for next years AER. We have amended the delivery date of this commitment from By 2021 to By 2023.
	We will continue to ensure that our staff, contractors and supply chain have the skills and knowledge to move beyond compliance and achieve our Sustainability Goals.	Ву 2023		Investment Process to include IESR		In the other areas we have embedded IESRs into our initial design process. These provide an early assessment of potential environmental and sustainability risks and opportunities associated with each identified network need. We have reviewed and amended Internal approval papers to include an assessment of carbon, Biodiversity and Natural Capital. We are developing measurement tools to better inform the initial assessment. We are continuing to collect and analyse the data that we receive and have been working the supply chain sustainability school to provide training to our staff,
	We will maintain and continually improve our ISO14001 certified Environmental Management System to achieve 'beyond compliance' environmental performance.	Throughout RIIO-T2				
	We will continue to drive industry-wide collaboration in RIIO-T2 for the benefit of all customers.	Throughout RIIO-T2				
	We will continue to engage our key environmental stakeholders via our Sustainable Stakeholder Working Group, ensuring progress via collaboration activities arising from this engagement.	Throughout RIIO-T2				
	We will continue to provide transparent reporting of our environmental and sustainability performance publishing an annual report of our progress against all environmental and sustainability commitments (as detailed in our Environmental Action Plan in Annex 7) in line with metrics and a format developed in collaboration with the other TOs.	Throughout RIIO-T2				contractors and supply chain.

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Supply Chain Sustainability	We will further enhance environmental management standards and KPIs within contract specifications and supplier codes of conduct (including requirements for public disclosure of metrics) and cascade to all relevant suppliers.	By 2021 - amended date 2023	impacts, set enhanced environmental standards and drive industry-wide environmental improvements, drawing on the huge breadth and depth of expertise and services within our supply chain. Benefits: Delivering this commitment will enable us to deliver our strategic vision of being a sustainable	will minimise environmental impacts, set enhanced environmental standards	will minimise environmental impacts, set enhanced environmental standards	will minimise environmental impacts, set enhanced environmental standards	will minimise environmental en impacts, set enhanced environmental standards	will minimise environmental impacts, set enhanced environmental standards	will minimise environmental environmental impacts, set enhanced environmental standards environmental standards	will minimise environmental impacts, set enhanced environmental standards environmental standards environmental environmental commitments. This year management enhanced our standard commitments of the commitment of the commitmen	We are on track to deliver these commitments. This year we further enhanced our standard contract terms, pre-qualification questionnaires and specifications, obligating our suppliers and
	We will increase our internal supply chain management resources to enable the collection and analysis of enhanced data and a greater level of collaborative working.	Ву 2021		Commit to consider ISO20400 principles within procurement		contractors to meet high environmental management standards. This drives sustainability at the very offset of new contracts, highlighting our expectations of suppliers, which will ultimately aid our journey to Net Zero. We have worked with other network companies to create a joint					
	We will report on the actual percentage of suppliers (by value) meeting these standards.	By 2023		Benefits: Delivering this commitment will Supply Chain School Partner	Benefits: Delivering this commitment will analyse us to deliver our strategies >80% T2						
	We will become a Supply Chain Sustainability School Partner, requiring contractors and suppliers for all new contracts to become members and undertake relevant sustainability and environmental training.	Ву 2023		suppliers meet env. Standard		approach to supply chain Key Performance Indicators (KPIs). As a group we have developed common performance metrics, with the purpose to improve reporting for our suppliers and contractors.					
	We will introduce consideration of environmental sustainability in our procurement processes in line with ISO20400 Sustainable Procurement Standard, including a carbon metric as a minimum.	Ву 2023				Setting consistent metrics, will enable an industry wide baseline exercise to commence, delivering concise and clear reporting and improve the user journey for the set of the contract of the	an industry wide baseline exercise to commence, delivering concise and clear				
	We will target more than 80% of RIIO-T2 suppliers (by value) meeting these enhanced environmental standards.	By 2026		compliance and achieve our	compliance and achieve our		our suppliers. This year we have included a greenhouse gas (carbon) metric within our procurement processes in line with				
	We will engage with suppliers early in the development of projects to enable them to propose environmental improvements at concept and design stages.	Ву 2026					ISO20400 Sustainable procurement Standard. We have embedded a societal cost of greenhouse gas emissions within our Cost Benefit Analysis (CBA).				
	We will work in collaboration with our suppliers and industry peers to develop a suite of targets and impact metrics designed to drive environmental improvements throughout our value chain.	Throughout RIIO-T2				31% of our priority transmission suppliers* are registered members of the Supply Chain Sustainability School.					
	We will engage with suppliers throughout the duration of their contracts to continue to reduce impacts and optimise benefits.	Throughout RIIO-T2				*with contracts over £600,000.					

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Decarbonising our Energy Network	We will adopt a science based target for scope 1* & 2* carbon reduction.	By 2021	We will set science-based targets in line with the Science Based Targets Initiative methodologies and align our processes with	Work with external experts to set Science Based Target Submit SBTs to SBTi		In 2021/22, our annual carbon emissions totalled 14,425 tCO ₂ e. Our SBTs where submitted to the SBTi for formal validation during the scheme year 21/22. We received confirmation that our SBTs for Scope 1,2 and 3 had been validated by the SBTi. We have achieved out Scope 1 and 2 commitment on schedule and have brought forward the delivery of our Scope 3 commitment. We are continuing to review our existing processes to align with PAS2080 and we are on track to deliver this commitment in 2023.
Science Based Targets	We will identify, and subsequently monitor, metrics to track progress towards our science-based carbon reduction targets.	By 2021	PAS2080 standards. Benefits: By setting validated science	for validation Review existing processes to identify gaps and update to		
	We will adopt a science based target for scope 3* carbon reduction.	By 2023	commit to reducing our BCF by an average of 4.2% per year during the RIIO-T2 period. This	align with PAS2080. Track our SBT metrics to ensure delivery		
	We will implement processes for carbon management in relevant business activities, aligned with PAS 2080 Carbon Management in Infrastructure.	By 2023				
Business Carbon Footprint - Sulphur Hexafluoride	We will continue to require manufacturers to provide equipment with an SF_6 leakage rate which is half that of the internationally recognised standards, where technically viable.	Throughout RIIO-T2	Benefits: By delivering our SF ₆ Strategy we will avoid adding an estimated 9700kg of SF ₆ to our inventory. This will avoid estimated additional annual emissions of 51.8kg (1,200tCO ₂ e).	Half leakage compared to standard rates Repair / Replace / minimise leaks Offset failed repairs SF_alternatives where market ready Pilot new SF_ free, supply chain collaboration & drive adoption		We are on track to deliver all of our SF_6 during the RIIO-T2 period. In 2021/22, total SF_6 leakage was equivalent to 12,085 tCO ₂ e. Emissions associated with SF_6 and other IIGs decreased by 34% relative to the previous reporting year.
(SF ₆) - Scope 1	We will continue to carefully monitor and manage our assets to minimise SF ₆ leakage, repair leaks quickly, and where this is not possible, replace the asset before its anticipated end of life.	Throughout RIIO-T2				
	Where a repair to a leaking asset proves ineffective and the asset requires to be replaced, we will offset the SF ₆ emissions from that asset until its replacement via a Carbon Offsetting partner.	Throughout RIIO-T2				
	We will use alternatives to SF_6 insulating gas for all new circuit-breakers and GIS installations where there are technically feasible market-ready solutions.	Throughout RIIO-T2				
	We will drive the development and adoption of SF_6 -free technologies, collaborating with supply chain and industry peers and piloting new technologies where technically viable.	Throughout RIIO-T2				

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Business Carbon Footprint - Other - Fleet	We aim to decarbonise our operational fleet by replacing 100% of our 72 cars and vans with electric alternatives by the end of T2. We will strive to lead the decarbonisation of fleet vehicles, working	By 2026 Throughout RIIO-T2	Our fleet commitments will accelerate the electrification of our operational fleet, targeting the end of T2. This ambitious target will require the early adoption of new technology and considerable effort to address the various technological, regulatory and economic challenges. Benefits: 319tCO ₂ e avoided.	Pilot technically viable options 100% electrification of cars & vans		Fuel from operational transport increased in the regulatory year to 518 tCO ₂ e. This is an increase of 17% compared to the previous reporting year (452tCO ₂ e). During the regulatory year covid restrictions around vehicle sharing where still in place within the business resulting in more vehicles being used to transport staff to work sites.
Scope 1	with suppliers and other fleet operators to pilot technically viable alternatives to drive technical advancements and early adoption.	Timoagnout kiio 12				During the scheme year 21/22 two electric vehicles have been added to our fleet. There have been international supply chain issue for vehicles across all industries. We are working with our suppliers to ensure that we received electric vehicles as soon as possible.
Business Carbon Footprint - Other - Buildings Energy Reductions - Scope 2	We will implement energy efficiency measures as part of our RIIO-T2 building refurbishment programme at 48 substations (representing around 1/3 of our sites) with the aim of reducing energy consumption by more than 1000MWh per year.	By 2026	We will undertake a programme of works to install holistic refurbishment solutions, specifically aimed at creating low energy use substation buildings. Benefits: Energy efficiency measures and renewables to be delivered at one third of our substations with an estimated 328 tCO ₂ e avoided.	Identify Sites Identify technologies to be installed Tender and Procure contract Implementation Plan for roll out of programme of works Track and monitor		During 21/22 we engaged in a partnership with Napier University to identify suitable sites on our network to under go monitoring. 15 sites were identified for monitoring and the works planned for the spring and autumn of 22. The tender for the refurbishment works of the 48 substations has been issued and work will commenced in summer 2023.
Losses Carbon Footprint - Scope 2	We will implement our T2 Losses Reduction Strategy to reduce losses on the network by an estimated 14,500 MWh (circa 3% of 2018/19 losses), thereby limiting losses to a lower level than would otherwise be the case, where this is economic and provides benefit to customers.	Throughout RIIO-T2	Implementation of our RIIO-T2 Losses strategy to reduce losses on the transmission system where it is economic to do so and provides benefit for customers. Benefits: Reduce losses to a lower level than would otherwise be the case through asset replacement using lower loss equipment avoiding 2097tCO ₂ e of emissions.	Losses Reduction Strategy Reduce losses by 3% of 2018/19		To date, asset replacement has been done on a number of transmission circuits, saving in the order of 400MWh in losses per year.

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Reducing Embodied Carbon - Scope 3	We will, in collaboration with the other Transmission Operators, introduce a measurement tool for embodied carbon in new projects, in order to establish a baseline and set a reduction target.	Ву 2023	Implementation Plan and collaborate with our supply chain and other TOs to introduce an embodied carbon measurement tool and metrics to track performance. Benefits:	Develop PAS2080 Action Plan Collaborate on Carbon Tools with supply chain and other TOs Pilot tool on selected projects. Set embodied carbon reduction target		In the first year of RIIO-T2, we have worked collaboratively with our stakeholders to develop processes and tools which will allow us to gather embodied carbon information from our supply chain. In order to gather supplier specific information from our supply chain, we have worked with NGET and SSE Transmission through our collaborative group UK ROCCIT (UK Reduction of Capital Carbon in Infrastructure: Transmission) to collectively use the UK Transmission Operator Carbon Product Calculator. Data collected from the Carbon Product Calculator Tool is managed within the UK Transmission Operator Carbon Asset Database, which is also shared by the three UK Transmission Operators.
	We will identify, and subsequently monitor and report, metrics to track progress towards our Scope 3 science-based carbon reduction target.	Ву 2023				
	We will collaborate with our supply chain to implement sustainable project sites to reduce carbon and other impacts, for example energy efficiency, diesel use, re-use of materials and reducing impact of transportation.	By 2023				
	We will work collaboratively with our stakeholders, including the other Transmission Operators, throughout RIIO-T2 with the aim of assessing and managing capital carbon on our projects, driving efficiencies throughout our supply chain, and sharing best practice.	Throughout RIIO-T2				
	We will collaborate with our supply chain and other Transmission Operators to drive scope 3 and embodied carbon footprint reductions.	Throughout RIIO-T2				
Climate Change Adaptation	We will undertake detailed Flood Risk Assessments at our remaining 10 high risk sites and implement identified measures to mitigate the risk to the network from flooding.	Ву 2026	We will undertake detailed Flood Risk Assessments (FRA) at all 10 identified high risk sites and implement mitigation measures which will mitigate the risk to the network from flooding. Benefits: Risk of flooding is mitigated, ensuring that the network is robust and resilient.	Flood risk assessments undertaken Mitigation works to beginning Climate Change Adaptation Report		All flood risk assessments (8 in 2021 and 2 in 2022) have been completed to date and these are being reviewed to ascertain what mitigation measures are required at each of the sites over the remainder of the T2 period.
	We will publish a report in line with the 3rd Round of Adaptation Reporting under the Climate Change Act, in line with the Energy Networks Association work to produce a sector report.	Ву 2026				

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Preventing Pollution			expected benefit This group of commitments deliver pollution prevention and environmental compliance initiatives. Benefits: PCB removal in line with	milestones Target zero environmental regulatory interventions & notifiable breaches Pollution Prevention Plans		
	address riigii risk iegacy iand contamination.					proceeded with the installation of retrofit bunds at 5 sites with the highest risk to the environment, based on the condition of the existing assets and the environmental receptors around the sites. Pollution prevention plans are now in use for all major projects that we undertake. This can be part of the environmental management plan or as separately as determined by the Contractor's Environmental Performance Requirements. The contaminated land risk assessment process has been completed for the desk top element, further investigations are on-going at several sites.

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Enhancing Biodiversity	diversity other Transmission Operators, throughout RIIO-T2 to develop and pilot a common approach and robust methodologies for delivering Biodiversity Net Gain alongside Natural Capital assessment and enhancement. capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our pi	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our pi	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our Pil	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our stakeholders, local communities and other TOs to protect and enhance the natural environment in which we work.	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our stakeholders, local communities and other TOs to protect and enhance the natural environment in which we work. biodiversity le Develop tools and methods And methods Net gain in Biodiversity	capital commitments will allow us to develop biodiversity De and natural capital actions plan in collaboration with our stakeholders, local communities and other TOs to protect and enhance the natural environment in which we work.	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our stakeholders, local communities and other TOs to protect and enhance the natural environment in which we work.	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	capital commitments will allow us to develop biodiversity and natural capital actions plan in collaboration with our	biodiversity levels Develop tools and methods Pilot & embed tools	biodiversity levels Develop tools and methods Pilot & embed tools	biodiversity and natural biodiversity levels to develop biodiversity d natural capital actions n in collaboration with our biodiversity levels Develop tools and methods Pilot & embed tools		Our current focus is to quantify our impact and trial enhancement approaches, working collaboratively to ensure the right solution for the right place, providing cost effective results to deliver value to customers.
	We will identify, and subsequently monitor and annually report, metrics to baseline and track the levels of biodiversity and value of natural capital on our sites and the achievement of our targets.	enhance the natural environment in which we work.	enhance the natural environment in which we work.	enhance the natural environment in which we work. Net Biod Pos	enhance the natural environment in which we work. Posi	enhance the natural environment in which we work. Biodive Positive	enhance the natural environment in which we work. **Ret go **Biodiv** **Positiv**					Biodiversity Positive impact in											
	We will pilot these biodiversity and natural capital assessment methodologies and associated tools on selected RIIO-T2 projects. We will embed these biodiversity and natural capital assessment methodologies and associated tools in our business decision making processes for projects and the management of existing sites. By 2023 Benefits: No Net Loss.	Natural Capital																					
	We will work with our local communities, landowners and other stakeholders to deliver 'no net loss' in biodiversity and identify options for delivering 'net gain'.	By 2026																					
	We will work with our local communities, landowners and other stakeholders to deliver a net positive impact in natural capital across our existing sites.	By 2026																					
Enhancing Visual Amenity	Where supported by visual amenity assessment and stakeholder engagement, and when cost effective to do so, we will deliver visual amenity mitigations for those existing assets not identified for upgrade or refurbishment during RIIO-T2.	By 2026	This allows us to improve visual amenity in protected landscapes such as Areas of Outstanding Natural Beauty and National Scenic Areas. Benefits: Visual amenity improvement.	Examine the visual impact of our networks in landscape areas which are eligible for the RIIO-T2 visual amenity incentive Collaborate with stakeholders to develop a range of visual amenity improvement initiatives Focus on Overhead lines		In 2021/22, we are working through the routeing, Environmental Impact Assessment (EIA) and consents for a number of asset modernisation/reinforcement projects which will replace existing overhead transmission lines. A number of these lines are amongst the original transmission network constructed in the 1930s, before certain areas were recognised under UK and European legislation as being environmentally sensitive 'designated' areas.																	

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Sustainable Resource Use and Waste Reduction	We will embed circular economy principles where relevant throughout our business processes, considering whole life cycle environmental impacts.	By 2023	Delivering this group of commitments will allow us to understand our waste streams and embed considerations of resource use and waste minimisation in our processes. Benefits: Reduction of waste to landfill and overall waste produced.	Minimise aggregates disposal Continued waste		The most significant success in sustainable resource use in the reporting year was exceeding our target of 95% waste diverted from landfill by 2023, in 2021/22 we				
	As part of our revision of design processes, we will include considerations of operational and end of life stages with the aim of designing out waste.*	By 2023		of resource use and waste minimisation in our processes. Divert 95% landfill waste		diverted 97.7% of transmission waste. In 2021/22 we carried out a gap analysis against BS8001 Circular Economy standard to create a circular economy action plan to target activity. We started delivering on the initial phases Including framing and scoping, baselining material use, waste and current circular practice, this will be completed in 2022/23.				
	We will implement metrics to measure the sustainability of our resource use, with the aim of establishing a baseline to enable target setting during RIIO-T2.	By 2023								
	We will divert 95% of our waste from landfill.	By Dec 2023		Embed circular principles						
	We will require project Waste Management Plans for all new projects in RIIO-T2 and beyond.	By 2026		Implement recycled/ reused targets Mandate project site Waste Management Plans						
	We will set targets for recycled/reused materials as a % of total input materials to be achieved by end RIIO-T2, 2030 and 2050.	By 2026								
	"We will continue our work to minimise the environmental impacts of our use of aggregates (soils and stones) via collaboration with other TOs, our supply chain and membership on infrastructure resource optimisation groups** with the aim of identifying and implementing solutions to reduce the use and disposal of aggregates, including increased use of secondary aggregates. ** Via the Scottish Infrastructure Circular Economy Forum and Major Infrastructure Resources Optimisation Group.	Throughout RIIO-T2								
	"We will continue to collaborate with environmental / waste regulators, other infrastructure companies** and our supply chain to drive sustainable resource use and waste minimisation in order to meet our RIIO-T2 and Sustainability Goals. ** Via the Scottish Infrastructure Circular Economy Forum and Major Infrastructure Resource Optimisation Group."	Throughout RIIO-T2								

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Introducing our Net Zero Fund	The RIIO-T2 T2 Net Zero Fund (NZF) is a £5m Use It Or Lose It (UIOLI) Fund, intended to provide guidance and support to consumers and communities in vulnerable situations and contribute to the UK's Net Zero objectives. This fund builds upon the previous Green Economy Fund which supported community initiatives aligned to Scotland's and the UK's ambitious Net Zero targets (details of our existing Green Economy Fund projects can be found on our website).	Throughout RIIO-T2	The Transmission Net Zero Fund will to assist communities in vulnerable circumstances to build their capacity to address their energy issues, engage with the low carbon transition and contribute to the UK's net zero objective. Eligible communities can access support to make informed decisions, explore options, and develop projects to address energy needs and issues they face. The fund will operate in three phrases including providing workshops which will be tailored to respond to the needs of each community group based on where they are in the net zero journey, developing formal plans and supporting communities to realise their Net Zero ambitions Benefits: We estimate that this fund will deliver at least £3 worth of social benefits for every £1 invested.	Engage with communities Build Support Systems Collaboration with experts Support delivery of projects		The Net Zero Fund was formally opened on the 25th of August 2022, calling for eligible communities to come forward to express their interest in receiving support through the fund.

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Maximising environmental benefit from operational land	We will release unused non-operational land to local community energy projects, allowing them to use sites for free to generate and deliver energy to their local communities.	Throughout RIIO-T2	Throughout RIIO-T2, we will release unused non-operational land to local community energy projects, allowing them to use sites for free to generate and deliver energy to their local communities. Proposal to award to potential projects / community initiatives which support the low-carbon transition. Benefits: Our study identified up to 20 sites initially, which conservative estimate suggest could support upwards of 4MW of new renewable generation. This initiative will promote pathways and realised opportunities for community-driven Low Carbon Generation (LCG) schemes.	Review of SPT owned sites Analysis of sites and appropriate interventions available Sites identified Internal Process created. Implement, enhance and embed the process into our BAU Contacting our stakeholders to engage with them and identify groups of interest Outline the legal process that would need to take place		During 21/22 we have defined the process that our teams will have to follow. This first step allows us to develop an opportunities register for our stakeholders; for that we gathered all the required information on possible sites and assessed it against our new improved criteria. We ended having a list of 38 sites to share and engage with different stakeholders that will help in the mapping exercise of interested communities. Looking to maximise the benefits of non-operational land, this method will enhance the communication of possible site and the engagement with future interested stakeholders.