Document Title Appendix Reference Document Description Document Author Notes to Ofgem Stakeholder Engagement and Decision Log

Appendix 11

A log of the stakeholders we have engaged with to inform key policy decisions across our business plan Cadent Gas

1. We have undertaken a comprehensive Enhanced Engagement programme across 22 policy areas.

2. We note Ofgem's guidelines for completing the log, including a 5-page limit and a minimum of font size 10.

3. Given the extent our our engagement, we have not been able to capture the details in this log for all 22 policy areas.

4. As such, we have created two logs; a primary log (named 'core'), covering the policy areas where our enhanced engagement programme most materially impacted decisions in our plan. THIS IS WITHIN THE 5-PAGE LIMIT.

5. A second log (named 'additional'), capturing the details of our stakeholder engagement and impact on the plan for the remaining policy areas.

6. We discussed this approach with our ISG, who proposed this solution.

7. We note that Ofgem may not wish to review the second log, but have included it as as optional evidence should they see value in reviewing it.

Ofgem Making a positive difference for energy consumers

Document	RIIO-3 CH-1	keholder Engagement and Decision Log			
Document: RIIO-3					
Outcome	Policy Area	Type of Engagement Undertaken	Stakeholder Groups	Summary Feedback	
outcome to	The policy area or areas to which the engagement relates		Which stakeholder groups were represented through the engagement and provide commentary on the relative balance of stakeholder voices. Were any relevant groups not represented?	What feedback and key messages did you hear from your stakeholders? Where different views were expressed, what were the relative weighting of these?	What impact has specific example engagement. W feedback receive taken to address
Safe, secure and resilient supplies	Iron mains replacement	 To determine the workload requirements This policy area has been largely stakeholder led, with two most influential stakeholders (HSE, DESNZ) engaged via consultations and regular meetings during the delivery of GD2. The HSE has been undertaking a periodic review of the Iron Mains risk replacement programme (IRMP) policy, which we have been feeding into and engaging on throughout 2023/24. DESNZ undertook a review of the benefits of the IMRP in 2023, which we and other networks fed into. To determine the work profile / deliverability We worked out the workload remaining to complete the HSE programme and engaged with the supply chain to determine how best to deliver it. We also engaged with our supply chain through ongoing operational meetings and forward planning workshops. These sessions involved Cadent's engineering experts, considering a range of safety, technological and other factors. Customer Engagement Given that this is the largest proportion of our cost base and a major contributor to a safe and reliable network, it was included throughout our customer research: Regional deliberative workshops with over 90 customers. National quantitative survey with over 5,200 customers. Research to support customer testing relating to the overall value of the bill (Acceptability and Affordability testing with over 8,000 customers). This included both qualitative and quantitative methods (deliberative workshops, interviews (online and face to face) and surveys). 	 Stakeholders DESNZ undertook a review, led by the Natural Gas Networks and Decommissioning Team, with whom we engaged (including site visits to our London network). We engaged with the HSE review team multiple times, as well as discussing at regular liaison meetings with the HSE. We attended Ofgem working group meetings on REPEX, (most recently Nov 2024) where we were asked how we are responding to the HSE's minded to statement on the IMRP (and to ensure this is explained on our RIIO-3 Business Plan submission) Cadent's Supply Chain Including: Trinity, Ferns Surfacing, Flowaime Ltd, Fincher Utilities, PGL Pipelines, R&R Utility Solution, RWB Pipelines, Forefront Utilities, Terrafirma Pipelines, United Living Infrastructure Services, Network Plus, Costain, Radius Systems, Skewb, Go Traffic Management, GMM Utilities. Internal engineering experts Customers Customers taking part in the regional workshops were representative of Cadent's regions. A statistically representative sample of customers across Cadent's regions took part in the National Survey. Customers from a range of segments were involved in the acceptability and affordability research. The research included customers in vulnerable situations, future bill payers, customers in fuel poverty, digitally disengaged and expert customers (involved in RIIO-2 research). Customers were statistically representative of the Cadent region. To ensure the sample profile matched the population, quotas were set and the domestic data was appropriately weighted regionally and by total. 	 the programme going forward, which we have aligned our plan against. The 2023 DESNZ review of the IMRP benefits concluded that there was consistent customer benefits from continuing with the programme, both from a safety and environmental perspective. With regards to workload profile and deliverability, we worked with our supply chain and considered the delivery 	 c.1,600km per y above the design This will see us leaving one year we will be comp This allows us to delivery plans. The outcome of Advanced Leaka Sustainability Cl will replace larg
Safe, secure and resilient supplies	Emergency service	 Stakeholder Engagement Review of stakeholder responses to Ofgem's Sector Specific Methodology Consultation (SSMC). Use of existing 'business as usual' data including C-Sat survey and analysis. Output from our 6-monthly Centres for Warmth best practice sessions. Feedback from 100s of expert stakeholders during several panel discussions at VCMA showcase events in 2023 and 2024, considering services beyond the meter and the role of GDNs. Challenge from our Customer Challenge Group (CCG), (Referred to as Independent Stakeholder Group (ISG) by Ofgem), especially in relation to the unique role that GDNs can play in helping to define what additional services GDNs could and should play 'beyond the meter', especially in light of the upcoming energy transition process (for vulnerable customers). Delivery Partner Engagement Ongoing engagement with the services deliver partners we deliver the services beyond the meter programme with (e.g. NEA. Groundworks UK, Green Doctors). Depth interviews with engineers. Customer Engagement Over 11,000 customers engaged on aspects of this policy area using a variety of qualitative and quantitative research methods including 7 regional deliberative workshops, 210 in-depth interviews (online and face to face), and quantitative surveys. This included broad and targeted research and commitment testing. We completed willingness to pay (WTP) analysis in relation to services beyond the meter. The research used a variety of stimulus, scenarios and modelling, which continuously built upon findings from previous research, refining and stress testing results. Topics covered include quality customer service, gas emergency number and reporting emergencies and emergency response. Longitudinal study with the general public including qualitative and quantitative components including qualitative ethnography, workshops, interviews, quantitative surveys. Topics explored were energy	a statistically robust representative sample, with willingness to pay having both household and non-household customers, whilst acceptability included domestic customers and Cadent employees. Both sets of research included customers in vulnerable situations, future bill payers, customers in fuel poverty and digitally disengaged, with acceptability also including impacted customers (experience of an emergency, incident or supply interruption) and expert customers (involved in RIIO-2 research).	 proposal with customers in several ways. We've analysed customer satisfaction and complaints data related to the emergency process and undertaken a range of customer focus groups, especially relating to our response at incidents, noting exceptional feedback. Through our acceptability testing, customers feel this commitment is very important and provides a vital service, with 82% of domestic customers finding the commitments to ensure a safe, secure, resilient supply acceptable and 87% feeling this is important. Informing Services Beyond the Meter Blueprint recommendation Feedback from our Centres for Warmth best practice sessions indicate that customers are not servicing appliances due to the fact they just can't afford to. 47% of customers, think energy companies should change appliances for those most vulnerable is society (This was the 2nd highest response for what energy companies should be doing right now). Our WTP data shows that 54% of customers are supportive of improvements in service to replacing faulty gas appliances for customers struggling with d financial hardship. There is evidence that customers would be willing to pay for those improvements. National Energy Action: In both their response to Ofgem's SSMC and through our own direct engagement with them, have expressed their support for the role of GDNs to expand the role of services in the home, especially given the uncertainties and additional challenges expected for vulnerable customers as we enter the energy transition process. Cadent engineers see it as important not to leave those in a vulnerable situation exposed with a faulty appliance and no customers see it as important not to leave those in a vulnerable situation exposed with a faulty appliance and no customers and additional challenges expected for vulnerable customers as we enter the energy transition process. 	>97%. In addition to th blueprint for the and managing th
Infrastructure fit for a low- cost transition to net zero	Action Plan	 Stakeholder Engagement Meetings with experts to understand priorities, share good practice, including government bodies (e.g. DEFRA), local planning authorities (e.g. GLA), environmental charities (and bodies), Carbon Trust. Surveys, focus groups, meetings and online discussion forums. Best practise sessions with users of similar technology in Germany, Netherlands and Italy. Sia Partners survey of customers Offsets and plastic pipe (500 responses). Meetings with biodiversity experts sharing plans and ideas to co create approach. Participation within multiple working groups including NESO, RESPS, boiler manufacturers, energy supplier, Electricity distribution businesses, National Gas in respect of the energy transition and future role of gas. GDN collaborative research with national stakeholders, carrying out in-depth interviews. Cadent Employee Engagement Over 12,000 customers engaged on this outcome area using a variety of qualitative and quantitative research methods including 7 regional deliberative workshops, 210 in-depth interviews (online and face to face), and quantitative 	 Stakeholders Expert stakeholders in specific areas including Carbon Trust (emissions targeting and reporting), TBL Services (science based carbon targeting), Sia Partners (nature based solutions and offsets), Biffa (waste management), Cadent's construction partners, including Morrisons and Network Plus (zerocarbon construction), Supply Chain Sustainability School (scope 3 emissions), DEFRA (biodiversity, climate resilience), Environment Agency (various topics), Soil Society (nature and biodiversity). GDNs: to collaborate on a range of topics, such as GDNs' role in the energy transition and timescales / technology to enhance leakage detection and analysis. Joint collaborative research was also undertaken with stakeholders. In 2023 we held our first Supplier Sustainability Conference, which was attended by over 150 of the largest companies in our supply chain, attended by our core construction partners, over 200 innovators and entrepreneurs, GDNs from over 15 different countries and leaders from more advanced sectors in utilising technology (e.g. Google, Amazon). Italgas in particular have been a key partner in supporting our learning of and rolling out of Picarro leakage detection. Boston Consulting Group have supported us with our modelling to define the 	 Ofgem have proposed a continuation of the EAP methodology and reporting requirements (from RIIO-2 into RIIO-3). Al key stakeholders responding to Ofgem's consultation on this have agreed. This sentiment is supported by our customers. We have seen repeatedly in our qualitative research when we present our commitments with respect to the environment that people want to know companies report against their targets, particularly where they are technical in nature. This builds trust and credibility, hence why accreditation is important and publishing results openly as a way to build trust. We have overlaid this requirement with the results of our annual GRESB, Sustainalytics and Morgan Stanley's sustainability benchmarks; all of which place Cadent's EGS management and reporting processes in the upper quartile (internationally) and we have used areas of best practice noted to ensure we remain here. Our acceptability and affordability quantitative study shows that domestic customers find the infrastructure for Net Zero to be important (77%) and Cadent's commitments acceptable (75%). Weighting of decisions 80% Stakeholder insights influencing decisions 10% Customers 10% Cadent Employees 	our delivery of c category leading sustainability be

uce an Annual Environmental Report to demonstrate with evidence of our EAP. In addition to undergoing assurance to maintain ling performance in GRESB, Sustainalytics and Morgan Stanley's benchmark.

Impact on Business Plan

has the feedback received had on your business plan? Provide ples of relevant decisions that have been influenced by the Where you have made a decision might be seen as counter to the eived, explain why this is and set out what measures you have ess the feedback received.

mitment for iron mains replacement is directly aligned to the the HSE and DESNZ reviews. That is to continue to replace all Tier vithin 30 metres of a property with new durable plastic pipes er year, workload, similar to RIIO-2, along with all Tier 2a pipes signated risk threshold.

is complete the programme at the end of the programme in 2032, ear of replacement to complete the programme in RIIO-4. Hence, mpleting approximately 83% of the remaining workload in RIIO-3. s to meet our legal obligations. Our supply chain fed into our

of the HSE review also directly aligns with our plans to roll out an akage Management Approach (which is supported by our Challenge Group (SCG) and customers) and the interventions that arger diameter and steel mains to reduce methane leakage.

tain our emergency response standards. We will continue to nergency calls within 30 seconds >90% and attend uncontrolled gencies within 1 hour >97% and controlled escapes within 2 hours

this, we will create and trial a 'services beyond the meter' the role of GDNs to support improving safety in customers' homes g the energy transition.

Infrastructure fit for a low- cost transition to net zero	Climate and carbon commitment	surveys. This included broad and targeted research and commitment testing. • We completed willingness to pay (WTP) analysis across two attributes of leakage - waste and carbon emission reductions. • The research used a variety of stimulus, scenarios and modelling, which continuously built upon findings from previous research, refining and stress testing results. Topics covered include general customer attitudes towards net zero and sustainability, waste, climate resilience, energy security, fuel poverty (and customer vulnerability), carbon offsetting, leakage reduction. • Longitudinal study with the general public including qualitative and quantitative components including qualitative ethnography, workshops, interviews, quantitative surveys. Topics explored were energy use, sustainability and fuel costs. Literature Reviews • In depth analysis of a wide range of publicly available resources, such as Future Energy Scenarios.	 optimal use of the existing SLM and nelleakage reduction proposal. The HSE have been heavily engaged Safety Case in moving away from the Selection process. On a joint visit to Germany with DES networks specialist in Germany. In add Sustainable Energy and the co chair of Political stakeholders - with energy la mayors and regional councillors. Future role of gas - working groups, leadership, trials (e.g. hydrogen house) Biomethane - industry working group; We have consistently struggled to enervironmental matters (e.g. Greenpeathaving strict policies in place restriction working with fossil fuels. As such, we laconsiderable challenge from our SCG to involved in willingness to pay and the quantitative research. Both surveys prepresentative sample, with willingnes household customers, whilst acceptabilistaff. Both sets of research included cobill payers, customers in fuel poverty a acceptability also including impacted coincident or supply interruption) and extresearch). Benchmarking through studies with Gugood practice and set stretching target.
Infrastructure fit for a low- cost transition to net zero	Sustainable use of resources		
Infrastructure fit for a low- cost transition to net zero	Biodiversity management and natural capital		

ew DPLA to define our RIIO 3 enhanced

in understanding the impact on our SLM, especially moving to a proactive

SNZ, we were introduced to Thuga gas dition to engaging with the Centre for f the Belfast climate committee.

eads of major political parties, local

various funded studies and thought and blending).

ips, operational feedback.

ngage with organisation who specialise in respect to methane leakage levels). ng their involvement with companies to help bridge this gap.

deliberative workshops were acceptability and affordability

provided a statistically robust customers in vulnerable situations, future charging points across our core sites. and digitally disengaged, with

customers (experience of an emergency, xpert customers (involved in RIIO-2

uidehouse and Sia Partners to understand

stakeholders who we might have engaged we engaged with in RIIO-2, but felt as sufficiently broad.

• The HSE has reviewed our Safety Case and mandated the shift to measured leakage - moving away from the SLM during RIIO-3.

• Our SCG believe that Cadent must demonstrate leadership and ambition in materially reducing its impact on the environment, with a clear focus on leakage reduction, whilst working to demonstrate how the network could be used to transport greener gas such as hydrogen.

• They, and our wider CCG accept that the most significant environmental improvement we can make is through targeted • We reviewed a range of options for the ALIP, and will deliver 750km additional leakage and support a plan that delivers enhanced reductions beyond the mains replacement programme. • Public sentiment is positive towards Cadent working to at least meet government targets on methane emissions (73% agree with reducing by 30% by 2030). In our acceptability testing, customers see reducing carbon emissions as a key area of the business to spend on. Our quantitative study shows that domestic customers find the infrastructure for Net Zero to be important (77%) and Cadent's commitments acceptable (75%).

• WTP for leakage is evident where customers see value in both reducing wasted methane in the system and saving carbon (addition benefits are seen with safety benefits and reducing the need for reliance on LNG imports). However, customers generally feel that they are doing all that they can reasonably afford to do in order to be environmentally conscious and that there is an expectation that others, including big businesses and the Government, will 'do the big things'.

• To balance this potential customer/stakeholder conflict, we have overlaid two additional insight lenses: (i) a comprehensive CBA based on a societal level of benefit from our proposals (using Government Green Book Data) and, (ii) the public outcry from a lack of investment in the water industry (and how this could translate to a similar feeling with

ace, Green Alliance and WWF), with most • The Carbon Trust support our plans to achieve Science Based CO2 reduction targets and have fed into our EAP with proposed actions to improve our carbon reporting. have used the extensive experience and • Sia Partners completed a strategic assessment of our approach to offsets - this included engagement with 27

stakeholders and 500 customers, which showed a consistent sentiment that we must focus on abatement before offsetting.

• In addition, our customers are keen to see Cadent invest in technology and continue to innovate to enable environmental improvements.

ustomers from a range of segments were • At our Global Technology Conferences (2023 and 2024) we heard from c.200 innovators and entrepreneurs who we have engaged with to discuss, trial and roll out new technologies across our networks (e.g. BORE). The lessons learned have been applied to our Plan, along with the ability to create a pipeline of future innovations (into the NZUIOLI). ss to pay having both household and non- • We have used feedback from our engineers and operational colleagues to understand the limitations of the current pility included domestic customers and national infrastructure to support an EV fleet, prioritising our future roll-out accordingly and informing our plans for

• 70% of customers agree that decarbonising the fleet supports reaching NetZero.

• Key contacts across our supply chain have informed us of limitations in them recording their emissions data, which has led to our commitment to help them to create robust measures, working principally with the Sustainability School. Weighting of decisions

 75% Stakeholder insights influencing decisions 25% Customers

• In addition to the more general feedback from customers, which demonstrates a clear expectation that actively seek • We will reduce our proportion of landfill (currently 3%) by 2% year on year ways to improve the environment and limits the negative impact from our work, it is very difficult to engage with during the period. customers to receive meaningful insight on complex topics such as waste management and biodiversity. As part of our • First use aggregate will be less than 7% for any reinstatement works. acceptability testing, customers viewed Cadent's commitment of waste reduction a positive overall contribution to the Net • Reduction of over 1000km (50%) of PE Pipe waste. • Eliminating single use plastics (improve from 90% with ambition of 100% by Zero aims and it is important for companies to consider. the end of RIIO-3). • We have therefore developed our proposals through engagement with and feedback from a range of expert • We will develop a plan to improve on site water efficiency, use and drive down stakeholders. • In relation to 'waste' we engaged across our supply chain to understand examples of good practice that could be consumption through behaviour change. applied across Cadent. • We also sought views from Biffa, our principle waste contractor. • Key feedback is that Cadent's current waste management performance benchmarks very well, inside the industry and with others with similar work patterns. • However, opportunities to reduce pipe waste were identified and noted that Cadent's approach to water management could be enhanced. • We were able to test some of our proposals in this area with customers, noting that 58% agreed that plastic pipe and recycling metal should be a focus regardless of cost, 44% net agree). • We also engaged with Cadent colleagues in this area; through the annual Employee Survey are keen to see more focus on single use plastics and a group of volunteers (from the Cadent New Talent cohort) are keen to take a lead on this. Weighting of decisions

• 80% Stakeholder insights influencing decisions

 10% Customers • 10% Cadent Employees

• For biodiversity, we engaged with specialists from the Soil Society, DEFRA, Sia Partners, Guidehouse and the Carbon Trust

• Sia Partners review of our offsetting strategy involved engagement with 27 stakeholders and 500 customers. Their review included a legislative, regulatory and societal lenses and recommended that we focus attention on carbon reduction rather than offsetting, but noted considerable opportunities to deliver community focussed nature based solutions working in partnerships with local land-owners.

• Carbon Trust have supported us to understand how we can link the biodiversity work we do into our carbon calculations partnership within our communities. - ensuring that we prioritise actions on our sites with this view.

• We worked with the Soil Society to assess options for joint work, especially seeking ways in which we might improve biodiversity levels on private land that Cadent's assets run through. We explored this with a sample of landowners, but there was not an appetite from any to engage further - we have therefore not proposed this in our Plan. • We work with DEFRA as leaders in biodiversity to plan our surveys and propose the most appropriate courses of action their surveys to date have been used to inform the costs in our Plan.

Weighting of decisions

• 85% Stakeholder insights influencing decisions

• 15% Customers

approach. payback by 2040). period. the period.

• We will openly report our CO2 reduction progress using science based targets. • Noting the additional challenges for customers in fuel poverty to undertake actions to improve their energy efficiency, we will directly support 200,000 households in fuel poverty with targeted energy efficiency improvements.

• We have designed our Advanced Leakage Management Approach (ALMA) to include (i) Advanced Leakage Technology, (ii) Digital Platform for Leakage Analytics and (iii) Advanced Leakage Intervention Programme (ALIP) - moving from a largely modelled approach to measuring leakage to a measured

mains replacement, reducing leakage by a further 10% over the period (with a • In total, we will reduce our carbon emissions from leakage by 35% over the

• We will reduce our business carbon footprint (excl. shrinkage) by 13% over

biodiversity recognition at key sites and the implementation of action plans. • We will achieve a biodiversity net gain of 30% across our key 78 sites. • We will demonstrate environmental benefits from planning and delivering construction projects in collaboration with local communities. • We will remove at least 20,000 tCO2e through at least one nature based

Infrastructure fit for a low- cost transition to net zero	Reducing environmenta l impacts from operations		
Infrastructure fit for a low- cost transition to net zero	Net zero transitions in the energy system		
High quality of service from regulated firms	Customer Satisfaction	 Stakeholder Engagement Our starting point was to review Ofgem's minded to position in their SSMC. We have also undertaken a range of analysis into how C-Sat scores have changed since their implementation. This has included (ongoing) forensic operational analysis of the main drivers of good and bad C-Sat scores in each customer journey. We are founding members of the Fellowship for Responsible Business and worked with them to arrange a series of workshops to discuss best practice and undertake benchmarking with organisations operating across multiple industries (e.g. banking, retail, infrastructure, services, etc.). Customer Engagement Customers were engaged on quality customer service using a variety of qualitative and quantitative research methods including 7 regional deliberative workshops, 210 in-depth interviews (online and face to face), and quantitative surveys. This included broad and targeted research and commitment testing (this took place during acceptability and affordability testing with over 8,000 customers). 	 Stakeholders Regulators (Ofgem) Fellowship for Responsible Business - workshops with SatVirgin, First Direct, Overbury, Atom Bank, Audi, United Utiorganisations across multiple sectors. GDNs Customers Customers taking part in the qualitative research were recadent's regions. Customers from a range of segments were involved in thaffordability quantitative research, providing a statistically representative sample including domestic customers and s included customers in vulnerable situations, future bill pay fuel poverty.

	 We engaged with colleagues and members of our supply chain to review good practice for reducing carbon emissions through our major capital projects at our Supply Chain Sustainability conference in 2023. We have also engaged with the HSE to feed into a range of technical tests we are completing to demonstrate the structural integrity of certain asset types for which there is a very low tolerance level to date (e.g. items dropped having to be discarded). 	 During the RIIO- services that can be levels further. We will complete replacement project environmental impour We will align our We will align our We will expand of Protocol Scope 3 e
	 The team supporting the NESO and RESPs will need to ensure that a whole system approach is well planned and communicated. 74% of customers currently can not see a clear vision and strategy for achieving net zero while 65% claim to be worried about the impact of climate change in their area. Collaboration is a vital success factor for both stakeholders and customers. Research with 8 leading European academics in net zero change shows consensus that leadership, communication and clear impact on the individual is vital to success of net zero change. 76% of customers and 82% of businesses agree collaboration is important in meeting net zero. A team working with NESO and RESPs is therefore needed. Our work with power-intensive businesses (e.g. glass manufacturers) has demonstrated that there are currently no alternatives to gas to power their businesses. Take up of heat pumps remains very low, relative to targets and our research demonstrates that even with significant financial incentives, customers are unlikely to invest in a heat pump (or any alternative technology to a gas boiler). Of 13k people surveyed, 3% are planning on changing their heating system in the next 5-7 years (12% are considering it, 	 We will create a our regions and to solutions. Cadent will supp away from reliance creating enough co greener gas, for he Our plans explain making no decision H2 or biomethane network is used to They include commetwork could be ostrategy).
ess - workshops with Sainsbury's, Vodafone,	measures be established (including one for I&C customers). These additional measures were rejected in Ofgem's final determination.	We support Ofgem GD2 in the three e
Bank, Audi, United Utilities and c.10 other rs.	continued to engage to understand how we can improve customers' experiences in all 3 customer journeys. Through our RIIO-3 customer engagement, we can see that customers still desire quality customer service and it is highly valued. 87% of customers believe high quality service is important and 4/5 of customers rate our commitment to deliver high quality service as acceptable.	Whilst we have we (better) measures for 'worst served of measuring this and especially as the n reach their perform
nts were involved in the acceptability and providing a statistically robust mestic customers and staff. The research	• We did, however, engage with CX leaders across multiple sectors, through our involvement with the Fellowship for Responsible Business (FRB) and designed an approach to measure C-sat for our worst served customers. We have proposed to measure this internally and feedback to Ofgem and other GDNs on the impact at the end of the period, to inform RIIO-GD4 considerations.	We will work with with guidelines fro
tuations, future bill payers, customers in	RIIO-2.	Our engagement (how we deliver im making, allowing u

Weighting of decisions 90% Stakeholder insight□ 10% Customers

t (especially through BAU) provides continual insight to support improved C-sat and this continues to feed operational decision making, allowing us to be confident in achieving the targets being set

IO-GD3 period we will shift to more reliable materials and an be reused, upgraded ad repaired to reduce operational waste

lete our first life cycle assessment of a streetworks mains oject, taking the outputs from the assessment to analyse the impacts and create an action plan for RIIO-4.

our Procurement strategy to ISO 20400.

nd our scope 3 emissions reporting following the Greenhouse Gas 3 emissions categorisation.

e a team to support engagement with the NESO and RESPs across d to support with local area energy plans and whole system

upport customers throughout the energy transition (i.e. moving ance on fossil fuels to a cleaner, greener energy). This will include h connections for biomethane producers to provide cleaner, r heating around 2 million homes in the future.

plain that whilst not planning for a move to Hydrogen, you are isions in the plan that would preclude a more extensive move to ane in home heating. I.e. keeping options open for how the d to support the transition.

ommitments to invest in modelling to evaluate where/how be decommissioned through the transition (refer to Digitalisation

em's proposal to maintain the C-sat measures applied in RIIOe existing customer journeys.

e worked with CX leads in other sectors to explore alternative res to C-Sat, we have not proposed to add an additional measure d customers' in this period, but will review the impact of and propose it in RIIO-GD4 as we believe there is merit, e number of gas connections reduces and the current measures formance peaks.

ith other GDNs to develop a measure for disconnections in line from Ofgem.

High quality of service from regulated firms	Customer Vulnerability Strategy	 Stakeholder Engagement Strategic Deliver Partners - Informing our strategy and plan has been largely stakeholder led as we continue to work with our 80 strategic delivery partners to understand the challenges our customers face, define the scope of support Cadent can offer, design, test, implement and ultimately deliver initiatives to support customers in vulnerable situations. This is an ongoing and iterative process that has been in place for C.5 years Operational Partners - We meet at least monthly with our strategic delivery partners, reviewing existing initiatives (best practice to share and areas for improvements) and assessing future needs / opportunities Our 350 Centres for Warnth leads meet on a 6-monthly basis for best practice sharing assosions - these generate a range of insights that enable continual improvement, but also highlight potential gaps not filled by the Centres (or other routes) to fed future planning considerations The Annual VCMA Showcase Event is attended by up to 300 stakeholders (mostly experts working to support specific vulnerability needs) - this allows us to share good practice and challenges across all GDNs Tärgeted Round Tables - We have held a number of focussed round-table discussions with stakeholders with, for example to co-create the evolution of our Services Beyond the Meter programme, following our Energy Diaries customer research project Constinuty cents and round tables - such as the OFWAT / OFGEM vulnerability Conference - In October 2024 we held our National Vulnerability Conference, attended by 170 delegates across the private, pubic and charity sector, along with a political and regulatory lens. This focused on understanding the true depth of the cost-of-living crisis, hear of success stories to lear from and consider vulnerability charter projects add greatest overall value Cost Industry events and round tables - such as the OFWAT / OFGEM vulnerability summit t	and local), National Energy Action, Groundworks UK, RNIB, RAD, Scope, Alzheimer's Society and YMCA •Over 20 partnering organisations, including NHS Trusts, Fire and Rescue Services and Yes Energy •Carbon Monoxide Partnership Ecosystem (COPE) – which we established in 2023 to enable a UK-wide coordinated approach to mitigating the risks of CO poisoning, sharing data, best practice and resources (over 100 separate organisations operating in this space) •Research / PR and marketing organisations to inform how we engage with awareness campaigns to have the greatest impact •Elusiness Leaders - Usually customer vulnerability leads working in different sectors, including banking, water, construction, retail and technology •Endustry working groups - e.g. the Customer Safeguarding Working Group chaired by Cadent •Ebilitical stakeholders - from all main parties and increasingly with Government ministers and local Mayors to both inform our strategies and their policy decisions •Other utilities - both to inform plans, but also to coordinate how we operate to improve experiences for customers in vulnerable situations •Eithish Standards Institution (BSI) - auditing our approach to accessibility and supporting customers in vulnerable situations to achieve the industry standard •Cadent's CCG and SCG Cadent employees • Those engaging with customers in the front line Customers • Customers from a range of segments were involved in willingness to pay and the acceptability and affordability quantitative research. Both surveys provided a statistically robust representative sample, with willingness to pay having both household and non-household customers, ustomers in fuel poverty and digitally disengaged, with acceptability also including impacted customers (experience of an emergency, incident or supply interruption) and expert customers (involved in RIIO-2 research).	 especially focussed on energy efficiency improvements. They explain that Cadent needs to reflect on the energy efficiency in the energy efficiency in the energy efficiency is a control of the energy efficiency efficiency is a control of the energy efficiency is a control of the energy efficiency is a control of the energy efficiency effi	 We have balance maintaining or in towards a reduction developed a strate require less regulation Nevertheless, we the VCMA in a similar and certainty. We have placed into initiatives the chapter, which we evolution of Servand considering for the have agreed could be funded to joint Vulnerability. We have added commitments, in
High quality of service from regulated firms	Collaborative	and targeted research and commitment testing (this took place during acceptability and affordability testing with over 8,000 customers).	 A range of other utilities including Thames Water and UKPN through the RIIO-2 programme (of collaborative streetworks) Customers A statistically representative sample of customers across Cadent's regions took part in the National Survey. Customers taking part in the qualitative research were representative of 	 Disruption was a key focus for customers when we completed the enhanced engagement programme for RIIO-GD2. Disruption remains a key focus area as reinstatements is a major driving to reducing the C-Sat scores over all 5 regions. We know this aligns to road disruption from reading 4k verbatim comments and analysing the views of customers that give us a score of 1 in C-Sat. 69% of domestic customers support the expansion of collaborative streetworks, with the greatest support being outside of London. 62% of people said they had experienced streetworks disruption in the last 6 months so the topic feel relevant and emotive. Businesses in particular want notice and feel they can lose trade if customers can not access their premises easily. 4/5 feel collaboration across sectors makes sense and 73% think the current scheme is value for money and 69% are in favour of expansion (both of the latter measures were observed when giving price impacts). This was highlighted through a series of detailed customer research programmes when we were forming our proposals for the UK's first Hydrogen Village - customers' second main concern was disruption, by which they meant gas supply interruptions, physical impacts to their homes and the amount of road closures across their village. We have overlayed this key customer priority with lessons learned from working with multiple utilities, councils and town planners in our London Network through the existing collaborative streetworks incentive. We have seen multiple examples of reduced time in the road, alongside a range of other customer and environmental impacts. The GLA and several of the local councils have provided outstanding testimonies relating to the schemes we've run. We have received signed expressions of interest from a number of stakeholders including Walsall, Greater Manchester Combined Authority and Cheshire West & Chester; along with survey responses supporting expansion from Essex County C	We will continue incentive, and it's organisation has Coordinator durin

er Vulnerability Strategy continues to focus on the same four sa we have in RIIO-2.

ten lessons learned from the 250 projects delivered to date to initiatives that will roll into the next period (based on an g of need, impact, strategic fit and other factors described in our CV

pposed extensions to several key initiatives, including Centres for WS (partnering with NHS Charity Trusts), where we and have noted the most value / impact being generated. feedback is put under pressure of analysis against strategic aims as that there may be an inherent bias from those already receiving

anced the feedback from stakeholders and customers that suggest or increasing funding in this area with Ofgem's SSMD which leans duction (noting overall impact on customers' bills). We have strategy that will deliver greater impact (reach and breadth) but egulatory funding.

s, we have stressed the importance of maintaining the operation of a similar manner – allowing continued flexibility, strategic planning

aced greater focus on energy efficiency measures and linked these as that sit in our Environmental Action Plan and Quality Experience of will also see us create an industry wide 'blueprint' for the Services Beyond the Meter, working with a range of stakeholders ing future requirements resulting from an energy transition process. reed with other GDNs which initiatives we collectively deliver that ded through base allowances, rather than the VCMA and created a bility Strategy that describes this.

ded several direct customer outcome measures within our s, in addition to SROI.

nue to advocate the extension of the collaborative streetworks d it's associated benefits, to other regions where a suitable has expressed a willingness to take on the role of Central during RIIO-3.

System efficiency and long-term value for money	Digitalisation	Stakeholder Engagement Workshops, meetings, forums with experts, conferences/summits, data sharing requests, open data portal engagement, supplier RFI (request for information). Customer Engagement Qualitative insight from over 90 customers via 7 deliberative workshops across the Cadent region. Topics covered include quality customer service.	 Stakeholders Sia Partner horizon scanning & comparis Digitalisation collaboration group. Digital twin considerations: Microsoft, A Informatica Stakeholder engagement undertaken presentation of gem working groups NCSC/Cyber security team at DESNZ Gartner ENA Data and Digitalisation steering groups NESO Geospatial commission 3rd party organisations, LEAP and supple Internal stakeholders CCG Customers Customers taking part in the regional derepresentative of Cadent's regions. Custom payers and customers in fuel poverty.
System efficiency and long-term value for money	Innovation	 Stakeholder Engagement Webinars, public forums, surveys and online meetings. Face to face depth interviews and phone interviews. Project reports from completed projects. Industry events such as Innovation Zero and Utility Week. Longitudinal study with the general public including qualitative and quantitative components including qualitative ethnography, workshops, interviews, quantitative surveys. Topics explored were energy use, sustainability and fuel costs. Customer Engagement Qualitative insight from over 90 customers via 7 deliberative workshops across the Cadent region. Topics covered include quality customer service. Online workshops with our GD2 expert panel. Willingness to pay research undertaken. Broad and targeted research and commitment testing (this took place during acceptability and affordability testing with over 8,000 customers). 	Stakeholders • ENA • ESO • Power Grid • Google & Amazon (benchmarking innov • I&C companies and businesses • Stakeholders in the Hydrogen Village • GDN Collaboration • GDN joint research with stakeholders Customers • Customers taking part in the regional derepresentative of Cadent's regions. Custor involved in the research including custom payers and customers in fuel poverty. • Customers from a range of segments were the acceptability and affordability quantite a statistically robust representative samp household and non-household customers, domestic customers and staff. Both sets vulnerable situations, future bill payers, or disengaged, with acceptability also include of an emergency, incident or supply inter- (involved in RIIO-2 research).

	Our insights have informed us that:	• Cadent wil
parison across GDNs from Gas Data and	• Strategies focusing (where possible on) swift digital transformation boosts operational efficiency, cutting costs through	channels and
AWC CAD FODI Databriaka	improved decision-making, streamlined automation, identification of inefficiencies, safety enhancements, and	• The digital
ft, AWS, SAP, ESRI, Databricks,	environmental benefits by optimising resources and reducing waste.	reliance on c
n providucly	• Data Best Practice should be becoming part of business-as-usual operations, but still expect to see significant spend to achieve compliance with Data Best Practice. We have engaged with Ofgem, DESZ and NCSC, other GDNs and National	interventions service level
n previously	Gas, ENA DDSG, has helped us on our DBP journey through targeted collaboration, evolving thinking and adoption of best	
Z	practice.	• The focus v
	• Ofgem expect a major step during this price control period will be the need for improved internal data architectures to	including a d
g group	integrate with the planned development of a data sharing infrastructure. We have engaged with NESO (use cases and	improved int
9 9 0 0 P	collaboration regarding DSI), 3rd party organisations who provide our strategic data platforms and solutions, Local	Ofgem, NES
	Authorities and our supply chain who regularly use our Data Assets which has helped to understand the scale and scope	Overall mod
	of the investments required in RIIO-3.	energy and e
upply chain	Future Energy explorer: We have engaged with other utilities, and SSEN, SGN, ENW and UKPN are wanting to incorporate	 An importa
	the logic into their systems, asking for partnerships in different SIF and NIA projects to support. We are engaging with	scenario plar
	NESO and RESP Nov 2024.	development
	• Customers are happy with the current approach to calling in a gas emergency via a phone call because customers are	biomethane
	guaranteed an instant response and feedback Customers feel there could be an alternative option that runs alongside	"gas" capabi
	phone for example: video call, webchat with a person, an app which captures the customer's location (Regional Focus	• Insource d
al deliberative workshops were	Group 2023).	of 59 new re
Customers from a range of segments were	Weighting of decisions	in RIIO-3 (W
stomers in vulnerable situations, future bill	• 80% Stakeholder insight	 Improvement
	• 20% Customer insight	efficiency ch
		 Collaborati
		interoperabil
		forward in bu
		for data shar
		Data and dig
		infrastructur
		additional ar
	• Expert customers: We spoke to our customer forum, who are the most informed about the gas networks, regarding	• We have p
	innovation funding and they were clear that Cadent should have a fund for innovation but are undecided on if Cadent	reduced the
	should have more freedom to use the funding. The majority still in favour of regulated funding.	need to be n
	• ENA - Energy Innovation Summit 2024 – Energy companies playing back work taken forward from the Basecamp. Focus	
novation culture)	on the energy system transition, supporting customers in vulnerable situations and how gas and electric networks can	innovation a
	work together.	priority, clim
je		expectations
	There are 5 key areas from our engagement with stakeholders and customers that drive a need for continuing innovation:	System Tran
rs	• Emergency Service priority: Regional stakeholder workshops indicate that customers prioritise 'good service' as	• £7.7m is s
	"important", this is further upgraded to "critically important" in emergency situations. When we asked the general	and conversi
al dalibarativa warkabana wara	population, 75% of customers agree that energy companies have a particular responsibility for protecting the most	as the likely
al deliberative workshops were	 vulnerable in our society – Think insight & Strategy 2023. Climate resilience: We have committed to ensure we have more detailed contingency plans for climate change 	• For NIA, w
Customers from a range of segments were		meetings as
scomers in vulnerable situations, future bin	resilience as people start to understand the interplay between gas and electricity in providing heat reliably. Customers can recall loss of gas due to extreme weather with events like "beast from the east" and although 79% understand their	the project jo and opportur
ts were involved in willingness to pay and	boilers need electricity to provide heating, fewer understand that 30% of stored gas is used to generate electricity (40%	We will cor
	in discussions with business customers) and that the entire energy system is balanced across the fuel types to meet	(SIF) as this
ample, with willingness to pay having both		funding to er
ners, whilst acceptability included	• Disconnections: If disconnections are going to increase across the sector, innovation is required. We see that 51% of	running to er
sets of research included customers in	customers do not expect not to pay for this service. When shown various amounts 51% chose £0 with the most common	
rs, customers in fuel poverty and digitally	amount chosen being £250 for 24% of customers (choices increased in increments to several thousands). Generally the	
icluding impacted customers (experience	topic is not well understood by consumer, so few know what to expect, therefore considerable investment will be required	
nterruption) and expert customers	to educate consumers on both the need and what to expect.	
	• Technology advancement: When we asked the general population, 35% expect energy companies to fund research in	
	new technology and low carbon heating (4th top answer when asked to pick top 3 actions of energy companies).	
	• Energy System Transition: Detailed discussions with 35 I&C businesses shows a solution to decarbonise heating with	
	Hydrogen is crucial & 18 stakeholder groups agree that hydrogen is part of the net zero strategy for the UK. GDNs –	
	Collaboration through Gas Industry Governance Groups – Shared thinking on new net zero pathways for users. Energy	
	Networks Association (ENA) - Basecamp shared problem statements – decarbonising, forecasting, maximising existing	
	infrastructure, net zero impacts, customer journey to net zero.	
	Weighting of decisions	

• 60% Stakeholder insight

40% Customer insight

ill improve communication to customers including new digital nd 24/7 access to the customer service centre.

- alisation strategy underpins large elements of our business plan e.g. n data to target customers in vulnerable situations with the right ons, and many of the customer interfaces to support ever increasing rels. These are described in detail in the Digitalisation Strategy and I throughout the Plan
- s will be on 9 digital projects that create a digital progression data model for the gas network, automation, remote planning, nterfaces and connections to enable data sharing in order to meet SO, RESP and other stakeholder needs (see efficiency chapter 6). dularity for a digital twin to create a step change for the future of l energy system design and optimisation.
- tant expression of the overall digital ambition is a user centric anning tool "Future Energy Explorer" this will enable flexible use case int dependent on stakeholder needs such as LAEP planning, e feasibility and will support our work as NESO is established bringing bility into full system planning.
- digital skills to avoid unnecessary external expenditure, and inclusion resources to support regional planning and engagement with the RESP Workforce and supply chain appendix 17). nent in our Data Best Practice compliance as evidenced in our
- hapter 6. cion with GDNs on common standards for data sharing,
- ility of gas data, etc has increased confidence in the figures we put pusiness plan due to collaboration with GDNs on common standards iring, interoperability of gas data, etc.
- gitalisation are underpinned by our cyber physical
- re/systems planning. Our data requirements (growing) require nalysis and storage capabilities, requiring the CPI to support it. proposed a Network Innovation Allowance of £21.45m. We have
- e fund by one third in comparison to current levels, reflecting the mindful of charges to customer bills in a cost of living crisis. areas from our engagement that drive a need for continuing and have been included in the proposed NIA fund: emergency service mate resilience, disconnections during transition, customer
- is of technology advancement, and pivotal research for the Energy nsition. set aside to explore innovative methods to support identification of
- sion of assets, and we will consider the topic of disconnections such y pattern of disconnections in order to have readiness planning. we will leverage industry forum groups, events, and cross-network s platforms to discuss and develop innovative ideas. Before beginning journey, we will share our problems with other networks to provide unity to collaborate.
- ontinue with the current process for the Strategy Innovation Fund s is both collaborative and controlled, while providing important enable innovation particularly for cross sector collaboration.



Document:	RIIO-3 Stake	IIO-3 Stakeholder Engagement and Decision Log						
RIIO-3 Outcome	Policy Area	Type of Engagement Undertaken	Stakeholder Groups	Summary Feedback	Impact on Business Plan			
The primary RIIO-3 Dutcome to which the engagement relates	to which the	webinars, roundtables, surveys, through third parties, representative	Which stakeholder groups were represented through the engagement and provide commentary on the relative balance of stakeholder voices. Were any relevant groups not represented?	What feedback and key messages did you hear from your stakeholders? Where different views were expressed, what were the relative weighting of these?	What impact has the feedback received had on your business plan? Provide specific examples of relevant decisions that have been influenced by the engagement. Where you have made a decision might be seen as counter to the feedback received, explain why this is and set out what measures you have taken to address the feedback received.			
Safe, secure and resilient supplies	Asset Health (NARM)	 these underpin many of activities in our plan. Additionally, there is an industry defined methodology for measuring the remaining risk on the network, called the Network Asset Risk Metric Methodology (NARM). This monetises risk and enables us to assess interventions in terms of their impact on risk and criticality (to enduring supply). As such, workload is driven by a combination of legislative workload requirements and cost benefit analysis. Existing Industry Workstreams and Workshops Stakeholders were engaged through established ways of working including cross-sector workshops and industry workstreams. GDN collaborative research with national stakeholders, carrying out in-depth interviews. Customer Engagement We fed customer insight (willingness to pay) into the cost-benefit algorithm and we also considered deliverability to deliver the optimal programme. These are all covered in the Investment Decision Papers and the NARM workbook. As with mains replacement, this represents a significant element of 	 engineering justification papers, cost benefit analysis models and NARM methodology development. To determine deliverability we engaged with our supply chain and internal engineering team through monthly operational review meetings and forward planning workshops (e.g. consideration of Electronic and Instrumentation resource availability which is considered in our Workforce and Supply Chain Resilience strategy) Shippers were engaged through the Uniform Network Code Distribution Workstream. Local Authorities with a focus on those where greater workload is planned for RIIO-3. GDN joint research with stakeholders Customers from a range of segments were involved in the acceptability and affordability research. The research included customers in vulnerable situations, future bill payers, customers in fuel poverty,	The expectation from the regulators (HSE and Ofgem) is to maintain underlying risks levels at a similar level to that in RIIO-2, unless there is a specific need to deviate (e.g. their updated requirements on legislative compliance). Ofgem have specified a guideline of gas distribution investments (where not mandatory) having a cost benefit payback within 16-years and the NARM methodology continues to be developed through the cross sector industry workgroups (e.g. Ofgem's November consultation on the definition of clearly identified over-delivery). We have also engaged with shippers to discuss their requirements around fiscal metering at our above ground installations. For example any interactions with the measurement of gas flows and unidentified gas and shrinkage. They have been keen to ensure that we have accurate metering at our AGIs and hence avoid consequential implications on gas market settlements that have arisen from historic metering errors. For deliverability, we've engaged with local authorities and taken experience from RIIO-2 to assess what is achievable in RIIO-3. We also used output from operational meetings and planning sessions with our internal engineering experts and supply chain partners, which has fed directly into each of the Engineering Justification Papers. Whilst the outputs of customer research have not fed the decisions of the plan (which have been stakeholder led), we tested what is important to customers within the context of the distribution of gas to homes and businesses. Delivering a safe and reliable network is a priority (59% of customers agree) and customers universally prioritise the maintenance of a safe network. Customers feel a 'reliable gas supply' is a minimum service level Cadent should provide. Through the collaborative GDN research with national stakeholders, insight shows that ensuring the resilience of the gas network is a so seen as a core service which must be delivered. Weested acceptability of our commitments and overall plan. Having a safe, secure and resilien	Our plans set out targeted asset health interventions on the major asset groups to ensure we can meet our legislative requirements and deliver value for money by choosing the right blend of options. Within the plan there are asset projects, which have specific engineering justifications to address key asset health resilience risks, which under Ofgem's definition are classed as major programmes, for example London Medium Pressure mains replacement. As a result of our engagement with shippers, we have undertaken a number a number of specific actions to mitigate the risk of errors on the existing asset portfolio and we have also proposed a continuation of the RIIO-2 replacement programme to install ultrasonic meters at these sites in RIIO-3. As a result of our engagements related to deliverability, we have proposed to undertake feasibility studies in RIIO-3 to determine the optimal interventions, e.g. London subways and tunnels and the West Winch pipeline in our Eastern network.			

Safe, secure and resilient supplies	Climate Resilience	 development of our Climate Resilience Strategy - most engagements are ongoing through partnerships and contracts that we have in place with stakeholders: Environment Agency: They provide an ongoing service in relation to flood prevention, alerts and alarms to support operational decision making, but also provide a range of resources to inform our planning and prevention strategies. Meteo: We have a long standing contract with Meteo to provide weather forecasting (mainly temperature related which drives gas demand), but have extended this to cover temperature, rain and precipitation. They have provided analysis to project how weather changes are likely to impact our network which feed our climate resilience strategy. DEFRA: through our climate change adaptation process, which they feed back on annually, allowing continual assessment and 	Climate Change, National Infrastructure Commission, Environment Agency) • Regulators (Ofgem) • Met Office and Meteo	consequential impacts of such weather, including operational and financial impacts. Weighting of decisions • 100% Stakeholder - predominantly regulatory / policy related	Based on the input, legislative requirements, and good practice provided, our strategy focusses on ensuring that gas continues to be supplied reliably to homes and businesses when there are unplanned events such as extreme weather. Detailed contingency plans are in place for all circumstances. As a result of ongoing feedback, our climate resilience strategy includes identified good practice such as climate scenario planning, adaptation pathways, metrics and indicators established. Our strategy is designed to mature our capabilities in managing long term climate risk, with an ambition to transition towards a proactive `resilience by design' position. Further details on specifics are included within our Climate Resilience Strategy. This builds on feedback we received.
Safe, secure and resilient supplies	Physical Security and Cyber resilience	 Stakeholder Engagement We engaged with DESNZ and Ofgem through a range of workshops and working sessions We engaged with expert advisors through commercial arrangements and (paid for) reviews and benchmarking Customer Engagement Research to support customer testing relating to the overall value of the bill (Acceptability and Affordability testing with over 8,000 customers). This included both qualitative and quantitative methods (deliberative workshops, interviews (online and face to face) and surveys). 	 Stakeholders There have been two key sets of stakeholders involved in supporting the development of our proposals: DESNZ and Ofgem to inform requirements (legislative and regulatory) Expert advisors to help inform the development of Cadent's plans, using their expertise of working with multiple clients across the world Customers Customers from a range of segments were involved in the acceptability and affordability research. The research included customers in vulnerable situations, future bill payers, customers in fuel poverty, digitally disengaged and expert customers (involved in RIIO-2 research). Customers were statistically representative of the Cadent region. To ensure the sample profile matched the population, quotas were set and the domestic data was appropriately weighted regionally and by total. 		We have set out our plans to meet the enhanced standard of the Cyber Assessment Framework to manage cyber and physical security. The plans reflect the risk assessment of critical systems and processes under the National Information Security Directive and the [Ministry of Defence's] requirements for physical security around designated Critical National Infrastructure. Our plans have been designed using input from cyber experts that we have consulted with. In addition, our commitment to using digital channels will also consider these expert guidelines, as we are committed to new digital channels and 24 hr access to customer service.

Safe, secure and resilient supplies		Stakeholder Engagement • Regular meetings and working session with EU skills council, including other similar organisations to discuss a range of topics. Cadent Employee Engagement • With Cadent employees to understand their engagement levels and support the development of plans to improve the EVP through our annual Employee safe and well survey. • Employee and trade union representative groups: Management engagement group, Cadent staff forum, Field force forums, Inclusion community groups, resilience committee - these run monthly and provide an opportunity to engage on upcoming changes (Cadent or other) and share good practice.	 Legislation New fatigue legislation by Government Benchmarking Benchmarking the FTE for whole systems Stakeholders Glenigan Energy and Utility (EU) Skills Council Innovate UK Research and Innovation (UKRI) IGEM ENA: Energy Innovation Basecamp Re Generate (industry expert) to support people getting into work. West Midlands employment alliance including Severn Trent, Ernst and Young, Balfour Beatty, Timpsons, DWP (Department Work and Pensions), Amazon & Greggs, Youth Future along with IGEM, ENA Basecamp and Innovate UKRI to encompass our innovative vision GDNs Cadent Employees 	 Glenigan are predicting a 16% increase in Construction Industry over the next 3 years, and they do not expect that it will slow after the 3 years. □ Construction contracts are due to be awarded imminently across a range of sectors including water and electricity (in line with investment drives) - impacting supply and our actions related to attraction and retention.□ The employment angle of energy security is perceived positively with customers linking creation of more jobs with 'job security'. Innovate UKRI is helping us connect with UK SMEs to grow the development of new products and services. New fatigue legislation and new standard on cyber are policies set out by relevant government departments have fed our strategy. Equity, Diversity and Inclusion Cadent safe and well survey shows the managers have reported a need to improve competency around supporting employee mental wellbeing and having difficult conversations for a health & wellbeing focus - there is much focus on this in our strategy as a result. The continued importance of inclusion. This has been used with internal data captured on sickness, absence, attraction and retention. External evaluation of all the above has been undertaken by EU Skills verses all Utilities hence why we are Employer of the Year. We will continue to maintain these high standards particularly receiving recognition for removing barriers to entry for field force as a hugely ambition recruitment lever for inclusion (i.e. for academic qualifications which limit diversity). Weighting of decisions 90% Stakeholder insights influencing decisions 10% Cadent Employees 	Our plan contains a commitment to train our workforce on tier 2 diameter pipe to reflect our change in workload mix to deliver the re worked mains replacement programme considering the competition in the industry and needs to attract and retain To invest in new shift patterns to enable legislation change on fatigue for our workforce. Our workforce resilience strategy highlights additional resources to effectively manage fatigue in line with the HSE requirements. Our plan will invest in new skills to enable full energy system delivery and planning for a digital and net zero world, including, enabling the connections and transport for low carbon gas such as biomethane, hydrogen blend and other low carbon solutions & upskilling all employees on cyber. We are, for example, requesting funding for 59 resources to support in energy planning to engage with regional system planners, NESO, etc. To protect skills and jobs by managing the supply chain competition challenge with competing infrastructure requirement of water, transport and electricity upgrades. We will increase suppliers through a range of formal and informal events, ensuring that final contract strategies fully consider the supplier experience as well as fulfilment of our business objectives. We will move away from traditional "arms-length" framework models to ensuring guaranteed volumes and secured commitment, giving certainty to (and from) the supply chain. We are also focusing on future talent through our 'Future Fieldforce' and 'future engineers' programmes, highlighted in Appendix 17 Deliver ambitious targets on improving Equity, Diversity and Inclusion within Cadent (representing the communities we serve and
High quality of service from regulated firms	Complaints handling	current complaints measure and agree that this should be maintained for RIIO-3. Customer Engagement Qualitative insight from over 90 customers via 7 deliberative workshops across the Cadent region. Topics covered include quality customer service.	 GDN Working Sessions We have participated in a number of GDN working sessions (along with Ofgem) to consider alternatives or adjustments to the existing complaints measure. Customers Customers taking part in the regional deliberative workshops were representative of Cadent's regions. Customers from a range of segments were involved in the research including customers in vulnerable situations, future bill payers and customers in fuel poverty 	 We have not undertaken any detailed new customer engagement on this policy area, having done so to develop our RIIO-2 proposals. However, through our focus groups across the 5 regions, we explained our performance measure and scores to customers and asked them to comment on them. In all workshops there was almost universal agreement that the existing commitments on complaint handling exceeded or met their expectations. Through our FRB workshops (described above) we were able to conclude that we have created a genuinely leading target for complaint closures within 24 hours, which customers during our RIIO-2 enhanced engagement explained was their primary focus for customers. With this feedback, along with clear performance data showing that Cadent's and other GDNs' complaints performance continues to improve year on year, with more than 80% of all complaints resolved within 24 hours, we proposed to our Customer Challenge Group (CCG) and Executive Committee to support Ofgem's minded to position, with agreement from both. 	untapped talent pools contributing to overall UK We have proposed to maintain the same measure as has been in place since the start of RIIO-GD1. We undertake forensic analysis of complaints data and use this to inform decision making that has helped drive the significantly improved (and industry leading) complaints scores.
High quality of service from regulated firms	Guaranteed Standards of Service (GSOP)	Stakeholder Engagement • GSOP annual review Customer Engagement • Qualitative insight from over 90 customers via 7 deliberative workshops across the Cadent regions where we looked at quality customer service and existing measures.	 Stakeholders Citizens Advice through their annual review on GSOP Other GDNs Customers Customers taking part in the regional deliberative workshops were representative of Cadent's regions. Customers from a range of segments were involved in the research including customers in vulnerable situations, future bill payers and customers in fuel poverty. 	 90% Stakeholder insight□ 10% Custamore We were part of a cross industry review of existing measures at the start of the RIIO-GD2 period. We have deliberately not engaged at length on this subject to inform RIIO-GD3 proposals, partly because of this. However, we did ask customers for their feedback on the existing measures in our regional workshops. The main feedback we received related to the lettering process, which was felt to be outdated and unlikely to be read, without letters being addressed to a particular person (i.e. not to the 'homeowner). It is clear from our own analysis that there is very little correlation between GSOS performance and C-Sat (therefore indicating that the GSOS measures are not key ones for customers). We recognise that there could be significant changes to the industry (less connections, more focus on disconnections, etc.) and therefore propose to undertake a study during the period and suggest enhancements for RIIO-4. Weighting of decisions 90% Stakeholder insight□ 10% Customers 	

High quality of service from regulated firms	·	 Stakeholder Engagement Meetings with Citizens Advice, who have completed a number of independent studies in this area to understand their findings and views GDN Meetings Customer Engagement Insight was gathered using both qualitative and quantitative methods including 13 deliberative workshops, surveys, 21 focus groups, face to face interviews, online workshops. This included a national survey, broad and targeted research and commitment testing (this took place during acceptability and affordability testing with over 8,000 customers). The research used a variety of stimulus, scenarios and modelling, which continuously built upon findings from previous research, refining and stress testing results. 	 Citizens Advice Other GDNs Customers A statistically representative sample of customers across Cadent's regions took part in the National Survey. Customers taking part in the targeted research were representative of Cadent's regions. Customers from a range of segments were involved in the acceptability and affordability quantitative research. The survey provided a statistically robust representative sample and included domestic customers, staff, customers in vulnerable situations, future bill payers, customers in fuel poverty, digitally disengaged, impacted customers (experience of an emergency, incident or supply interruption) and expert customers (involved in RIIO-2 research). 	 acceptable. This was reaffirmed during multiple types of customer research for the RIIO-GD3 plan. Through focus group sessions with customers who had experienced longer term interruptions (usually during a major incident), we have fed learning (especially around how to improve communication) into our business processes. We also reviewed 1000s of pieces of customer feedback in C-Sat returns, complaints and real time feedback loops (e.g. Rant and Rave) to assess whether 	 Whilst not responding to the insights we have obtained, but as required by Ofgem, we have proposed a common Minimum Performance Level (MPL) and Excessive Deterioration Level (EDL) for non-multiple occupancy building (non-MOB) unplanned interruptions. We have also provided network-specific MPLs and EDLs for both multiple occupancy building (MOB) and non-MOB unplanned interruptions, that respond to our insights. In all cases we will continue to deliver beyond these minimum standards on unplanned interruptions for MOBs and non-MOBs. On the rare occasion when a gas supply is interrupted at a customer's property, Cadent will ensure the supply is back within 10 hours (on average).
Infrastructur fit for a low cost transitio to net zero	transitions in the energy	 The Cadent region has been split into geographies based around locations of likely hydrogen demand. These 5 regions (HyNet- Northwest, East Coast Hydrogen – North East, Capital Hydrogen - South East, Cumbria - Cumbria, Hydrogen Valley – West Midlands and East of England) have established stakeholder communities and working groups to enable the development of a planned needs case. Engagement has been undertaken through, surveys of industrial companies to collect data, webinars to explain the purpose of the programme, and direct interaction with interested parties including universities, local authorities, businesses, industrial groups, power generators and trade bodies (such as Hydrogen UK, British Ceramics, Confederation of Paper Industries etc). 	 and National Gas and supported by Gemserv as the secretariat. Another is the East Midlands Hydrogen group (Part of East Coast Hydrogen) which is led in collaboration with the East Midlands Combined Country Authority, supported by HyDex and other key stakeholders in the region. These include Toyota, Uniper, the Institute of Technology, the Manufacturing Technologies Centre, the East Midlands Freeport, the University of Nottingham and the Midlands Net Zero Hub. These group's workstreams focus on specific themes such as industrial fuel switching, hydrogen production, and hydrogen distribution etc. Bilateral engagements between Cadent and large users of natural gas have enabled the collection of data as to the location and volumes of future industrial and power generation hydrogen demand. It has also 	 to decarbonise and therefore comes with significant fuel switching cost benefits. Many cannot access electrical connections in a short enough time scale to meet their decarbonisation goals. Access to hydrogen is important to enable a switch away from natural gas and the production of low carbon products. They need certainty of when the infrastructure is coming (pipelines and storage) so they can plan the investment that they need to make in getting their factories and processes ready for hydrogen. Many have successfully tested, through innovation projects, the viability of 	 Although Ofgem are likely to be the regulator for hydrogen pipelines in the future, our business plan assumes that future funding to support the feasibility and Front-End Engineering Design for new pipelines will be determined by Government. We have had no indication of what this may look like as yet nor from when it will be available. We remain concerned that there will be no funding routes to maintain the stakeholder relationships and detailed design needed for the next stages of work on hydrogen pipelines that is critical to the successful delivery of both the Clean Power 2030 target and wider UK industrial decarbonisation.

Ofgem overlay	Intergenerati onal fairness and accelerated depreciation	Stakeholder Engagement • Online meeting with Citizens Advice. Customer Engagement • Insight was gathered from over 4,400 customers using both qualitative and quantitative methods including 7 deliberative workshops, surveys, depth interviews and online workshops. This included an online survey on funding sustainable energy (2022) ad well as more broad and targeted research. The research used a variety of stimulus, scenarios and modelling.	 Stakeholders Consumer groups i.e. Citizens Advice commentary. Customers A representative sample of customers across Cadent's regions took part in the survey on funding sustainable energy. Customers taking part in the targeted research provided a statistically robust representative sample and included domestic customers, businesses customers in vulnerable situations, future bill payers, customers in fuel poverty, digitally disengaged and expert customers (involved in RIIO-2 research). 	low as possible for as long as possible) which largely translated into opt for paying less now, but there were hopes amongst customers that if payments were delayed these payments may not be needed in the future. Customers generally preferred payments to be deferred, favouring to wait and 'take a chance' on delaying payments until 2031 in hopes that the impacts from the cost-of-living subsiding and also with hopes that the increased costs may not be needed in the future e.g. due to changes in government legislations. With more thought during qualitative discussions, customers have more questions, complex discussions and start to think about the implications. However, through a quantitative methodology customers tended to lean towards paying a smaller amount now, seeing the now option as the better option. Customers in fuel poverty are more likely to not give a definitive answer (no preference, need more information etc.) than customers not in fuel poverty (39% cf. 28%). However, the overall preference is the same – with a preference for applying an increase now the preferred option among both groups (in fuel poverty, 48%; not in fuel poverty, 54%). When customers were informed about the practicalities of a future gas network supplying fewer people with those left on the network potentially left to cover the bill, likely containing those in vulnerable situations and future bill payers. There was a larger proportion of customers who oppose bill increases for future bill payers (40%), compared to bill increases for the vulnerable (32%), highlighting a potential impact paying later would have on future bill payers. There was a larger proportion of customers who oppose bill increases for future bill payers (40%), compared to bill increases for the vulnerable (32%), highlighting a potential greater concern for future bill payers as they currently do not have any voice or direct stake, so should be protected/ supported through not having an unmanageable burden in the future. When given the choice for the bill to be on	
Ofgem overlay	Bill Options	Insight was gathered through commitment testing, which took place during acceptability and affordability testing with over 8,000 customers. c.4,000 customers were shown a lower cost scenario and c.4,000 were shown a higher cost scenario. Separately, 8,000 customers engaged quantitatively over a 3 year period across the country.	Customers from a range of segments were involved in the research. The survey provided a statistically robust representative sample and included domestic customers, customers in vulnerable situations, future bill payers and customers in fuel poverty.	the lowest cost scenario. The higher cost scenario saw a 3% drop in both acceptance and affordability.	