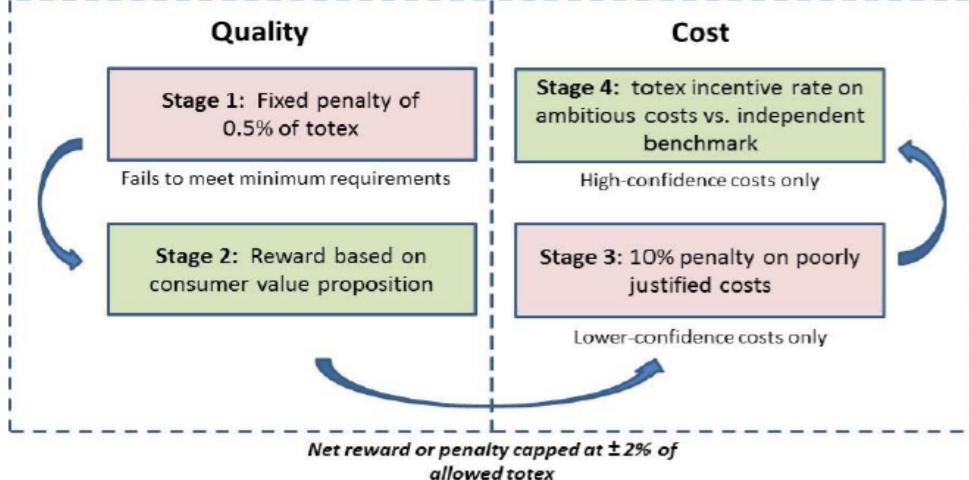


A. Summary

| Strategic Objective | CVP area | Measure | Value (£m) |
|---|--|---|--------------|
| Sector Leading Efficiency | CVP 1a: Reducing the risk of consumers overpaying: our Certain View and output | Cost savings from counterfactual using T1 data as proxy | 75.0 |
| | CVP 1b: Reducing the risk of consumers overpaying: volume driver unit cost allow | Cost savings from counterfactual using T1 data as proxy | 8.5 |
| Safe and Secure Network Operations and Stakeholder-Led Strategy | CVP 2a: Connecting for Society: bespoke commercial and connections services | Carbon savings | 59.5 |
| | CVP 2b: Connecting for Society Network Access Policy | Constraint cost savings | 5.0 |
| | CVP 2c: Connecting for Society: Local Energy Area Partnerships | Cost savings | 6.6 |
| Leadership in Sustainability | CVP 3a: Promoting the natural environment: biodiversity net gain | Consumer amenity value from willingness to pay study | 158.6 |
| | CVP 3b: Promoting the natural environment: VISTA | Consumer amenity value from willingness to pay study | 30.7 |
| | CVP 4: Supporting local communities: local supply chains | Total spend in local supply chain | 6.4 |
| Total | | | 350.3 |

B. Ofgem CVP requirements

Figure 2 – design of the Business Plan Incentive



Ofgem (2019) RIIO-2 Business Plans – Updated Guidance, September.

Stage 2: the Consumer Value Proposition

5.12. Stage 1 of the BPI seeks to ensure that Business Plans meet the minimum requirements. Under the Stage 2 of the BPI, we will assess what additional value beyond the minimum requirements the plan offers. Only companies that are assessed to have met all of the minimum requirements at Stage 1 will be able to earn a reward under this part of the BPI.

5.13. Under the CVP, Business Plans should set out the ways in which their plan goes beyond the minimum requirements and how this will lead to benefits for consumers. Ofgem will assess the proposals included within the CVP and determine whether a reward should be paid to the company and, if so, the size of the reward.

5.14. The CVP must be summarised clearly within the Business Plan. However, it may draw upon material that is embedded within each of the relevant areas that contribute towards the CVP.

5.15. Companies should seek to provide a monetised value to consumers for each proposal forming part of the CVP. Companies should set out any methodology employed in determining this monetised value, along with any underlying data used in its calculation. Ofgem will take this information into account in determining whether a proposal should receive a reward and, if so, the size of that reward.

5.16. Each proposal forming part of the CVP will be assessed individually on its own merit. Where a company is unable to propose a robust methodology for calculating a monetised value to consumers associated with a proposal, Ofgem notes that it may be unable to determine an appropriate size of reward for that proposal, which may lead to the proposal receiving no reward.

5.17. Proposals forming a part of a company's CVP should be clearly and unambiguously identified as such.

5.18. However, Ofgem considers that companies could include within their CVP proposals for:

- service quality levels that are higher than existing levels and delivered at the same or lower cost
- bespoke outputs in aspects of service provision that are not currently reflected in the existing framework of outputs
- commitments for stakeholder engagement, which could take the form of bespoke outputs, likely to result in measurable positive outcomes for consumers
- well-justified initiatives in the Environmental Action Plan to reduce the environmental impacts of the network that will result in measurable outcomes that are valued by consumers
- uncertainty mechanisms that highlight risks to consumers of which Ofgem would not otherwise have been aware
- an innovation strategy likely to drive forward energy system thinking and address consumer vulnerability
- whole system approaches likely to drive forward the industry – including proposals for data sharing
- strategies and implementation plans likely to deliver positive impacts for consumers in vulnerable situations, including use of the consumer vulnerability use it or lose it allowance in gas distribution
- the company's commitment to an above-BAU approach to sharing information and data with relevant parties to facilitate greater whole system coordination

5.19. The above are illustrations of the type of activities that might inform a CVP and companies are encouraged to think broadly about the areas within which they can show how their plan offers additional value. To be clear, this is not a tick-box exercise and the inclusion of the following will not automatically lead to a business plan reward.

What we will expect to see accompanying these type of activities is evidence of the associated additional value to either current and future consumers, or consumers in vulnerable situations. Where possible, this evidence should be quantitative and independently substantiated and take into account any distributional impacts on different consumer types. It is this additional value that will be taken into account in the Stage 2 assessment.

5.20. If the company receives a reward under this element of the BPI, Ofgem will consider whether it should include provision for the clawback of the reward in the event that the commitment(s) in question are not delivered. Companies should consider this in their Business Plan and, where appropriate, commit to returning any associated rewards in the event of non-delivery.

5.21. In assessing a CVP proposal, Ofgem expects to consider:

- Whether the proposal consists of something incremental to the minimum requirements.
- The extent to which the proposal includes evidence that shows how it incorporates consumer expectations/priorities and value (which may include willingness to pay).
- The extent to which the proposal has been reviewed by and received the support of the Ofgem RIIO-2 Challenge Group, companies' CEGs and UGs or, otherwise, the extent to which reasons for the lack of such support are clearly and satisfactorily explained.
- Whether the proposal includes a monetised consumer benefit and an associated monetisation methodology and the extent to which such a methodology is reasonable.
- The extent to which the monetised benefits associated with the proposal accrue to either to current consumers, future consumers and consumers in vulnerable situations.
- Where the proposal relates to a commitment to deliver something within RIIO-2, whether arrangements to address the possibility of non-delivery are set out and the extent to which such arrangements for non-delivery are appropriate and implementable.

This list is not exhaustive.

5.22. Where a CVP proposal relates to the delivery of something within the RIIO-2 period and is rewarded, Ofgem expects to determine the size of the reward by multiplying the net consumer value by the company's totex efficiency incentive rate. This is to help ensure that companies do not spend more in delivering the benefit than the value of that benefit to consumers.

5.23. It may be the case that companies include additional costs in their forecasts associated with the delivery of CVP proposals. Where this is the case, Ofgem will consider any consumer benefit that arises from the proposal net of these costs. If these costs are clearly identified within companies' forecasts, Ofgem will be able to exclude them from relevant benchmarking exercises. If such costs are included in forecasts but not clearly identified (and are therefore included in relevant benchmarking exercises), this could have an impact upon the assessed level of efficiency of the company.

5.24. Where a company includes a proposal for an uncertainty mechanism as part of its CVP, this should include an assessment of the likelihood of the mechanism being utilised in the RIIO-2 price control period.

5.25. As with Stage 1, our view on the CVP will take into consideration, together with all other relevant matters, the reports we receive from the Ofgem RIIO-2 Challenge Group and companies' CEGs and UGs.

C. Data and sources

0. General

| As assumed in BP | | | | | | | | | | | | | | |
|-------------------------------------|---------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|--------|---------------------|
| | RIIO-T1 | | | | | | RIIO-T2 | | | | | | Source | |
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | Source |
| RPI | 2.86% | 1.96% | 1.08% | 2.14% | 3.74% | 3.06% | 3.07% | 3.07% | 3.07% | 3.07% | 3.07% | 3.07% | 3.07% | SHE-T business plan |
| CPI | | | | | | 1.99% | 2.00% | 2.00% | 2.00% | 2.00% | 2.00% | 2.00% | 2.00% | SHE-T business plan |
| RPI Index (2012/13 = 100) | 100 | 102.9 | 104.9 | 106.0 | 108.3 | 112.3 | 115.8 | 119.3 | 123.0 | 126.8 | 130.7 | 134.7 | 138.8 | 143.1 Calculation |
| RPI Index (2018/19 = 100) | 86.4 | 88.9 | 90.6 | 91.6 | 93.5 | 97.0 | 100.0 | 103.1 | 106.2 | 109.5 | 112.9 | 116.3 | 116.3 | 116.3 Calculation |
| Rolling average RPI (2018/19 = 100) | | 88.9 | 89.7 | 90.3 | 91.1 | 92.3 | 93.6 | 95.0 | 96.4 | | | | | |

Note: Connections and NAP tabs use historical T1 benefits data to project forwards to T2+

1. Sustainability

| (a) SHE-T VISTA spreadsheet | | |
|-----------------------------|------|-------|
| Benefit | Unit | Value |
| Undergrounding | km | 12.5 |
| No. of towers removed | no. | 59 |

Goal/Target Apply modern interactive technology to inform stakeholders of possible changes to landscape and visual amenity in new project proposals
Last updated 05.11.19

Calculation steps 1. Sum of total length (km) of undergrounding for each Vista project in T2

2. Sum of number of towers removed for each Vista project in T2.

(b) Nera WTP values

| Table 3: Recommended Domestic Electricity Willingness to Pay Values (£/consumer/year) | |
|---|---------|
| Attributes | |
| Risk of powercuts | WTP (£) |
| 2 hours decrease in the hours of powercuts at a 1.5% probability | 7.70 |
| 4 hours decrease in the hours of powercuts at a 1.5% probability | 9.70 |
| Evening day rate | 3.58 |
| Underground Overhead Transmission Lines | |
| 20 miles additional underground in National Parks etc. | 6.87 |
| 20 miles additional underground in other areas | 6.46 |
| Improving visual amenity of Overhead Transmission Lines | |
| Additional visual impact work in National Parks etc. | 4.14 |
| Additional visual impact work in National Parks and other areas | 4.81 |
| Additional transmission site environment improved | |
| 25 additional sites | 8.92 |
| 45 additional sites | 10.78 |
| Investment in generation projects | |
| Medium Scale Projects compared to Small Scale Projects | 2.38 |
| Large Scale Projects compared to Small Scale Projects | 3.11 |
| Supporting local communities | |
| Current level of community activities | 8.26 |
| Current level of community activities and additional funding to charities | 8.46 |
| Investing in EV Charging Infrastructure | |
| Invest before definite need | 9.55 |
| Investing in infrastructure to connect to renewable generation | |
| Invest before definite need | 11.78 |

Source: NERA Analysis

| Item | Metric | Source |
|------------------|---|------------------------------|
| (a) Vista | No. GB customers (m) | 27.4 SHE-T |
| | SP WTP 20 miles undergrounding National Parks (£/cons/yr) | 6.87 Nera |
| | SHE-T undergrounding T2 (km) | 12.5 SHE-T VISTA spreadsheet |
| | Conversion (km to miles) | 0.621 |
| | SHE-T undergrounding T2 (miles) | 7.77 Calc |
| | WTP factor | 0.388 Calc |
| | Upper bound (SP) WTP VISTA T2 (£m/yr) | 73.1 Calc |
| | SP upper bound adjustment | 50% |
| | Adjusted WTP VISTA T2 (£m/yr) | 36.6 Calc |
| | Undergrounding VISTA cost T2 (£m 5 yrs) | 182.8 Calc |
| | Adjusted WTP VISTA cost T2 (£m 5 yrs) | 70.0 SHE-T |
| (b) Biodiversity | SP WTP 25 additional sites improved (£/cons/yr) | 8.92 Nera |
| | SHE-T additional sites improved T2 (no.) | 24 SHE-T |
| | WTP factor | 0.960 Calc |
| | Upper bound (SP) WTP BIOD T2 (£m/yr) | 234.6 Calc |
| | SP upper bound adjustment | 50% |
| | Adjusted WTP BIOD T2 (£m/yr) | 117.3 Calc |
| | Improved sites BIOD cost T2 (£m 5 yrs) | 586.6 Calc |
| | | 3.38 SHE-T |
| | Total adj WTP (£m 5 yrs) | 769.3 Calc |
| | Total Cost (£m 5 yrs) | 73.4 Calc |

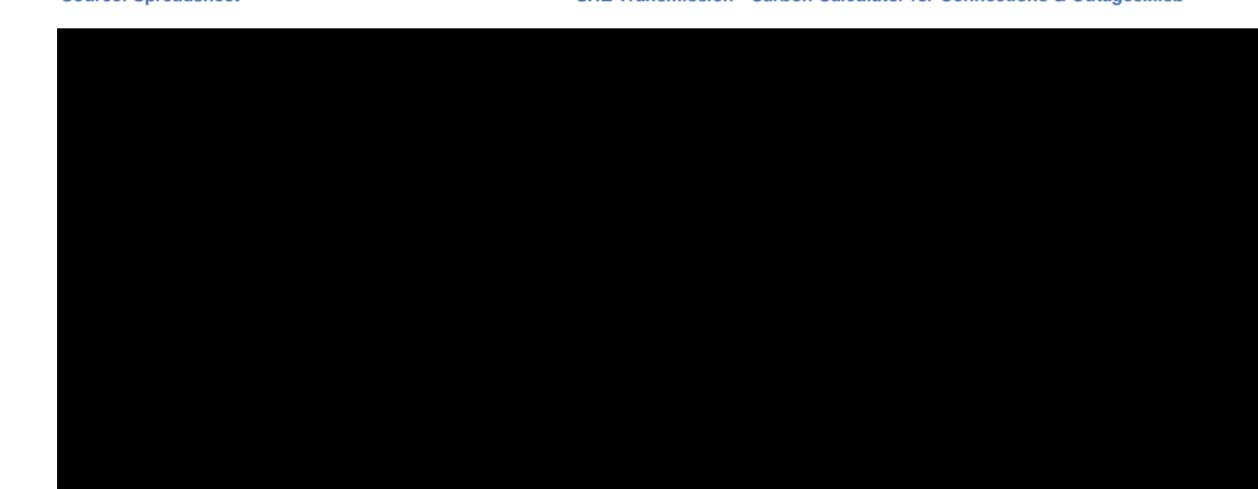
Notes:
Towers VISTA improvements not included.
All other sustainability impacts either modelled separately or qualitative.

2. Connections service

Source: Spreadsheet

SHE Transmission - Carbon Calculator for Connections & Outages.xlsb

21/11 version



| Item | Metric | Source |
|----------------------------------|--------------------------------|---|
| Method 1 - T1 analysis (6 years) | | |
| | Carbon saved T1 (tn 6 yrs) | 1,355,940 SHE-T (calc based on LHS table) |
| | Value Carbon saved (£m 6 yrs) | 88.54 SHE-T (calc based on LHS table) |
| | Value Carbon saved (£m/yr) | 14.76 Calc |
| | Delta costs T2 (£m/yr) | 0.23 SHE-T |
| | Delta costs T2 (£m 5 yrs) | 1.15 Calc |
| | Max QoS payments T2 (£m 5 yrs) | 11.75 SHE-T |
| | Max QoS payments T2 (£m/yr) | 2.35 Calc |

3. Network Access Policy

Source: ESO response to SHE-T email

Constraint payment savings T1 (Lauren Logan email 1/11/19). Sloy and Dounreay-Spitall cost saving potential T1 applied to T2.

£m saving potential (6 yrs T1) 6.67 Source: S_f Assume midpoint of savings
£m saving potential (pa T1) 1.11 Calc
Delta Cost T2 (£m pa) 0.076 Source: SHE-T
Delta Cost T2 (£m 5 yrs) 0.380 Calc

4. Local Area Energy Partnerships

Source: SHE-T 'Strategic Wider Works (SWW) Needs Case: Orkney', UPDATE ON FURTHER ANALYSIS, OCTOBER 2018

Note: Use annuity method here but TBC if raw CPX/OPX nos are available.

Table 3 Outcome of Customer Impact Assessment for 70 MW generation scenario (S70) with most conservative assumptions £m, NPV

| | | | Annuity equivalent (£m pa) | Blended | 3.74% Calc |
|------------------------------|------|--|----------------------------|---------|------------|
| Reduced wholesale price | 238 | Output from National Grid BID3 modelling | 11.55 Calc | | |
| Avoided carbon emissions | 72 | Assumes Orkney wind displaces gas-fired thermal, reducing from 100% to 10% displacement over time | 3.50 Calc | | |
| Cost of CfD subsidy | -58 | All Orkney wind has CfD; high strike price (above previous auction round); reference wholesale price | -2.82 Calc | | |
| Network costs – transmission | -293 | Capex and opex of Option 2 | -14.22 Calc | | |
| Network costs – distribution | 25 | Increased security of supply so no running of back up power station | 1.21 Calc | | |
| Local socio-economic impact | 46 | Gross Value Added impact of the energy infrastructure investments on the Orkney islands | 2.23 Calc | Check: | |
| | 30 | NET BENEFIT | 1.46 Calc | 1.46 | |

The industry standard for undertaking economic appraisal of investment options is cost benefit analysis (CBA) where: (i) costs are the forecast capital and operating expenditure, and (ii) benefits are avoided network constraints. All costs and benefits are assessed on Present Value (PV) for a 40 year modelling term using a post tax real Weighted Average Cost of Capital of 3.97% and Social Time Preference Rate of 3.5%.

5. Certain view and commitment

Source: Certain view and commitment document

£265.9m outperformance in T1 due to non-efficiency. Post-sharing (50%) => £132.9m retained over 8 years. Implies £16.6m pa.

Reduces the risk of costs falling into 3 buckets of "external factors", "circumstantial factors" and "potential errors in price control". Calculate % of outperformance Ofgem set in those buckets in T1 and roll forward in T2 on annualised basis.

132.90 8 years T1 Source: SHE-T (2018/19 prices)

16.61 pa T2 (before adjustments)

6. Volume driver

Source: SHET volume driver analysis spreadsheet

5 year number for T2. Cost savings = Delta between UCA in T1 vs UCA in T2 using SHE-T likely outturn view. And % of T1 projects that would have fallen into low atypically low UCA and if that was rolled forward into T2.

9.40 T2 total (5 years) Source: SHE-T (2018/19 prices)

1.88 pa T2 (before adjustments)

9.375

7. Local Suppliers

Source: SSE Benefits Calculations Spreadsheet

T2 local supplier savings based on

£2,629,800,000 T1 capex
O4B spend during
£14,600,000 T1 (£)
O4B spend as a
0.56% of T1 spend
£2,031,700,000 T2 capex
Local spend during T2 -
£11,279,497 forecast (£)

Source: SHE-T (2018/19 prices)

End

1. Sustainability (a) VIST

Sustainability Proposals within Sustainability Action Plan (being drafted). Build on our sector leading position in sustainability as demonstrated from our performance in the EDR in T1.

(1) CVP proposal (source: SHE-T)

| (1) CVP proposal (source: SHE-T) | | Outputs increment | | Quantification of | | Notes on costs, benefits |
|----------------------------------|---------------------------------|-------------------|--|-------------------|----------------------|---|
| Name | Description | Minimum criteria | Beyond minimum | Costs delta (£m)? | Benefits delta (£m?) | |
| a. Vista [Blank] [Blank] | SHE-T undergrounding T2 (miles) | No minimum | SHE-T undergrounding T2 (12.5 km, 7.8 miles) | | 70.0 | Benefits: 5 years T2. Assume SP WTP is an 182.8 upper bound |
| Offsetting payments | | | | | | |

(2) Quantification (input: data sources and assumptions)

1. Sustainability (b) Biodiversity

Sustainability Proposals within Sustainability Action Plan (being drafted). Build on our sector leading position in sustainability as demonstrated from our performance in the EDR in T1.

| (1) CVP proposal (source: SHE-T) | | Outputs increment | | Quantification of | | Notes on costs, benefits |
|---------------------------------------|--|-------------------|---|-------------------|----------------------|---|
| Name | Description | Minimum criteria | Beyond minimum | Costs delta (£m)? | Benefits delta (£m?) | |
| b. Biodiversity [Blank] [Blank] | SHE-T additional sites improved T2 (no.) | No minimum | SHE-T additional sites improved T2 (24) | | 3.4 | Benefits: 5 years T2. Assume SP WTP is an upper bound |
| Offsetting payments | | | | | 586.6 | |

(2) Quantification (input: data sources and assumptions)

1. Sustainability (c) - use of local suppliers

We undertake measures to ensure the best use of local suppliers. We use the % of contractors offered via our local open for business portal. 0.56% of our total capital expenditure. Costs are negligible.

(1) CVP proposal (source: SHE-1)

| Name | Description | Outputs increment | | Quantification of | | |
|--|---|-------------------|----------------|-------------------|----------------------|-------------------|
| | | Minimum criteria | Beyond minimum | Costs delta (£m)? | Benefits delta (£m?) | Notes on benefits |
| Local Suppliers through O4B [Blank] [Blank] Offsetting payments | No explicit minimum standard set out in Ofgem's business plan guidance. | O4B | N/A | £11.28 | | |

(2) Quantification (input: data sources and assumptions)

Accelerated connection through enhanced engagement with connections customers means direct and indirect customer benefits.

| (1) CVP proposal (source: SHE-T) | | Outputs increment | | Quantification of | | Notes on costs, benefits |
|---|--|---|---|-------------------|--|---|
| Name | Description | Minimum criteria | Beyond minimum | Costs delta (£m)? | Benefits delta (£m?) | |
| a. Direct impact on connected customers | SHE-T regards value greater than Quality of Connections Survey incentive | None. Penalty/reward based on Q of C Survey incentive | SHE-T regards true value as beyond 0.5% base revenue (assumed in Q of C Survey) | N/A | £m value on higher level of satisfaction (beyond Q of C incentive) | See QoS treatment, below. |
| b. Indirect impact on consumers generally <i>[Blank]</i> | Indirect impact of displaced carbon | | | 1.15 | 88.5 | £m value on displaced carbon in T1 (6 years). |
| Offsetting payments | QoS incentive will provide max rewards of 0.5% base revenue | | | N/A | 11.75 | £m max QoS payments in T2 (5 years). Treat as a negative benefit (to avoid double counting) |

(2) Quantification (input: data sources and assumptions)

| | Costs delta Description | Value T1 (£m) | Value T2 (£m pa) | Benefits delta Description | Output T1 (eg, t CO2) | Value T1 (£m) | T Y |
|---|----------------------------|---------------|------------------|------------------------------------|-----------------------|---------------|--------|
| a. Direct impact on connected customers | | | | | | | |
| b. Indirect impact on consumers generally <i>[Blank]</i> | £46k FTE * 5 | | 0.230 | Carbon saved over 6 years in T1 | 1,355,940 | 88.5 | |
| Offsetting payments | N/A | | | Max QoS payments 5 years T2 = £11m | | | |

(3) CVP analysis (output: appraisal)

NAP sets rules of engagement on planning outages. In T1 new way of working with ESO and customer => Year Ahead Plan

(1) CVP proposal (source: SHE-T)

| Name | Description | Outputs increment | Quantification of | | Notes on costs, benefits |
|---|--------------------------------|---|--|----------------|--|
| | | | Minimum criteria | Beyond minimum | |
| NAP savings constraint payments [Blank] [Blank] | ESO constraint payment savings | Collaborate with other TSOs and ESOs to develop common NAP and KPIs | Go beyond Year Ahead Plan when in consumers interests (above minimum KPIs) | 0.380 | Benefits: €m range of savings in T1 (6 yrs); 6.67 costs T2 5 yrs. |
| Offsetting payments | | | | | |

(2) Quantification (input: data sources and assumptions)

| | Costs delta Description |
|--|------------------------------------|
| NAP savings constraint payments | T2 cost del N/A |
| [Blank] | |
| [Blank] | |
| Offsetting payments | N/A |

(3) CVP analysis (output: appra

Support to Las in developing LAEPs and LHEEs to manage their own decarbonisation transition thru 1. Lower cost network solutions and 2. Connecting more local and community energy.

(1) CVP proposal (source: SHE-T)

| Name | Description | Outputs increment | | Quantification of | | |
|--|--|---|--|---|--|---|
| | | Minimum criteria | Beyond minimum | Costs delta (£m?) | Benefits delta (£m?) | Notes on benefits |
| a. Reduced energy costs | Reduced wholesale price, CID subsidy, distribution costs Avoided carbon emissions | There is no minimum standard. Baseline = work to date on the North of Scotland FES? | Going beyond by continuous development of the North of Scotland FES? | T1 NPV transmission OPX & CPX £293m + CFD £58m (40 yrs) | T1 NPV lower wholesale price (£238m) & distribution costs (£25m) | Orkney AA case study T1 => if build on this benefits from Orkney case transfer into T2. |
| b. Avoided carbon emissions | Local socioeconomic impact GVA Orkney | | | | T1 NPV £72m | |
| c. Local socioeconomic impact Offsetting payments | | | | | T1 NPV £46m | |

(2b) Quantification (input: data sources and assumptions)

6. Volume drive

Our RIIO-T2 Certain View includes £100 million of cost savings from targeted new technology and ways of working, and we aim to go further.

(1) CVP proposal (source: SHE-1)

| Name | Description | Outputs increment | | Quantification of | | |
|--|--|--------------------|---|-------------------|----------------------|---|
| | | Minimum criteria | Beyond minimum | Costs delta (£m?) | Benefits delta (£m?) | Notes on benefits |
| Volume driver [Blank] [Blank] Offsetting payments | a) T1 volume driver unit cost allowance was based on forward-looking actual T1 costs with embedded efficiencies to set T2 allowances gives greater cost confidence and tougher to outperform (info asymmetry point). b) T1 UCA will have protection for atypically low UCAs. | As per T1 approach | Risk has moved in favour of the consumer for this UM. We have to outperform a UCA with embedded efficiencies in T1 and protection from low UCA (and outperformance falling into "wrong" buckets") | N/A | 9.40 | SHE-T 5 year number for T2. Cost savings = Delta between UCA in T1 vs UCA in T2 using SHE-T likely outcome view. And % of T1 projects that would have fallen into low typically low UCA and if that was rolled forward into T2. |

SHE-T 5 year number for T2. Cost savings = Delta between UCA in T1 and UCA in T2 using SHE-T likely outcome. And % of T1 projects that would have fallen into low atypically low UCA and if that was rolled forward into T2.

(2) Quantification (input: data sources and assumptions)