



**LANCASTER  
CITY COUNCIL**

*Promoting City, Coast & Countryside*

**INDIVIDUAL CABINET MEMBER AND OFFICER DELEGATED DECISIONS**

**MONDAY, 18 DECEMBER 2023**

Please find enclosed Decision Notice in connection with the following:

**ICMD18 FURTHER PROCUREMENT OF LITTER BIN SENSORS WITH CURRENT PROVIDER (Pages 2 - 7)**

Please note that call-in has been waived on this item.

**Queries regarding these documents**

Please contact Liz Bateson, Democratic Support - email [ebateson@lancaster.gov.uk](mailto:ebateson@lancaster.gov.uk).

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Published on MONDAY, 18 DECEMBER 2023



*Promoting City, Coast & Countryside*

**EXECUTIVE DECISIONS TAKEN BY CABINET PORTFOLIO HOLDER OR DELEGATED OFFICER  
NOTICE OF DECISION**

|   |   |
|---|---|
| <b>TITLE OF DECISION:</b>   |   |
| <b>FURTHER PROCUREMENT OF LITTER BIN SENSORS WITH CURRENT PROVIDER</b>  |   |
| <b>NAME OF DECISION TAKER:</b>  | <b>JOANNE AINSCOUGH</b>   |
| <b>POSITION AND RESPONSIBILITY HELD:</b>  | <b>CABINET MEMBER WITH PARTICULAR RESPONSIBILITY FOR ENVIRONMENTAL SERVICES</b> |
| <b>CONTACT OFFICER:</b>   | <b>CARLY SPARKS</b>   |
| <b>TELEPHONE:</b>   | <b>07825 676480</b>   |
| <b>E-MAIL:</b>  | <b>csparks@lancaster.gov.uk</b>   |
| <b>Details of Decision:</b>   |   |
| <p>The current provision of bin sensor technology currently provided by REEN is extended to allow for the deployment of bin sensors to all litter bins with the District. We would like to procure a further 1000 sensors to allow for greater efficiencies to be achieved following the deployment and trial of 189 sensors.</p>   |   |
| <b>Reasons for the decision:</b>  |   |
| <p>There are currently 189 bin sensors installed within litter bins to assist the seven day Cleansing operations with improved efficiencies and innovation relating to the collection of litter from bins. The bin sensors provide real-time data relating specifically to fill levels, and notify the team of the requirement for collection, reducing unnecessary journeys and providing better resource management.</p> <p>We would propose that consideration is taken to extend the current offering to allow further optimisation of the service in terms of;</p> <ul style="list-style-type: none"> <li>- Fleet</li> <li>- Routes</li> <li>- Collection Schedules</li> <li>- Resource Management</li> <li>- Service Innovation</li> </ul> <p>The sensors and associated 'Hub' system are utilised via in-cab technology currently and allow increased functionality within the Cleansing team, whilst also modernising the resource management element of street cleansing, offering improved allocation of work and assisting in providing Lancaster City Council with accurate, timely data. Ultimately delivering an improved data led approach to cleansing operations, and in turn, improving resident satisfaction levels.</p> <p>Additional functionality of the system also alerts the team to issues with receptacles, provides clear data on fuel consumption, but also CO2 emissions.</p> |   |
| <b>IS THE DECISION URGENT</b>   |   |
| <b>YES</b>  |   |
| <p><b>DUE TO A TIME-LIMITED PRICING OFFER FROM REEN (CURRENT SENSOR SUPPLIER), WE ARE REQUIRED TO CONFIRM PROCUREMENT WITHIN THE FAVOURABLE PRICING OPTION THAT HAS BEEN PROVIDED TO LANCASTER CITY COUNCIL. THE PRICING OFFER IS CRITICAL AND NO FURTHER OFFER WILL BE MADE ALLOWING OPERATIONAL SAVINGS TO BE FOUND ELSEWHERE. THE FUNCTIONALITY OF THE SENSORS AND RELATED HUB SYSTEM ALREADY EMPLOYED WITHIN THE SERVICE IS NOT AVAILABLE THROUGH ANY SIMILAR SENSOR PROVIDERS CURRENTLY IN THE MARKET.</b></p>   |   |

# LANCASTER CITY COUNCIL

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I can confirm that this decision is urgent as any delay likely to be caused by the Call-in process would seriously prejudice the Council's or the public's interests and therefore is not subject to Call-in. The Chair of the Overview and Scrutiny Committee has been consulted. I hereby agree both that the decision proposed is reasonable, in all the circumstances, and to it being treated as a matter of urgency.



Chief Executive

I confirm that I have taken account of the options proposed by officers, the various implications set out in the report and the comments of the Monitoring and Section 151 Officers and am authorising the decision as set out above.

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>SIGNATURE OF DECISION TAKER:</b> | Cllr Joanne Ainscough |
| <b>DATE:</b>                        | 15.12.23              |

*THIS SECTION TO BE COMPLETED BY DEMOCRATIC SERVICES*

**REF NO.**

ICMD18

|                                 |          |  |
|---------------------------------|----------|--|
| <b>DATE DECISION TAKEN:</b>     | 15.12.23 | <b>IMPLEMENTATION DATE ( immediate – call-in waived)</b> |
| <b>DATE DECISION PUBLISHED:</b> | 18/12/23 |  |

## Bin Sensor Technology – Additional Procurement

### Report Of Public Realm Improvement Lead

| PURPOSE OF REPORT  |                               |                  |  |                              |
|--|-------------------------------|------------------|--|------------------------------|
| To obtain authorisation to pursue further procurement of additional bin sensor technology to assist with efficiencies and innovation with the Cleansing Service. |                               |                  |  |                              |
| Key Decision   | X                             | Non-Key Decision |  | Referral from Cabinet Member |
| Date of notice of forthcoming key decision   | 8 <sup>TH</sup> December 2023 |                  |  |                              |
| This report is public  |                               |                  |  |                              |

#### OFFICER RECOMMENDATION

That the proposal to acquire further bin sensor units in addition to those currently deployed, enabling full coverage and optimisation of litter bin collections carried out via the Cleansing service.

#### 1.0 Introduction

- 1.1 The Council currently utilises the provision of 189 litter bin sensor units, allowing Lancaster City Council the ability to effectively manage waste fill-levels and ensure that litter is collected when required and appropriate.
- 1.2 A trial of the current 189 sensors has taken place within the Heysham litter bin collection round, and this has enabled effective data capture to be undertaken.
- 1.3 Following the installation, the Heysham Cleansing round has seen a noticeable improvement in time employed in the task of litter bin collections, allowing for deployment of staff to assist with other key cleansing tasks.
- 1.4 The technology has proven to be an effective and reliable system in streamlining collection operations, and therefore providing not only operational, but also economic and environmental benefits.

#### 2.0 Proposal Details

- 2.1 The primary proposal is to implement REEN sensor technology across Lancaster City Council's Street Cleansing operations, in line with key service objectives of digital transformation and innovation.
- 2.2 The system promotes the modernisation of resource management by enabling more effective collections based on data analytics.
- 2.3 The proposal is to purchase via lease arrangements, an additional 1,000 bin sensors required to enable every litter bin within the district.

**3.0 Details of Consultation**

3.1 There are no statutory consultation consideration required to be undertaken in respect of this procurement process.

**4.0 Options and Options Analysis (including risk assessment)**

|               | <b>Option 1:<br/><u>Leasing Model</u><br/>£8 per sensor (incl Hub platform &amp; Advanced Routing),<br/>Min.36mth Contract.<br/>£114,144 annual fee</b> | <b>Option 2:<br/><u>Purchase &amp; Subscription Model</u><br/>£130 per sensor purchase fee, + £6 per sensor for Hub platform &amp; Advanced Routing,<br/>Min.36mth Contract.<br/>£130,000 purchase cost,<br/>£85,608 annual fee</b> | <b>Option 3:<br/><u>Leasing Model</u><br/>£7 per sensor incl Hub platform &amp; Advanced Routing, Min 60 mth contract<br/>£99,876 annual fee<br/><b>(£14,268 saving)</b></b>   | <b>Option 4:<br/><u>Purchase &amp; Subscription Model</u><br/>£112 per sensor purchase,<br/>£4.50 per sensor / mth subscription fee for Hub platform &amp; Advanced Routing,<br/>Minimum 60mth contract,<br/><b>£112,000 purchase cost<br/>(£18,000 saving<br/>£64,206 annual fee (£21,402 saving)</b></b> |
|---------------|---|---|--|--|
| Advantages    |   |   | Longer period and smaller initial outlay.<br>(The figure quoted is also in line with the relevant Procurement Supplier Framework)  |  |
| Disadvantages | Overall annual fee is above available funds   | Purchase & additional Subscription fees are excessive   | None – this is the ‘best fit’ in conjunction with operational savings that can be achieved   | Outlay figure is in excess of the available budget limit available   |
| Risks         |   |   | The only risk associated with this is in regards to the expiration of the pricing offer available to Lancaster City Council (due to expire 15.12.2023)<br>-----<br>This is in line with the pricing as set out in Liverpool City Council Procurement Supplier Framework (REEN is an identified supplier) |  |

**5.0 Officer Preferred Option (and comments)**

5.1 The officer recommendation is to procure the additional sensors via Option 3 as set out in the Proposal document provided by REEN.

**6.0 Conclusion**

- 6.1 The benefits of the procurement and installation of the additional 1,000 bin sensors throughout the district outweighs and negatives. The current 189 sensors in situ have already established they can assist in the development of innovative practice and increased productivity.
- 6.2 The additional sensors will enable a full and effective service to launch and continue to improvements surrounding collection routing.
- 6.3 Less unnecessary travel throughout the district will assist not only in improving the deployment of Cleansing teams to other, priority work required within the service, but also assist with the delivery of Lancaster City Council Climate Emergency goals, such as reducing fleet fuel consumption, but also reduce CO2 emissions.
- 6.4 An increase provision of sensors also aids the delivery of key Corporate Priorities, such as;
  - Sustainable District
  - Healthy & Happy Communities
  - Cooperative, Kind & Responsible Council

|   |
|---|
| <p><b>RELATIONSHIP TO POLICY FRAMEWORK</b></p> <p>Under the Liverpool City Council / APSE URS Framework (contract reference DN467196) REEN Services can be directly awarded. We are satisfied that the criteria within the framework is met.= in respect of this procurement process.</p>   |
| <p><b>CONCLUSION OF IMPACT ASSESSMENT</b><br/><b>(including Health &amp; Safety, Equality &amp; Diversity, Human Rights, Community Safety, HR, Sustainability and Rural Proofing)</b></p> <p>N/a</p>  |
| <p><b>LEGAL IMPLICATIONS</b></p> <p>There are no legal implications directly arising from this report.</p>  |
| <p><b>FINANCIAL IMPLICATIONS</b></p> <p>The budgetary requirements pertaining to the procurement of additional REEN sensors have been met operationally through adjustments made utilising vacant established positions and fleet management changes. They changes are cost neutral and have been included in the draft budget prepared as part of the current 2024/25 revenue budget process.</p> <p>The ongoing performance of the sensors will be strictly monitored within service and will be reported as appropriate.</p> |
| <p><b>OTHER RESOURCE IMPLICATIONS</b></p> <p><b>Human Resources:</b><br/>None directly arising from this report.</p> <p><b>Information Services:</b><br/>None directly arising from this report.</p> <p><b>Property:</b></p>  |

None directly arising from this report.

**Open Spaces:**

With the provision of the proposed additional bin sensors, this will assist in the continued work to improve the local environment and improve public open space within the District.

**SECTION 151 OFFICER'S COMMENTS**

The s151 Officer has been consulted and has no additional comments to make.

**MONITORING OFFICER'S COMMENTS**

The Monitoring Officer has been consulted and has no additional comments to make.

**BACKGROUND PAPERS**

Cabinet Member Notice of Decision

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**Ref:**