

NOTICE
OF
MEETING



SUSTAINABILITY PANEL

will meet on

MONDAY, 3RD OCTOBER, 2016

At 7.00 pm

in the

COUNCIL CHAMBER - TOWN HALL, MAIDENHEAD

TO: MEMBERS OF THE SUSTAINABILITY PANEL

COUNCILLORS MARION MILLS (CHAIRMAN), DAVID COPPINGER (VICE-CHAIRMAN),
DEREK SHARP, NICOLA PRYER, LYNDA YONG AND SIMON WERNER

SUBSTITUTE MEMBERS

COUNCILLORS MICHAEL AIREY, GERRY CLARK, PHILIP LOVE, JACK RANKIN,
EDWARD WILSON, MALCOLM BEER OR LYNNE JONES

Karen Shepherd - Democratic Services Manager - Issued: Thursday 22 September 2016

Members of the Press and Public are welcome to attend Part I of this meeting. The agenda is available on the Council's web site at www.rbwm.gov.uk or contact the Panel Administrator **Tanya Leftwich** 01628 796345

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AGENDA

PART I

| <u>ITEM</u> | <u>SUBJECT</u> | <u>PAGE NO</u> |
|-------------|--|--------------------|
| 1. | <u>APOLOGIES FOR ABSENCE</u> To receive any apologies for absence. | - |
| 2. | <u>DECLARATIONS OF INTEREST</u> To receive declarations of interests from Members of the Panel in respect of any item to be considered at the meeting. | 5 - 6 |
| 3. | <u>MINUTES</u> To note the Part I minutes of the meeting of the Panel held on Tuesday 12 July 2016. | 7 - 12 |
| 4. | <u>OPEN FORUM</u> Opening remarks by the Chairman on the Panel's role. | - |
| 5. | <u>PROPELAIR WATER SAVING TOILETS</u> By Nigel Conder (Propelair). | - |
| 6. | <u>UPDATE FROM THE WASTE TEAM</u> By a member of the Waste Team. | - |
| 7. | <u>UPDATE FROM THE ENERGY REDUCTION MANAGER</u> By the Energy Reduction Manager (Michael Potter), RBWM. | 13 - 24 |
| 8. | <u>DATE OF FUTURE MEETINGS</u> The dates of future meetings are as follows (7.00pm start): <ul style="list-style-type: none">• Tuesday 29 November 2016• Thursday 19 January 2017• Monday 6 March 2017• Tuesday 9 May 2017 | - |

PRIVATE MEETING

| <u>ITEM</u> | <u>SUBJECT</u> | <u>PAGE NO</u> |
|-------------|---|--------------------|
| 9. | <u>UPDATE FROM THE ENERGY REDUCTION MANAGER</u> Appendices 2&3. <i>(Not for publication by virtue of Paragraph 3 of Part 1 of Schedule 12A of the Local Government Act 1972)</i> | 25 - 56 |

MEMBERS' GUIDANCE NOTE

DECLARING INTERESTS IN MEETINGS

DISCLOSABLE PECUNIARY INTERESTS (DPIs)

DPIs include:

- Any employment, office, trade, profession or vocation carried on for profit or gain.
- Any payment or provision of any other financial benefit made in respect of any expenses occurred in carrying out member duties or election expenses.
- Any contract under which goods and services are to be provided/works to be executed which has not been fully discharged.
- Any beneficial interest in land within the area of the relevant authority.
- Any license to occupy land in the area of the relevant authority for a month or longer.
- Any tenancy where the landlord is the relevant authority, and the tenant is a body in which the relevant person has a beneficial interest.
- Any beneficial interest in securities of a body where
 - a) that body has a piece of business or land in the area of the relevant authority, and
 - b) either (i) the total nominal value of the securities exceeds £25,000 or one hundredth of the total issued share capital of that body **or** (ii) the total nominal value of the shares of any one class belonging to the relevant person exceeds one hundredth of the total issued share capital of that class.

PREJUDICIAL INTERESTS

This is an interest which a reasonable fair minded and informed member of the public would reasonably believe is so significant that it harms or impairs your ability to judge the public interest. That is, your decision making is influenced by your interest that you are not able to impartially consider only relevant issues.

DECLARING INTERESTS

If you have not disclosed your interest in the register, you **must make** the declaration of interest at the beginning of the meeting, or as soon as you are aware that you have a DPI or Prejudicial Interest. If you have already disclosed the interest in your Register of Interests you are still required to disclose this in the meeting if it relates to the matter being discussed. A member with a DPI or Prejudicial Interest **may make representations at the start of the item but must not take part in discussion or vote at a meeting.** The term 'discussion' has been taken to mean a discussion by the members of the committee or other body determining the issue. You should notify Democratic Services before the meeting of your intention to speak. In order to avoid any accusations of taking part in the discussion or vote, you must move to the public area, having made your representations.

If you have any queries then you should obtain advice from the Legal or Democratic Services Officer before participating in the meeting.

If the interest declared has not been entered on to your Register of Interests, you must notify the Monitoring Officer in writing within the next 28 days following the meeting.

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Agenda Item 3

SUSTAINABILITY PANEL

TUESDAY, 12 JULY 2016

PRESENT: Councillors Marion Mills (Chairman), David Coppinger (Vice-Chairman), Nicola Pryer, Derek Sharp and Lynda Yong

Also in attendance: Mark Camp-Overy (on behalf of Legacy Leisure), Martin Fry (MRF&A / City University), Paul Mangle (Parkwood Leisure), Adam Parvez (iChoosr) and Nicky Rockmoor (Windsor Leisure Centre).

Officers: Tanya Leftwich, Michael Potter, Tony Robinson and David Scott.

APOLOGIES FOR ABSENCE

None received.

DECLARATIONS OF INTEREST

None received.

The Chairman informed everyone present that the meeting was being recorded and that the audio would be made available on the RBWM website.

MINUTES

The Part I minutes of the meeting held on Monday 16 May 2016 were agreed as a correct record.

The Head of Governance, Partnerships, Performance & Policy, David Scott, informed the Panel that the LED Streetlighting timetable had changed and that it was likely that it would go before Cabinet in July instead of June as previously scheduled.

OPEN FORUM

Nothing raised.

The Chairman thanked the former Chairman, Councillor Sharp, for all his hard work and stated that she looked forward to working with him on the Panel. The Chairman also thanked the Vice-Chair for continuing in his role.

The Chairman asked the Panel to go away after the meeting and think about what sustainability meant to them and for some future item suggestions.

LEISURE CENTRE ENERGY SAVING PLAN

The Chairman welcomed Mark Camp-Overy (on behalf of Legacy Leisure), Nicky Rockmoor (Windsor Leisure Centre) and Paul Mangle (Parkwood Leisure) to the meeting and invited Mark to address the Panel. Members were given a brief presentation on "What is Legacy Leisure currently doing to reduce energy consumption in the leisure centres and what are the future plans and targets?".

The presentation covered the following:

- Target is for the Royal Borough's leisure centres to achieve ISO:14001
- January 2015 – June 2016 (systems and processes & operations)
- Responsibility for ISO 14001
- Consumption Data 2015 to 2016
- July 2016 – December 2016 (systems and processes & operations)
- Targets

In the ensuing discussion the following points were noted:

- That internal audits took place in leisure centres every six months.
- That there were nominated champions in leisure centres who did monthly audits to ensure staff were hitting targets (e.g. turning lights off, etc).
- The target with regard to the ISO:14001 accreditation was a 5% reduction on annual utility consumption.
- That liquid pool covers were one of the options that could be used as part of the pool management programme. It was believed that whilst permission would not be necessary to proceed with such an option Legacy Leisure would usually discuss options first with their clients.
- That a lot of lighting had been replaced in leisure centres under the RE:FIT contract and that those savings should still be taking place.
- The combined heating power plant at the Magnet had reduced to 120 kilowatts (two units) that each took 5 kilowatts to run. It was noted that the output would need to be clarified after the meeting as to what was being sold back.
- The Furze Platt Leisure Centre was on a similar system to Cox Green and Charters (on a formulae based on the size of the building). It was noted that the all weather pitch at Furze Platt was metered separately.
- It was noted that Charters had recently installed smart meters.

The Chairman thanked Mark Camp-Overy, Nicky Rockmoor and Paul Mangle for attending the meeting and presenting to the Panel.

ENERGY SWITCHING CAMPAIGN

The Chairman welcomed Adam Parvez from Ichoosr to the meeting and invited him to address the Panel. Members were given a brief presentation on 'Collective Switching' which covered the following:

- Who are we?
- What do we do?
- Who do we work with?
- Why do we do it?
- Why don't people switch?
- Collective switching in the UK
- The iChoosr Model
- Registration – Online
- Registration – Offline
- Feb 2016 Auction

In the ensuing discussion the following points were noted:

- That it would be a Borough wide advertisement and that it would be down to the Communications Team to decide how best to advertise the scheme.
- That registrations could be accepted via an online or an offline route. Once the resident had accepted the offer provided by the winning supplier a welcome pack from the new supplier was issued. There was a fourteen day cooling off period following the offer acceptance.
- That iChoosr made their money through a small referral fee from each person that switched and that they would share this fee with the Council

- That contracts ran for a minimum of twelve months. It was noted that the pre-payment tariff did not tend to be fixed rate.
- That three auctions were held a year and that between 60-70% of those attending actions had not switched in three years.
- That DECC stood for Department of Energy and Climate Change.
- That it was possible to track on the portal how many registrations had taken place.
- That the demographics of the Borough were last looked at in 2013 which had seen that those that had registered tended to be between 40-60 years of age and tended to be middle band workers.
- The success of the scheme was felt to depend on how and where the scheme was advertised / promoted.

The Chairman thanked Adam Parvez for his informative presentation.

SOLAR BINS AND BIN MONITORING TECHNOLOGIES

The Senior Streetcare Officer, Tony Robinson, informed the Panel that Veolia, the current contractor, emptied approximately 550 bins in the Royal Borough which equated to approximately 0.5million collections per annum. It was noted that the current contract totalled £75,000 excluding petrol and staff costs. The Panel was informed that in total the current Veolia street cleansing contract was worth £1.7million.

The Senior Streetcare Officer went onto explain that the Panel had three options available to them which were:

- To remain with the current service.
- To introduce Big Belly bins.
- To introduce sensor system bins.

The Panel was informed that the Big Belly bins cost approximately £800 per bin so were considered to be very expensive. It was noted that there were 130+ bins that were emptied multiple times per day in the Royal Borough and that due to the costs involved the Senior Streetcare Officer did not believe this to be a viable option.

The Panel noted that an alternative could be sensor system bins which would inform the Council via some sensor software when bins were full. The Senior Streetcare Officer informed the Panel that a three month trial of the sensor system bins and the sensor software would cost approximately £1200. It was explained that only after the trial had taken place would it be known whether the bins were viable. It was noted that sensor system bins would not be used for dog waste and might not work in open top bins.

The Chairman stated that as the cost factors did not sound like the Big Belly bins would be viable she believed the sensor system bins were probably worth a trial.

RESOLVED UNANIMOUSLY That a more complete business case (to include another supplier) be brought back before the Panel in October in a report format for approval. It was requested that the business case showed the benefits available, numbers and who could offer a trial.

UPDATE FROM THE ENERGY REDUCTION MANAGER

The Energy Reduction Manager, Michael Potter, referred Members to pages 13-24 of the agenda and explained that the report provided an update and gave the Panel an overview of the progress being made to deliver the Panel's energy reduction strategy.

The key areas covered were noted as follows:

- LED lighting project – phase 2
- Energy Switching Campaign

- MITIE Energy Performance Contract
- Town Hall Building Management System (BMS) replacement
- Schools Sustainability Education
- Water Reduction Works
- Work planned over the next period until the next Sustainability Panel

It was noted that the Council was currently working towards a four year Sustainability Strategy running from April 2014 to March 2018 and that the strategy focused on six work streams including: Sustainability, Energy, Water, Waste, Transport and Renewable Generation. Members were informed that the strategy had three key targets over the four year period which were:

1. Reduce energy in the Council building estate by 15% in 2017/18 compared to a 2013/2014 baseline.
2. Reduce water usage in the Council's corporate office buildings by 3% in 2017/18 compared to a 2013/2014 baseline.
3. Recycling rates increased to 55% in 2017/18.
Each year an action plan is drawn up to enable the Council to meet these targets as well as other goals presented in the strategy documents. This update provides a progress report for the energy work stream.

In the ensuing discussion, the following points were noted:

- Members were referred to para 17.7 and were informed that the next step was to agree the scheme name. It was agreed that the scheme name should be either 'RBWM Switch to Save' or 'RBWM Energy Switch to Save' and that the Panel were happy for the Communications and Marketing Manager, Louisa Dean, to make the final decision between the two preferred scheme names.
- That the Panel would be informed via email before the October meeting of the full proposal which might include alterations at Stafferton Way Car Park as well as the potential Town Hall Building Management System (BMS) upgrade.
- That it was being considered whether the Council could host a schools sustainability event in the future. It was noted that further investigations were required before any commitment to the event could be made. Councillor Sharp requested that a schools energy saving competition was set up for the autumn term. It was suggested that the Energy Reduction Manager spoke to the Head of Schools and Educational Services, Kevin McDaniel, regarding the schools element and the Community & Business Partnerships Manager, Harjit Hunjan, regarding the incentives element. It was agreed that a proposal would be brought before the Panel at the October meeting.
- The Panel was referred to Appendix 1 on pages 23 & 24 of the agenda which was a list of corporate sites that indicated previous lighting works and possible future lighting works.
- It was requested that the schools energy saving competition be added to the work planned over the next period in paragraph 17.24.
- Councillor Sharp suggested asking the Maidenhead Advertiser / Bayliss Trust for their support / help in advertising the information for the energy switching campaign.

That work planned over the next period included:

- Progressing the energy switching campaign.
- Investigating phase 2 LED upgrade projects.
- Investigating water reduction projects.
- Organising a schools energy saving competition.

UNANIMOUSLY AGREED; The Panel noted:

- ❖ **The progress made and commented on the proposed work plan over the next period as detailed in paragraph 17.24.**

- ❖ **The name of the energy switching scheme to be delegated to the Communications and Marketing Manager, Louisa Dean, in order for a decision to be made between the two preferred scheme names 'RBWM Switch to Save' or 'RBWM Energy Switch to Save'.**

DATE OF FUTURE MEETINGS

Future meeting dates were noted to be as follows:

- Monday 3 October 2016
- Tuesday 29 November 2016
- Thursday 19 January 2017
- Monday 6 March 2017
- Tuesday 9 May 2017

The Chairman suggested that the meeting start time be brought forward to 19:00 from the next meeting in October to see if it was agreeable with the Panel going forward.

A.O.B.

The Energy Reduction Manager informed everyone present that the homeowners advice service was no longer up and running as the post had been deleted and would not be re-instated.

Councillor Sharp reminded the Panel that at the last meeting, which the Waste Strategy Manager had attended, it had been requested that an update on the food waste scheme be provided for each meeting. It was requested that the Energy Reduction Manager make contact with the Waste Strategy Manager and ask that the figures be provided so that they could be emailed to the Panel and also that the Waste Strategy Manager attends the next Sustainability Panel.

The meeting, which began at 7.30pm, finished at 9.05 pm

CHAIRMAN.....

DATE.....

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Report for: ACTION



| | |
|--|---|
| Contains Confidential or Exempt Information | PART 1 – Main report PART 2 – Appendix 2 & 3 (category 3) |
| Title | Energy Reduction Manager Update |
| Responsible Officer(s) | Craig Miller, Head of Community Protection & Enforcement Services |
| Contact officer, job title and phone number | Michael Potter, Energy Reduction Manager Tel: 01628 68 2949 |
| Member reporting | Cllr Coppinger, Lead Member for Sustainability |
| For Consideration By | Sustainability Panel |
| Date to be Considered | 3rd October 2016 |
| Implementation Date if Not Called In | Immediately |
| Affected Wards | All |

REPORT SUMMARY

1. This report provides an overview of the progress being made to deliver the Council's energy reduction strategy.
2. This update report recommends that Members note progress on the Council's energy reduction performance 2016/17, RBWM Energy Switch to Save, Schools energy saving competition, Town Hall BMS project, Maidenhead District Energy Network report and comment on the proposed work plan until the next Sustainability Panel. It also recommends a trial of low flush toilets in the Town Hall.
3. Recommendations are being made because it is important that Members provide comment and direction on the work being carried out and that the sustainability strategy targets are met.

If recommendations are adopted, how will residents benefit?

| Benefits to residents and reasons why they will benefit | Dates by which residents can expect to notice a difference |
|---|--|
| 1. By reducing utility and waste costs, the Borough is providing better value for money to its residents. | March 2017 |

1. DETAILS OF RECOMMENDATIONS

RECOMMENDATION: the panel are asked to note the progress made and comment on the proposed work plan over the next period as detailed in paragraph 17.24.

RECOMMENDATION: the panel are asked to approve a trial of low flush toilets in the public toilets of the Town Hall subject to procurement rules and final pre-installation checks at a cost of up to £15k using the CY03 capital code.

2. REASON FOR RECOMMENDATION(S) AND OPTIONS CONSIDERED

2.1 The Council is currently working towards a four year Sustainability Strategy running from April 2014 to March 2018. The strategy focuses on 6 workstreams including: Sustainability, Energy, Water, Waste, Transport and Renewable Generation. The strategy has three key targets over the four year period which are:

1. Reduce energy use in the Council building estate by 15% in 2017/18 compared to a 2013/2014 baseline.
2. Reduce water usage in the Council's corporate office buildings by 3% in 2017/18 compared to a 2013/2014 baseline.
3. Recycling rates increased to 55% in 2017/18.

Each year an action plan is drawn up to enable the Council to meet these targets as well as other goals presented in the strategy documents. This update provides a progress report for the energy workstream.

After the first two years of the strategy the 2013/2014 energy baseline has been reduced by 12.5%. This equates to the Council avoiding just under £130,000 of energy costs over these two years.

| Option | Comments |
|---|---|
| (a) The Council does not work towards the sustainability strategy. This is not recommended | (a) Failing to work towards the sustainability strategy would mean the Council would not be able to meet its legislative commitments, would not be able to continually drive down energy costs and therefore would not be offering value for money for its residents. |
| (b) The Council works according to the current and any future sustainability strategy. This is the recommended option | (b) The Council will be able to meet all its legal requirements whilst improving the local environment and providing value for money for its residents. |
| (c) Members of the panel are | 14(c) This work will enable the Council |

| Option | Comments |
|---|--|
| asked to approve a trial of low flush toilets in the Town Hall public toilets. This is the recommended option | to meet some of its water reduction target and will help to instruct possible future projects. |

3. KEY IMPLICATIONS

| Defined Outcomes | Unmet | Met | Exceeded | Significantly Exceeded | Date they should be delivered by |
|---|-------|--------|----------|------------------------|----------------------------------|
| Overall reduction of annual gas and electricity consumption in Council buildings in 2016/17 compared to the 2013/14 baseline. | <11% | 11-12% | 12.1-13% | >13% | 31 st March 2017 |

4. FINANCIAL DETAILS

Financial impact on the budget

- 4.1 A trial of a low flush toilet system would cost up to £15k and use capital funding from the capital code CY03.

5. LEGAL IMPLICATIONS

- 5.1 Should the panel choose to approve the recommendation of a trial of low flush toilets then the supplier will be procured according to contract rules.

6. VALUE FOR MONEY

- 6.1 The work to reduce the Council's energy and water usage will provide residents with better value for money if the Council continues to reduce energy and water usage as projected.

7. SUSTAINABILITY IMPACT APPRAISAL

- 7.1 All the work referred to in this update relate to improving the sustainability of the Council.

8. RISK MANAGEMENT

| Risks | Uncontrolled Risk | Controls | Controlled Risk |
|---|-------------------|--|-----------------|
| Targets for overall energy and water reduction are not met. | High | By providing updates at each panel meeting, Members are able to keep track of overall progress to ensure the Council meets its annual projected reductions and savings commitments. | Low |
| Increasing energy and water costs for the council puts additional pressures on budgets. | High | By providing updates at Panel meetings on progress to reduce energy and water usage and progress on securing the best available energy contracts, Members will be able to assess the work that is taking place to ensure that cost increases are minimised as far as possible. | Low |

9. LINKS TO STRATEGIC OBJECTIVES

9.1 The Energy Manager's Update meets the following strategic priorities of the Council:

Residents First

- Improve the Environment, Economy and Transport
- Work for safer and stronger communities

Value for Money

- Deliver Economic Services
- Improve the use of technology
- Invest in the future

Delivering Together

- Enhanced Customer Services
- Deliver Effective Services
- Strengthen Partnerships

Equipping Ourselves for the Future

- Equipping Our Workforce
- Developing Our systems and Structures
- Changing Our Culture

10. EQUALITIES, HUMAN RIGHTS AND COMMUNITY COHESION

- 10.1 There are no direct equalities, human rights or community cohesion implications arising from this report.

11. STAFFING/WORKFORCE AND ACCOMMODATION IMPLICATIONS

- 11.1 There are no direct staffing/accommodation implications arising from this report.

12. PROPERTY AND ASSETS

- 12.1 This update contains content relating to the improvement of the Council's buildings and the information collated about them.

13. ANY OTHER IMPLICATIONS

- 13.1 There are no other implications.

14. CONSULTATION

- 14.1 No formal consultation has been carried out.

15. TIMETABLE FOR IMPLEMENTATION

| Date | Details |
|-------------|------------------------------------|
| 31/03/2017 | Completion of current annual plan. |

16. APPENDICES

- 16.1 Appendix 1 – Comparison of energy consumption (kWh) in 2016/17 to the 2013/14 baseline year.

Appendix 2 – Maidenhead district energy network initial assessment.

Appendix 3 - Financial case for Propelair low flush toilets.

17. BACKGROUND INFORMATION

Energy reduction performance 2016/17

- 17.1 The energy reduction for the Council's corporate buildings was a 23% reduction overall between April-July compared to the corporate building baseline. The monthly figures can be found in appendix 1. This reduction has seen an avoided cost for the Council of £62,000 so far this year. Overall since the beginning of the current strategy in April 2014 the Council has avoided energy costs of £191,000.

RBWM Energy Switch to Save

- 17.2 The Council is implementing its manifesto commitment to implement an energy switching campaign in the borough. The energy switching campaign seeks to reduce the energy bills of the borough's residents. It helps residents to reduce money on their bills by pooling all residents together in a reverse auction. The energy suppliers actively bid in the auction for the business of the registered borough's residents. The lowest price achieved in the auction is then offered to the residents taking part.
- 17.3 The Council's Energy Switch to Save scheme has been live on the Council's website since 12th September. Since that date the Council has communicated the scheme to residents online using the Council's website, emails, facebook and twitter. Information about the scheme has also gone out in various newsletters and the local press.

Schools energy saving competition

- 17.4 The schools energy saving competition has now been drawn up for delivery. The competition will ask schools to compete to save energy over a 2 week period to win a prize. The competition will be open to all schools but it is envisioned that primary schools will be taking part.
- 17.5 All participating schools will be required to take weekly electricity readings covering a 4 week period (5 readings in total) and send them in via the Council's Systemslink web reporting system. There will be a 2 week baseline period where the schools carry on as normal and then there will be a 2 week action period where schools should try to do everything they can to save electricity whilst the school runs otherwise as normal. A checklist will be provided which the staff/pupils can refer to for ways to save energy.
- 17.6 Once all the readings are in, average consumption patterns before and after the action period will be calculated and a percentage savings figure derived. All the schools will then be ranked and the winning school with the highest percentage saving will win a prize. It is also envisioned that every school that takes part will receive a smaller prize. All prizes are subject to funding being allocated. It is proposed that any income derived from the energy switching campaign is used for this purpose.
- 17.7 The Head of Schools and Education Services suggested two forms of prizes that the schools would be interested in; these were positive PR for the school and educational resources. PR could be free but the educational resources are likely to be charged for.
- 17.8 Since schools will need to be informed about the competition and sign up for it, it is proposed that the competition runs in the second half of the autumn term.

Town Hall BMS project

- 17.9 Following the investigations carried out by MITIE it has been decided that the Town Hall building management system (BMS) upgrade will need to be separately tendered. This is because MITIE have made adjustments to their savings figures which mean overall they have a credit of savings after the first year.

17.10 The project will be tendered in as soon as possible and is due to be complete by the end of the year. The project will be tendered and delivered by Shared Building Services. The works being tendered have been adjusted to split out the works to three areas: the basic upgrade of the control system, the introduction of air conditioning control to the BMS control system and the introduction of fan coil control to the BMS system.

Maidenhead District Energy Network

17.11 On the 14th March the Sustainability Panel commissioned a high level assessment looking at the possibility of installing a District Energy Network in Maidenhead. The study is now complete and a final report has been issued (see appendix 2).

17.12 The report has the following sections:

- Initial appraisal of opportunity sites
- Modelling of energy loads and mapping
- Stage 1 cost modelling
- Options for investment and delivery
- Taking the project forward
- Conclusions

The report provides a high level analysis of the possibility for a district energy network in Maidenhead. It calculates the current levels of energy consumption from some of the existing key buildings in Maidenhead and maps their position. It then projects future energy consumptions for Maidenhead based on the potential future development work happening in Maidenhead, again also looking at the locations of these new sites. This high level analysis highlights the energy loading through time so that a demand profile can be built up to inform the current energy centre requirements and future phasing potential.

17.13 The report provides an indicative cost of almost £10m for the 1st phase of the scheme which looks to install the energy centre and associated pipework to existing buildings in the town centre. This would lead the way for future phases which could provide energy to the redevelopment sites when they are completed. Unfortunately a full financial model could not be developed under this study as it requires much more detailed work looking at all the overheads and income streams.

17.14 The report goes on to conclude that from the information used in the study a district energy network should be viable in Maidenhead and should be investigated further. Grant funding is available to assist with more detailed investigative work and it is available from the Heat Networks Delivery Unit (Department for Business, Energy and Industrial strategy). The next funding round opens in the autumn; however, full Council buy-in to the scheme will be required before an application can be made.

17.15 The report has been sent to the regeneration team for comment for a first round of consultation.

Water Saving Toilet trial

- 17.16 The public toilets in the Town Hall were monitored for two weeks using flush monitoring devices. The results of the monitoring period were that on average each toilet is flushed 40 times with women's toilets being flushed two and a half times more than men's toilets. It was also found that on average each toilet is flushing 6.53L per flush. Assuming consistent usage over a year during the working week (and removing bank holidays) the ten public toilets monitored will use 640m³ of water. This costs £1344 per annum in water charges.
- 17.17 The Propelair toilets being considered only use 1.5L of water per flush since as well as using water to flush the toilet they also use a compressed air flush. Using the figures from the monitoring above this means the ten toilets would use 147m³ of water per annum using Propelair toilets and this would cost £309 per annum in water charges. This would offer an annual saving of £1035 for the ten toilets.
- 17.18 The water saving is offset by the cost of the toilets and their installation. The business case provided by Propelair can be found in appendix 3. Their business case shows an 8.6 year payback. It is proposed that a trial is conducted by replacing the public toilets in the Town Hall next to the café with a low flush alternative and the Propelair toilets could be used in this trial subject to procurement and contractual arrangements. The trial would be looking primarily to test how well the toilet product functions over a given period of time and how user friendly they are.
- 17.19 The other options on the market that can reduce the amount of water being flushed by a toilet are: dual flush/ low flush replacement flush mechanisms, macerating toilets, pressure assisted toilets, vacuum toilets and compressed air toilets. Macerating, vacuum and compressed air toilets are not suitable for the plumbing system in the town hall.
- 17.20 Low flush and dual flush mechanisms can be retrofitted to reduce the amount of water being used per flush – this can be as low as 4L full flush and 2L for part flush. Whilst replacing the flushing mechanism does reduce the amount of water being used, reducing the flush volume to these levels can cause blockages under normal pressure. Although a cheaper option in the long run, this option may cause problems with the drainage system depending on how well the current drain network can cope in the Town Hall. It is therefore not recommended.
- 17.21 Pressure assisted toilets compress the air inside the cistern when it refills. This means that when the toilet is flushed it flushes a reduced amount of water under pressure. Due to the pressure of the water being flushed this alleviates any blockage issues and means that the amount of water being flushed is reduced. Unfortunately the compressed cisterns have exploded in the past and so for safety reasons this product is not recommended.
- 17.22 Any trial would be procured according to contract rules. Installations will be subject to final pre-installation checks prior to the install.

Work planned over the next period until the next Sustainability Panel

17.23 The work for the next period includes:

- Completing the energy switching campaign.
- Setting up a low flush toilet trial in the Town Hall public toilets.
- Tendering the Town Hall BMS project.
- Gaining support for the Schools Energy Saving Competition in schools.
- Finalising plans for the LED upgrade programme phase 2.

18. CONSULTATION (MANDATORY)

| Name of consultee | Post held and Department | Date sent | Date received | See comments in paragraph: |
|--------------------------|---------------------------------------|------------------|----------------------|-----------------------------------|
| Internal | | | | |
| Lisa Pigeon | Environmental Health Lead, Operations | 31/08/2016 | 13/09/2016 | Throughout |
| External | | | | |

REPORT HISTORY

| Decision type: | Urgency item? |
|-----------------------|----------------------|
| Non-key decision | No |

| Full name of report author | Job title | Full contact no: |
|-----------------------------------|--------------------------|-------------------------|
| Michael Potter | Energy Reduction Manager | 01628 682949 |

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**Comparison of energy
consumption (kWh) in 2016/17 to
the 2013/14 baseline year**

| | April | May | June | July |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| Electric 13 14 | 487,098 | 488,315 | 426,998 | 456,868 |
| Gas 13 14 | 153,016 | 91,357 | 24,851 | 18,070 |
| | <u>640,114</u> | <u>579,672</u> | <u>451,849</u> | <u>474,938</u> |
| | | | | |
| | April | May | June | July |
| Electric 16 17 | 355,894 | 376,910 | 315,289 | 325,480 |
| Gas 16 17 | 149,682 | 58,494 | 30,746 | 21,528 |
| | <u>505,576</u> | <u>435,404</u> | <u>346,035</u> | <u>347,008</u> |
| | | | | |
| kWh Reduction | <u>-134,538</u> | <u>-144,268</u> | <u>-105,814</u> | <u>-127,930</u> |
| | | | | |
| % Saving by month | <u>-21%</u> | <u>-25%</u> | <u>-23%</u> | <u>-27%</u> |

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Agenda Item 9

By virtue of paragraph(s) 3 of Part 1 of Schedule 12A of the Local Government Act 1972.

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