

**IMPACT ASSESSMENT OF SMART  
AND ADVANCE METERING FOR  
SMALL AND MEDIUM-SIZED  
BUSINESSES AND PUBLIC  
SECTOR SITES**

Costs and Benefits –  
Detailed Results

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## Impact Assessment of smart and advanced metering for small and medium-sized businesses and public sector sites: Cost and Benefits – Detailed Results

This document provides a breakdown of the results contained in Table 10 of the Impact Assessment which is annexed to the Consultation on Smart and Advanced Metering for Small and Medium Sized Business and Sites and Other non-Domestic users (<http://www.berr.gov.uk/files/file47191.pdf>).

Please see below the break down of costs and benefits for each of the smart meters options. (Options 1 – 3)

### Option 1: Do nothing

<b>Costs</b>		<b>Benefits</b>	
Capital cost total	266	Energy Saving Elec £	446
Installation/O&M total	206	Energy Saving Gas £	231
Comms total	32	TOU	88
Other costs	35	Losses - bill reduction	27
<b>Total Costs (£)</b>	<b>539</b>	<i>Total Consumer Benefits</i>	<i>790</i>
		Avoided cost of carbon Gas (£)	94
		Avoided meter reading	76
		Inbound enquiries	24
		Customer service ovhds	4
		Debt Handling	24
		Remote Connect/Disconnect	5
		Avoided site visit	8
		<i>Total Supplier Benefits</i>	<i>140</i>
		Reduced Losses	26
		Microgeneration	8
		Supplier switching benefit	15
		<i>Total Other Benefits (£)</i>	<i>48</i>
		<b>Total Benefits</b>	<b>1,072</b>
		<b>Net Benefits</b>	<b>533</b>

### Option 2a: Advanced meters over 10 years

<b>Costs</b>		<b>Benefits</b>	
Total Capital cost	944	Energy Saving Elec £	1,122
Installation/O&M total	745	Energy Saving Gas £	582
Total Comms costs	24	TOU	207
Other costs	51	Losses - bill reduction	69
<b>Total Costs (£)</b>	<b>1,762</b>	<i>Total Consumer Benefits</i>	<i>1,975</i>
		Avoided cost of carbon Gas (£)	233
		Avoided meter reading	191
		Inbound enquiries	60
		Customer service ovhds	10
		Debt Handling	65

Remote Connect/Disconnect	14
Avoided site visit	22
<i>Total Supplier Benefits</i>	362
Reduced Losses	64
Microgeneration	11
Supplier switching benefit	38
<i>Total Other Benefits (£)</i>	112
<b>Total Benefits</b>	<b>2,682</b>
<b>Net Benefits</b>	<b>919</b>

### Option 2b: Advanced meters over 20 years

<b>Costs</b>		<b>Benefits</b>	
Total Capital cost	498	Energy Saving Elec £	596
Installation/O&M total	395	Energy Saving Gas £	309
Total Comms costs	12	TOU	110
Other costs	61	Losses - bill reduction	37
<b>Total Costs (£)</b>	<b>966</b>	<i>Total Consumer Benefits</i>	1,048
		Avoided cost of carbon Gas (£)	125
		Avoided meter reading	102
		Inbound enquiries	32
		Customer service ovhds	5
		Debt Handling	34
		Remote Connect/Disconnect	8
		Avoided site visit	11
		<i>Total Supplier Benefits</i>	192
		Reduced Losses	34
		Microgeneration	6
		Supplier switching benefit	20
		<i>Total Other Benefits (£)</i>	60
		<b>Total Benefits</b>	<b>1,425</b>
		<b>Net Benefits</b>	<b>459</b>

### Option 3a: Smart meters over 10 years

<b>Costs</b>		<b>Benefits</b>	
Total Capital cost	442	Energy Saving Elec £	1,122
Installation/O&M total	318	Energy Saving Gas £	582
Total Comms costs	163	TOU	242
Other costs	65	Losses - bill reduction	69
<b>Total Costs (£)</b>	<b>987</b>	<i>Total Consumer Benefits</i>	2,010
		Avoided cost of carbon Gas (£)	233
		Avoided meter reading	191
		Inbound enquiries	60
		Customer service ovhds	10
		Debt Handling	65
		Remote Connect/Disconnect	14
		Avoided site visit	22

<i>Total Supplier Benefits</i>	362
Reduced Losses	64
Microgeneration	11
Supplier switching benefit	38
<i>Total Other Benefits (£)</i>	112
<b>Total Benefits</b>	<b>2,717</b>
<b>Net Benefits</b>	<b>1,730</b>

### Option 3b: Smart meters over 20 years

<b>Costs</b>		<b>Benefits</b>	
Total Capital costs	233	Energy Saving Elec £	596
Installation/O&M total	169	Energy Saving Gas £	309
Total Comms costs	82	TOU	129
Other costs	68	Losses - bill reduction	37
<b>Total Costs (£)</b>	<b>552</b>	<i>Total Consumer Benefits</i>	1,067
		Avoided cost of carbon Gas (£)	125
		Avoided meter reading	102
		Inbound enquiries	32
		Customer service ovhds	5
		Debt Handling	34
		Remote Connect/Disconnect	8
		Avoided site visit	11
		<i>Total Supplier Benefits</i>	192
		Reduced Losses	34
		Microgeneration	6
		Supplier switching benefit	20
		<i>Total Other Benefits (£)</i>	60
		<b>Total Benefits</b>	<b>1,444</b>
		<b>Net Benefits</b>	<b>892</b>

### Option 4a: Choice of meter technology over 10 years

<b>Costs</b>		<b>Benefits</b>	
Total Capital costs	674	Energy Saving Elec £	1,122
Installation/O&M total	519	Energy Saving Gas £	582
Total Comms costs	83	TOU	222
Other Costs	56	Losses - bill reduction	69
<b>Total Costs (£)</b>	<b>1,331</b>	<i>Total Consumer Benefits</i>	1,990
		Avoided cost of carbon Gas (£)	233
		Avoided meter reading	191
		Inbound enquiries	60
		Customer service ovhds	10
		Debt Handling	59
		Remote Connect/Disconnect	13
		Avoided site visit	19
		<i>Total Supplier Benefits</i>	353
		Reduced Losses	64

Microgeneration	10
Supplier Switching benefit	38
<i>Total Other Benefits (£)</i>	111
<b>Total Benefits</b>	<b>2,686</b>
<b>Net Benefits</b>	<b>1,356</b>

#### Option 4b: Choice of meter technology over 20 years

<b>Costs</b>		<b>Benefits</b>	
Total Capital cost	356	Energy Saving Elec £	596
Installation/O&M total	276	Energy Saving Gas £	309
Total Comms cost	42	TOU	118
Other Costs	63	Losses - bill reduction	37
<b>Total Costs (£)</b>	<b>736</b>	<i>Total Consumer Benefits</i>	1,056
		Avoided cost of carbon Gas (£)	125
		Avoided meter reading	102
		Inbound enquiries	32
		Customer service ovhds	5
		Debt Handling	31
		Remote Connect/Disconnect	7
		Avoided site visit	10
		<i>Total Supplier Benefits</i>	187
		Reduced Losses	34
		Microgeneration	5
		Supplier Switching benefit	20
		<i>Total Other Benefits (£)</i>	59
		<b>Total Benefits</b>	<b>1,428</b>
		<b>Net Benefits</b>	<b>692</b>