



Brixham Town Council

First Floor, Brixham Town Hall,
New Road, Brixham, TQ5 8TA

01803 859678 info@brixhamtowncouncil.gov.uk

Town Clerk: Mrs Tracy Hallett

Report Number	22-2021	Date	19.03.21
Report Type	Public	Meeting	Town Hall
Contact Officer	Tracy Hallett Simon Hiatt	Job Title	Town Clerk Admin Assistant
Report Title	Waste & Recycling Collections		

Purpose of Report

To discuss and consider the best value operative for the safe removal and disposal of general waste, general recycling and glass. This report also considers the opportunity to install solar powered bins at the Town Hall.

Existing Provision

The Town Council provides the following bins, which services the whole of the Town Hall complex as well as the Brixham Heritage Museum who do not have anywhere to store their own bins.

2 x 1100 Litre General Waste
1 x 1100 Litre General Recycling
1 x 360 litre glass

Price Comparisons

The existing contractor is Devon Contract Waste and during recent discussions with them, we have negotiated a reduction in costs. Below are details of the existing contract and a potential new contract with Devon Contract Waste. To ensure that the Council is getting value for money, a comparison quote was also obtained from SWISCo.

	Devon Contract Waste (current contract)	Devon Contract Waste (new 12 month contract)	SWISCo
Cost per week			
2 x 1100 Litre General Waste	£32.30	£29.90	£43.56
1 x 1100 Litre General Recycling	£9.63	£8.95	£14.71
Cost per fortnight			
360 Litre Glass	£8.51	£8.51	£6.63

Cost per Annum			
	Devon Contract Waste (current contract)	Devon Contract Waste (new 12 month contract)	SWISCo
2 x 1100 Litre General Waste	£1,679.60	£1,554.80	£2,265.12
1 x 1100 Litre General Recycling	£500.76	£465.40	£764.92
360 Litre Glass	£442.52	£442.52	£344.76
Totals	£2,622.88	£2,462.72	£3,374.80

Solar Powered Bins

The following organisations provide solar powered bins. However, none of them provide a waste collection service and therefore the prices shown in the above figures would need to be added to the costs shown below.

We contacted 5 suppliers of the solar powered bins of which 3 responded. Of these only 3 provided full specifications, cost and service agreements.

WYBONE LIMITED

Mr. Fill: 120 Litres
The smart waste solution

Technical Data

Dimensions	1385 x 569 x 569mm
Height of opening	1200mm
Dimensions of base plate	700 x 700 x 12mm
Weight	140kg

Material

Body and door	2mm high quality galvanised steel
Body and roof	Powder coating
Insertion valve	Stainless steel 316, 1.5mm thickness
Press	Electric press
Actuator	600N / 600N

Standard

Standard 120L unit	Galvanised foot pedal
Communication platform LTM-L1 / LTM-NB 2G / 3G	Communication platform 4G
Stainless steel throw in	Stainless steel ashtray with removable collection tray
Press	Personalised display
Colour - RAL 7016	Stainless steel unit
Solar panel	Colour preference
Two keys	
Localisation	
Display	

Optional

Galvanised foot pedal	
Communication platform 4G	
Stainless steel ashtray with removable collection tray	
Personalised display	
Stainless steel unit	
Colour preference	

Mr. Fill: 240 Litres
The smart waste solution

Technical Data

Dimensions	1530 x 668 x 765mm
Height of opening	1250mm
Dimensions of base plate	990 x 990 x 10mm
Weight	160kg

Material

Body and door	2mm high quality galvanised steel
Body and roof	Powder coating
Insertion valve	Stainless steel 316, 1.5mm thickness
Press	Electric press
Actuator	600N

Standard

Standard 240L unit	Galvanised foot pedal
Communication platform LTM-L1 / LTM-NB 2G / 3G	Communication platform 4G
Stainless steel throw in	Stainless steel ashtray with removable collection tray
Press	Personalised display
Colour - RAL 7016	Stainless steel unit
Solar panel	Colour preference
Two keys	
Localisation	
Display	

Optional

Galvanised foot pedal	
Communication platform 4G	
Stainless steel ashtray with removable collection tray	
Personalised display	
Stainless steel unit	
Colour preference	

Mr. Fill's self-compacting waste containers are devised, designed and developed in the Netherlands – manufactured from 2mm thick galvanised steel which makes these bins rust and vandal proof.

Foot Pedal Operation

No need to use your hands to open the flap, simply press the foot pedal to open. The stainless steel handle reduces the spread of infection.

Smart City Manager

The Smart City Manager is a management and monitoring system that registers the status and usage data of your waste container and sends the information to your employees when emptying is required.

Remote Locking

The universal application allows users to remotely lock the unit once full or in the event of an emergency – this locks the flap and displays a locked message on the LED dashboard.

75% Saving on Waste Costs

Mr. Fill takes 6-7 times longer to fill than any other waste unit, which generates a significant cost saving. This also prevents regular emptying by street cleansing staff.

Superior Solar Energy

The solar panel is smaller in size than its counterparts but has the best return on energy – the smart infrared technology enables energy to be collected without direct sunlight.

Robust Stainless Steel Flap

Rubbish is deposited through a stainless steel flap which ensures waste is directed into the internal wheelie bin. Each time the flap is used, data is collected and stored within the app.

Cost

Based on 1 bin:

Hardware Per Bin

120L bin price @	£4,200.00 each
240L bin price @	£4,700.00 each
Ashtray built into door @	£ 190.00 each
Maintenance @	£ 120.00 per bin per year

Software Licence Per Bin

1 year @	£120.00
5 year @	£500.00

In regards to leasing:

Lease contract	Lease price(monthly)	Product	price after contract	Smartcity manager	annual maintenance
3 year contract	£ 160.00	Ultra 120	£1,250.00	(YES)	(YES)
4 year contract	£ 140.00	Ultra 120	£750.00	(YES)	(YES)
5 year contract	£ 120.00	Ultra 120	£500,00	(YES)	(YES)

Bigbelly Solar Compactor

Bigbelly is the world leader of smart waste & recycling solutions for public spaces, communities and facilities. Deploy intelligent, solar-powered, sensor-equipped waste & recycling stations that communicate their real-time status to collection crews to enable efficiencies.

The cloud-connected, web-based platform delivers actionable insights into your waste operation. Bigbelly's complete suite of stations includes a smart, compacting model to capture the waste volumes of your high traffic areas, plus a smart standard-capacity model for your less busy areas. Offered as a turnkey platform, each fleet is customisable and modular based on your capacity, waste stream, and accessory needs, including any Smart City application add-ons.



Streetscene ready

- Tackle waste hotspots
- Reduce street clutter
- Modular service friendly construction
- Minimise risk of over-flowing bins
- Vermin proof
- No wind-blown litter



Built to be smart

- Increase capacity upto 960L
- Compacts as and when required
- Automated real-time notifications
- Real-time insights, analytics & reporting
- Integrated access control



Smart cities

- Small cell network infrastructure
- Environmental sensors
- Wifi hotspot available
- People counters
- CSR/Advertising space



Measurable Sustainability

- Reduce CO2 emissions
- Track recycling and diversion rates
- Bigbelly helps you reduce both unnecessary traffic and its environmental impact

Egbert Taylor

Reduce:
Collections by up to **97%**
Street clutter by up to **56%**
Littering by up to **30%**



The Bigbelly solar compacting waste system operations are supported by a variety of technologies, along with procedures for alerting the appropriate parties, and properly diagnosing and resolving technical issues that may arise: Stations communicate their collection readiness and health status to the clean management software over wireless cellular networks.

All services and maintenance repairs can be tracked on the Clean system, noting the engineer, works completed and time stamp.

Customer Responsibilities

Customer representatives should be made aware of their responsibilities.

- Delivery of bins to site for installation unless specified by operations
- Collection and disposal of waste materials after install
- Regular cleaning of the bins
- Due care when using the bins
- Reporting of damage or issues with bins
- Contractor access or parking permits for access to bin sites.

COST: £4,529 plus 5 Year service & maintenance: £520.00

SOLARPACTA



Features:

- Operational Costs Slashed By 80%
- Collects 7 x More Than Normal Bin
- Powerful Industry Leading Compaction Strength
- Bag Free System - No Bin Bags Required
- Real Time Messaging, Keyless Entry & Remote Monitoring
- Stops Inefficient Collections & Frees Valuable Resources
- Emissions Reduced & Carbon Footprint by 80%
- Compacts Waste By Solar Energy
- Quick & Easy Installation & Maintenance
- Reduces Overflowing Bins & Risk Of Vermin
- Tough, Durable, Stylish

SolaPacta V Other Street Litter Compactors (SLC):

- Unique Teflon hybrid hatch
- Compacts into 120 Litre Wheelie Bin - Other SLC use heavy bags which do not comply with safe handling procedures.
- Small footprint high quality European design
- Complements street scene
- Ergonomic ashtray and gum board options
- Complete swap out system module – maximum up-time
- Keyless RFID electronic door lock – reliable and trackable
- Quiet compression action and quiet dampened save – close hopper
- Simple status indicator lights – visible from a distance for operatives
- Colour, finish and wrap options – sponsorship/ advertising opportunities
- Optional stainless steel - for tough coastal applications
- API integration

COST: The price will range from £3,500 to £4,000 per bin and this includes 1 year software and Maintenance.

Conclusion

Whilst it is appreciated the solar powered bins solution is a good solution, particularly with reduction to the Council's carbon footprint, the cost of the bins, plus the additional contract for collections means that this is not a viable option for the Town Council to have at the Town Hall.

The Council does not own other public areas and is therefore not responsible for waste collection in public areas. It is therefore considered that it would not be a viable option to install solar powered bins across Brixham.

Recommendation

The Town Council has a duty of care to ensure that bins are provided at the Town Hall and it is recommended that the Council renews its contract with Devon Contract Waste.