



# WASTEANDBIO

## Infrastructure Monitor

# 15 - 2019

*Roskilde, Denmark, by courtesy of Martin GmbH*

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# 1 Waste-to-Energy / MBT

## 1.1 WtE projects

### China / WtE plant approved in Anshun

The Waste-to-Energy project phase 2 planned in Anshun City, Guizhou Province, has recently been approved by the Municipal Development and Reform Commission. Based on the original plant, project phase 2 will entail the installation of a 400 tpd grate furnace and a 9 MW condensing steam turbine generator set, increasing the total treatment capacity of the facility to 1,100 tpd and entailing a total investment of RMB 120 million.

11.04.2019, [huanbao.bjx.com.cn](http://huanbao.bjx.com.cn)

[Link to source](#)

### China / WtE project to be developed in Xingtang County

On 3 April, China National Environmental Protection Group has been announced to be selected as the developer of the Waste-to-Energy plant to be built in Xingtang County, Heibei Province. The project will be developed in 2 phases with a combined treatment capacity of 1,600 tpd. Project phase 1 will be equipped with 2x500 tpd incineration lines, entailing a total investment of RMB 550 million.

09.04.2019, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

### China / SUS secures ADB loan for WtE projects

Philippines-headquartered Asian Development Bank (ADB) has agreed on a loan worth USD 100 million with Shanghai-based SUS Environment Company Limited (SUS). The long-term partnership should provide for developing a portfolio of Waste-to-Energy projects in China. However, the source does not provide any further information on the projects. It only comments on plans for a WtE eco-industrial park that should be converting MSW into power and steam.

08.04.2019, [www.devdiscourse.com](http://www.devdiscourse.com)

[Link to source](#)

**China / WtE project went online in Hezhou**

The Waste-to-Energy plant built in Hezhou City, Guangxi Region, has successfully completed 72+24h commissioning on 31 March and started commercial operations. The project was developed by Beijing GeoEnviron Engineering & Technology Inc with a treatment capacity of 500 tpd, consisting of a 500 tpd grate furnace and a 7.5 MW condensing steam turbine generator set. The investment costs amounted to RMB 260 million.

08.04.2019, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**China / WtE plant approved in Luoyang**

On 1 April, the Waste-to-Energy plant to be developed by China Resources Power Holdings Company Limited in Luoyang City, Henan Province, has been approved by the Luoyang Municipal Development and Reform Commission. The project will be developed in 2 phases with a combined treatment capacity of 1,800 tpd. In the first phase, 2x600 incineration lines and a 30 MW condensing steam turbine generator set will be installed, entailing an investment of RMB 570 million.

06.04.2019, [www.cn-hw.net](http://www.cn-hw.net)

[Link to source](#)

**China / HZI delivers 3 units to Xuzhou WtE project**

As already reported, the WtE project in Xuzhou City, Jiangsu Province, is currently under construction. Technology provider Hitachi Zosen has now announced to deliver 3 grate combustion systems to the WtE project. The technology provider was awarded by Xuzhou Xinshengrun Environmental Protection Energy Co., Ltd. The grate incineration units should have a capacity of 750 tpd each with a total power output of 50 MW. Hitachi Zosen will be responsible for engineering and supplying the grate incineration system. Delivery should be finished by December 2019.

05.04.2019, [www.hitachizosen.co.jp](http://www.hitachizosen.co.jp)

[Link to source](#)

**China / HZI to equip WtE plant in Baoding**

Japan-headquartered Hitachi Zosen Corporation has been contracted to deliver a 1,000 tpd grate combustion unit to a WtE project in Baoding City, Hebei Province. The contract awarded by CECEP (Baoding) Environmental Energy Co., Ltd. includes engineering, main equipment supply and supervisory service on the 25 MW combustion system. The plant is due to be operational in 2020.

05.04.2019, [www.hitachizosen.co.jp](http://www.hitachizosen.co.jp)

[Link to source](#)

**China / Jiaohe WtE project started tendering**

A new Waste-to-Energy plant is currently being planned in Jiaohe City, Jilin Province. On 4 April, the project started to tender for a private developer. The plant will have a treatment capacity of 500 tpd, utilising grate furnace technology. It will be developed in BOO mode with a concession period of 30 years, excluding construction.

04.04.2019, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**China / Santai County WtE plant under construction**

On 27 March, construction works at the Mianyang No. 2 Waste-to-Energy project have begun in Santai County, Sichuan Province. The project will be developed by China Science Environmental Technology Co Ltd with a treatment capacity of 1,000 tpd, consisting of 2x500 tpd incineration lines and a 20 MW condensing steam turbine generator set. The investment costs will amount to RMB 624 million.

04.04.2019, [huanbao.bjx.com.cn](http://huanbao.bjx.com.cn)

[Link to source](#)

**India / Deonar landfill permission prolonged**

Bombay High Court has prolonged the BMC's (Brihanmumbai Municipal Corporation) permit to dispose of waste at the Deonar landfill until 31 December 2019. As reported in March 2018, the 600 tpd WtE facility planned to be built at the site is facing yet another delay. The bidding deadline was once more postponed until the end of March because the bidders had asked for some more time to evaluate the caloric value (CV) of the waste at the dumping ground in Deonar. According to the current source, BMC started the tendering procedure one year ago but until today, only 3 or 4 bidders have expressed their interest in the project.

10.04.2019, [www.indianexpress.com](http://www.indianexpress.com)

[Link to source](#)

**India / Shimla WtE project remains unfinished**

Two years after it started operating, the WtE project in Bhariyal, Shimla, Himachal Pradesh, is still not fully operational in terms of energy generation. As gasification machinery has not been installed yet, around 30 tpd of RDF are generated and sold to the Ambuja Cement Plant. Shimla as well as surrounding cities dispose of around 80 tpd of waste there. According to the municipal corporation, the contract with the operator was revoked due to incompleteness of the plant. The plant was constructed after the National Green Tribunal criticised the garbage treatment and environmental pollution in Shimla. Shimla Municipal Corporation (SMC)'s project entailed an investment of INR 420 million (EUR 5 million). According to ecoprolog information, SMC developed the facility with Elephant Energy Pvt Ltd. The plant was initially scheduled to have a capacity of 1.5 MWel.

06.04.2019, [www.tribuneindia.com](http://www.tribuneindia.com)

[Link to source](#)

**Pakistan / WtE project in Karachi expected to start soon**

According to Sindh Minister for Energy, works on a 50 MW Waste-to-Energy plant in the city of Karachi could start soon, once a corresponding feasibility report is completed. The source does not provide any further information on the project or its time schedule. Back in November 2018, the Minister had directed the Solid Waste Management Authority of Sindh Province to prepare a policy for increasing the use of WtE. The goal was to encourage private investments in the waste sector. As further stated back then, Karachi generates 17,000 tpd of waste. This, as reported, could be converted into 250 MW of electricity in up to 5 WtE plants.

09.04.2019, [arynews.tv](http://arynews.tv)

[Link to source](#)

**Philippines / 100 MW WtE plant in early planning stages**

Unnamed British investors plan to build an USD 500 million (EUR 443 million) WtE plant with a capacity of 100 MW in Balanga City, Bataan. It is expected to accept 1,500 tpd of waste from Balanga City as well as possibly from Central Luzon and Metro Manila. While the funding of the project will be stemmed by the investors, the local government is expected to provide the site for the construction. Australian technology is to be installed at the plant.

06.04.2019, [www.newsinfo.inquirer.nnet](http://www.newsinfo.inquirer.nnet)

[Link to source](#)

**UK / Eqtec comments on current projects**

Ireland-based gasification technology provider Eqtec PLC has announced advanced talks on a collaboration agreement with an unnamed Spanish company. The partnership should provide for the development of several projects. Eqtec also reported advanced talks in regard to an RDF gasification project in the UK. For this plant, Eqtec will act as lead developer. Furthermore, the company reported that it has signed a letter of intent with a UK-based project developer. With this agreement, the partners aim to identify new project opportunities.

09.04.2019, [www.morningstar.co.uk](http://www.morningstar.co.uk)

[Link to source](#)

**UK / Hampshire WtE plant to be built by 2026**

The 450,000 tpy Harewood WtE project in Barton Stacey, Hampshire, could become operational in 2025 or 2026. The project proposed by US-based company Wheelabrator remains subject to a Development Consent Order (DCO) by the Planning Inspectorate, which would be granted on behalf of the Secretary of State. Current plans provide for a construction period of 3.5 years, with possible start of construction in 2022. The pre-application process has already begun. The future plant would be located at the A303 Enviropark site. Currently, Raymond Brown Group owns and operates an MRF at the site.

09.04.2019, [www.letsrecycle.com](http://www.letsrecycle.com)

[Link to source](#)

**UK / New contractor takes on Hull WtE project**

After delays in the construction of the new WtE plant in Hull, contractor MW High Tech Projects UK Ltd has been replaced by engineering firm Black & Veatch. Originally scheduled for April 2018, there has been no new operational date issued for the GBP 200 million (EUR 232 million) plant. Once completed, the WtE plant will have a capacity of 24 MW<sub>e</sub>, processing 240,000 tpy of residual waste through fluidised bed gasification.

04.04.2019, [www.yorkshirepost.co.uk](http://www.yorkshirepost.co.uk)

[Link to source](#)



### **UK / FCC to build C&I incineration plant in Manchester**

Recycler FCC Environment and investor Copenhagen Infrastructure Partners have announced plans to construct a 60 MW waste incineration plant in Lostock near Manchester. Financing negotiations for the investment volume of GBP 480 million (EUR 560 million) were concluded successfully. French plant manufacturer CNIM will be responsible for the incineration technology. FCC Environment will be responsible for operation and maintenance of the plant as well as for the waste supply to the facility. The plant will incinerate up to 600,000 tpy of pretreated commercial, industrial and residual waste.

03.04.2019, [www.euwid-recycling.de](http://www.euwid-recycling.de)

[Link to source](#)

## **1.2 WtE plants**

### **Ethiopia / First WtE facility in Africa to resume operations**

The Reppie WtE plant is set to become operational again by summer 2019, according to Ethiopian Electric Power (EEP). The standstill resulted from disputes between EEP and its contractors Cambridge Industries and China National Electric Engineering Company. The facility is the first WtE plant in Africa and designed to process 1,400 tpd of solid waste.

04.04.2019, [www.constructionsreviewonline.com](http://www.constructionsreviewonline.com)

[Link to source](#)

### **USA / Warren WtE plant shut down**

The Warren WtE facility in Oxford, New Jersey, has been shut down by its operator Covanta. At the same time, it was confirmed that the facility will not be dismantled and Covanta retains ownership. The company cited local market conditions as the driving factor in the decision. The Warren WtE plant had been operational for 30 years, processing 550 tpd of municipal solid waste at peak times.

04.04.2019, [www.lehighvalleylive.com](http://www.lehighvalleylive.com)

[Link to source](#)

## **1.3 MBT & pre-treatment**

### **Egypt / Opening of RDF production plant**

According to the source, Egypt's Minister of the Environment has announced the opening of a new RDF production plant on 18 April 2019. The facility located in the city of Suez should be capable of handling 1000 tpd of solid waste, industrial waste and organic waste fractions. As the source further indicates, the plant is considered to be the first RDF production facility in Egypt.

09.04.2019, [scoopempire.com](http://scoopempire.com)

[Link to source](#)

**France / Waste from Corsica not to be recovered in Toulouse**

The proposal to export waste from Corsica to Toulouse have been definitively ruled out. The plans provided for delivering 20,000 tons of MSW to the Mirail WtE plant in Toulouse, due to the projected saturation of the island's waste storage facility and landfill by the end of 2019. The Mirail WtE plant in Toulouse is operated by Setmie, a subsidiary of Veolia. The recent decision was made by the island authority together with municipal partners and public waste management association Syvadec. The island's waste treatment should be based essentially on sorting at source. Hence, various proposals are currently being discussed, including the use of MBT.

08.04.2019, [www.corsenetinfos.corsica](http://www.corsenetinfos.corsica)

[Link to source](#)

**Germany / Cemex wants to increase RDF use in Rüdersdorf**

Cemex, which operates a cement plant in Rüdersdorf, Brandenburg, is seeking permits to increase the RDF use at the plant's rotary kiln number 5. As requested by the company, the permit should be increased from currently 85% to 100%. As the source indicates, it currently remains uncertain if a decision on the application can be expected in 2019. In Rüdersdorf, Cemex has been using RDF for cement production purposes since the mid-1990s.

09.04.2019, [www.moz.de](http://www.moz.de)

[Link to source](#)

**Indonesia / Indocement with long-term RDF strategy**

Manila-based cement company Indocement Tunggal Prakarsa, a subsidiary of Germany's HeidelbergCement Group, has commented on its goals concerning the use of RDF for cement production purposes. The company developed a long-term strategy on this issue, in order to anticipate decreasing profits. In September 2018, the company partnered with the West Java administration on purchasing 500 tons of RDF derived from 1,500 tons of processed MSW.

09.04.2019, [www.cemnet.com](http://www.cemnet.com)

[Link to source](#)



## 1.4 Company news

### **Ethiopia / EEP ceases power generation operations**

Following an operational reform within EEP, the company will halt any new power generating plants and instead focus on managing existing projects and facilities. Debt and problems with the completion of ongoing projects required this restructuring, among others the long term project "the Great Ethiopian Renaissance Dam (GERD)" as well as the delayed project "Genale-Dawa-III" hydropower plant . EEP also is the developer of the recently inaugurated Reppie WtE plant in Addis Abeba.

06.04.2019, [www.thereporterethiopia.com](http://www.thereporterethiopia.com)

[Link to source](#)

### **UK / Renewi faces increased costs due to Brexit**

UK-based waste management firm Renewi has commented on issues raised by the ongoing Brexit process. The company's contract with the East London Waste Authority is exposed to disruptions by the Brexit, since a significant share of RDF is exported to the Netherlands. The company has commented on the already increased transport costs in anticipation of cross-border friction, while mentioning at the same time an increased likelihood of diversion to landfill.

29.03.2019, [www.letsrecycle.com](http://www.letsrecycle.com)

[Link to source](#)

### **USA / B&W secures financing to reduce obligations for EU projects**

US-based plant manufacturer Babcock & Wilcox (B&W) has announced to have secured a USD 150 million loan and an additional USD 15 million uncommitted incremental credit facility. Main lender of the loans is investment bank B. Riley FBR. With the help of the new financing, B&W paid GBP 91.6 million (GBP 70 million) to the customers of the two remaining European projects, executed by B&W Vølund, to lower obligations under the existing contracts. Furthermore, B&W terminated its obligations on EPC services for an additional European Waste-to-Energy project that is not under construction so far. According to B&W, these steps were undertaken to focus on the power business benefitting from the incineration technology of Vølund and the cooling technology of B&W SPIG.

05.04.2019, [www.babcock.com](http://www.babcock.com)

[Link to source](#)

## 1.5 Policy & others

### **Germany / 2017: 1.2 mt waste treated in coal-fired power plants in NRW**

According to figures of the Environmental Ministry of North Rhine-Westphalia (NRW), the coal-fired power plants located in the federal country have treated around 1.2 million tpy of waste in 2017. Municipal sewage sludge accounted for 825,000 tpy, with 300,000 tpy being imported from other European states. Should the phase out of using coal energy in Germany happen in 2038 as recently proposed, the waste that is so far incinerated in coal-fired power might need to be treated in other facilities.

*19.03.2019, EUWID Recycling und Entsorgung 12.2019*

### **Netherlands / Waste exports to China decreased sharply**

Following China's tightened import regulations, waste exports from the Netherlands have dropped sharply. In contrast to 88,000 tpy in FY17, only 10,000 tpy of plastic waste were exported in FY18. The export of scrap metal and waste paper to China decreased as well. The surplus was compensated for by Germany, Belgium and the UK.

*19.03.2019, EUWID Recycling und Entsorgung 12.2019*

## 2 Material recycling

### 2.1 Sorting & recycling projects

#### **Australia / Recycling hub planned in Fyshwick**

The company Hi-Quality Group is planning the construction of a new recycling hub in Fyshwick, a suburb of Canberra. The facility would feature a recycling plant, which processes wood, soil and liquid waste, a crushing, a screening centre and a concrete plant. In total, 1 million tpy of material would be delivered to the facility. The Australian Capital Territory (ACT) will decide on the realisation of the plans soon.

08.04.2019, [www.canberratimes.com.au](http://www.canberratimes.com.au)

[Link to source](#)

#### **Denmark / Re-Match plans to build 24 artificial turf recycling plants**

Danish company Re-Match is planning to build 24 artificial turf recycling plants in Europe and North America. For this reason, the company wants to establish relevant joint ventures in South America, Asia and Australia. The first facility is planned to be constructed in the Netherlands. It should have a capacity of more than 40,000 tpy and is scheduled to be opened in 2020. Partner for the financing of the projects is the Danish investment fund Nordic Alpha Partners.

04.04.2019, [plasticker.de](http://plasticker.de)

[Link to source](#)

#### **Ghana / Accra recycling and composting plant inaugurated**

A new Integrated Compost and Recycling Waste Plant has been inaugurated at the Accra Waste Recovery Park by Zoomlion Ghana Ltd. The facility, which was constructed in cooperation with Komptech Austria, processes up to 800 tpd of plastic and other waste into recycled raw materials and 200 tpd of compost. The investment costs amounted to USD 20 million.

05.04.2019, [www.ghanaweb.com](http://www.ghanaweb.com)

[Link to source](#)

**Hungary / Tender for Érd recycling plant withdrawn**

NFP Nemzeti Fejlesztési Programiroda Nonprofit Korlátolt Felelősségű Társaság has withdrawn the invitation to tender for the design and construction of a waste management system in Érd, Pest County. It included, among others, the development of 49,000 tpy of waste recycling technology, a pretreatment hall, storage spaces and technology such as metal separators and conveyor belts. Reasons for this step have been not disclosed in the source.

11.04.2019, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

**Indonesia / Plastic Energy to build 5 chemical recycling plants**

London-based Plastic Energy Ltd. is planning to build 5 chemical plastic recycling facilities in West Java, Indonesia. The company converts plastics into fuels using thermal anaerobic conversion. Plastic Energy is now seeking private and public partners for the construction of the plants. The Indonesian government has set the goal to reduce marine plastic waste by 70% by 2025.

05.04.2019, [www.plasticstoday.com](http://www.plasticstoday.com)

[Link to source](#)

**Kenya / Weeco opens recycling plant**

Chinese plastic recycler Weeco has commissioned a USD 45 million plastic waste recycling facility in eastern Kenya. The plant will convert 2,000 tpm of PET bottles into pellets and polyester fibre. The pellets will then be exported to Weeco's parent company in China for the production of polyester fibre. Moreover, Weeco is planning to open another recycling plant in Mombasa.

09.04.2019, [www.xinhuanet.com](http://www.xinhuanet.com)

[Link to source](#)

**Netherlands / New recycling plant opened in Winterswijk**

Dutch recycler Winterswijks Metal Recycling Jan Verhaegh has opened a new recycling facility at the industrial site Vèèneslat Zuid in Winterswijk and fully moved its operations from the old facility in the Dennenoord business park. The municipality of Winterswijk wishes for all recycling companies to move away from Dennenoord and is currently discussing a financial contribution for the move of Verhaegh Trading, the last recycler located in Dennenoord. The metal recycling capacity is not disclosed in the source.

05.04.2019, [www.recyclingmagazine.nl](http://www.recyclingmagazine.nl)

[Link to source](#)

**Portugal / Invitation to tender  
São Miguel new waste  
treatment centre**

Musami — Operações Municipais do Ambiente, E.I.M., S.A. has published an invitation to tender for the design, construction and supply of a mechanical waste treatment centre on the island of São Miguel. The value of the contract amounts to EUR 4.5 million. Tenders may be submitted until 3 July 2019.

09.04.2019, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

**UAE / Textile recycling facility  
planned in Dubai**

Leaders from the UAE's and Japan's public-private sector have announced that a facility to upcycle old clothes into raw material pellets is planned to be constructed in Dubai. The investment sum is expected to amount to USD 30 million, which will be facilitated by a public-private partnership.

10.04.2019, [www.ecotextile.com](http://www.ecotextile.com)

[Link to source](#)

**UK / Hartlepool paper fibre  
sorting plant to open soon**

A new paper fibre sorting facility at Palm Paper's newsprint mill in Hartlepool, North East England, will be opened shortly after having received environmental permit. The plant, which was developed by Ward Recycling Ltd, will sort source separated paper and cardboard mixture, mixed fibre from commingled collections, paper, cardboard and magazines. It will sort up to 30 tph of material.

08.04.2019, [www.letsrecycle.com](http://www.letsrecycle.com)

[Link to source](#)

**USA / Republic Services  
inaugurates recycling plant in  
Texas**

Phoenix-based Republic Services Inc. has inaugurated the "Next-Gen" recycling plant in Plano, Texas. The facility has a size of 77,000 ft<sup>2</sup> and processes 350 tpd of recyclable material with the help of optical sorters, anto-wrap fibre screens, an automated touch-screen control system and other equipment.

08.04.2019, [www.wastetodaymagazine.com](http://www.wastetodaymagazine.com)

[Link to source](#)

**USA / Radford metal recycling  
plant approved**

The construction of a metal recycling facility at an old 175,000 ft<sup>2</sup> foundry site in Radford, Virginia, has been approved. The plant will recycle scrap metals, electronics and copper wiring. The investment costs are expected to amount to USD 5 million.

08.04.2019, [www.roanoke.com](http://www.roanoke.com)

[Link to source](#)

**USA / FCC inaugurates Houston recycling plant**

Spanish environmental service company FCC has inaugurated its new Material Recycling Facility in Houston, Texas. In the next year the plant, which has a total capacity of 145,000 tpy, will process 65,000 tpy of recyclables such as glass, plastics, metals, paper and cardboard.

05.04.2019, *waste-management-world.com*

[Link to source](#)

## 2.2 Sorting & recycling plants

**Czech Republic / Invitation to tender for sorting line**

FCC BEC, s.r.o. has published an invitation to tender for the delivery and assembly of a sorting line in Lovosice, Ústecký kraj. The value of the contract amounts to EUR 234,200. Deadline for the submission of tenders is 16 May 2019.

11.04.2019, *ted.europa.eu*

[Link to source](#)

**USA / Upgrade of Midwest Fiber's recycling plant in Normal**

USD 3 million will be invested for adding equipment and upgrading the Midwest Fiber recycling plant in Normal, Illinois. The upgrade should enable more efficient sorting of materials from contamination and a 33% increase of processing capabilities. The new equipment is designed and constructed by Bulk Handling Systems.

08.04.2019, *www.waste360.com*

[Link to source](#)

## 2.3 Company news

**Austria / Erema publishes 2018/19 financial results**

In the fiscal year 2018/19, recycling plant manufacturer Erema's turnover has increased by 16% compared to the previous year to EUR 180 million. According to the company, the main reason for this growth is the increasing demand for recycling plants in Europe as a result of China's plastic import ban. Turnover in the segment of bottle recycling equipment almost tripled.

08.04.2019, *www.kunststoffweb.de*

[Link to source](#)



**Canada / RV2 Technologies invests EUR 66.5 million in Tricentris**

Over the next 20 years, RV2 Technologies, a company which is developing a technology to extract silica and zeolite from recycled glass, is investing EUR 66.5 million in recycling company Tricentris. 25% of the glass that Tricentris receives will be used by RV2 Technologies for the creation of value-added products.

08.04.2019, *thereview.ca*

[Link to source](#)

**Germany / Scholz increases sales volume and revenue**

Chiho Environmental Group, parent company of steel scrap recycler Scholz, reports an increase of 8% in sales amounts (to 4.4 million tons) and 25% in revenue (to EUR 1.6 billion) for its European business in 2018 compared to the previous year. However, profits decreased by 4% (to approximately EUR 50 million) due to higher logistics costs and challenging market conditions. The source points out that these numbers could deviate from Scholz' own reporting due to different accounting standards. Chiho is subject to accounting standards at the Hong Kong Stock Exchange.

02.04.2019, *www.euwid-recycling.de*

[Link to source](#)

**UK / Renewi publishes Q4 2018/19 business figures**

Waste management company Renewi has released the financial results of the fourth quarter of fiscal year 2018/19. The company's performance was mainly in line with its expectations and the goal to save EUR 30 million. In 2020, Renewi expects growth of the Commercial and Monostream division and a decrease of the Municipal division. However, the results in 2020 are expected to be lower than this year as the construction of a waste processing plant in Derby, England, is delayed.

29.03.2019, *afvalonline.nl*

[Link to source](#)

## 2.4 Policy & others

### Germany / Study identifies obstacles for recycle use in plastic packaging

According to a study by research company Gesellschaft für Verpackungsmarktforschung (GVM) on behalf of association Handelsverband Deutschland (HDE), the use of recycle in plastic packaging is subject to numerous obstacles. Only 10% of the 3.2 million tons of plastic packaging in Germany can currently be used as recycle. This is due to the lack of high-quality plastics, the unsuitability of existing recycles and the slowly proceeding approval of the use of recycles in packaging with direct food contact.

09.04.2019, [www.euwid-recycling.de](http://www.euwid-recycling.de)

[Link to source](#)

### Germany / Waste paper exports to Thailand increase

In January 2019, Germany has exported 172,000 tons of waste paper with a value of EUR 21 million, which is about a quarter less compared to the previous year. Exports to the Netherlands and France decreased significantly. Exports to Austria increased by 70%. 16,000 tons were exported to Thailand, which now is the most important non-European waste paper export country.

09.04.2019, *EUWID Recycling & Entsorgung 15.2019*

### Germany / Recycling industry with turnover increase

According to the Federal Statistical Office of Germany, Germany's recycling and waste management industry has experienced a growth of EUR 7.4 billion or 15% in turnover in 2017 compared to 2016. The industry's revenue thus amounted to EUR 54.9 billion in 2017. With an increase of 30%, the wholesale of waste and scrap segment achieved the highest growth. With 19%, the second highest growth was generated in the recovery segment.

26.03.2019, [recyclingportal.eu](http://recyclingportal.eu)

[Link to source](#)

### Hong Kong / Eco Expo Asia 2019 in October

The Eco Expo Asia trade fair will take place from 30 October until 2 November at the AsiaWorld-Expo in Hong Kong. This year's topic of the 14th edition of the fair will be "Less Carbon, Less Waste - Green Innovation". For further information please visit: <http://m.hktdc.com/fair/ecoexpoasia-en/>

30.10.2019, [www.recyclingtoday.com](http://www.recyclingtoday.com)

[Link to source](#)

**Turkey / Waste paper imports increasing**

In 2018, waste paper imports to Turkey have more than doubled compared to 2015, namely to 725,361 tons. According to recycling association Tüdam, only 20 to 25% of the waste paper demand can be met with the imports. The country's recycling rate is 40 to 45% and thus significantly lower than the European average of 72.3%. Until 2023, paper capacities in Turkey are expected to increase by one third to 5.5 to 6 million tons.

*09.04.2019, EUWID Recycling & Entsorgung 15.2019*

**Vietnam / Plastic imports to end in 2025**

The Vietnamese government is planning to fully ban the import of all plastic waste from 2025 onwards. In 2018, Vietnam was the sixth largest importer of plastic waste from the USA, with an import volume of 74,843 tons. In addition, the country announced to work off the backlog of 21,600 containers of plastic waste, which are stuck Vietnamese ports, almost 50% of which have been sitting for more than 3 months.

*02.04.2019, resource-recycling.com*

[Link to source](#)

## 3 Anaerobic digestion / biogas

### 3.1 Projects agriculture

#### China / Shengzhou AD project to go online soon

On 4 April, it has been announced that the anaerobic digestion plant developed in the venous industrial park in Shengzhou City, Zhejiang Province, is under equipment testing and will start commissioning soon. The project will be developed in 2 phases, while project phase 1 has a treatment capacity of 50 tpd of kitchen wastes and 10 tpd of waste grease. The second project phase is expected to be completed by the end of 2020, with a treatment capacity of 50 tpd of kitchen waste. The investment sum for the project amounts to RMB 30 million.

08.04.2019, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

#### China / AD plant commissioned in Qiqihar

The anaerobic digestion project developed by Tus-Sound Environmental Resources Co., Ltd in Qiqihar City, Inner Mongolia, has begun commissioning. The project will be developed in 2 phases with treatment capacities of 100 tpd each. The first project phase, which just completed construction, entailed an investment of RMB 93 million.

07.04.2019, [www.cn-hw.net](http://www.cn-hw.net)

[Link to source](#)

#### Denmark / Plans for small-scale biogas plant in Sønder Vium

An application has been submitted to the Technology and Environment Committee for a small-scale biogas plant in Sønder Vium, West Jutland. Plans provide for a facility consisting of six 150 m<sup>3</sup> tanks to process 10,500 tpy of pig manure from a nearby farm. It should be connected to a small CHP plant. An underground pipe system should be installed for feedstock supply. The project owner already has agreements in place with the landowners. As the land zone area has no municipal or local plan, one must be prepared before the application can be processed.

09.04.2019, [www.jv.dk](http://www.jv.dk)

[Link to source](#)

**France / On-farm AD plant commissioned in Rennes**

An agricultural biogas plant has recently been commissioned on a farm near Rennes, Brittany. Of the total cost of EUR 2.3 million, the farm itself provided EUR 20,000 in equity, while the rest was provided by France Biogaz, which also planned and constructed the project. Despite lower investments, the farm holds 52% of shares in the operation. The plant produces biogas mainly from manure and silage and powers a CHP unit with a capacity of 200 kWel. The electricity is sold to grid energy supplier EDF for EUR 0.21 per kWh. The produced heat is used to dry grass. The project has also received support from the Environment and Energy Agency (ADEME).

04.04.2019, [www.ee-news.ch](http://www.ee-news.ch)

[Link to source](#)

**Germany / Expansion plans for Ohrdorf AD plant**

Operator Ohre-Hähnchen Bioenergie GmbH has applied to the Trade Inspectorate to extend its agricultural AD plant in Ohrdorf, Lower Saxony. The plant processes poultry manure, maize silage and green rye to produce electricity and to heat the nearby chicken farm. The operators want to add another engine to the plant to increase flexibility. The annual energy capacity will not be increased by this measure.

06.04.2019, [www.az-online.de](http://www.az-online.de)

[Link to source](#)

**Poland / Proposed pig farm would supply nearby AD plant**

Two companies reportedly want to construct a so-called Renewable Pigs Research and Development Center near the village of Waplewo Wielkie, Pomeranian Voivodeship. The farm should have a capacity of 41,632 animals and would generate about 73,000 m<sup>3</sup> of manure annually, which would be supplied to a nearby biogas plant through an underground pipeline. Residents are opposing the project fiercely.

08.04.2019, [www.agropolska.pl](http://www.agropolska.pl)

[Link to source](#)

**Switzerland / AD project approved in Gros-de-Vaud**

After 8 years of planning, the Municipality of Montilliez has recently granted a building permit to operator Compostière du Gros-de-Vaud for a planned AD plant near Poliez-le-Grand, Vaud Canton. Several other locations were considered, but all had raised strong opposition by residents. The plant will mainly process manure from farms in the area and produce electricity to supply about 800 households. Some of the heat will be used on-site in order to, amongst others, dry grain or wood.

10.04.2019, [theworldnews.net](http://theworldnews.net)

[Link to source](#)

**UK / Prestige Funds finances second AD project in Kent**

London-based private finance provider Prestige Fund is funding the construction a second AD project in Kent County, Southern England. The plant is planned to produce about 700 nm<sup>3</sup>/h of biomethane to be injected into the natural gas grid. It is planned to use food and animal waste as feedstock. Prestige has agreed to provide GBP 23.2 million (EUR 26.88 million) of funding for the project. Construction is estimated to take 20 months. According to Prestige, the project is supported by the municipal council, but no details on an exact location were provided.

02.04.2019, [www.prestigefunds.com](http://www.prestigefunds.com)

[Link to source](#)

**USA / AD plant at Yakima County dairy under construction**

A biogas project at the George DeRuyter & Sons Dairy farm in Yakima County, Washington, has been launched recently. The project is called Augean Renewable Gas, which is a collaboration of Brightmark Energy, Promus Energy and DeRuyter Dairies. The AD plant will process about 150,000 gallons of dairy waste per day to produce 160,000 MMBtu of biomethane or the equivalent of 1.4 million gallons of fuel. The project will also include new pipeline infrastructure in the area. It is financially backed through a USD 1.4 million (EUR 1.24 million) grant from Yakima County and a USD 500,000 (EUR 443,555) grant from the US Department of Agriculture.

06.04.2019, [www.renewableenergymagazine.com](http://www.renewableenergymagazine.com)

[Link to source](#)

**USA / Brightmark Energy advances plans for Benson AD plant**

San Francisco-based company Brightmark Energy (BME) is progressing with plans for its proposed AD plant in Benson, Minnesota. The company is reportedly buying the former Benson Power (Fibrominn) site from Xcel Energy for USD 1.7 million (EUR 1.51 million). The council is currently finalising approval for the sale. BME plans to build a biomethane plant on the site, which would run on animal and plant waste. Initial investment for the project is estimated to amount to USD 50 million (EUR 44.38 million) for the first phase and additional USD 150 million (EUR 133.14 million) if expanded into a second phase.

05.04.2019, [www.swiftcountymonitor.com](http://www.swiftcountymonitor.com)

[Link to source](#)



### 3.2 Projects biowaste

#### **Bolivia / Tartagal and Yacuiba to cooperate on AD**

The government of Tartagal, Argentina, and the government of Yacuiba, Bolivia, have signed a pre-agreement for waste supply to a proposed biomethane AD project that will be located in Yacuiba. The plant is estimated to cost about USD 120 million (EUR 106.59 million) and would require about 300 tpd of feedstock. To secure enough supply for the planned plant, Tartagal will supply Yacuiba with the required waste volumes. Tartagal will receive two compactor trucks per year as part of the agreement, which is valid for 20 years. The agreement will now be presented to the Bolivian government to gain support for the proposed plant.

09.04.2019, [www.eldiariodemadryn.com](http://www.eldiariodemadryn.com)

[Link to source](#)

#### **Bulgaria / AD plant to be built in Ruse**

The Ministry of Environment and Water has signed a contract with the Municipality of Ruse to financially support a biogas project with BGN 25.99 million (EUR 13.28 million). This grant also includes support from the European Regional Development Fund of the European Union. The project in the city of Ruse will cost BGN 34.84 million (EUR 17.81 million). It will process separately collected organic waste from the city and the surrounding area to produce biogas for electricity and heat as well as fertiliser. Included in the project are plans to provide waste collection equipment to the municipality and the construction and operation of the plant.

10.04.2019, [www.actualno.com](http://www.actualno.com)

[Link to source](#)

#### **Spain / Tender launched for works at Madrid biogas and WtE plants**

The Governing Board has authorised a call for tenders for works on the WtE Plants Las Dehesas and La Paloma and the biomethane plants in Valdemingómez Technology Park, Madrid, in order to solve odour problems. The contract tendered for works at the biomethane plant in Valdemingómez Technology Park involves project drafting, execution and maintenance of deodorisation systems and is worth EUR 8.21 million, which includes a multi-year maintenance contract of EUR 592,869.

04.04.2019, [www.pnn.de](http://www.pnn.de)

[Link to source](#)

### **UK / Galtres appeals rejection of Tollerton AD project**

Project initiator Galtres Energy Limited has notified authorities of its intention to lodge an appeal against the decision of North Yorkshire County Council to reject its plans for a large-scale AD project near Tollerton. A public inquiry will be held, for which no date has been set yet. Galtres had planned to develop a plant to process 90,000 tpy of food waste into energy for the national grid and fertiliser. Plans featured a 22,000 m<sup>3</sup> digestate lagoon.

03.04.2019, [www.hambletontoday.co.uk](http://www.hambletontoday.co.uk)

[Link to source](#)

## **3.3 Company news**

### **USA / Roeslein Alternative Energy buys Alternate Energy Resources Group**

Roeslein Alternative Energy has acquired environmental engineering and consulting firm Alternate Energy Resources Group (AERG) after several years on cooperation on projects in Missouri. AERG mainly develops AD biogas recovery from wastewater systems. Roeslein focuses on energy from organic waste. Financial details of the deal were not disclosed.

04.04.2019, [www.biomassmagazine.com](http://www.biomassmagazine.com)

[Link to source](#)

## **3.4 Policy & others**

### **Brazil / Engie acquires 4,500 km of gas pipelines**

French energy provider Engie and Canada-based institutional investor Caisse de depot et placement du Québec (CDPQ) have bought the TAG pipeline network of Brazilian oil company Petrobras for USD 8.6 billion (EUR 7.63 billion) after more than a year of negotiations. Petrobras will retain a 10% stake in TAG. The TAG pipeline is 4,500 km long and accounts for half of the gas infrastructure in Brazil. Engie intends to replace natural gas with biomethane and hydrogen in the future.

08.04.2019, [www.la-croix.com](http://www.la-croix.com)

[Link to source](#)

### **Denmark / Seges and Nature Energy cooperate on biogas platform**

Agricultural advisor Seges and biogas producer NatureEnergy are cooperating on developing the BiogasOnline programme, which aims to facilitate cooperation between biogas actors (operators, farmers, feedstock suppliers and authorities) and data handling for AD projects. According to the companies, they have already received inquiries from potential customers.

11.04.2019, [www.maskinbladet.dk](http://www.maskinbladet.dk)

[Link to source](#)

**Ireland / Delays in second phase of SSRH scheme**

Initially planned to be launched in late 2018 or early 2019, the second phase of the Support Scheme for Renewable Heat (SSRH) is currently facing delays. An installation grant was introduced with the first phase in 2018. The expected second phase consists of operational support for AD heating systems and biomass boilers. The Department of Communications, Climate Action and Environment has stated that the second phase for SSRH applications will launch in the first half of this year.

06.04.2019, [www.independent.ie](http://www.independent.ie)

[Link to source](#)

**Poland / Greenpower fair to be held in May**

The annual renewable energy fair Greenpower will be held from 7 to 9 May in Poznań. This year's edition will be held parallel to the electricity fair Expopower. Greenpower features exhibitions on various renewable energy sources, including biogas and biofuels and also offers discussion panels and networking opportunities. For more information please visit: [greenpower.mtp.pl](http://greenpower.mtp.pl)

07.05.2019, [greenpower.mtp.pl](http://greenpower.mtp.pl)

[Link to source](#)

**USA / EPA funds AD initiatives**

As part of the "Winning on Reducing Food Waste Initiative", the US Environmental Protection Agency (EPA) is funding three AD initiatives. The Vermont Department of Environmental Conservation will receive USD 43,551 (EUR 38,730) for storage tanks and pipes at five food and beverage business to develop organic waste ADs. The Washington State University's Energy Program will receive USD 27,500 (EUR 24,457) for workshops to promote AD projects by food producers, waste agencies, and WWTPs. The city of Madison, Wisconsin, will receive USD 39,000 (EUR 34,675) for a feasibility study for organic waste collection. If feasible, a collection program and a biogas plant will be developed. The next round of funding for AD infrastructure is anticipated for later in 2019.

09.04.2019, [www.epa.gov](http://www.epa.gov)

[Link to source](#)

## 4 Solid Biomass-to-Energy

### 4.1 Projects

#### **Brazil / Andritz to supply biomass handling system to Onça Pintada project**

Austrian technology company Andritz has secured an order for a biomass handling system for the new Onça Pintada plant in Três Lagoas, Mato Grosso do Sul, Brazil. Andritz will supply two dumper trucks, a stacker reclaimer and two conveyor belts, with start-up scheduled for Q3/2020. The plant is developed by Brazilian forestry, pulp and energy company Eldorado Brasil. As reported, it will be fuelled with eucalyptus stumps and roots and will supply around 50 MWe<sub>el</sub> of electricity to the local grid. The value of the order was not disclosed.

08.04.2019, [www.andritz.com](http://www.andritz.com)

[Link to source](#)

#### **Brazil / Around 1 GW of biomass power registered in A-4 auction**

Around 1 GW of biomass power has been registered for the next Brazilian energy auction, A-4, according to state-owned energy research firm EPE. In total, 1,581 energy projects, 19 of which are biomass projects, have enrolled for the auction. Registered capacity of all renewables amount to 51.2 GW. The auction will be held on 28 June 2019 and award power purchase agreements (PPA), which will come into force on 1 January 2023.

08.04.2019, [renewablesnow.com](http://renewablesnow.com)

[Link to source](#)

#### **China / BtE project signed in Liuan**

China Everbright International Limited has announced on 10 April to have recently signed the Biomass-to-Energy CHP project phase 2 in Yeji District of Liuan City, Anhui Province. The project will be developed in BOO mode with a concession period of 30 years, processing 120,000 tons of agricultural and forestry wastes annually and providing 600,000 tons of steam, entailing a total investment of RMB 186 million.

11.04.2019, [news.bjx.com.cn](http://news.bjx.com.cn)

[Link to source](#)

**Finland / Tender issued for Vuosaari heating plant**

Finnish energy producer Helen Ltd. has released a tender for a 220 MWth biomass district heating plant in Vuosaari, Helsinki. The boiler should be based on circulating fluidised bed technology (CFB) and the main fuel will be woody biomass. Furthermore, the boiler should include a CHP reservation. Deadline for the submission of tenders for requests to participate is 28 April 2019. As reported, Helen also plans to build heating plants in the Helsinki neighbourhoods Patola and Tattarisuo, as it intends to stop burning coal by 2029.

04.04.2019, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

**France / Gellainville CHP plant inaugurated**

The 8 MWel/26 MWth biomass district heating CHP plant in Gellainville, Chartres, has been inaugurated. The plant is operational since 1 April 2019. Total investments amounted to EUR 60 million. As reported, the plant will be fuelled with 25% of untreated woodchips and 75% of lightly treated Class B wood. The project was initiated by the municipal association Chartres Métropole and the prime contractor is French engineering consulting company Cabinet Merlin. French boiler manufacturer Leroux & Lotz supplied the boiler.

04.04.2019, [intensite.net](http://intensite.net)

[Link to source](#)

**Netherlands / Council of Diemen tries to stop Nuon's project**

The Council of Diemen is looking into legal ways to stop the proposed 120 MWth biomass heating plant by Dutch utility N.V. Nuon Energy (Nuon) in the municipality of Diemen. Nuon needs to receive a declaration of no objections from the municipality, which can only be refused because of spatial planning or air quality concerns due to extra pollution, which is not the case. Furthermore, the municipality is also investigating whether it is possible to refuse to issue the certificate of residence permit. As reported, the Council already concluded a provisional agreement with Nuon in December 2018, so that Nuon could demand compensation if the permits are refused for legally invalid reasons. A final decision is expected for July 2019.

05.04.2019, [www.parool.nl](http://www.parool.nl)

[Link to source](#)

**Panama / Update on Chiriquí project**

Panamanian company Los Santos Energy, subsidiary of engineering company Global PoleTrusion Group (GPGC), has signed a 10-year power purchase agreement (PPA) for its 5 MW biomass power project in Chiriquí. The electricity will be sold to Panamanian solar energy company Generación Solar, subsidiary of Grupo Istmo Solar, which will use the biomass energy as secondary source of energy. Currently, GPGC is finalising the funding of the project together with Canadian energy development company Polaris Capital Power Inc. As reported, the plant will be fuelled with empty fruit branches from the palm oil industry. It will entail an investment of USD 13 million.

09.04.2019, [www.compelo.com](http://www.compelo.com)

[Link to source](#)

**Spain / Endesa refuses to build biomass plant in Andorra**

Spanish power company Endesa has ruled out further investments at the site of its coal-fired plant in the municipality of Andorra (Teruel), Aragón, which will be closed in June 2020. A Spanish union proposed to either build a biomass or solar thermal plant to replace the coal-fired plant. According to the power company, the proposals are not economically viable. Instead, Endesa will build a photovoltaic plant at the site.

05.04.2019, [www.elperiodicodearagon.com](http://www.elperiodicodearagon.com)

[Link to source](#)

**USA / University of Maine receives funds for RE conversion**

University of Maine System Trustees have approved funds of up to USD 5.7 million (EUR 5 million) to further the conversion from fossil fuels to RE at the Orono campus. The project should cost around USD 165 million (EUR 147 million). The university has been in talks with conglomerate Honeywell International to negotiate a long-term contract including the construction of a biomass CHP plant. Honeywell will be supported with around USD 4.2 million (EUR 3.7 million) for design, project scope and financials. Moreover, the university will receive USD 1.5 million (EUR 1.3 million). According to ecoprolog information, the 6 MW plant will be fuelled with 70,000 tpy of woodchips.

06.04.2019, [www.sunjournal.com](http://www.sunjournal.com)

[Link to source](#)



### **USA / Under construction North Fork project faces delays**

As a consequence of the bankruptcy filing of energy provider Pacific Gas & Electric (PG&E), the construction of the 2 MWe1 North Fork, California, biomass project has been delayed. PG&E signed a power purchase agreement (PPA) with North Fork Community Power, a joint venture (JV) formed for the construction of the plant in 2017. The JV has already invested around USD 4 million (EUR 3.6 million) in the project and was about to close a USD 15 million (EUR 13.3 million) bond sale necessary to further finance the project when PG&E filed for bankruptcy. Now it is unclear whether the energy provider can commit to the PPA.

*05.04.2019, sierranewsonline.com*

[Link to source](#)

## **4.2 Plants**

### **USA / Nacogdoches biomass plant up for sale**

The Nacogdoches biomass plant in Austin, Texas, is up for sale, according to the source. However, neither the current owner Southern Power nor the Austin City Council have commented on the issue yet. Southern Power entered into a 20-year power purchase agreement (PPA) with local utility Austin Energy in 2008, but, as announced in 2016, have been in a dispute over the contract. As reported, the 117 MWe1 plant has not or not consistently generated power since its start of operations in 2012. This circumstance has led to estimated annual costs of USD 54 million for the utility.

*08.04.2019, www.statesman.com*

[Link to source](#)

### **USA / NH biomass plants suspend operations**

Four biomass energy producers in New Hampshire (NH) are suspending fuel purchases and operations, due to the failure of energy provider Eversource to conclude new power purchase agreements (PPA) with six biomass plants. A plant in Whitefield already ceased operations last week, a facility in Springfield intends to do so as of 13 April. Moreover, the Pine Tree facility in Bethlehem as well as the Pinetree-Tamworth plant in Tamworth have stopped buying biomass in the end of March. According to Senate Bill 365, which became effective last year, Eversource has been forced to buy electricity from these six biomass plants at above-market rates for three years.

*05.04.2019, www.unionleader.com*

[Link to source](#)

### 4.3 Pellets, Pulp, Sugar & Co.

#### Germany / BayWa enters into agreement with pellet producer

German conglomerate BayWa AG has entered into a cooperation with pellet producer Prinz-Eugen-Energiepark GmbH (PEE). BayWa is going to take over the marketing as well as the raw material supply for the 60,000 tpy pellet plant in Bad Arolsen, Hessen. However, the production itself is not included in the cooperation agreement. PEE bought the plant in 2015 and expanded it in 2016. The company generated a net loss in the fiscal year 2017. BayWa has recently realised increasing revenues in its energy segment.

08.04.2019, [www.euwid-energie.de](http://www.euwid-energie.de)

[Link to source](#)

### 4.4 Company news

#### USA / SES sells gasification technology to AFE

US technology company Synthesis Energy Systems Inc (SES) has entered into a technology purchase option with Australian Future Energy Pty Ltd (AFE) to sell its SES Gasification Technology (SGT). With SGT, syngas can be produced from various feedstocks such as biomass and municipal solid waste. SES will keep the ownership rights for SGT in China and will own the right to hold or sell the technology in India, Brazil and Poland for three years. The company receives 1 million shares in AFE and USD 5.8 million in cash for the deal, which is to be completed until 31 July 2019. SES already holds 36% of AFE.

10.04.2019, [renewablesnow.com](http://renewablesnow.com)

[Link to source](#)

#### USA / B&W secures financing to reduce obligations for EU projects

US-based plant manufacturer Babcock & Wilcox (B&W) has announced to have secured a USD 150 million loan and an additional USD 15 million uncommitted incremental credit facility. Main lender of the loans is investment bank B. Riley FBR. With the help of the new financing, B&W has paid GBP 91.6 million (GBP 70 million) to the customers of the two remaining European projects, executed by B&W Vølund, to lower obligations under the existing contracts. Furthermore, B&W terminated its obligations on EPC services for an additional European WtE project that is not under construction so far. According to B&W, these steps were undertaken to focus on the power business benefitting from the incineration technology of Vølund and the cooling technology of B&W SPIG.

05.04.2019, [www.babcock.com](http://www.babcock.com)

[Link to source](#)

## 4.5 Policy & others

### **Germany / Updated eligibility criteria for process heat programme**

The German Federal Ministry for Economic Affairs and Energy has updated the list of eligible fuels for its support programme for renewable process heat. The programme is now open for a wide scope of woody and other biogenic fuels, including waste wood of types A1 and A2. Furthermore, agricultural businesses are included in the programme. The programme is a joint initiative by the German public development bank KfW and the Ministry. Up to EUR 10 million (maximum 55% of the investment) can be granted for an investment in a biomass plant supplying process heat. Another option is a low interest rate loan with a credit volume of up to EUR 25 million and a 55% repayment bonus.

08.04.2019, [www.euwid-energie.de](http://www.euwid-energie.de)

[Link to source](#)

### **Pakistan / Aims to reach 30% RE share by 2030**

According to the source, Pakistan will make efforts to increase the share of renewables in the country's total power generation to 30% by 2030. A plan suggesting the boost of power from wind, solar, small hydro and biomass has been made by the government. It also entails the target to expand large-scale hydropower to 30%. Currently, the share of renewables in power generation is 4% and large-scale hydropower amounts to 25% of the country's electricity supply. The Cabinet Committee on Energy (CCoE) is estimated to approve the Renewable Energy Policy 2019 including these new targets.

04.04.2019, [wwindea.org](http://wwindea.org)

[Link to source](#)

### **Poland / 110 MW of biomass capacity proposed for next auction**

As already reported, a draft amendment to Poland's Renewable Energy Sources (RES) Act made by the Ministry of Energy, 3.4 GW should be awarded in this year's renewable energy auctions. However, the draft amendment still needs to be adopted by the government so that auctions can take place this year. Under the current draft amendment, a total capacity of 110 MW of biomass power is intended to be awarded. Moreover, the proposed regulations say that smaller biomass power plants should be able to enter the feed-in tariff (FIT) and feed-in premium (FIP) system.

03.04.2019, [biznesalert.pl](http://biznesalert.pl)

[Link to source](#)

**USA / EPA works on biomass  
carbon neutrality rule**

During a hearing held by the House Committee, the U.S. Environmental Protection Agency (EPA) has announced to propose a rule that would define biomass energy as carbon neutral this summer. As reported, the EPA considers energy generated by burning wood as carbon neutral since April 2018. However, since then, the agency was also directed in appropriations bills to consult with the U.S. Forest Service and U.S. Department of Energy to provide a clear rule concerning the carbon neutrality of biomass.

09.04.2019, [www.biomassmagazine.com](http://www.biomassmagazine.com)

[Link to source](#)

## 5 Other waste streams

### 5.1 Other organic waste treatment

#### **Australia / Tamworth composting plant proposed**

The Regional Council of Tamworth, New South Wales, has proposed the construction of a EUR 9.61 million organic waste composting plant. The facility is planned to be operational within 2 years. Initial plans for the 35,000 tpy facility at a location near the city's airport were rejected, but now councillors will review the plans with a new location. The plant should include a tunnel composting system to treat the organic waste.

08.04.2019, [www.northerndailyleader.com.au](http://www.northerndailyleader.com.au)

[Link to source](#)

### 5.2 Landfills & landfill gas

#### **Canada / Calgary receives funding for landfill gas collection**

The City of Calgary has been granted CAD 5.8 million (EUR 3.86 million) in funding from the federal government to reduce methane gas emissions from Calgary landfills through a landfill gas collection project. It is expected that between 40 and 50 extraction wells can be operated with the funding, and existing system infrastructure can be upgraded.

13.03.2019, [calgaryherald.com](http://calgaryherald.com)

[Link to source](#)

#### **Germany / Contract awarded for Kaiserslautern landfill expansion**

Zentrale Abfallwirtschaft Kaiserslautern (ZAK) has awarded the contract for the expansion of the Kapiteltal landfill with a DK I landfill cell. The contract, which has a value of EUR 5.677 million, was awarded to Hermanns HTI-Bau GmbH & Co. KG and Bickhardt Bau AG.

10.04.2019, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

#### **USA / Fortistar acquires 2 landfill RNG facilities**

Fortistar LLC has acquired 2 landfill renewable natural gas (RNG) facilities located in Wester Pennsylvania, Greentree Landfill Gas and Imperial Landfill Gas, in partnership with specialty finance company Ares Capital. The facilities have the combined capacity to produce 42.5 million m<sup>3</sup> of RNG per year. The RNG is chemically identical to natural gas and can therefore be used as transportation fuel in natural gas vehicles.

04.04.2019, [www.kallanishenergy.com](http://www.kallanishenergy.com)

[Link to source](#)

### **USA / CSWM presents plan for landfill gas collection**

Comox Strathcona Waste Management (CSWM) plans to refrain from collecting landfill gas at its Campbell River site until the closure of the landfill in 2022/2023. It is applying for a timeline extension of the BC Gas Landfill Management Regulation, which would mean completing the detailed design of the collection system in 2020 and starting construction in 2021. Current plans for the closure system include a textured LLDPE membrane, topped by a geotechnical drain, protective cover soil and vegetation topsoil. 31 vertical extraction wells, a blower and flare system with a capacity of 500 cubic metres per hour and a network of pipes would collect the gas.

*03.04.2019, [www.campbellrivermirror.com](http://www.campbellrivermirror.com)*

*[Link to source](#)*

## **5.3 C&D, hazardous and others**

### **Philippines / Geocycle processes 20,000 tpy of contaminated soil in 2018**

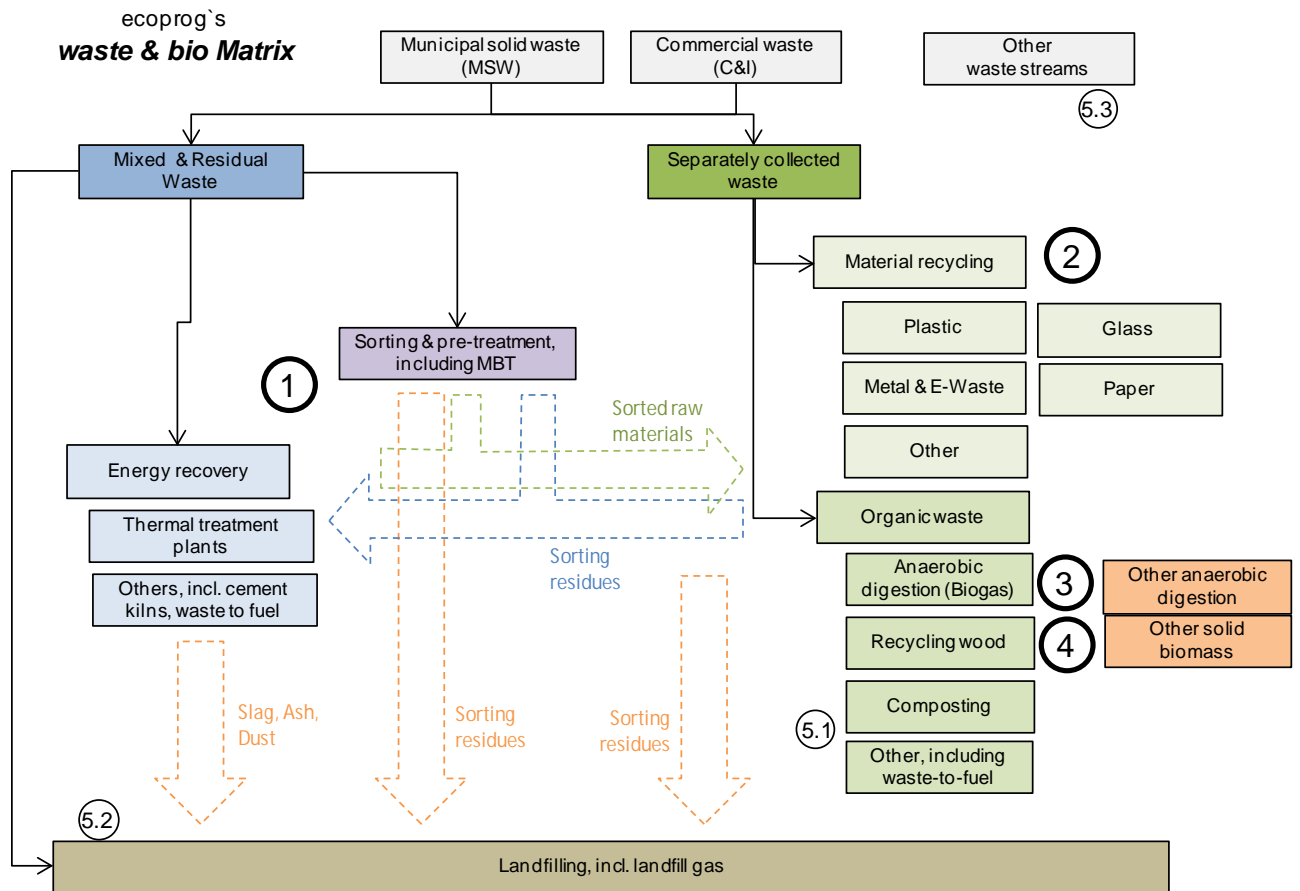
In 2018, waste management firm Geocycle Philippines pre- and co-processed 20,000 tpy of contaminated soil at the building material company Holcim Philippines' cement plant in Bulacan. The soil came from former petroleum depots in Pandacan district. As reported, Geocycle Philippines is expecting to co-process 20,000 tpy of contaminated soil in the first quarter of 2019, which is a significant increase.

*01.04.2019, [www.cemfuels.com](http://www.cemfuels.com)*

*[Link to source](#)*



## Methodology



ecoprolog's **waste & bio Infrastructure Monitor** focuses on infrastructure projects and related news in the waste and bioenergy business according to the following system:

1  
Plants for the treatment of mixed waste streams from households and businesses. This includes all mechanical technologies or biological treatment technologies. It also includes energy recovery plants, e. g. thermal treatment plants (Waste-to-Energy plants), RDF plants and cement kilns.

2  
Plants for the (further) sorting of waste streams to produce secondary raw materials that can be used by the original industry, e. g. plastic granulate for producers of plastic.

3  
Anaerobic digestion plants (biogas plants). Due to the similar technology, this chapter also regards non-waste fuels, such as agricultural feedstocks.

4  
Solid biomass power plants. Due to the similar technology, this chapter also regards non-waste fuels, such as untreated wood, black liquor or bagasse.

5  
Other treatment plants for organic waste, such as composting plants; landfill gas and large landfill projects; infrastructure for non-MSW and non-C&I waste streams, such as hazardous waste or construction & demolition waste.

## General information

ecoprogram's *waste & bio Infrastructure Monitor* is a weekly media monitoring service with a focus on the global waste and bioenergy industry. It reviews scientific, press and online sources related to the waste and bioenergy business in more than 20 countries and languages worldwide.

ecoprogram's *waste & bio Infrastructure Monitor* is compiled and issued by ecoprogram GmbH, a management consultancy in the environment and energy business.

If you should have any queries, suggestions or proposals, please feel free to contact us at any time.

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All figures, information and statements have been thoroughly researched, but we accept no liability for their correctness. Solely the statements in the complete articles of the given sources are valid.

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Issued on 12. April 2019.

The intended date of release for ecoprogram's *waste & bio Infrastructure Monitor* is 18. April 2019.