



June 25, 2021

# WASTEANDBIO

## Infrastructure Monitor

# 25 - 2021

*KVA (sewage sludge incineration plant) Zurich, Switzerland, by courtesy of Küttner Martin Technology GmbH*

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# 1 Waste-to-Energy / MBT

## 1.1 WtE projects

### **Australia / Heavy lifting services awarded in East Rockingham**

Spanish infrastructure company Acciona has contracted Australian company Marr Contracting to supply heavy lifting crane services at the East Rockingham WtE project, Western Australia. The works are expected to last until Q1/2022. The 300,000 tpy facility is worth AUD 511 million and located at the Kwinana Industrial Area near Perth. It will process residual waste from non-recyclable C&I sources. The EPC contract for the project due for completion in December 2022 is held by Acciona along with Swiss-based Hitachi Zosen Inova (HZI).

22.03.2021, [www.tradearabia.com](http://www.tradearabia.com)

[Link to source](#)

### **Belgium / IVAGO seeks new partner for WtE plant refurbishment**

Publicly-held Intergemeentelijke Vereniging voor Afvalbeheer in Gent en Omstreken (IVAGO) is seeking a private partner for the refurbishment of its WtE facility in Ghent, Flemish Region. A correspondent tender is said to be released on 25 June 2021. IVAGO's current partner is ECOV, a JV of Suez and Indaver. This agreement lasts until 2024. According to the new announcement, the company should, amongst others, manage the current WtE plant, help in the design and construction phase of the refurbishment, develop and operate the current heat and steam network, conduct feasibility studies for a possible future plant expansion and market certain waste streams. The new contract should have a duration of 18 years.

18.06.2021, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

### **China / Nanyang WtE plant ready for commissioning**

On 20 June 2021, the first phase of the WtE plant in Nanyang City, Henan Province, which was developed by China Everbright Environment Group Limited, started to accept MSW and it is now ready to be commissioned. The plant has a treatment capacity of 1,500 tpd and consists of 2x750 tpd furnaces and 2x20 MW steam turbine generator sets. The total investment of the WtE project (phase 1+2) will amount to RMB 1.506 billion (EUR 195.1 million).

22.06.2021, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**China / WtE project under construction in Shulan**

Construction of the WtE project to be developed by China Conch Venture Holdings Co., Ltd in Shulan City, Jilin Province, has begun on 18 June 2021. The project will have a treatment capacity of 400 tpd, consisting of a 400 tpd grate furnace and a 9 MW condensing steam turbine generator, entailing a total investment of RMB 260 million (EUR 33.7 million). It is expected to be operational by the end of 2022.

19.06.2021, [huanbao.bjx.com.cn](http://huanbao.bjx.com.cn)

[Link to source](#)

**China / New WtE project proposed in Huanggang**

A new WtE project is proposed to be developed at the border between Luotian and Yingshan Counties in Huanggang City, Hubei Province, and currently tendering for its developer. The project will have a treatment capacity of 600 tpd, consisting of a 600 tpd grate furnace and a 15 MW condensing steam turbine generator set, and should entail a total investment of RMB 360 million (EUR 46.6 million).

18.06.2021, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**China / WtE plant started operations in Suizhou**

After one month of running tests, the WtE plant developed by Herrel Environmental Protection Industrial Co., Ltd in Suizhou City, Hubei Province, has started operations on 16 June 2021. The plant was built in BOT mode with a treatment capacity of 600 tpd, consisting of 2x300 tpd furnaces and a 12 MW steam turbine generator set, entailing a total investment of RMB 400 million (EUR 51.8 million).

18.06.2021, [huanbao.bjx.com.cn](http://huanbao.bjx.com.cn)

[Link to source](#)

**Egypt / Small-scale WtE gasification plant inaugurated**

A small-scale WtE gasification plant has recently been inaugurated in Fayoum, Faiyum Governorate, by the Minister of Environment and the Governor of Fayoum. The 2.5 tpd project will be capable to handle solid and agricultural and converting the feedstock into fertilisers and fuel, as further stated in the source.

22.06.2021, [www.zawya.com](http://www.zawya.com)

[Link to source](#)

**Europe / B&W confirms current WtE contract in Europe**

Akron, Ohio-based Babcock & Wilcox (B&W) has announced that its B&W Renewable segment was granted a limited notice to proceed for an unnamed WtE project in Europe. As further stated, B&W Renewable is currently finalising terms with the customer on a USD 24 million contract. A full notice to proceed is expected for later in 2021. Engineering of equipment, including boiler and grate-fired combustion equipment has already started at the site, as further announced by B&W.

22.06.2021, [www.babcock.com](http://www.babcock.com)

[Link to source](#)

**France / Modernisation of Rambervillers WtE plant completed**

The modernisation works at the WtE facility in Rambervillers, Grand Est, have been completed. The EUR 66 million project by operator Suez started in 2019 and increased the capacity from 63,000 tpy to 77,000 tpy. Construction works were conducted by CNIM with equipment from Martin GmbH.

18.06.2021, [www.vosgesmatin.fr](http://www.vosgesmatin.fr)

[Link to source](#)

**Germany / New RDF facility to be constructed in Amsdorf**

Romonta EBS GmbH plans to construct an RDF facility at its site in Amsdorf, Saxony-Anhalt. Technology for the 140,000 tpy plant will be delivered by Duisburg-based Standardkessel Baumgarte GmbH, including the combustion line, steam generator and flue gas cleaning system. According to Standardkessel Baumgarte, the thermal output will be 55 MW, whereas the steam output should be 635 tph at 442 °C and pressure of 77 bar. The facility is expected to become operational in mid-2024. Romonta was taken over by energy service provider Getec in 2020 and operates two other steam generators processing RDF at the site, with a total capacity of 120,000 tpy.

22.06.2021, [EUWID Recycling & Entsorgung 25.2021](#)

**Germany / No further public consultation on Stapelfeld proposal**

The competent licensing authority has announced to refrain from holding another public consultation on the WtE project in Stapelfeld, Schleswig-Holstein. Foundation works at the site are progressing, as further stated in the source. As emerged in May 2021, plant operator EEW Energy from Waste Stapelfeld GmbH was granted a permit for an early start of construction by the State Office for Agriculture, Environment and Rural Areas. The project also includes the replacement of the existing MBT facility and adding a sewage sludge incineration plant. Due to the COVID-19 pandemic and other delays, the construction is one year behind schedule.

22.06.2021, [www.abendblatt.de](http://www.abendblatt.de)

[Link to source](#)

**India / Guntur WtE plant to be inaugurated in July**

The much-delayed WtE plant in Guntur will be ready for operations next month, according to the Andhra Pradesh Municipal Administration and Urban Development Minister. The plant is being built by Jindal ITF Urban Infrastructure Limited (JUIL). The State Government will purchase the electricity produced for INR 6.12 (EUR 0.07). Waste from Guntur, Vijayawada and nine municipalities including Mangalagiri, Tadepalli, Tenali, Chilakaluripet, Sattenapalli, Narsaraopet and Piduguralla will be utilised for power generation at the plant, as further reported.

17.06.2021, [solidwasteindia.com](http://solidwasteindia.com)

[Link to source](#)

**Italy / Tender launched for two WtE plants in Sicily**

The Regional Department of Energy and Public Utilities has launched a tender regarding two planned WtE projects in Sicily. The tender is directed for the expression of interest regarding the financing of the project. According to the document, the plants should be located in Western Sicily around Agrigento, Caltanissetta, Palermo and Trapani and in Eastern Sicily around Catania, Enna, Messina, Ragusa and Syracuse.

22.06.2021, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

**Poland / BOŚ provides co-financing for Olsztyn WtE project**

Warsaw-based Bank Ochrony Środowiska (BOŚ) will co-finance the development of the RDF plant in Olsztyn. The project has already secured funding from the Polish Development Fund, the European Investment Bank as well as several other banking institutions. Dobra Energia dly Olsztyna will own and operate the 110,000 tpy facility, which is expected to start commissioning in 2023.

18.06.2021, [www.inwestycje.pl](http://www.inwestycje.pl)

[Link to source](#)

**Poland / NFOŚiGW funds pre-RDF facility in Krosno**

Poland's National Fund for Environmental Protection and Water Management (NFOŚiGW) has announced to provide subsidies and loans totalling PLN 140 million (EUR 30.9 million) for the RDF combustion project at the Łężańska CHP plant in Krosno, Podkarpackie Voivodeship. A correspondent tender started in July 2020 and was awarded to the consortium of Instal Warszawa (consortium leader) and Dalkia Wastenergy (consortium partner). The plant was already discussed in 2016, but later stopped due to regulations. It will be established in collaboration with 28 communities and process 20,000 tpy of RDF. The thermal capacity should be 10 MW. However, according to information from early 2020, plans provide for generating both heat and electricity.

17.06.2021, [portalkomunalny.pl](http://portalkomunalny.pl)

[Link to source](#)

**Slovakia / Šaľa WtE project in EIA stages**

The WtE project in Šaľa (Šala) by Bratislava-based Ewia, which was first announced in 2019, is still being discussed. Currently, the project is in EIA stages. The Ministry of the Environment is expected to express its opinion by autumn 2021. Ewia is developing the 130,000 Centre for Circular Economy (CCE), which should include a sorting facility and 100,000 tpy WtE plant for municipal and industrial waste. As of 2019, Ewia expected the start of construction for 2023 and of operations by 2025. The energy capacity should reach up to 55,000 MWh per year, according to the 2019 report.

14.06.2021, [euractiv.sk](http://euractiv.sk)

[Link to source](#)

**South Korea / Cheonan WtE plant to be expanded**

Insun ENT subsidiary Yeongheung Industrial Environment is expected to carry out refurbishment works at a WtE plant in Cheonan, South Chungcheong Province, as indicated in the source. Once the plant extension is completed, the permitted capacity should be doubled. As further stated in the source, with 192 tpd (as of today, as ecoprolog understands), the plant is among the ten largest private facilities in South Korea. Yeongheung Industrial Environment will be borrowing KRW 42.9 billion (EUR 31.7 million) from the Korea Development Bank. Of this, KRW 41.9 billion (EUR 30.9 million) should be facility funds and KRW 1 billion (EUR 738,000) operating funds.

08.06.2021, [news.mt.co.kr](https://news.mt.co.kr)

[Link to source](#)

**Taiwan / Plans for industrial waste WtE facility in Taoyuan**

WtE company Taiwan Cube Energy (TCE) has invested in developing an around 150,000 tpy of non-hazardous industrial waste WtE plant in Taoyuan. The source does not comment further on the proposed feedstock. The plant should produce, as further stated, 160 MWh of electricity annually and is said to become the first privately-owned facility of its kind in the county. TCE receives financial backing for the project from US-based infrastructure investor I Squared Capital.

21.06.2021, [www.topics.amcham.com.tw](http://www.topics.amcham.com.tw)

[Link to source](#)

**UAE / Besix announced financial closure for Dubai WtE project**

Besix Group has announced financial closure for the Dubai WtE project at the former Warsan landfill site. Debt providers include Japan Bank for International Cooperation (JBIC), Crédit Agricole Corporate and Investment Bank, KfW IpeX-Bank, Mizuho Bank, Siemens Bank, Société Générale, Standard Chartered Bank and Sumitomo Mitsui Banking Corporation. Already in March 2021, Dubai Waste Management Company P.S.C. (DWMC) secured long-term project finance loan agreements worth USD 900 million (EUR 767.5 million) with the Japan Bank for International Cooperation (JBIC) and further private financial institutions. Early construction works started in 2020. The plant's five WtE units should be delivered in 2023 and 2024. O&M will be provided by HZI and Besix for 35 years.

21.06.2021, [www.tradearabia.com](http://www.tradearabia.com)

[Link to source](#)

**UK / EA starts public inquiry on Bridgwater WtE project**

Another public consultation has started on the Bridgwater WtE project in Somerset, England. The Environment Agency (EA) has invited residents to submit comments. Deadline for the submission of comments is 7 July 2021. The final decision on whether or not to grant permission will then be made by the EA. The plant is already under construction since 2019 and, according to information from 2020, was expected to become operational by 2021. The GBP 72 million (EUR 84.2 million) project is funded by Equitix and Iona Capital.

23.06.2021, [www.bridgwatmercury.co.uk](http://www.bridgwatmercury.co.uk)

[Link to source](#)

**UK / Nottingham Council approves Uniper's multifuel plant**

Uniper UK has received approval from the Nottingham County Council Planning Committee for its application for the East Midlands Energy Re-Generation (EMERGE) multifuel project at the site of the coal-fired Ratcliffe-on-Soar Power Station in Nottingham. In March 2021, Uniper had applied to the UK Environment Agency for an environmental permit. As ecoprolog understands, however, the source does not comment on this environmental application. The 500,000 tpy facility worth GBP 330 million (EUR 386 million) should be combusting RDF and biomass in a moving grate system. It should have an installed capacity of 49.9 MWe, about 6.5 MWe of which should be used by the site itself. The coal-fired plant at the site is due to close by 2025.

23.06.2021, [www.bbc.com](http://www.bbc.com)

[Link to source](#)

**UK / NREL's amended planning application approved**

Wiltshire Council's Strategic Planning Committee has recently voted in favour of the WtE technology change applied for by Northacre Renewable Energy Limited (NREL). The company re-applied for the planning permission for its GBP 200 million (EUR 232 million) Westbury WtE project. NREL applied for a moving grate technology in August 2020, while the original planning application based on gasification technology had been granted approval by the Council in 2019.

22.06.2021, [www.wiltshiretimes.co.uk](http://www.wiltshiretimes.co.uk)

[Link to source](#)

## 1.2 WtE plants

### France / SMTVD seeks partner for flue gas treatment overhaul

Public waste association Syndicat Martiniquais de Traitement et de Valorisation des Déchets (SMTVD) is seeking project management assistance for the modernisation of the flue gas treatment at its WtE plant in Fort-de-France, Martinique. The 2-year contract covers works including, amongst others, the analysis of solutions to improve the environmental performance, help in the consultation procedure, site monitoring and performance control operations. Tenders or requests to participate must be handed in by 19 July 2021.

21.06.2021, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

### South Korea / SK ecoplant takes over six WtE plants

SK ecoplant has acquired four companies working in the waste treatment business, adding a waste incineration capacity of 876 tpd, excluding medical waste. The first company, Cheongju, North Chungcheong Province-based Clenco, operates three WtE plants with a combined capacity of 352 tpd. SK ecoplant will acquire all of its shares, including a 60% stake held by Australian investment firm Macquarie Asset Management. Daewon Green Energy, of which SK ecoplant will purchase 100% of the shares held by E&F PE, operates a WtE facility in Cheonan. Cheonan-based Saehan Environment has two WtE plants. The fourth company acquired by SK ecoplant is medical waste incinerator DDS.

03.06.2021, [www.ekn.kr](http://www.ekn.kr)

[Link to source](#)

## 1.3 MBT & pre-treatment

### Australia / Plans for waste facility in Gunnedah

First announced in February already, there are current plans for a 250,000 tpy waste facility to be constructed in Gunnedah, New South Wales. The AUD 3.9 million project would be built at a 2.7-hectare site at Gunnedah's industrial estate. The proposal remains controversial. All 86 public submissions to the planning review opt against the project. If approved, the plant should accept waste material from Sydney. However, the source does not further comment on the feedstock or the technology to be used.

18.06.2021, [thefifthestate.com.au](http://thefifthestate.com.au)

[Link to source](#)

**Belgium / Flemish Region allocates funding for recycling hub**

The Government of Flanders is allocating EUR 30 million for a recycling hub in the region. The plant is to recycle residual waste as well as diapers, asbestos, plastics and textiles. By doing so, material cycles are to be closed. Further information on the project is not provided in the source.

22.06.2021, [afvalonline.nl](http://afvalonline.nl)

[Link to source](#)

**Croatia / New tender deadline for Piškornica waste project**

The tender for the design and construction of the Piškornica waste plant has been extended, prolonging the deadline for submitting bids to 5 July 2021. The tender for the Regional Centre for Waste Management Piškornica in Koprivnica, Koprivnica-Križevci County, has an estimated value of HRK 347 million (EUR 46.3 million). The tender by Croatian waste disposer Piškornica doo has been extended three times by now.

22.06.2021, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

**Greece / Corfu MBT plant tender prolonged again**

The tender regarding an MBT plant in Corfu has been prolonged again, now to 5 July 2021. In early June, it emerged that the deadline for submitting offers ended and three bidders had expressed interest in the construction contract. Electronic unsealing for the re-auctioned tender was due to take place on 18 June 2021. The EUR 43.9 million project with a capacity of 35,000 tpy should be developed at the Akrokefalos Temploniu site.

22.06.2021, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

**Kazakhstan / Plans for waste plants in Almaty**

Two waste facilities, one for MSW waste and one for organic waste, are planned to be constructed in the Almaty Region, Ili District. With respect to the MSW project, this unit is said to become a "full cycle waste recycling plant" using Meriolysis technology. This 120,000 tpy project, as further stated, is a cooperation with the Kazakh-Spanish company Waste Energy Kazakhstan. The total investment should amount to EUR 41.8 million.

28.05.2021, [forbes.kz](http://forbes.kz)

[Link to source](#)

**Russia / Waste facility proposed for Altai**

An MSW waste processing plant has been proposed to be built in Pervosmaysky District in the Altai Region. The project was proposed by JSC Mechanizer, which has already acquired a suitable site. As indicated by the source, a public consultation as well as the obtainment of necessary permits have yet to take place. The facility should replace the Barnaul landfill, which is due to stop operations in 2023. However, the source does not indicate further information on the future treatment technology or capacity.

18.06.2021, *tass.ru*

[Link to source](#)

**Russia / Izvestkovy landfill to receive recycling equipment**

According to the source, a not further specified Waste Management Department is considering to lease equipment most likely to set up at the Izvestkovy landfill near Yuzhno-Sakhalinsk, Sakhalin Oblast. The equipment should include mobile separation equipment for recyclable fractions as well as a waste grinder. A capacity of 90 tpd is envisaged. As the source indicates, a supplier was expected to be selected by 11 June.

31.05.2021, *sakhalin.info*

[Link to source](#)

**Spain / MSW sorting plant to be set up in Gijón**

The planned COGERSA MSW sorting plant in Serín, Asturias, has received the construction permit from Gijón City Council. The EUR 58 million is expected to be completed by late 2023. It should have a capacity of 340,000 tpy of MSW and 75,000 tpy of bulky and industrial waste. Around 84,000 tpy of raw materials, 160,000 tpy of RDF and 32,000 tpy of bio-stabilised material are expected to be recovered by the facility.

18.06.2021, *www.retema.es*

[Link to source](#)

**Thailand / SKE takes over RDF production company**

CNG and biomass power plant operator Sakol Energy (SKE) has acquired RDF processing company N15 Technology Co. SKE, as further stated in the source, plans to shift its focus to the WtE sector. The purchase was already implemented in April 2021 through a rights offering said to be worth THB 145 million (EUR 3.8 million). N15 Technology Co. operates an 80,000 tpy RDF production plant in Amata Nakorn Industrial Estate in Chon Buri. SKE intends to develop additional RDF-fired power plants in the years to come, as further announced by the company.

19.06.2021, *www.bangkokpost.com*

[Link to source](#)

**UK / New MBT plant proposed in Bradford**

Yorkshire-based Associated Waste Management (AWM) has proposed to implement a 150,000 tpy MBT plant in Bradford, West Yorkshire. AWM submitted a screening opinion to Bradford Council, which determines whether a planning application requires an EIA. The facility would be located on a lot in Ripley Road owned by AWM.

23.06.2021, [www.thetelegraphandargus.co.uk](http://www.thetelegraphandargus.co.uk)

[Link to source](#)

**Ukraine / Waste processing plant near Kharkiv to start soon**

A waste processing plant near Kharkiv (also named Kharkov), Kharkiv Oblast, is currently under construction and expected to become operational by August 2021. The plant is located at the Dergachevsky landfill. As indicated by the source, the financing of USD 44 million was secured from the World Bank. However, the source does not include further information on the implemented technology or the capacity of the facility.

22.06.2021, [www.ukrinform.ru](http://www.ukrinform.ru)

[Link to source](#)

**USA / CWR completes construction of three MRFs in Florida**

Coastal Waste and Recycling (CWR), a Pompano Beach, Florida-based recycling company, has recently completed construction of three MRFs in Florida. The plants are located in Broward County, Palm Beach County and Martin County. However, the source does not indicate further information on the facilities, such as on the envisaged capacities or the exact locations.

15.06.2021, [www.cdrecycler.com](http://www.cdrecycler.com)

[Link to source](#)

## 1.4 Company news

**France / CNIM comments on figures for Q1/2021**

French plant engineering company CNIM has reported figures for Q1/2021. Revenue of the Group's Environment & Energy segment in Q1 reached EUR 80.9 million, compared to 99 million in Q1/2020. In the sector, during the quarter under review, CNIM did not have any EPC orders, stating the progress of projects slowed down because of the COVID-19 pandemic. As of 31 March 2021, CNIM'S order book remained stable (EUR 1.15 billion) compared to the beginning of 2021 (EUR 1.19 billion). As of 31 March 2020, the order book was at EUR 1.52 billion.

16.06.2021, [cnim.com](http://cnim.com)

[Link to source](#)

**Germany / Sutco takes over Biodegma**

Ludwigsburg, Baden-Württemberg-based company Biodegma has been acquired by MBT and recycling plant developer Sutco RecyclingTechnik GmbH. Biodegma plans and builds AD treatment plants and has cooperated with Bergisch Gladbach, North Rhine-Westphalia-based Sutco for the development of MBT facilities. Biodegma will now function as a brand of Sutco and remain based in Ludwigsburg.

18.06.2021, [www.recyclingportal.eu](http://www.recyclingportal.eu)

[Link to source](#)

**1.5 Policy & others**

*No news in this category this week.*

## 2 Material recycling

### 2.1 Sorting & recycling projects

#### **Australia / New recycling projects announced in South Australia**

In the state of South Australia, eight recycling projects worth AUD 111 million (EUR 70.5 million)AUD 35 million (EUR 22 million) of which will be provided by state and federal fundings, have been announced. The projects include the AUD 12 million wastepaper and cardboard recycling plant in northern Adelaide as well as an AUD 24 million material resource facility in the south of Adelaide and an AUD 19 million glass processing plant near Gawler. The projects should have a combined annual capacity of 205,000 tons of waste. Further information on the mentioned projects is not disclosed in the source.

18.06.2021, [wastemanagementreview.com.au](http://wastemanagementreview.com.au)

[Link to source](#)

#### **Belgium / Flemish Region grants EUR 30 million for recycling hub**

The Government of Flanders is allocating EUR 30 million to a recycling hub in the region. The plant is to recycle residual waste as well as diapers, asbestos, plastics and textiles. In this way, material cycles are to be closed. Further information on the project is not provided in the source.

22.06.2021, [afvalonline.nl](http://afvalonline.nl)

[Link to source](#)

#### **Canada / Polystyvert receives funding for PS recycling plant**

Recycling technology provider Polystyvert, based in Montreal, has closed a new round of funding for the development of a full-scale polystyrene (PS) recycling plant. This round includes new investors such as European packaging provider BEWI Group, which has an annual expanded PS production capacity of around 200,000 tons, and other investors. Information on the amount of funding or details on the proposed plant is not provided in the source.

23.06.2021, [www.canplastics.com](http://www.canplastics.com)

[Link to source](#)

**Czech Republic / Přeštice  
sorting unit tender awarded**

Přeštice, Plzeň Region-based Recyklace Přeštice s.r.o.'s tender for the supply of recycling equipment at its Přeštice site has been awarded. The supply of a mobile sorting unit was awarded to Nymburk, Central Bohemian region-based Sandrock s.r.o. for an estimated contract value of CZK 3.2 million (EUR 126,000). The wheel manipulator will be installed by Neplachov, České Budějovice-based Y-CZ s.r.o. at an estimated value of CZK 3.5 million (EUR 138,000). The total contract value amounts to CZK 6.7 million (EUR 264,000).

18.06.2021, [ted.europa.eu](https://ted.europa.eu)

[Link to source](#)

**France / Douchy-les-Mines  
sorting plant tender awarded**

French recycling company Siaved's tender for the design, construction, operation and maintenance of a selective collection sorting centre in Douchy-les-Mines, Hauts-de-France, has been awarded to Schiltigheim, Grand Est-based Suez RV Nord Est. The contract value amounts to EUR 43.6 million. However, further details on the plant and equipment are not mentioned in the source.

18.06.2021, [ted.europa.eu](https://ted.europa.eu)

[Link to source](#)

**Germany / Further details on  
Quantafuel chemical  
recycling project**

Further details have been revealed on the pyrolysis project led by Norwegian Quantafuel and German companies BASF and Remondis. The plant's capacity should amount to 250,000 tpy to supply around 190 million litres of oil per year. Recycling company Remondis will partner to collect and supply the plastic waste for the plant. The location of the facility is still to be decided. It is due to be operational in 2025. Also stated in the source, German chemical company BASF will source 15 million litres of pyrolysis oil annually from Quantafuel's existing treatment plant in Skive, Denmark. Furthermore, BASF will process the oil to produce chemicals and granules that can be used to make plastics.

19.06.2021, [www.faz.net](http://www.faz.net)

[Link to source](#)

**India / Gurugram to have three new MRFs**

The Municipal Corporation of Gurugram (MCG) plans to set up MRFs for segregating waste. Currently, all the waste is taken to a secondary collection centre before being transported to the Bhandwari landfill. The MRFs will eventually replace these secondary collection points, as per the MCG's new strategy. A survey is being conducted to determine the exact quantity and type of waste that is generated across the city. This shall help determine the amount of potential waste that can be recycled and the number of facilities needed. The initial process for setting up MRFs has also begun with land being identified at three locations. As per the agreement, Ecogreen will set up the facility and maintain its operations.

25.06.2021, *solidwasteindia.com*

[Link to source](#)

**Netherlands / Obbotec receives funding for HDPE recycling**

The Municipality of Rotterdam together with the Province of South Holland have launched a fund within the EU Recovery Fund for projects in the field of circular chemistry. The six projects chosen will receive a total of EUR 7 million. One of the beneficiaries is plastics recycler Obbotec. The company aims to use Selective Plastic Extraction (SPE) to convert difficult-to-recycle plastic waste into near-virgin materials. For doing so, the company uses its own process that is somewhere between mechanical and chemical recycling, according to the source. With the funding, Obbotec announced to set up a plant processing around 1,000 tons of contaminated HDPE residual flows into clean, colourless recycled HDPE granules. However, information on the location was not disclosed.

23.06.2021, *afvalonline.nl*

[Link to source](#)

**Netherlands / New separator for Waalwijk WEEE recycling plant**

Renewi subsidiary Coolrec has installed new equipment at its WEEE recycling plant in Waalwijk, North Brabant Province. Investments amount to EUR 0.5 million. The equipment includes an electrostatic separator with an annual capacity of processing around 6,000 tons of mixed waste electrical appliances to convert them into ABS and HIPS plastic flakes. The machine was developed by the company itself.

17.06.2021, *www.recyclingmagazine.nl*

[Link to source](#)

**Poland / Further equipment installed at ZUOK Orli Staw**

Further recycling equipment for a new line has been installed at the sorting hall of the Orli Staw waste treatment plant, which has started operations in April this year. According to the source, seven optical separators for plastics, alternative fuel (RDF) and PE film as well as a ballistic separator, a belt electromagnetic separator for ferrous metals and an eddy current separator for non-ferrous metals have been installed. Investments amounted to PLN 34 million (EUR 7.5 million) gross. The modernisation works of this stage called "Eagle Pond" are expected to be completed by mid-2022.

18.06.2021, [sozosfera.pl](http://sozosfera.pl)

[Link to source](#)

**South Africa / Rare earth metal recycling pilot plant underway**

Construction works have begun at a rare earth metals recycling plant in Pietermaritzburg, KwZulu-Natal Province. The facility is constructed by lighting and electronic waste recycling company EWaste Africa, which has entered into an agreement with the University of KwaZulu Natal (UKZN) in May 2021, to develop and supply the recycling process. The process is called LPX™ and should extract the rare earth metals and mercury from the luminophosphor powder in lighting waste. The facility is expected to become operational in 2022.

17.06.2021, [www.engineeringnews.co.za](http://www.engineeringnews.co.za)

[Link to source](#)

**Thailand / Abizu starts pilot operations at WEEE recycling plant**

Japanese recycling company Abizu, based in Nagoya, Aichi Prefecture, has announced to have started demonstration operations at a new WEEE recycling plant in Thailand. According to the source, the plant includes an automated recycling line for the crushing and sorting of used electronic devices. Material that cannot be recycled at the plant should be sent to Japan for further processing. Information on the exact location and the plant's capacity as not disclosed.

16.06.2021, [www.nippo.co.jp](http://www.nippo.co.jp)

[Link to source](#)

**UK / Mick George to upgrade Peterborough site**

Waste manager Mick George Ltd has applied to Peterborough City Council for upgrading its recycling plant in Fengate, Peterborough, Cambridgeshire. The upgrade should include a new unit at the Fengate Waste Treatment Facility and increase the plant's capacity from 60,000 tpy to 75,000 tpy. The plant treats, sorts and recycles waste.

23.06.2021, [www.peterboroughtoday.co.uk](http://www.peterboroughtoday.co.uk)

[Link to source](#)

**UK / Bright Green Plastics upgrades recycling facility**

Yorkshire-based plastics recycler Bright Green Plastics has announced a seven-figure investment to upgrade its facility with new washing and extruding machinery to increase the plant's capacity. The new washing plant is designed to shred, wash, purify and granulate post-consumer plastic waste into PP and PE flakes and has a capacity of 5 tph. The new extruder has the capacity to process up to 3 tph of PP and PE plastic and allows the company to process material that could not be recycled previously. The plant's location is not disclosed in the source.

22.06.2021, [www.memuk.org](http://www.memuk.org)

[Link to source](#)

**UK / Further updates on Wastefront's tyre recycling plant**

Oslo-based Wastefront AS plans to construct a tyre recycling plant at the Port of Sunderland. The company's first recycling facility should start commercial operations in early 2024 and is planned to convert scrap tyres into carbon black for making new tyres. Moreover, liquid hydrocarbons could be used for producing chemicals or marine fuels. According to the current source, the facility should be capable to process 73,000 tpy of end-of-life tyres. Wastefront AS will partner with Devaltec, which will co-lead the development of upcoming projects for the next 5 years.

21.06.2021, [www.energylivenews.com](http://www.energylivenews.com)

[Link to source](#)

**Ukraine / Update on Kherson sorting plant**

The proposed MSW sorting plant in Berislav, Kherson, will not only sort MSW but also produce biogas, electricity and pyrolysis fuel. According to the source, it is to be equipped with a sorting line for organic waste and sludge, a biogas plant generating 5 megawatts per hour and a plant processing waste plastics into pyrolysis fuel. The construction cost is estimated to amount to EUR 25 million and construction is expected to be completed in 2022.

27.05.2021, [www.meteoprolog.ua](http://www.meteoprolog.ua)

[Link to source](#)

**USA / Plans for copper recycling plant in Shelbyville**

Already in late May, Wieland North America (belonging to Germany's Wieland Group) announced plans for a copper recycling and refining facility in Shelbyville, Kentucky. The USD 100 million facility should be capable of processing more than 100,000 tpy of copper annually. The plant should include fire-refining, shredding, sorting and further processes to upgrade scrap. The material could then be used in Wieland foundry operations and offered at the market. The facility is due to start in late 2022.

22.06.2021, [www.recyclingtoday.com](http://www.recyclingtoday.com)

[Link to source](#)

**USA / Update on IRG's Erie PRF**

US-based International Recycling Group's (IRG) plastics recycling facility (PRF) in Erie, Pennsylvania, will entail investments of USD 150 million (EUR 126 million) instead of USD 100 million (EUR 84 million), as previously announced. Additionally, the operational date has been changed from 2022 to 2023. As further stated in the source, within five years, the plant is expected to sort around 500 million pounds of PET, HDPE and PP polymers, which is to be processed into washed flakes on-site. The source does not specify whether this figure relates to the plant's annual capacity.

22.06.2021, [resource-recycling.com](http://resource-recycling.com)

[Link to source](#)

**USA / Air permit for Cass County zinc recycling facility**

Logansport, Cass County-based Waelz Sustainable Products' (WSP) zinc recycling facility in Cass County has obtained an air permit from the Indiana Department of Environmental Management. According to the source, this will allow the company to complete construction at the USD 110 million (EUR 92 million) plant. Operations are expected to start later this year, probably in Q3. WSP is a JV between Indianapolis-based Heritage Environmental Services and Monterrey, Mexico-based Zinc Nacional.

21.06.2021, [www.insideindianabusiness.com](http://www.insideindianabusiness.com)

[Link to source](#)

## 2.2 Sorting & recycling plants

*No news in this category this week.*

## 2.3 Company news

### Germany / Remondis takes over Papier Recycling Pfalz

Lünen, North-Rhine Westphalia-based waste manager Remondis has taken over Edenkoben, Rhineland-Palatinate-based paper recycler PRP Papier Recycling Pfalz GmbH. The takeover is effective from 1 June, according to the source. PRP's site is located in close proximity to Remondis' site in Edenkoben.

22.06.2021, *EUWID Recycling & Entsorgung 25.2021*

### Japan / Mitsubishi Chemical signs international license agreement

Japanese company Mitsubishi Chemical Corporation (MCC) has signed a license agreement with UK start-up Mura Technology and US industrial manufacturer KBR for its hydrothermal process HydroPRS, which can be used for the chemical recycling of plastic waste. As announced by Mura Technology last week, it is its first international license contract. Construction of the first plant using the HydroPRS process has already begun in Teesside, England. As further stated, Mura Technology plans to cooperate with US engineering group Wood and German plastics company Igus for further developing the process. Mura wants to build several facilities with a total capacity of up to 1 million tons at different locations.

22.06.2021, *plasticker.de*

[Link to source](#)

### Netherlands / PreZero seeks external plastic sorting capacities

Due to a fire at its 90,000 tpy waste plastic, metal and drinking cartons sorting plant in Zwolle, PreZero Netherlands is currently looking for external sorting companies to sort the plastics waste it originally processed at the plant. According to the source, the facility will have to be demolished and rebuilt. It is not yet known when it will be fully operational again. However, PreZero continues to receive daily supplies of waste, which it is sorting at external facilities in order to reduce the impact of the fire and to continue selling recycled polyethylene (rPE) and recycled polypropylene (rPP).

21.06.2021, *www.icis.com*

[Link to source](#)

**Philippines / Coca-Cola partners on PET collection and recycling**

Coca-Cola Beverages Philippines, Inc. (CCBPI) is partnering with Philippine Business for Social Progress (PBSP) and social enterprise Plastic Flamingo for collecting and recycling PET packaging. Among the measures to be implemented is collecting 500 tons of plastic waste in Metro Manila over one year. Moreover, as further stated, Coca-Cola Philippines intends to accelerate the development of its current PET recycling facility in General Trias, Cavite. This project is a JV between CCBPI and Bangkok-based chemical company Indorama Ventures (IVL).

19.06.2021, *manilastandard.net*

[Link to source](#)

**UK / Sibelco takes over Veolia glass recycling business**

Antwerp, Netherlands-based Sibelco's UK branch Sibelco Green Solutions (SGS) UK Ltd has taken over UK waste management company Viridor's glass recycling division. According to the source, SGS hopes to complete the transaction by 1 June. The takeover includes Viridor's recycling plants in Newhouse, Sheffield and Peterborough. Details on the transaction were not disclosed.

23.06.2021, *www.letsrecycle.com*

[Link to source](#)

**UK / DS Smith reports 2020-21 financial results**

On 22 June, paper mill and recycling company DS Smith has reported on its financial figures for the year of 2020-21. According to the source, profit before tax fell by 37% to GBP 231 million (EUR 270 million) and revenues by 1% to GBP 6 billion (EUR 7 billion), compared to the previous year. The company justifies this with the effects of the COVID-19 pandemic. Due to safety measures, profitability in Q1 fell significantly, according to the source. However, the company is optimistic for the coming year and said all its sites were fully operational. Further details on the financial results were not disclosed.

22.06.2021, *www.letsrecycle.com*

[Link to source](#)

### **USA / Chevron Phillips, Braven Environmental enter agreement**

Recycling company Braven Environmental has entered a long-term agreement with Chevron Phillips Chemical LLC to supply its pyrolysis-derived feedstock, Braven PyChem. Chevron Phillips, a producer of petrochemical products, has already started receiving the feedstock from Braven's commercial facility in North Carolina, which has been operational since last year. Braven plans to establish its second facility in Virginia this year, which will be an additional supply source of feedstock. As further stated, Braven is determined to announce additional plans for new facilities.

21.06.2021, [www.chemengonline.com](http://www.chemengonline.com)

[Link to source](#)

## **2.4 Policy & others**

### **Australia / Government reveals RMF funded projects**

A list provided by the Government of Australia provides information on all the projects to receive funds through the AUD 190 million (EUR 120.7 million) Recycling Modernisation Fund (RMF). As of October 2020, the Government has allocated AUD 250 million (EUR 158.7 million) for the 4-year stimulus programme aimed at modernising the country's recycling infrastructure. Part of this programme is a new RMF. For the full list as of 10 June 2021 please see:

<https://www.environment.gov.au/protection/waste/how-we-manage-waste/recycling-modernisation-fund/state-territory-agreement-announcements>

22.06.2021, [www.environment.gov.au](http://www.environment.gov.au)

[Link to source](#)

### **Germany / Audi comments on chemical recycling of plastic waste**

In a recent statement by German automotive manufacturer Audi, the company has claimed that chemical recycling of mixed plastic waste would be technically feasible. As part of THINKTANK Industrial Resource Strategies, Audi has been working with researchers from the Karlsruhe Institute of Technology for six months on a pilot project for the chemical recycling of plastics from automotive manufacturing. Tests were carried out to determine the extent of which automotive plastic fractions can undergo chemical recycling. As further stated, Audi is planning to develop and research the industrialisation of the process.

23.06.2021, [waste-management-world.com](http://waste-management-world.com)

[Link to source](#)

**South Korea / Government promotes chemical recycling**

South Korea plans to convert 10% of the plastic waste to be converted into oil by using pyrolysis by 2030. To increase the use of chemical recycling, the Government plans to revise regulations and offer certified emission reductions to companies that use oil made from waste plastic. Officials are also looking to use pyrolysis to create syngas for the production of methanol and ammonia. Additionally, earlier this month, SKC, a subsidiary of chemical group SK, announced a collaboration with Japanese partner Kankyo Energy to install pilot pyrolysis facilities and develop the technology by H1/2022. The commercial launch of the service is expected in 2023 and the new facility should handle 50,000 tpy of plastic waste to produce around 35,000 tpy of oil.

22.06.2021, [recyclinginternational.com](https://www.recyclinginternational.com)

[Link to source](#)

**Spain / Repsol, Axens & IFPEN with new chemical recycling process**

Spain-based energy and petrochemical company Repsol and French companies Axens and IFPEN have developed a process named Rewind Mix to improve the chemical recycling of plastic waste. The patented process is capable of removing impurities, such as silicon, chlorine, diolefins and metals, from pyrolysis oils produced. This should allow the direct feed to petrochemical units without dilution. The partners have already tested the process with different types of pyrolysis oils at both the Repsol Technology Lab in Spain and further facilities by IFPEN. Study of its first industrial application will be conducted in a Repsol facility. Axens' task would be to commercialise the technology through licensing.

23.06.2021, [www.chemengonline.com](https://www.chemengonline.com)

[Link to source](#)

## 3 Anaerobic digestion / biogas

### 3.1 Projects agriculture

#### Canada / Dundalk Eco Park AD project further delayed

The project by renewable energy company Petawawa Renewable Power to build an AD plant at the Dundalk Eco Park in the township of Southgate, Ontario, is facing further delays. The project received one more extension to its 2017 contract, due to adjustments to the site that were recently made and now need to be recognised in the Environmental Compliance Approval process. The deal will now close no later than 31 December 2021. Plans provide for the AD plant to treat food waste and agricultural waste to produce biomethane, which should be marketed through pipeline operator Enbridge.

22.06.2021, [www.wellandtribune.ca](http://www.wellandtribune.ca)

[Link to source](#)

#### Canada / Biomethane plant to be built in Clayhurst

After the approved biomethane purchase agreement between natural gas and electricity deliverer FortisBC and Matter Global Solutions in March 2020, company Scovan Engineering plans to install the biomethane plant in Clayhurst, British Columbia. It should process agricultural waste and dedicated crops to produce 250,000 GJ of biomethane. Scovan will be responsible for engineering, procurement and construction of the plant. The project represents both the first large-scale dry AD project in North America and one of the largest non-landfill RNG projects in Canada so far.

18.06.2021, [www.bioenergy-news.com](http://www.bioenergy-news.com)

[Link to source](#)

#### France / Saint-Gelais AD plant to be presented in July

In Saint-Gelais, Nouvelle-Aquitaine, the Municipality is organising a meeting on the construction of a planned AD plant. In 2020, there was a meeting with a representative of biogas producer TechniqueBiogaz. In order to explain and present the operation of the planned AD plant, another meeting should now be held in July. According to previous sources, the planned AD plant should be developed as an extension of the Pis-Aller farm and produce biomethane for the GrDF grid.

24.06.2021, [www.lanouvellerepublique.fr](http://www.lanouvellerepublique.fr)

[Link to source](#)

**France / AD plant  
commissioned in Viriat**

SAS Jugnon Biogaz, an association of farmers, has developed a new AD plant in Viriat, Ain, Auvergne-Rhône-Alpes. The plant injects biomethane into the GrDF network since 2 June 2021. According to the company's registration papers, the plant treats 29,000 tpy of manure, vegetable waste and whey in two 2,602 m<sup>3</sup> digesters and produces 2,918,518 Nm<sup>3</sup> of biogas annually. The biogas is upgraded to inject 180 Nm<sup>3</sup>/h of biomethane.

23.06.2021, [www.enviscope.com](http://www.enviscope.com)

[Link to source](#)

**France / Brevans AD plant is  
now operational**

The AD plant by company Dole Biogas SARL in Brevans, Bourgogne-Franche-Comté, is now operational. The unit reinjects 10% of biogas into the distribution network of the surrounding region. According to earlier sources, the site is supposed to include two 1,250 m<sup>3</sup> dry digesters and a 2,034 m<sup>3</sup> wet digester to process 97.5 tpd of manure, green waste and straw as well as a biogas upgrading plant. Furthermore, it should generate 1,120 kW<sub>th</sub> of heat and 2,750 kW<sub>el</sub> of electricity.

23.06.2021, [www.bienpublic.com](http://www.bienpublic.com)

[Link to source](#)

**France / AD plans for  
Grandvillage-et-le-Perrenot**

The company Naturalgie, an association of farmers, plans to develop an AD plant in Grandvillage-et-le-Perrenot, Bourgogne-Franche-Comté. The project was originally proposed to be built in Devecey in 2017, but was withdrawn after concerns from the Municipality. Plans now provide for the plant to process 36,000 tpy of energy crops to produce biogas, which should be upgraded to biomethane and injected into the distribution network of Grand Besançon. The plant should cover 5 to 10% of the energy consumption of the Greater Besançon area. Investment costs are estimated to amount to EUR 10 million. The project requires an ICPE procedure (installation classified for environmental protection).

21.06.2021, [www.estrepublicain.fr](http://www.estrepublicain.fr)

[Link to source](#)

**France / Update on new AD project in Oroër**

The building permit for a new AD project in Oroër, Hauts-de-France, has to be submitted soon, according to the source. However, the project faces resistance from local residents because they fear nuisances. The AD project initiated by farmers in the region aims to supply around 3,000 households with biomethane. Start of operations is anticipated for the first quarter of 2023. Energy crops as well as other agricultural waste should serve as input for the plant.

20.06.2021, [premium.courrier-picard.fr](https://www.premium.courrier-picard.fr)

[Link to source](#)

**France / AD plant starts operations in Y**

A new AD plant has started operations in Y, Hauts-de-France. The plant was developed through a collaboration of two local farmers and biogas company Groupe Létang, which now has six AD plants in northeastern France. The plant treats 30 tpd of agricultural waste such as beet pulp and energy crops to produce 1.5 million m<sup>3</sup> of biogas annually, which is sold to energy supplier Engie.

18.06.2021, [premium.courrier-picard.fr](https://www.premium.courrier-picard.fr)

[Link to source](#)

**France / AD plant approved in Frévin-Capelle**

The Prefecture of Pas-de-Calais has granted approval to plans by SARL Green Artois to develop an AD plant in Frévin-Capelle, Hauts-de-France. The project had previously been the subject of a public consultation. According to earlier sources, the plant should treat 17,200 tpy of plant waste, energy crops and livestock effluents to produce biogas, which should be upgraded to 190 Nm<sup>3</sup>/h of biomethane for the GrDF network.

18.06.2021, [www.lavoixdunord.fr](http://www.lavoixdunord.fr)

[Link to source](#)

**Italy / No to biomass storage at Santa Maria a Monte plant**

The Regional Administrative Tribunal (TAR) of Tuscany has decided against the set-up of a biomass storage at the Santa Maria a Monte AD plant. The decision follows longstanding court proceedings concerning the granting of a building permit for the additional storage. Plant operator Prati Bioenergia Società Agricola received a single authorisation for its biogas plant in 2012. Since 2014, the company has intended to expand the storage capacities at the existing facility. The TAR has now concluded that a single authorisation issued by the Region would be needed for the expansion of the plant. Therefore, Prati Bioenergia Società Agricola needs to start the procedure for a service conference. A final decision on the subject will then be made based on its outcome.

*23.06.2021, [iltirreno.gelocal.it](http://iltirreno.gelocal.it)*

[Link to source](#)

**Italy / Verolanuova AD plant started operations**

The Bio Industria AD plant in Verolanuova, Brescia, is now operational and started to produce liquefied biomethane. The Verolanuova plant supplies the service stations served by TotalEnergies. It is capable of processing 47,000 tpy of livestock waste and agricultural biomass and produces up to 5 tpd of biomethane, adding up to a total of 1,800 tpy. The project was developed through a collaboration signed in 2020 between alternative investments company Green Arrow Capital Group and renewable energy developer Lazzari & Lucchini Group.

*17.06.2021, [www.trasportoeuropa.it](http://www.trasportoeuropa.it)*

[Link to source](#)

**Spain / AD plant announced in Lliria**

A new AD project has been announced in Lliria, Valencia. Spanish energy engineering company Genia Bioenergy, supported by Enagás, will develop the 90,000 tpy facility that is supposed to treat the organic waste from agri-food and livestock activities of Lliria and the region. The biogas will be upgraded to biomethane and delivered through the gas grid to around 8,500 households. Once operational, the plant should produce around 13 million m<sup>3</sup>/y of biomethane. Commissioning is expected for early 2024.

*21.06.2021, [www.retema.es](http://www.retema.es)*

[Link to source](#)

**USA / Construction on Greenleaf AD plant to start soon**

Construction at the BC Organics AD project in Greenleaf, Wisconsin, is scheduled to begin on 24 June. AD technology company Dynamic Group is the developer, owner and operator of the plant, while Miron Construction Co will build the plant and architectural services firm McMahon Group will serve as the engineering partner. Once completed, the plant should include 16 AD units to process more than 360 million gallons of dairy manure from associated farms annually. Dynamic received a grant from the State of Wisconsin to develop the project.

23.06.2021, [www.bioenergy-news.com](http://www.bioenergy-news.com)

[Link to source](#)

**USA / Athena RNG project to be completed in December**

The Athena RNG project in South Dakota by San Francisco-based company Brightmark, which has been under construction since last year, is expected to be completed by mid-December 2021. The project should generate about 217,000 MMBtu of biomethane annually. Brightmark is building AD units at Boadwine Farms, Pioneer Dairy and Moody Dairy farms, all located in Minnehaha County, to process cow manure into biomethane. The plants should be connected to the Northern Natural Gas interstate pipeline in Baltic.

21.06.2021, [www.pipestonestar.com](http://www.pipestonestar.com)

[Link to source](#)

**USA / AgLand Renewables to develop AD plants in California**

AgLand Renewables LLC (AgLand), subsidiary of AD developer CleanBay Renewables Inc., has received a USD 1.7 million (EUR 1.43 million) tax credit from the Governor's Office of Business and Economic Development (GO-Biz) through the California Competes programme. AgLand plans to use the credit to develop at least two AD plants in the Central Valley over the next five years. The first projects should be realised in Kings and Merced Counties and be operational by 2024. The plants should process poultry waste to produce biogas to be used as fuel.

21.06.2021, [thebusinessjournal.com](http://thebusinessjournal.com)

[Link to source](#)

### **USA / Jerome biomethane cluster to be expanded**

RNG company Montauk Renewables Inc. has announced plans to expand its dairy AD cluster project in Jerome, Idaho. According to the source, the company intends to increase the project's digestion capacity by up to 160,000 gallons per day (gpd). This expansion relates to a recent amendment to the project's feedstock arrangement, which provides for around 65,000 gpd in minimum feedstock supply. Biomethane production could thereby be increased by up to 300 MMBtu per day. Costs for the expansion are estimated to amount to USD 18 million (EUR 15 million), of which Montauk expects to invest up to USD 5 million (EUR 4.1 million) this year. The initial stages of the expansion should be operational mid-2022.

17.06.2021, [www.bioenergy-news.co](http://www.bioenergy-news.co)

[Link to source](#)

## **3.2 Projects biowaste**

### **Egypt / AD plant inaugurated in Qalhana**

An AD plant has been officially inaugurated in the village of Qalhana, Fayoum. Energy is produced from biogas, using MSW as well as agricultural residues as input for the plant. However, no details on the size and ownership of the facility are disclosed in the source.

23.06.2021, [www.egyptindependent.com](http://www.egyptindependent.com)

[Link to source](#)

### **Finland / Further details on Kalajoki AD project**

According to the source, a tender should be issued soon concerning the construction of the Kalajoki AD project, Northern Ostrobothnia. The joint project of water supply company Vesikolmio Oy and waste management company Vestia Oy should be located near the Vesikolmio wastewater treatment plant. Both partners plan to develop a plant with a capacity of roughly 12,500 to 15,000 tpy. The proposed plant should treat sewage sludge from Vesikolmio and separately collected biowaste from Vestia. It is planned to produce around 8,000 MWh of energy annually and deliver heat to around 800 detached houses.

22.06.2021, [www.keskipohjanmaa.fi](http://www.keskipohjanmaa.fi)

[Link to source](#)

**France / Sicoval considers biomethane production in Toulouse**

Elected representatives of the Communauté d'agglomération du Sicoval, Occitanie, have decided to launch a feasibility study regarding the development of AD units in the territory, southeast of Toulouse. According to the source, Sicoval favours two or three small-scale units rather than one of medium size. However, no concrete project has been launched yet. The feasibility study will have a budget of EUR 40,000 and will partly be financed by the French Agency for Ecological Transition ADEME.

22.06.2021, [actu.fr](#)

[Link to source](#)

**France / Tender launched for Grenoble AD plant**

The municipal waste management department of the Grenoble-Alpes Métropole (GAM) association of municipalities has launched a tender for the design, construction, operation and maintenance of an AD plant in Murianette, near Grenoble, Auvergne-Rhône-Alpes. An existing composting unit should also be modernised. The contract has a value of EUR 20 million and a duration of 93 months. Tenders must be submitted by 26 July 2021.

18.06.2021, [ted.europa.eu](#)

[Link to source](#)

**Germany / HZI and Eggersmann to build Stuttgart AD plant**

The tender for the construction of the AD project in Stuttgart-Zuffenhausen, Baden-Württemberg, has been awarded to a consortium of plant manufacturers Hitachi Zosen Inova (HZI) and Eggersmann. HZI will be responsible for the delivery of the waste processing plant, the Kompogas dry fermenter and separation technology. Eggersmann is in charge of the composting unit, the exhaust air treatment and structural engineering. The tender was issued by municipal waste disposer Abfallwirtschaft Stuttgart, which intends to treat 35,000 tpy of separately collected biowaste from households in Stuttgart in the plant. Some of the biogas should be used in an on-site CHP facility, with the produced power supplied to the grid, and partly transferred to car manufacturer Porsche AG.

22.06.2021, [EUWID Recycling & Entsorgung 25.2021](#)

**Japan / Construction of Yorii AD plant completed**

The construction of a new dry AD plant in Yorii, Saitama Prefecture, has been completed. The plant was developed for waste and energy company ORIX Resource Recycling, subsidiary of Orix Group. It will process up to 100 tpd of food waste and have a capacity of 1,600 kW. Commercial operations are scheduled to begin in January 2022.

21.06.2021, [www.nippo.co.jp](#)

[Link to source](#)

**Kazakhstan / ZOR-Biogas to set up AD plant in Almaty**

A waste processing facility with a capacity of 100,000 tpy, including an AD plant for the treatment of organic waste, is planned to be set up in Ili District, Almaty Region. Once operational, the plant should generate power and produce biocarbon and fertiliser. Developer of the project is the company LLP ZOR-Biogas. Total project costs amount to EUR 7.5 million. Apart from this project, another waste recycling facility is planned in the district. For both projects, agreements were closed with the Kazakh LLP "Settlement and financial centre for support of renewable energy sources".

28.05.2021, *forbes.kz*

[Link to source](#)

**Spain / Enagás considers AD project**

Within the framework of an energy transition project proposed by Spanish energy provider Endesa and Spanish natural gas grid operator Enagás to the City of Melilla, Enagás also considers building an AD plant. The AD project should be carried out by Enagás' subsidiary Enagás Renovables and process MSW into biomethane.

16.06.2021, *www.energetica21.com*

[Link to source](#)

**UK / HoSt plans AD plant in Ilkeston**

Dutch biogas plant supplier HoSt plans to build an AD plant in Ilkeston, Derbyshire. The plant should process up to 40,000 tpy of liquid food waste and green waste from the Stanton Recycling site via AD and membrane biogas upgrading technology. It is expected to produce approximately 3.5 million Nm<sup>3</sup>/year of biomethane for gas grid injection and distribution through gas supplier Cadent. Start of operations is scheduled for October 2021.

22.06.2021, *www.bioenergy-news.com*

[Link to source](#)

### **Ukraine / Third stage of Teofipol AD plant launched**

According to the source, Ukrainian plant operator LLC Teofipol Energy Company has launched the third stage of its AD plant in Teofipol, Khmelnytsky Region. The existing AD facility located at the site of the Teofipol sugar plant was built in two stages and now operates at a combined capacity of 15.6 MW. The third stage will add another 6 MW. The plant is entitled to receive a feed-in tariff of 12.39 EURct/kWh. It digests silage, sugar pulp and manure.

*17.06.2021, khm.depo.ua*

[Link to source](#)

## **3.3 Company news**

### **USA / Big Ox AD plant lawsuit partly settled**

South Sioux City Council has agreed to pay USD 500,000 (EUR 420,369) in order to settle its part in several lawsuits filed against the city and a former AD plant in South Sioux City, Nebraska. The lawsuits were filed by residents who accused the plant of air pollution. According to the source, the arbitration calls for the city, the former plant operator Big Ox Energy, three insurance companies and two companies to pay a total of USD 1.75 million (EUR 1.5 million). Bio Ox Energy was accused of several environmental violations before it ceased operations of the plant in 2019.

*16.06.2021, www.wowt.com*

[Link to source](#)

### **France / GrDF plans six biogas plants**

French gas distributor GrDF plans to implement the construction of six AD projects in cooperation with local authorities and the Indre-et-Loire Energy Syndicate (Sieil) by 2025. The target is to achieve 10% of gas consumption in the Indre-et-Loire department. Some of these facilities should also include biomethane upgrading, e.g. the planned AD project in Chinon. Currently, there are two biomethane production units connected to the public gas network in the department. One is located close to the La Riche wastewater treatment plant and processes sludge and the other one is an agricultural AD with biomethane production in Louroux. Both provide biomethane for more than 5,000 households.

*23.06.2021, www.lanouvellerepublique.fr*

[Link to source](#)

### 3.4 Policy & others

#### **Canada / Call for proposals for Clean Fuels Fund**

The Government of Canada has launched a CAD 1.5 billion (EUR 1 billion) Clean Fuels Fund and a call for project proposals for the production of clean fuels. Applications must be submitted by 29 September 2021. Eligible fuel types include, amongst others, biomethane, hydrogen and ethanol. The first component of the fund provides CAD 1.38 billion (EUR 940 million) for the construction of new or the expansion of existing clean fuel production facilities. The Department of Natural Resources Canada will provide funding for up to 30% of the total project costs at a maximum of CAD 150 million (EUR 102.2 million) per project.

23.06.2021, [www.biomassmagazine.com](http://www.biomassmagazine.com)

[Link to source](#)

#### **Germany / 14th Biogas Innovation Congress to be held online**

The 14th edition of the Biogas Innovation Congress will take place on 23 and 24 June 2021. For the second time, the event will take place as an online event. This year's congress will focus on innovations and new perspectives for operators of biogas plants as well as optimisation of system technology and process engineering, marketing and substrate use. For more information please visit the link to the source.

23.06.2021, [www.biogas-innovationskongress.de](http://www.biogas-innovationskongress.de)

[Link to source](#)

## 4 Solid Biomass-to-Energy

### 4.1 Projects

#### China / BtE plant goes online in Wuzhai County

Reportedly, the Biomass-to-Energy plant developed by Wuzhai Guoyao Green Energy Co Ltd in Wuzhai County, Shanxi Province, has completed 168h full load commissioning and started commercial operations on 11 June 2021. The plant has an installed capacity of 30 MW, consisting of a 130 tph CFB furnace and a 30 MW steam turbine generator set, entailing a total investment of RMB 300 million. The plant will be able to process 300,000 tons of agricultural wastes annually.

21.06.2021, [news.bjx.com.cn](https://news.bjx.com.cn)

[Link to source](#)

#### Italy / Update on Rivarolo biomass plant

Engineering company Eko Ge.Fin has not submitted an alternative location proposal for its planned biomass plant in Rivarolo Mantovano and consequently, the authorisation process for the construction and operation of the plant was closed by the Province. As reported earlier, Eko Ge.Fin planned to build a biomass plant to generate 1 MWe of electricity and 4 MW of heat near the Oglio Po Hospital. Since the location was no longer available, officials granted a time span of one month to search an alternative location.

19.06.2021, [www.gazzettadimantova.gelocal.it](http://www.gazzettadimantova.gelocal.it)

[Link to source](#)

#### Japan / Nanbu-cho plant starts operations in Yamanashi

Energy company Nanbu-cho BiomassEnergy, subsidiary of construction consulting company Chodae, has announced the start of commercial operations at the Nanbu-cho biomass power plant in Nanbu Town, Yamanashi Prefecture. The plant has an output of 800 kW and is fuelled by woodchips. Construction was completed on May 21 and the facility was commissioned the day after.

23.06.2021, [www.rim-intelligence.co.jp](http://www.rim-intelligence.co.jp)

[Link to source](#)

**Japan / Update on AritaGawa Biomass plant**

Energy company Shin Energy has updated on the construction of the small-scale biomass plant AritaGawa with a planned capacity of 0.9 MW in Aritagawa Town, Wakayama Prefecture. Contrary to earlier statements, operation start is now scheduled now for May 2022. The plant should use 10,000 tpy of woodchips derived from residual wood.

21.06.2021, [www.rim-intelligence.co.jp](http://www.rim-intelligence.co.jp)

[Link to source](#)

**Japan / Takeei plans 10 MW biomass project in Tokken City**

Japanese recycling company Takeei Group considers to built a 9,990 kW biomass plant in cooperation with local forestry company Marutosi in Tokken City, Chiba Prefecture. The plant should be constructed on the site of the Chiba Prefecture Timber Market Cooperative and be fuelled with woodchips from local forestry companies and trees that were damaged by disease or typhoons in 2019. Operation start is scheduled for 2024.

21.06.2021, [www.rim-intelligence.co.jp](http://www.rim-intelligence.co.jp)

[Link to source](#)

**Japan / eRex to convert power plants to biomass use**

Energy producer eRex has announced plans to acquire four fully depreciated coal-fired power plants with a capacity between 150 MW to 500 MW from major power companies in the regions of Kanto, Hokuriku and Shikoku in order to convert them to using biomass. Currently, eRex is installing storage facilities and crushers for biomass fuel at the sites. Operation start is scheduled for 2022, but starting with a fuel mix of coal and 30% of biomass. The biomass share is to be successively increased until the plants run on biomass only in 2025. The produced electricity is to be directly sold to consuming companies. According to the source, eRex pays several billion JPY for the power plants.

21.06.2021, [www.asia.nikkei.com](http://www.asia.nikkei.com)

[Link to source](#)

**Netherlands / Sabic plans to invest EUR 100 m in new biomass plant**

Chemical group Sabic plans to invest approximately EUR 100 million in a new biomass plant in Bergen op Zoom, Noord-Brabant. The plant should be fuelled with sawdust, waste wood and pruning wood. Operation start is scheduled for the end of 2023. According to the source, the plant will be able to run on hydrogen as well and the fuel switch will take place as soon as the needed infrastructure is available.

18.06.2021, [www.bndestem.nl](http://www.bndestem.nl)

[Link to source](#)

### **Portugal / Environmentalists against conversion of Pego plant**

Portuguese energy company Trustenergy, French utility Engie and Japanese corporation Marubeni plan to convert their jointly owned coal-fired plant in Pego with a capacity of 628 MW to biomass use. The plant should be fuelled with forestry residues. According to the source, the converted plant would need approximately 5 million tons of green wood annually. The conversion should be financed under the EU's Just Transition Fund and Recovery and Resilience Plan. Environmental activists criticise the plans, claiming that the fuel procurement would include imported pellets and fast growing plants such as eucalyptus.

22.06.2021, [www.scoop.co.nz](http://www.scoop.co.nz)

[Link to source](#)

### **UK / Artex receives funding for biomass heating**

Construction products distributor Artex, subsidiary of Saint-Gobain Group based in Nottinghamshire, receives GBP 300,000 (EUR 349,000) from the Saint-Gobain's INVEST Carbon Fund to install a biomass heating system. Funding is directed to businesses aiming to reduce their carbon emissions. However, the source does not entail any information on the capacity or construction process of the heating system. Apart from Artex, two other companies received funding totalling GBP 350,000 (EUR 407,000) for carbon-reducing activities.

21.06.2021, [www.bioenergy-news.com](http://www.bioenergy-news.com)

[Link to source](#)

### **USA / Proposal to switch to biomass on Oahu**

Since the AES's Barbers Point Coal Plant in Oahu, Hawaii, will be shut down in September 2022, the future of Hawaii's electricity supply is still uncertain and operators proposed to switch from coal to biomass use in order to maintain grid stability. The facility would burn wood pellets, which are considered as a renewable resource. The plant currently provides approximately one fifth of Oahu's electricity.

21.06.2021, [www.civilbeat.org](http://www.civilbeat.org)

[Link to source](#)

## **4.2 Plants**

*No news in this category this week.*

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

#### Netherlands / Pellet import increases

According to a report by the United States Department of Agriculture's (USDA) Foreign Agriculture Service, Dutch pellet imports have reached a new peak in 2020 with USD 511 million (EUR 427 million) or 2.76 million metric tons. Approximately 10% of the renewable energy consumption is generated through wood pellets and 30% through biomass such as waste wood, woodchips etc. Half of the wood pellets were imported from other EU countries (mainly Portugal and the Baltics). The US was the main non-EU supplier with a value of USD 112 million (EUR 93.7 million), which makes the Netherlands the second largest purchaser of US wood pellets. A further increase of the import to 3.1 million metric tons is expected for 2021.

23.06.2021, [www.bioenergy-news.com](http://www.bioenergy-news.com)

[Link to source](#)

### 4.4 Company news

#### Philippines / AC Energy turns away from biomass

Philippine energy company AC Energy Corp has announced its divestment of biomass power companies in the Philippines in order to shift the focus on expanding the wind and solar portfolio. According to the source, AC Energy and Zableta Group's joint venture, Negros Island Biomass Holdings, signed an agreement to divest its shares in three biomass plants in Visayas. Negros Island Biomass Holdings (NIBH) is to sell its equity stake to its partner ThomasLloyd CTI Asia Holdings, which will then be in full control of the three biomass plants. Terms of the contract between NIBH and ThomasLloyd were not disclosed in the source.

21.06.2021, [www.bioenergy-news.com](http://www.bioenergy-news.com)

[Link to source](#)

### 4.5 Policy & others

#### Colombia / UPME reports on 314 active RES developments

Colombia's planning unit of the Energy Ministry, Unidad de Planeación Minero Energética (UPME), is currently overseeing 314 active RES project developments totalling 18,286 MW. In December 2020, 322 projects with a total capacity of 16,020 MW were in the pipeline, reportedly. While solar PV projects and wind account for the largest share, the projects also include 1 MW worth of biomass. However, the source does not include further information on the biomass projects.

18.06.2021, [www.bnamericas.com](http://www.bnamericas.com)

[Link to source](#)

**Germany /  
Bundesnetzagentur allocates  
83 MW in CHP tenders**

In its latest tender round, the Bundesnetzagentur (Federal Network Agency) has selected 13 projects with a combined capacity of 57.85 MW of CHP plants and 7 projects with a combined capacity of 25.37 MW in the category for innovative CHP capacity. The surcharges for the winning projects range between EUR 0.039 and EUR 0.07 per kWh with an average of EUR 0.056 per kWh. The surcharges for the innovative CHP projects range between EUR 0.1050 and EUR 0.1178 per kWh and the average amounts to EUR 0.1157. According to the source, both categories were overbid with 16 bids for CHP projects totalling 111.58 MW and 8 bids totalling 28.93 for the innovative CHP systems category. The deadline for submitting tenders was 1 June.

*21.06.2021, [www.renewablesnow.com](http://www.renewablesnow.com)*

[Link to source](#)

**Italy / Parliament reviews  
decree to simplify RES permit  
process**

The Italian Parliament is likely to approve a decree to simplify permitting procedures for RES projects in order to enhance the expansion of renewable energy. According to the source, 20 GW could be commissioned as a result. If approved, the EIA will be limited to 130 days. Projects with a capacity lower than 10 MW built on industrial sites can be authorised in a simplified procedure without evaluation. Project developers would get the option to address a single authority in case of administrative hurdles. The decree also includes the establishment of a special committee working full-time on key energy projects. The Cabinet approved the decree on 28 May, but it is still undergoing parliamentary scrutiny before it can come into effect.

*17.06.2021, [www.icis.com](http://www.icis.com)*

[Link to source](#)

## 5 Other waste streams

### 5.1 Other organic waste treatment

*This category is not being tracked any more.*

### 5.2 Landfills

*No news in this category this week.*

### 5.3 C&D, hazardous, sewage sludge incineration and others

#### **Canada / Hakesbury tyre recycling plant to start this summer**

The turnkey Thermal Decomposition (TDP) tyre recycling plant in Hawkesbury, Ontario, is scheduled to become operational this summer. Earlier plans announced in April 2018 said that the project led by Quebec-based Ecolomondo is to be commissioned in Q2/2019. The source does not comment on the reasons for this delay. The facility should process 13,000 tpy of tyres and use thermal decomposition technology developed by Ecolomondo.

*21.06.2021, thereview.ca*

[Link to source](#)

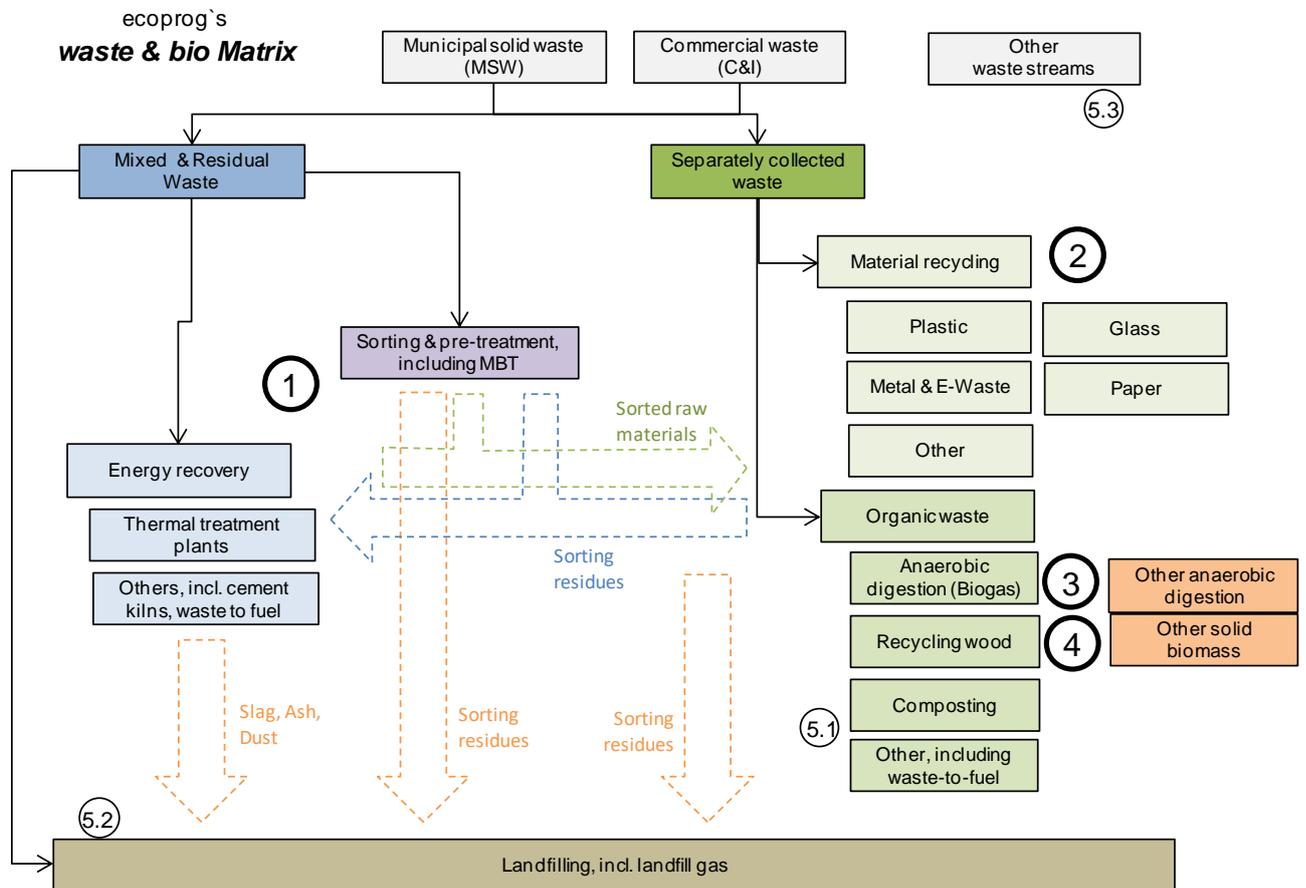
#### **USA / Wilbraham recycling facility wants to increase capacity**

The company Western Recycling has applied for the necessary permits to increase its recycling facility's capacity in Wilbraham, Massachusetts. The facility currently processes at a maximum yearly capacity of 156,000 tons of C&D waste, municipal waste and "lightly contaminated" soils. This should be increased to 612,000 tons per year. Information on the estimated investment was not enclosed.

*23.06.2021, www.thereviewer.com*

[Link to source](#)

## Methodology



ecoprogram'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

ecoprolog'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.

ecoprolog's *waste & bio Infrastructure Monitor* is compiled and issued by ecoprolog 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.

Responsible for the monitor:



ecoprolog GmbH  
Krefelder Straße 18  
DE-50670 Cologne / Germany

Mark Döing (Chief executive officer)  
Johannes Eich (Editorial Manager)  
Tel.: +49 (221) 788 03 88 17  
Fax: +49 (221) 788 03 88 10  
Email: [wb-monitor@ecoprolog.com](mailto:wb-monitor@ecoprolog.com)  
Homepage: [www.ecoprolog.com](http://www.ecoprolog.com)

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