



October 23, 2020

# WASTEANDBIO

## Infrastructure Monitor

# 42 - 2020

*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

### **Albania / Fourth incinerator approved**

The Albanian Government has approved a fourth concession in order to build an incinerator in Sherishta, Vlora. Accordingly, the Albanian company Integrated Technology Services should be in charge of the construction of the plant after winning the EUR 9.8 million tender in June 2020. Currently, a landfill, a water gas collection system, a wastewater treatment plant and a recyclable waste separation plant is being built at the supposed location of the facility. The projects are partly funded by the EU with EUR 21 million.

20.10.2020, *exit.al*

[Link to source](#)

### **Australia / Update on Maryvale WtE project**

New achievements and updates have been made regarding the Maryvale WtE project in Latrobe Valley, Victoria. Developer Australian Paper and waste management company Suez have chosen Spanish company Acciona as the construction partner of the 320,000 tpy facility. Moreover, UAE-based companies Masdar and Tribe are to invest in the USD 500 million project as well. Furthermore, Suez Australia and New Zealand will be in charge of delivering 150,000 tpy of commercial and industrial waste to the plant. Construction works should start in 2021 with a probable operational date in 2025.

20.10.2020, *www.afr.com*

[Link to source](#)

### **Cayman Islands / George Town WtE project with further delays**

The George Town WtE project is facing further delays and the commissioning is now expected for 2024. Holding company Dart Enterprises (DE), preferred bidder for the project since 2017, has recently signed a subcontract with the Government worth over USD 20 million. However, finalising the entire project is expected for later this year. The preliminary works contract is aimed for capping and remediating the George Town landfill and for developing a temporary landfill. The future WtE facility aims to treat the waste usually disposed of at the George Town dump. The plant will be constructed by Dart's construction company DECCO.

13.10.2020, *caymannewsservice.com*

[Link to source](#)

**China / WtE project signed in Fugou County**

On 19 October 2020, the WtE project proposed in Fugou County, Henan Province, has been signed by China Conch Venture Holdings Limited. The plant is reported to have a treatment capacity of 600 tpd, entail a total investment of RMB 360 million (EUR 45.58 million) and will be developed in BOT mode with a concession period of 30 years.

21.10.2020, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**China / WtE plant goes online in Shizhu County**

The WtE plant developed by China Conch Venture Holdings Limited in Shizhu County, Chongqing City, has recently started commercial operations, according to a report published on 21 October 2020. The plant has a treatment capacity of 300 tpd, utilises grate furnace technology and entailed a total investment of RMB 147 million (EUR 18.6 million).

21.10.2020, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**China / WtE plant ignited in Fuping County**

The ignition ceremony of the WtE plant in Fuping County, Shaanxi Province, has been held on 16 October 2020, indicating the plant has started operations. The facility, developed by Shenzhen Energy Environmental Engineering Co Ltd, has a treatment capacity of 600 tpd, utilises grate furnace technology and entailed a total investment of RMB 360 million (EUR 45.58 million).

21.10.2020, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**China / New WtE project approved in Luchuan County**

A new WtE project to be built in Luchuan County, Yulin City, Guangxi Region, has been approved by the Yulin Development and Reform Commission on 19 October 2020. The plant, to be developed by Guangdong Rundian Environmental Protection Co Ltd, will have a treatment capacity of 1,200 tpd to be developed in two phases, and will entail a total investment of RMB 321 million (EUR 40.64 million). A 600 tpd incineration line and a 15 MW steam turbine generator set will be installed in the first project phase.

21.10.2020, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**China / WtE plant  
commissioned in Danzhou**

The first project phase of the WtE plant developed by China Everbright International Limited in Danzhou City, Hainan Province, has officially started operations on 16 October 2020. The whole project has a planned treatment capacity of 1,500 tpd, which will be developed in two phases, entailing a total investment of RMB 640.7 million (EUR 81.1 million). In the first plant phase, 2x500 tpd grate furnaces and a 25 MW condensing steam turbine generator were installed.

20.10.2020, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

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

As reported on 19 October 2020, unit #1 of the WtE plant developed by SPIC International New Energy Holding Co Ltd in Shangqiu City, Henan Province, has been connected to the grid and started to generate power. The whole project has a designed treatment capacity of 2,400 tpd to be developed in two phases, and 2x600 tpd incineration lines supported by a 25 MW steam turbine generator set were installed in the first phase. Reportedly, the total investment of the project amounts to RMB 1.2 billion (EUR 151.9 million)

20.10.2020, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**China / New WtE project  
proposed in Nandan County**

A new WtE project has been proposed to be built in Nandan County, Guangxi Region. The plant will be located at the landfill site in Chehe Township with a treatment capacity of 500 tpd and an installed capacity of 12 MW. It will entail a total investment of RMB 276 million (EUR 34.9 million) and the project investor will be Guangxi Nandan Wantai New Energy Technology Co Ltd.

19.10.2020, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**Germany / Possible green  
light for RDF use at  
Altenstadt plant**

According to the source, the Government of Upper Bavaria could soon give green light for the use of RDF at the biomass CHP plant in Altenstadt. At a public consultation held on 15 October 2020, the project was assessed to fulfil all necessary legal requirements, but several residents are still against the use of RDF. In July 2020, Altenstadt Municipal Council already voted in favor of the proposal. The operator explains the move towards co-firing with the increased export of wood and therefore plans to also use RDF in order to ensure the profitability of the plant.

16.10.2020, [www.merkur.de](http://www.merkur.de)

[Link to source](#)

**Greece / WtE project could be built in Fyli**

Three waste treatment plans are to be constructed in Fyli, Schistos and Grammatiko, Attica Region, with a budget of EUR 500 million and the plant in Fyli could include a WtE plant. The plans, which have already started in 2013, are now revealing further information on the projects. The Fyli plant is supposed to process 400,000 tpy of solid waste built under a PPP. The second PPP project in Schistos should have an input of 250,00 tpy, 180,000 tpy of which is to be solid waste, while the rest should be biowaste. The third and smallest unit in Grammatiko is intended to be developed publicly with a capacity of 80,000 tpy of waste. The commissioning of the units are scheduled for 2025. Currently, the tender process is being prepared in order to start the bidding process of the projects soon.

06.10.2020, [www.economix.gr](http://www.economix.gr)

[Link to source](#)

**Poland / Amendments to Starachowice WtE tender**

The tender for the WtE project in Starachowice, Świętokrzyskie Voivodeship, has been prolonged once again. The new deadline is 3 November 2020. As further stated in an announcement from 9 October 2020, plans now provide for a gross output power of 1.86 MWe and 7.83 MWt as well a maximum fuel power of 12.9 MW. Earlier plans provided for a maximum fuel power of 13 MW. The tender searches for a company for the design and construction process of the facility. Plans provide for constructing the WtE plant at the location of a current heating plant, to process, amongst others, plastic waste into RDF.

21.10.2020, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

**Poland / Study presents locations for Bielsko-Biała WtE project**

During a City Council meeting on 20 October 2020 in Bielsko-Biała, Silesian Voivodeship, a study has been presented dealing with potential locations for the city's future WtE plant. According to the survey, the most suitable location would be the former heating plant in Wapienica, a district of Bielsko-Biała. Further possible locations include Lipnik, Komorowice, ul. Okręna, ul. Pienińska and the area of the PG Silesia mine in Czechowice-Dziedzice. The latter has only recently been discussed during a meeting of Czechowice-Dziedzice City Council. The study itself cost PLN 119,000 and was financed by ZGO Bielsko Biała. The investment cost for the future plant is currently estimated to amount to about PLN 400 million (EUR 87.3 million).

20.10.2020, [bielskobiała.naszemiasto.p](http://bielskobiała.naszemiasto.p)

[Link to source](#)

**South Korea / Dongyang to replace WtE unit at Siheung-si plant**

Dongyang, a subsidiary of Yujin Group, has confirmed that it was contracted to deliver a stoker-type incinerator and waste storage facility. As ecoprolog understands, the WtE plant where the works should be carried out is located at the Sihwa Industrial Complex, Siheung-si, Gyeonggi-do. The contract was awarded by KG Eco Technology Services Co Ltd (KG ETS) in late September 2020. Dongyang will replace the existing WtE units, construct a new wastewater treatment plant as well as provide improvements of the waste storage buildings. The works should be completed in December 2022, after signing the main contract in October 2020.

06.10.2020, [biz.chosun.com](http://biz.chosun.com)

[Link to source](#)

**South Korea / Location for Yongin WtE plant still being sought**

The City of Yongin has not yet decided on the final location of its new WtE plant. In August 2020, the City announced its intention to review four potential sites by forming a site selection committee. This committee was due to include both experts and resident representatives. The two incinerator units at the Yongin Environmental Centre were due to shut down by the end of November 2019 due to their age. The City wants to develop a new incinerator by 2027, for an investment sum of KRW 111.6 billion (EUR 86.1 million) and with an intake capacity of 300 tpd. However, several steps already taken by the City aimed at finding a future location is facing strict opposition by local residents.

05.08.2020, [www.incheonilbo.com](http://www.incheonilbo.com)

[Link to source](#)

**UAE / REOI due for Abu Dhabi and Al-Ain WtE projects**

The request for expressions of interest (REOI) for the two WtE projects in Abu Dhabi and Al-Ain is due to be issued imminently. The tender for both plants will then be issued in H1/2021, according to the Emirates Water & Electricity Company (Ewec). In late September 2020, Abu Dhabi National Energy Company (Taqat) has already chosen its advisory partners Tribe Infrastructure Group and Ramboll. Earlier, in March 2020, Abu Dhabi Power Corporation ADPower and Emirates Water and Electricity Company EWEC signed an MoU with Abu Dhabi Waste Management Centre Tadweer. The project will run under a PPP and both plants will generate about 150 MW of electricity. The plant in Abu Dhabi is supposed to process 900,000 tpy of waste and the one in Al-Ain 600,000 tpy.

13.10.2020, [www.power-technology.com](http://www.power-technology.com)

[Link to source](#)

**UK / Rookery South WtE project secures waste contracts**

Bedford Borough Council and Central Bedfordshire Council have secured waste contracts in order to send their waste to the Rookery South WtE plant in Bedfordshire as soon as it gets operational. Although both councils had opposed the project, they now signed the deal with plant operator Veolia. Veolia had started the construction of the 585,000 tpy facility, officially named Rookery South Energy from Waste plant, along with US-based plant operator Covanta in March 2019. The plant's electricity output should be 60 MWe and it is scheduled to be operational in late 2021.

19.10.2020, [www.mrw.co.uk](http://www.mrw.co.uk)

[Link to source](#)

**UK / High Court rejects judicial review of Rivenhall WtE project**

A judicial review permission hearing at the High Court regarding the environmental permission for the Rivenhall WtE project in Essex on 13 October 2020 has resulted in the rejection of NGO No Essex Incinerator Limited's will to challenge the permission. However, the local environmental organisation Parishes Against Incineration plans to continue with a judicial scrutiny of the project. Back in July 2020, it had launched a judicial review against the permit. The permit allows for a reduced stack height, which the Environment Agency had originally refused in 2017. The facility is being developed by Gent Fairhead and Co (GFC) and Indaver.

19.10.2020, [www.braintreeandwithamtimes.co.uk](http://www.braintreeandwithamtimes.co.uk)

[Link to source](#)

**UK / WtE project approved in Cardiff**

Mor Hafren Bio Power, part of the Cogen Group, has obtained a planning permission for its WtE project in Cardiff, Wales. Public consultations had started in October 2019 and lasted until the end of July 2020. The 200,000 tpy plant worth GBP 150 million will be located at Newlands Road near Wentloog Corporate Park and have a capacity of 15 MWe. German company Standardkessel Baumgarte was contracted to build the plant at an industrial site.

16.10.2020, [dns.planninginspectorate.gov.uk](https://dns.planninginspectorate.gov.uk)

[Link to source](#)

## 1.2 WtE plants

### Denmark / Amager Bakke plant applies for grant for CCS

The Amager Bakke WtE plant, located in Copenhagen, has announced to apply for a grant from the EU Innovation Fund in order to be supported for its carbon capture and storage (CCS) project. After it has already been assigned funds from the Danish government, Amager Bakke is now calling for more support for CCS. The 400,000 tpy facility is able to produce 54 MW.

20.10.2020, [www.tu.no](http://www.tu.no)

[Link to source](#)

### Denmark / Flue gas tender in Glostrup discontinued

The tender launched in March 2020 by company Vestforbrænding, seeking a contractor for the design and construction of a complete flue gas condensing plant, has not been awarded. The turnkey project was due to be carried out at one of the units of Vestforbrænding's WtE facility in Glostrup. According to the announcement, the tender procedure was discontinued. However, it does not provide any information on the reasons for not having awarded the contract.

14.10.2020, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

### Germany / Cartel Office approves sale of Pirmasens WtE plant

The Federal Cartel Office of Germany has officially approved the possible sale of the WtE plant in Pirmasens, Rhineland-Palatinate to the current plant operator EEW Energy from Waste. The final decision should be made on 2 December 2020. As of now, the plant is owned by public waste association Zweckverband Abfallwirtschaft Südwestpfalz (ZAS). The Council of Pirmasens uttered its aims to enter into a PPP instead of giving the full ownership to EEW. However, after EEW has offered EUR 49 million in the bidding process, several member councils of ZAS voted in favour of EEW. The plant, which has been operational since 1999, has a capacity to process up to 180,000 tpy of waste for the generation of 17 MWe1 and 16 MWh.

16.10.2020, [www.euwid-recycling.de](http://www.euwid-recycling.de)

[Link to source](#)



### **Italy / Committee demands closure of Accam WtE plant**

A committee opposing the Accam WtE plant located in Busto Arsizio, Lombardy, is demanding the plant's immediate closure. Background to this is a recent industrial plan voted by the facility's shareholders' meeting on 14 October 2020, which provides for changes to the corporate structure. According to the plan, municipal companies, including Amga and Agesp, should become shareholders and the plant's closing date should be shifted to 2032 or beyond. The committee "No Accam" is asking for a meeting with the mayor and the council groups of Busto Arsizio to discuss the future of the plant. The facility has the capacity to produce 60 tph of steam and 9.2 MWe from processing 500 tpd of waste. It started operations in 2001.

19.10.2020, [www.varesenews.it](http://www.varesenews.it)

[Link to source](#)

### **Netherlands / Rotterdam to receive new steam turbine**

The WtE plant AVR Rozenburg in Rotterdam will receive a new steam turbine able to produce 22 MW of electricity. Accordingly, preparations of the project started in 2018 and construction works should begin May 2021. With an estimated start of operations in the first quarter of 2022, the new turbine could provide electricity for 60,000 households and heat for 100,000 households.

16.10.2020, [afvalonline.nl](http://afvalonline.nl)

[Link to source](#)

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

### **Norway / Geminor starts RDF export from Poland**

On 30 September, Norwegian waste company Geminor has exported the first delivery of baled RDF from Poland to a WtE plant in Fredrikstad, Norway. The recipient was Kvitebjørn Bio-el AS, who accepted the waste volume on 2 October. The export is part of a 45,000-ton contract between Geminor and Kvitebjørn. The Fredrikstad WtE plant was commissioned in 2008 and is today owned 100% by Kvitebjørn Energi AS. Plant operator is FREVAR KF. The 25 MW plant has a capacity of 50,000 to 60,000 tpy of waste.

20.10.2020, [geminor.no](http://geminor.no)

[Link to source](#)

**Spain / Catalonia increases subsidies for waste management plants**

The Waste Agency of Catalonia has announced to increase its subsidies concerning the urban and industrial waste management from previously EUR 13 million to a total amount of EUR 17 million. The additional EUR 5 millions of subsidies are primarily destined to improve solid waste treatment facilities.

21.10.2020, [www.residuosprofesional.com](http://www.residuosprofesional.com)

[Link to source](#)

**Spain / RDF use in cement industry increases**

A survey regarding the cement industry in Spain has been published by the Cerdà Institute, in collaboration with the Cement and Environment Labor Foundation (CEMA Foundation). Accordingly, 8.8 million tons of waste were consumed as alternative fuels in the cement industry between 2004 and 2018. Furthermore, the amount of those fuels increased by 4% compared to the 2017 to 852,580 tons. As stated in the source, in 2018, RDF was the mostly used alternative fuel with an amount of 288,365 tons.

16.10.2020, [www.retema.es](http://www.retema.es)

[Link to source](#)

**Turkey / EIA approval for Bergama MBT project**

The Environmental Impact Assessment (EIA) report developed by the Izmir Metropolitan Municipality regarding a MBT project in Bergama has been approved by the Ministry of Environment and Urbanization. In 2019, Doğu Star Elektrik Üretim secured a tender to construct and operate a large-scale MBT plant for 15 years. The facility should process 500 tpd of various waste from the Bergama, Kınık, Dikili and Aliağa areas. The project will include a mechanical separation unit and a biogas plant to treat organic waste. The plant will produce 12 million m<sup>3</sup> of biomethane to produce 25,300 MWh of electricity to supply 14,000 households.

21.10.2020, [www.egetelgraf.com](http://www.egetelgraf.com)

[Link to source](#)

## 1.4 Company news

*No news in this category this week.*

## 1.5 Policy & others

### **Africa / REPP call for proposals deadline prolonged**

The deadline for submitting proposals through the Renewable Energy Performance Platform (REPP) has been extended by one week to 26 October 2020. The REPP is an initiative funded by the UK Government. Eligible are independent power producers with projects between 1 and 25 MW (up to 50 MW for wind), but large projects at an advanced stage are preferred. Eligible technologies are wind, solar, hydro, biomass, biogas, geothermal and Waste-to-Energy. Awarded projects will receive equity or debt financing and further support. Target countries for the REPP call for proposals are the countries south of the Sahara, except Botswana, Gabon, Namibia and South Africa.

15.10.2020, [www.afrik21.africa](http://www.afrik21.africa)

[Link to source](#)

### **France / ADEME launches call for SRF production projects**

The French Environment and Energy Management Agency (ADEME) has launched the fifth call for energy and solid recovered fuel (SRF) projects. Interested bidders from the industrial, agricultural and the tertiary sectors as well as public entities are invited to participate until 14 January 2021. Amongst other material, SRF produced locally from commercial waste, after a maximum extraction of recyclable material, will be prioritised in particular. The winning projects will then benefit from subsidies.

21.10.2020, [www.environnement-magazine.fr](http://www.environnement-magazine.fr)

[Link to source](#)

### **Indonesia / Japan and Indonesia launch bilateral JAIPONG programme**

The Indonesian Embassy in Tokyo has launched a bilateral economic cooperation data platform named "Japan Indonesia Partnership Lounge" or JAIPONG. Amongst others, the programme aims at promoting investments for Waste-to-Energy. As of today, five WtE investment projects have already been carried out by four Provincial Governments, namely DKI Jakarta, West Java, Central Java and South Sulawesi. However, the source does not give further information on any current project.

18.10.2020, [www.kabarrantau.com](http://www.kabarrantau.com)

[Link to source](#)

**Poland / NFOŚiGW meeting  
on WtE co-financing issues**

Poland's National Fund for Environmental Protection and Water Management will be hosting a meeting on the principles of co-financing Waste-to-Energy projects in the county on 17 November 2020. The event will cover the topics of co-financing the construction of new plants as well as the expansion or modernisation of existing facilities for waste recovery. Topics to be discussed should include application forms, required attachments, criteria for selecting projects and issues related to state aid. Registration is open until 10 November through [nfosigw.gov.pl/formularze/formularz-szkolenia-on-line-17112020-gospodarka-odpadami](https://nfosigw.gov.pl/formularze/formularz-szkolenia-on-line-17112020-gospodarka-odpadami)

*15.10.2020, [nfosigw.gov.pl](https://nfosigw.gov.pl)*

[Link to source](#)

**UAE / EcoWASTE conference  
in April 2021**

The 2021 edition of EcoWASTE will be held from 5 to 7 April 2021 at the Abu Dhabi National Exhibition Centre (ADNEC). The event is co-located with the World Future Energy Summit. Focal topics to be discussed at the event include waste management, with a special emphasis on reducing food and plastic waste, recycling, solid waste management as well as medical and hazardous waste. For further information please visit: [www.worldfutureenergysummit.com](https://www.worldfutureenergysummit.com)

*05.04.2021, [www.technicalreviewmiddleeast.com](https://www.technicalreviewmiddleeast.com)*

[Link to source](#)

## 2 Material recycling

### 2.1 Sorting & recycling projects

#### **Croatia / Mihačeva draga sorting plant tender prolonged**

The deadline for the submission of tenders for the sorting plant construction and equipment installation works, tendered by the City of Rijeka, has been shifted from 23 October to 30 October 2020. The planned facility should be located in Mihačeva draga.

21.10.2020, [ted.europa.eu](https://ted.europa.eu)

[Link to source](#)

#### **France / Pena adds new plastics recycling unit at Mérignac site**

French Pena Group has installed new equipment at its plastics recycling plant in Mérignac, Nouvelle-Aquitaine. With investments of around EUR 2 million, the company modernised its plant by an industrial and agricultural plastics recycling system by Spirea, which ensures the separation of brominated plastics, ferrous and non-ferrous metals as well as sorting all types of agricultural plastics. However, the new system's throughput was not disclosed in the source.

13.10.2020, [www.usinenouvelle.com](http://www.usinenouvelle.com)

[Link to source](#)

#### **Germany / Reikan to develop aluminium sorting/recycling plant**

Dresden-based Reikan Gruppe has announced to develop an aluminium sorting and processing plant in Freiberg, Saxony. The facility will be installed at the former site of Chore in the industrial zone in Freiberg. Reikan will develop the plant in cooperation with subsidiary Pyral AG.

20.10.2020, *EUWID Recycling & Entsorgung 43.2020*

#### **Sweden / Renewcell to develop textile recycling in Sundsvall**

Stockholm-based textile recycling company Renewcell will install a textile recycling facility in Sundsvall at an existing paper and pulp production plant by company SCA. The throughput capacity should amount to 60,000 tpy of textiles. Renewcell will start modification works in 2021 and expects to be operational by 2022. The European Investment Bank is currently considering to support the EUR 100 million project with a sum of EUR 23 million.

20.10.2020, *EUWID Recycling & Entsorgung 43.2020*

**UK / PRF to be set up near Ellesmere Port**

Specialist environmental firm Enviroo has announced plans to build a PRF at the former Peel L&P Environmental 133-acre energy hub at Protos near Ellesmere Port. For the construction of the GBP 20 million (EUR 22.1 million) plant, the company will partner with Erema and Sorema Technologies to install sorting and washing technology. However, the facility would be part of the proposed UK Plastic Park, developed by Peel Environmental, whose GBP 7 million (EUR 7.7 million) non-recyclable plastics-to-hydrogen facility, developed in cooperation with Waste2Tricity on a 2.5-acre site, has been approved by the City Council earlier this year.

20.10.2020, [www.placenorthwest.co.uk](http://www.placenorthwest.co.uk)

[Link to source](#)

**UK / Poseidon Project receives governmental funding**

UK Research and Innovation has awarded a grant of GBP 3.4 million (EUR 3.7 million) to the Poseidon Project, which aims to develop new processes for PET recycling. The Poseidon Project is a joint venture between Poseidon Plastics, Dupont Teijin Films, Alpek, GRN and O'Neills and Biffa has also joined recently. At Biffa's Seaham recycling facility, PET will be separated as feedstock, and then be processed by Poseidon Plastics at a newly developed chemical recycling plant. The project is due to begin in 2021.

19.10.2020, [www.britishplastics.co.uk/](http://www.britishplastics.co.uk/)

[Link to source](#)

**UK / Plans for new chemical recycling facility**

Food and beverage company Nestlé UK and Ireland consider setting up a plastic recycling facility in the UK together with chemical recycling company Plastic Energy. The conduction of a preliminary study for the plant's development will start in early November and is expected to be completed within around 6 months. It will be carried out by Plastic Energy and partly funded by Nestlé UK and Ireland.

19.10.2020, [plasticsinpackaging.com](http://plasticsinpackaging.com)

[Link to source](#)

**UK / Edinburgh MRF starts operations**

NWH Group's MRF located in Edinburgh has started operations on 13 October. The project entailed an investment of GBP 2.5 million (EUR 2.8 million).

14.10.2020, [www.letsrecycle.com](http://www.letsrecycle.com)

[Link to source](#)

**USA / Stillwater City Council announces plans for recycling plant**

Stillwater City Council, Oklahoma, has announced plans to build a city-owned recycling plant. The contract for the design of the facility, which should be located next to the Waste Management Facility on Airport Access Road, has already been awarded to company Tricore for USD 166,000 (EUR 140,000). Further information on the project was not disclosed in the source.

12.10.2020, [www.stwnewspress.com](http://www.stwnewspress.com)

[Link to source](#)

## 2.2 Sorting & recycling plants

**Oman / Paper recycling plant opened at Sohar Industrial Estate**

Oman Kraft paper and paperboard manufacturer and supplier International Sea Dolphin, branded as Oman Royal Paper, has opened a paper recycling plant in Oman in Phase 7, Sohar Industrial Estate. The plant is located at a 36,000-sqm site and has a production capacity of up to 100 tpd. Information on the cost was not disclosed in the source.

17.10.2020, [timesofoman.com](http://timesofoman.com)

[Link to source](#)

**Spain / New equipment installed at La Bañeza WEEE recycling plant**

Spanish company ILUNION Recycled has expanded its WEEE recycling facility in La Bañeza, León, by a new treatment line and a warehouse. According to the source, the additional line is expected to increase the plant's capacity by around 20% and its size from 10,000 to 14,000 square metres.

15.10.2020, [www.retema.es](http://www.retema.es)

[Link to source](#)

**USA / CarbonLite's third PET recycling plant now operational**

Los Angeles, California-based PET processing company CarbonLite Holding LLC has completed the construction of its PET recycling plant in Muhlenberg Township, Pennsylvania, and announced to have started operations. Operating at full scale, the facility will have a capacity of processing around 140 million pounds (around 70,000 short tons) of post-consumer PET, equalling about 2.5 billion plastic bottles, to generate up to 90 million pounds (45,000 short tons) of food-grade recycled PET pellets annually. The plant was established at a cost of around USD 80 million (EUR 67 million) at a 270,000-square feet (25,000-square metre) site. It was initially announced in May 2019.

20.10.2020, [www.readingeagle.com](http://www.readingeagle.com)

[Link to source](#)

### **USA / Novolex PRF in North Vernon to be expanded**

Hartsville, South Carolina-based recycler Novolex has announced plans to expand its PRF in North Vernon, Indiana, which mainly processes plastic retail bags and films. The company plans to invest in a new water treatment system, which is to clean the water used in the recycling process and thereby increase the quality and volume of recycled pellets. According to the source, this should increase the plant's capacity by more than 500,000 pounds per year.

19.10.2020, [www.waste360.com](http://www.waste360.com)

[Link to source](#)

## **2.3 Company news**

### **Australia & South Korea / Ecograp and Sungeel Hightech sign Lol**

Australian company Ecograp and South Korean company Sungeel Hitech have signed a letter of intent (Lol) for the processing of lithium-ion batteries. The companies plan to establish a recycling programme targeted at recycling battery graphite. Sungeel is currently recycling around 24,000 tpy of batteries. Using the process developed by Ecograp, Sungeel plans to increase capacities to 56,000 tpy.

20.10.2020, *EUWID Recycling & Entsorgung 43.2020*

### **Canada / ArcelorMittal and Triple M Metal found JV**

Contrecoeur, Quebec-based steel producer ArcelorMittal Long Products Canada and Brampton, Ontario-based metal recycler Tripe M Metal have founded the joint venture Integrated Metal Recycling Inc. The JV will use Triple M's Metrobec sites in Saint-Hubert, Quebec as well as ArcelorMittal's four Legault Métal sites in Quebec. Through the partnership, the companies aim to increase their range of processable scrap grades.

14.10.2020, [www.recyclingtoday.com](http://www.recyclingtoday.com)

[Link to source](#)

### **Germany / Recycling Dual GmbH founded by Smurfit Kappa**

Packaging company Smurfit Kappa launches Recycling Dual GmbH, a new dual system. The company is expected to start operations on 1 January 2021, if all necessary authorisations by the German federal states are obtained. Smurfit Kappa expects the costs for packaging recycling to increase in 2021.

15.10.2020, [www.recyclingmagazin.de](http://www.recyclingmagazin.de)

[Link to source](#)



**UK & Finland / Neste,  
Recycling Technologies und  
Unilever partner**

A joint venture between Neste, Recycling Technologies and Unilever will work on chemical recycling processes for plastic packaging over a period of 3 years. Plastic packaging will be processed by Recycling Technologies to produce oil, which will then be further analysed by Neste. The cooperation will also receive funding of GBP 3.1 million (EUR 3.4 million) from UK Research and Innovation (UKRI). The project will be implemented at the Recycling Technologies Facilities in Perth.

16.10.2020, [www.recyclingmagazin.de](http://www.recyclingmagazin.de)

[Link to source](#)

## 2.4 Policy & others

**Indonesia / Registration  
obligation for waste exporters  
postponed**

The Indonesian Department of Commerce has postponed the obligation to register for secondary raw material exporters from 1 October 2020 to 1 January 2021, in order to simplify and stimulate Indonesian-European and Indonesian-American wastepaper trading that decreased heavily due to difficulties in the registration process. All material shipped before 1 January must arrive in Indonesian ports by the end of February 2021. Through the required registrations, the Ministry wants to increase the quality of wastepaper imports.

20.10.2020, *EUWID Recycling & Entsorgung 43.2020*

**Netherlands / First National  
Recycling Congress to be  
held online**

The first National Recycling Congress in the Netherlands, which had to be postponed from 18 March to 25 November due to the COVID-19 pandemic, will be held online. It is organised by metal recycler MRF, plastics recycling company NRK Recycling, textile recycler VHT and Fnoi, active in the scrap paper business. The event's topic will be "Recycling: The Netherlands' Circular in Practice".

16.10.2020, [www.recyclingmagazine.nl](http://www.recyclingmagazine.nl)

[Link to source](#)

**UK / Government funds chemical recycling projects**

The British Government invests GBP 20 million (EUR 22 million) into chemical recycling projects located in the UK. Through the Industrial Strategy Challenge Fund, part of the national funding agency UK Research and Innovation, four projects will receive grants. This includes the Poseidon Project and a joint venture by Unilever, Neste and Recycling Technology (please see also the news "Neste, Recycling Technologies und Unilever partner" in this monitor). Furthermore, a PET recycling facility by Veolia, Unilever, Chrapak and HSSMI is among the beneficiaries. The investments by the involved companies entail around GBP 65 million (EUR 72 million).

16.10.2020, [afvalonline.nl](https://afvalonline.nl)

[Link to source](#)

**USA / DOE provides funding for 12 plastics recycling projects**

The US Department of Energy (DOE) will provide funding totalling around USD 27 million (EUR 22.8 million) for 12 projects supporting the development of plastic recycling technologies and improving existing recycling processes as well as their energy efficiency. The individual projects receive grants of USD 1.9 million to USD 2.5 million each and most groups are universities, institutes and research centers. The highest funding of USD 2.5 million (EUR 2.1 million) will be awarded to the IBM Almaden Research Center, San Jose, California and the Universities of Delaware, Minnesota, Wisconsin-Madison as well as Iowa State University and Case Western Reserve University in Cleveland, Ohio.

19.10.2020, [www.recyclingtoday.com](https://www.recyclingtoday.com)

[Link to source](#)

## 3 Anaerobic digestion / biogas

### 3.1 Projects agriculture

#### **Brazil / Tamboara AD plant to be extended**

Brazilian bioenergy company Geo Eletrica Tamboara has secured a loan of BRL 21.9 million (EUR 3.3 million) from the Brazilian Development Bank (BNDES) for the expansion of its AD plant in Tamboara, Paraná. Four new digesters will be installed at the site to significantly increase the plant's capacity by 123%. The annual electricity output to the national interconnected system (SIN) should increase to 59.85 GWh by 2022. The plant mostly processes sugarcane vinasse from ethanol production processes.

*20.10.2020, renewablesnow.com*

[Link to source](#)

#### **Brazil / Large-scale AD project inaugurated in Guariba**

The large-scale biogas project Raízen and Geo Energetica in Guariba, São Paulo, has been inaugurated. It was constructed by Sebigas Do Brazil. The plant processes vinasse, filter cake and other byproducts from sugar and ethanol production processes. It has an installed capacity of 21 MW and a generation capacity of up to 138,000 MWh of electricity annually. It should supply electricity to up to 62,000 households.

*19.10.2020, www.energias-renovables.com*

[Link to source](#)

#### **Denmark / Hærup Biogas presents expansion plans**

Hærup Biogas, through Danish biogas consulting company Dansk Biogasrådgvning, has applied to the municipality of Viborg to expand its AD plant in Hærup, near Hobro, Northern Jylland. The plant currently treats 28,125 tpy of agricultural waste, which should be increased to 85,000 tpy. Hærup Biogas plans to develop a new digester and post-digester. The annual production of 3.7 million m<sup>3</sup> of biogas will remain the same. The plant currently mostly supplies gas to the nearby Klejtrup CHP plant. The rest of the biogas is used to produce electricity for the site. After the expansion, the plant should be able to generate around 7,200 MWh per year. The expansion plan is expected to be adapted by the end of 2021.

*20.10.2020, www.energy-supply.dk*

[Link to source](#)

**France / Plans for biogas plant in Illiers-Combray**

Energy producer Avenir Biogaz is currently planning to develop an AD plant in Illiers-Combray, Centre-Val de Loire. The envisioned plant should process 74 tpd of slurry from a nearby pigsty as well as vegetable and cereal waste to produce biogas for the public gas grid. The site should include two 3,324m<sup>3</sup> digesters. The city council has already voiced a negative opinion the project.

21.10.2020, [www.lechorepublicain.fr](http://www.lechorepublicain.fr)

[Link to source](#)

**France / AD plant under construction in Mouflers**

A new AD plant is currently under construction in the outskirts of the Hauts-Plateaux business park between Flixecourt and Mouflers, Hauts-de-France. The project is operated by the company Agri Bio Energies. The plant will process 27,500 tpy livestock effluents and intermediate crops. The produced biogas will be bought by Engie and upgraded to biomethane to be injected into the GrDF network. The project owners also plan to develop a Bio-NGV gas station at the site. Investment costs are estimated to amount to EUR 7 million and the first gas injection into the network is scheduled for September 2021.

21.10.2020, [premium.courrier-picard.fr](http://premium.courrier-picard.fr)

[Link to source](#)

**France / Besson AD plant to be completed in 2021**

An AD plant is currently under construction in Besson, Auvergne-Rhône-Alpes. Several farmers from the Allier area have founded the company SAS Besson Bio Energies to develop the facility. Once completed in early 2021, it should process manure and energy crops to produce biomethane for the GrDF grid. The plant costs EUR 4.5 million. The project received subsidies from the region and the Syndicat Départemental d'Énergies.

20.10.2020, [www.lamontagne.fr](http://www.lamontagne.fr)

[Link to source](#)

**France / Éclimeux biomethane plant under construction**

Construction of a biomethane project in Éclimeux, Hauts-de-France, is currently underway. Project owner is Bio Energies 7VT, a company by seven farmers from the area. According to the permit documents, the plant should treat 14,700 tpy of livestock effluents, 7,680 of energy crops and 5,000 tpy of vegetable waste in two mesophilic 2,493 m<sup>3</sup> digesters. The produced biogas should be upgraded to biomethane for the grid. The project costs EUR 5.5 million.

20.10.2020, [www.lavoixdunord.fr](http://www.lavoixdunord.fr)

[Link to source](#)

**France / AD plant to be built in Durtal**

SAS Lampa, an association of 15 farmers, plans to develop a new AD plant in Durtal, near Daumeray, Pays de la Loire. According to the registration documents, the plant should treat 33,740 tpy of manure, slurry and plant waste in a mesophilic process to produce biogas. The biogas will then be upgraded to biomethane using membranes and injected into the GrDF network. A public consultation regarding the project will be open from 19 October until 16 November.

19.10.2020, [actu.fr](https://actu.fr)

[Link to source](#)

**France / AD plant under construction in Zellwiller**

Construction on a new AD plant in Zellwiller, Pays de Barr, Grand Est, is underway since the end of September. The project is being developed by the company Biomethane du Piémont, based in Westhouse, and natural gas supplier Gaz de Barr. The plant will process 27,000 tpy of agricultural waste, such as manure, slurry and maize straw, from five associated farmers as well as other contributors. It is expected to have a capacity of 23,000 MWh. Investment costs amount to EUR 8 million and commissioning is planned for summer 2021.

17.10.2020, [www.lalsace.fr](http://www.lalsace.fr)

[Link to source](#)

**France / AD plant under construction in Pouillé-les-Coteaux**

Construction is underway on a new AD plant at a place called La Butte au Four in Pouillé-les-Coteaux, Pays de la Loire. The project is led by the company Metha Des Coteaux. According to the registration documents, the plant will treat 21,227 tpy of mainly manure, crop waste, fruit and vegetable waste and dairy products from associated farms and agri-food industries to produce 1,738,389 m<sup>3</sup> of biogas. The facility will include two 2,950 m<sup>3</sup> digesters. The produced biogas will be upgraded to inject around 100 m<sup>3</sup>/h of biomethane into the GrDF grid and the total investment costs amount to EUR 4.8 million.

17.10.2020, [www.ouest-france.fr](http://www.ouest-france.fr)

[Link to source](#)

**France / AD plant under construction in L'Éluiset**

A new AD plant is currently under construction in L'Éluiset, Viry, Auvergne-Rhône-Alpes. The project is developed by SAS Green Gas Viry, a union of seven farmers. It was first proposed in 2015, after which a feasibility study was carried out. A building permit was issued in October 2018 and construction began in April 2020. The plant will treat manure, slurry and intermediate crops to produce biomethane for the GrDF network. Commissioning is planned for spring 2021.

16.10.2020, [www.lemessenger.fr](http://www.lemessenger.fr)

[Link to source](#)

**France / Biomethane plant operational in Saint-Sulpice-des-Landes**

A new AD plant has been developed in Saint-Sulpice-des-Landes, near Vallons-de-l'Erdre, Pays de la Loire, by a company called Brigitte et Thierry. The plant was put into operation at the end of August and treats slurry, manure and plant waste to produce biomethane for the natural gas network. It was built by biogas company Prodeval, according to which the plant produces 210 nm<sup>3</sup>/h of biomethane.

16.10.2020, [www.ouest-france.fr](http://www.ouest-france.fr)

[Link to source](#)

**France / Plans to extend composting and AD plant in Soudan**

The municipal council of the communes of Villepot has issued a favourable opinion on plans by SAS Meetha to expand an existing composting and AD plant at a location called Hochepie in Soudan, Pays de la Loire. Regarding the AD plant, SAS Meetha wants to increase the input of plant waste and agricultural waste from 30 tpd to 46,5 tpd and also install an upgrading plant as well as an injection station at the site.

16.10.2020, [www.loire-atlantique.gouv.fr](http://www.loire-atlantique.gouv.fr)

[Link to source](#)

**France / Permit for Biéville-Beuville biogas plant under review**

The administrative court of Caen, Normandy, is currently reviewing an appeal against an approved biogas project in Biéville-Beuville. The project was proposed by a group of six farmers under the company agri Metha Nacre and received a permit in late 2018. It was originally envisioned to be completed in 2020. Plans provide for the plant to process 25,000 tpy of agricultural waste to produce biogas for the local network.

15.10.2020, [www.ouest-france.fr](http://www.ouest-france.fr)

[Link to source](#)

**India / New AD plans in Haibowal**

A new biogas plant should be developed on Tajpur Road in Haibowal, Punjab. An unnamed private company has leased the site to develop an AD plant, which should process cow manure to produce up to 3 tpd of compressed biogas. Operation is expected to start in late December 2020.

21.10.2020, [timesofindia.indiatimes.com](https://timesofindia.indiatimes.com)

[Link to source](#)

**India / Gujarat calls for biogas projects**

The Gujarat Energy Development Agency (GEDA) has issued a tender for several large-scale biogas projects. The plants should be developed and commissioned within 3 months. Contracts include operation and maintenance for 10 years. The deadline for submitting bids is 2 November 2020. A list of requirements includes, amongst others, that interested bidders should have delivered at least three biogas projects with an output of at least 25 nm<sup>3</sup> of biogas per day.

20.10.2020, [mercomindia.com](https://mercomindia.com)

[Link to source](#)

**Norway / Andion to handle expansion of Skogn biogas plant**

Biofuels producer Biokraft has contracted Canada-based Andion Global to construct an expansion of the large-scale Skogn biogas plant near Trøndelag on the Fiborgtangen peninsula. The plant currently processes agricultural waste, waste from fish farming and wastewater from the paper industry to produce 10,000 tpy of liquid biogas as fuel used in heavy transport. Construction of the extension is planned to start in 2020 and will take place in two phases, called Skogn II and Skogn III. Skogn II should increase liquid biogas production by 3,500 tpy, while Skogn III should produce 6,500 tpy. Biokraft is investing a total of EUR 70 million into the project.

15.10.2020, [www.globenewswire.com](https://www.globenewswire.com)

[Link to source](#)

**Poland / Subsidy for Tuczno AD project**

The project to construct an AD plant in Marcinkowice in the commune of Tuczno, West Pomeranian Voivodeship, has been granted a PLN 7 million (EUR 1.53 million) EU subsidy from the National Fund for the Environmental Protection and Water Management. The funding was awarded under the Infrastructure and Environment Operational Program 2014-2020. The total investment costs for the project are estimated to amount to PLN 11.4 million (EUR 2.49 million). According to the source, the plant, once realised, should mainly process maize silage to produce biogas, which will be used to power a 499 kW CHP. The CHP unit will be installed by the company Bioelektrownia Marcinkowice and the project should be finished by the end of 2022.

16.10.2020, [www.gramwzielone.pl](http://www.gramwzielone.pl)

[Link to source](#)

**Spain / Balaguer AD plant upgraded**

Gas trading company Torre Santamaría has expanded its biogas plant in Balaguer, Lleida, with an upgrading plant. The biogas plant started operations in 2011 and processes cattle manure ever since. The produced biogas will now be upgraded to biomethane, which will be injected into the Nedgia gas grid under a long-term purchase agreement. The works cost EUR 4 million.

19.10.2020, [www.energias-renovables.com](http://www.energias-renovables.com)

[Link to source](#)

**Turkey / Biogest to build second AD plant**

Austrian plant manufacturer Biogest has announced to have received a second order from energy investment company Morevim for a large-scale agricultural biogas plant. The plant should be developed in Kırşehir, Anatolia, and process 130,000 tpy of cattle slurry and chicken manure. It should have an installed capacity of 1.5 MWel. The facility will be equipped with Biogest's PowerRing technology and developed through Enerlinc Enerji, exclusive distributor of Biogest in Turkey.

21.10.2020, [www.biogest.at](http://www.biogest.at)

[Link to source](#)



### **USA / U.S. Gain expands Appleton AD plant**

Natural gas company U.S. Gain, in cooperation with Nacelle Solutions, has extended its AD project at the Deer Run Dairy farm in Appleton, Wisconsin, with an upgrading unit. U.S. Gain had acquired the plant earlier this year. The plant now processes manure from 1,700 cows to produce biomethane, which will be transported to a decanting facility at the Holsum Dairy in Hilbert. U.S. Gain also stated it wants to add a mixing tank to the Deer Run plant in 2021 in order for the plant to receive livestock waste from other farms to increase its output.

20.10.2020, [www.bioenergy-news.com](http://www.bioenergy-news.com)

[Link to source](#)

### **USA / Oshkosh AD plant to produce fuel**

The University of Wisconsin-Oshkosh has added a Micro GTL unit by California-based Agra Energy to its AD plant at Allen Farm in Oshkosh, Wisconsin. The plant processes manure to produce biogas, which will now be upgraded to produce liquid fuel. According to ecoprolog information, the digester processes 10,000 tpy and started operations in 2011.

15.10.2020, [www.wbay.com](http://www.wbay.com)

[Link to source](#)

## **3.2 Projects biowaste**

### **Canada / AD project planned in Bromont**

The City of Bromont, Québec, has approved changes to a zoning plan in order to allow developing a biomethane plant in the Bromont Science Park. Sherbrooke-based company Bähler Biogaz has plans to develop an AD plant at the site, which should treat up to 45,000 tpy of organic waste from the region to produce biomethane. The project is estimated to cost CAD 28 million (EUR 17.99 million).

14.10.2020, [www.journalleguide.com](http://www.journalleguide.com)

[Link to source](#)

### **China / AD plant started commissioning in Fuzhou**

The first phase of the Hongmiaoling AD plant developed by Capital Environment Holdings Limited in Fuzhou City, Fujian Province, has started commissioning on 16 October. The whole project has a treatment capacity of 800 tpd of kitchen wastes, which will be developed in two phases with 400 tpd each. While plant phase 1 is active, the project phase 2 already has been initiated and is expected to be operational by the first half of 2021.

19.10.2020, [www.solidwaste.com.cn](http://www.solidwaste.com.cn)

[Link to source](#)

**Czech Republic / Tender for Horní Suchá AD plant dismissed**

The tender by waste management company Organic Technology for the construction of a waste treatment centre including organic waste AD equipment in Horní Suchá, Moravian-Silesian Region, has not been awarded. According to the contract award notice, this is due to a discontinuation of the procedure. The tender included the establishment of structures such as reception and treatment areas, horizontal fermenters, storage tanks and other infrastructure. According to earlier information, the contract was worth CZK 299.8 million (EUR 11.09 million).

19.10.2020, [ted.europa.eu](https://ted.europa.eu)

[Link to source](#)

**Denmark / New AD plant to be developed in Solrød**

Solrød Bioenergi ApS has applied to the Municipality of Solrød, Zealand, to develop a new biogas plant near the existing one by Solrød Biogas. According to the source, the new plant should treat 250,000 tpy of waste. Half of the feedstock should be source-sorted organic household waste, the other half should be livestock manure and biowaste from the food industry. The produced biogas should be used for heating.

21.10.2020, [www.energy-supply.dk](http://www.energy-supply.dk)

[Link to source](#)

**Finland / Haminan Energia to decide on future of Virolahti plant**

By the end of 2020, energy company Haminan Energia Oy will decide to either modernise or fully decommission its biogas plant in Virolahti, Kymenlaakso Region. The facility was originally commissioned in 2015, but never reached full capacity. It was shut down in 2018 after equipment supplier BioGTS, contracted to work on the plant, declared insolvency. The plant was designed to treat green waste, biowaste from separate collection and food waste in a dry AD process to produce biomethane for the natural gas grid. According to the source, Haminan Energia has already started on the designs for a potential modernisation of the site, but it is not clear whether the company will invest several millions into the project.

15.10.2020, [www.kaakonkulma.fi](http://www.kaakonkulma.fi)

[Link to source](#)

**Germany / Feasibility study approved for joint AD project**

The districts of Waldshut and Lörrach, Baden-Württemberg, have approved a feasibility study for a joint AD plant. Waste technology company Rytec recently investigated suitable locations for the project and recommended the site of the Lachengraben landfill near Wehr, because it is connected to the natural gas grid. The envisioned plant should process 30,000 tpy of food and garden waste to produce biomethane. 6,360 tons were collected in the Waldshut district in 2019, making a cooperation with other districts necessary. According to a first estimation, the project would cost approximately EUR 20.6 million.

16.10.2020, [www.badische-zeitung.de](http://www.badische-zeitung.de)

[Link to source](#)

**Italy / New AD plans in Sicily**

Waste management company Asja Ambiente was the only participating company in a tender for the development of a large-scale biomethane plant near the landfill in Mazzarà Sant'Andrea, Sicily. It should process about 181,000 tpy of organic and unsorted waste from the region. The tender was based on a technical proposal by Asja Ambiente. It also included the operation of the plant for a period of 25 years and is worth EUR 41 million in total. Once awarded, the company still needs to obtain the necessary permits for the plant.

20.10.2020, [meridionews.it](http://meridionews.it)

[Link to source](#)

**Italy / Biomethane plant planned in Frosinone**

There are plans to develop a biogas project in the Asi area of Frosinone, Lazio Region. Television technology company Maestrone Srl applied for a permit for the project in December 2019. The plant should process 50,000 tpy of the organic fraction of urban solid waste (FORSU) to produce biomethane. Residents are strongly opposing the project.

19.10.2020, [www.frosinonetoday.it](http://www.frosinonetoday.it)

[Link to source](#)

### **Italy / Schmack Biogas to deliver biomethane upgrading plant**

Schmack Biogas Srl., subsidiary of German biogas plant manufacturer Schmack Biogas GmbH, has been contracted by Ankorgaz subsidiary Biomet SpA for the supply and installation of a biomethane upgrading plant in San Rocco al Porto, Lombardy Region. According to the source, the contract has a value of EUR 1.9 million. It provides for the installation of a pressure swing adsorption (PSA) facility to upgrade biogas, produced from organic waste, to biomethane, which should be injected into the natural gas network. The project is expected to be completed in the first half of 2022.

15.10.2020, [www.trend-online.com](http://www.trend-online.com)

[Link to source](#)

### **3.3 Company news**

*No news in this category this week.*

### **3.4 Policy & others**

#### **EU / New Methane Strategy published**

The European Union has adopted a new Methane Strategy as part of the European Green Deal in order to reduce methane emissions. The strategy also includes measures relating to the biogas and biomethane industries. Amongst others, the EU and EC stated to support biogas production from agricultural waste, target research on biomethane from waste in the Strategic Plan 2021-2024 of Horizon Europe, and also propose a pilot project to support development of biogas plants in rural areas. For more information, please see link to source.

14.10.2020, [ec.europa.eu](http://ec.europa.eu)

[Link to source](#)

#### **Germany / GRTgaz tender for biomethane production**

GRT Gaz Germany has tendered four lots for the production of biomethane, each with a volume of 4.38 million kWh. Five unnamed suppliers have applied for the biomethane lots. Supply should start in 2021. However, the winning companies were not disclosed. Next to the biomethane, CRT Gaz also tendered the supply of natural gas with a total volume of 565 million kWh.

19.10.2020, [www.energate-messenger.de](http://www.energate-messenger.de)

[Link to source](#)

**Poland / Government,  
organisations with biogas  
development plans**

It was announced that the Ministry of Climate and 17 economic organisations have signed a letter of intent to partner on the development of the biogas and biomethane sector. Together, they plan to prepare a report on the current situation of the biogas industry, share knowledge of biogas production technologies and increase the production capacity of the biogas industry. Amongst the signatories are universities, governmental representatives, various associations and private companies. According to the source, in mid-2020 Poland had an installed biogas capacity of 245 MW. The potential of biogas production is estimated to amount to 8 billion m<sup>3</sup> annually.

*14.10.2020, inzynieria.com*

[\*Link to source\*](#)

## 4 Solid Biomass-to-Energy

### 4.1 Projects

#### China / BtE project signed in Donggang

A new Biomass-to-Energy project has been signed by Dandong Mingsheng Biomass Power Co Ltd in Donggang City, Liaoning Province, on 14 October. The plant will have an installed capacity of 30 MW and entail a total investment of RMB 400 million. It is expected to be operational by end of 2021, when it should be able to process 330,000 tons of waste straws annually.

20.10.2020, [huanbao.bjx.com.cn](http://huanbao.bjx.com.cn)

[Link to source](#)

#### China / BtE project approved in Dongliao County

It has recently been reported that the Jilin Province Development and Reform Commission announced the approval of the new Biomass-to-Energy project to be built in Dongliao County on 2 September. The project will be developed by Jilin Rongneng Biomass Power Co Ltd with an installed capacity of 60 MW, consisting of 2x130 tph circulating fluidised bed furnaces and 2x30 MW condensing steam turbine generator sets, entailing a total investment of RMB 570 million. The plant is expected to process 560,000 tons of waste straws and chicken manure annually.

19.10.2020, [news.bjx.com.cn](http://news.bjx.com.cn)

[Link to source](#)

#### China / BtE plant commissioned in Wudalianchi

The Biomass-to-Energy plant in Wudalianchi City, Heilongjiang Province, has successfully passed 72+24 h commissioning on 15 October. The plant has an installed capacity of 30 MW, consists of a 130 tph grate furnace and a 30 MW generator set and entailed a total investment of RMB 330 million. It is expected to process 300,000 tons of waste straws annually, producing 240 million kWh of green electricity.

19.10.2020, [huanbao.bjx.com.cn](http://huanbao.bjx.com.cn)

[Link to source](#)

**Croatia / Construction of Gospić plant progresses**

Construction of the 5 MW biomass CHP project in Gospić is nearing completion, according to the source. Works should be finished in December, after which a technical inspection should follow. Next to the plant, a drying facility for woodchips is being constructed, which will use the heat produced by the biomass plant for own purposes. Surplus heat might also be delivered as district heating. The generated power will be transferred to national energy company Hrvatska elektroprivreda HEP. The EUR 20 million project is owned by Energana Gospić 1, which belongs to Czech holding GEEN.

15.10.2020, [www.croatiaweek.com](http://www.croatiaweek.com)

[Link to source](#)

**Germany / Ettlingen district heating grid operational**

After trial operations were conducted for several weeks, two wood pellet boilers have gone operational at the site of a vocational education centre in Ettlingen, Baden-Württemberg. The heat is distributed through a district heating grid. The project operated by public utilities Stadtwerke Ettlingen (SWE) was financed by the Federal Government with around EUR 4 million and an additional sum of EUR 1.8 million by SWE.

19.10.2020, [www.euwid-energie.de](http://www.euwid-energie.de)

[Link to source](#)

**Japan / Groundbreaking held for Sakaiminato plant**

A groundbreaking ceremony for a 4.3 MWel biomass project in Sakaiminato, Tottori, has been held. The facility, to be operated by Sakaiminato Energy Power, subsidiary of Japanese equipment supplier Tokyo Eneshisu, will be fuelled with bark and palm kernel shells (PKS). Operations are expected to start in October 2022.

21.10.2020, [www.rim-intelligence.co.jp](http://www.rim-intelligence.co.jp)

[Link to source](#)

## 4.2 Plants

### Canada / Future of Calstock plant still unclear

The Provincial Government of Ontario is still in talks with US energy producer Atlantic Power over the future of the company's Calstock biomass power plant in Hearst. In June, the Provincial Government has extended an expiring power purchase agreement (PPA) until December 2020. The extension was intended for the government and stakeholders to assess the prospective role of biomass power. If no solution is reached, the plant has to close in December. Detailed reasons for the shutdown are not disclosed in the source, but the Ontario Ministry of Energy said that the state would have surplus electricity.

20.10.2020, *ici.radio-canada.ca*

[Link to source](#)

### Spain / Cubillos del Sil plant to extend operational hours

A regulatory modification will allow the Cubillos del Sil biomass power plant to extend its operational hours to 7,500 per year. Consequently, the facility needs to process more fuel, 350,000 tpy of biomass are planned. As reported earlier by local news website Ronda Comunicación, the 50 MW plant, which started operations in July 2020 and involved investments of EUR 100 million, was initially designed to process 280,000 tpy of forest and agricultural biomass.

13.10.2020, *www.leonoticias.com*

[Link to source](#)

### Sweden / CCS technology tender for Värtan plant

Swedish energy company Stockholm Exergi AB is currently tendering Front End Engineering and Design (FEED) works for a carbon capture plant at the 350 MW biomass Värtan plant in Stockholm. The deadline for submitting documents is 6 November and the estimated value of the contract excluding VAT is EUR 4 million.

21.10.2020, *ted.europa.eu*

[Link to source](#)



#### **UK / Tilbury plant signs agreement with O.C.O Technology**

Tilbury Green Power Limited (TGP) has signed an agreement with UK-based waste treatment company O.C.O Technology for the disposal of air pollution control residues (APCr) coming from the biomass plant in the Port of Tilbury, London. The waste disposer will utilise its Accelerated Carbonation Technology (ACT) for the treatment of the residues from the 270,000 tpy waste wood-fired facility. The APCr will initially be recycled at O.C.O's facility in Avonmouth and as of spring 2021 be processed at the company's plant in Brandon.

14.10.2020, [www.bioenergy-news.com](http://www.bioenergy-news.com)

[Link to source](#)

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

*No news in this category this week.*

#### **4.4 Company news**

##### **EU / REDcert and Bioenergy Europe to create certification scheme**

Sustainability certification firm REDcert and association Bioenergy Europe are about to create a biomass sustainability certification system in order to enable economic operators to comply with the legal requirements of the renewed Renewable Energy Directive (RED II). The SUSTAINABLE RESOURCES Verifications Scheme (SURE) is supposed to provide certification for the whole supply chain. Agricultural and forest biomass producers, producers of biomass fuel from waste and residues, pellet producers, logistic operators, biomass fuel traders, biomass and biogas plants can receive advice under the scheme. Under RED II, which enters into force on 1 July 2021, sustainability criteria for biomass plant operators that are granted support for heat or electricity generation will be implemented.

21.10.2020, [www.bioenergy-news.com](http://www.bioenergy-news.com)

[Link to source](#)

##### **Indonesia / MHI to promote co-firing of biomass**

Japanese technology supplier Mitsubishi Power Ltd. (MHI) has signed a memorandum of understanding (MoU) to develop policy proposals for co-firing biomass in coal power stations in Indonesia with the Indonesian National Electricity PLN Group and the National Bandung Institute of Technology (ITB). The companies and the institute want to focus on technical examination tests, policy analysis and market research. Moreover, pilot plants suitable for co-firing should be selected.

15.10.2020, [prtimes.jp](http://prtimes.jp)

[Link to source](#)

## 4.5 Policy & others

### **Africa / Deadline extended for REPP call for proposals**

The deadline for submitting proposals through the Renewable Energy Performance Platform (REPP) has been extended by one week to 26 October 2020. The REPP is an initiative funded by the UK Government. Eligible are independent power producers with projects between 1 and 25 MW (up to 50 MW for wind), however, large projects in advanced stages are preferred. Eligible technologies are wind, solar, hydro, biomass, biogas, geothermal and Waste-to-Energy. Awarded projects will receive equity or debt financing and further support. Target countries for the REPP call for proposals are the countries south of the Sahara, except Botswana, Gabon, Namibia and South Africa.

15.10.2020, [www.afrik21.africa](http://www.afrik21.africa)

[Link to source](#)

### **Netherlands / Phase-out of biomass subsidies planned**

The Dutch Government intends to phase out subsidising biomass power and heating plants. The time schedule should be decided on by the end of the year. Environmental assessment agency PBL should provide consultancy for the time schedule. The Government is convinced that other RE alternatives are environmentally more favourable, while the phase-out should also depend on the achievability and affordability of the alternatives.

19.10.2020, [www.dutchnews.nl](http://www.dutchnews.nl)

[Link to source](#)

### **UK / Government to introduce new biomass strategy in 2022**

The Department for Business, Energy and Industrial Strategy (BEIS) has announced to release a new bioenergy strategy in 2022. By doing so, the Government responds to the Committee on Climate Change's (CCC) 2020 progress report, which urges the UK's biomass energy strategy to be refreshed. The CCC recommends the new strategy to include topics such as support schemes, biomass feedstock procurement and the integration of carbon capture and storage technology at biomass facilities, amongst others. BEIS will take the recommendations into account, while developing the new strategy for which a progress update should be published next year.

19.10.2020, [www.biomassmagazine.com](http://www.biomassmagazine.com)

[Link to source](#)

**USA / Forest Service to fund  
BtE projects**

The US Forest Service has opened the application process for the 2021 Wood Innovations Grants and 2021 Community Wood Energy and Wood Innovation Grants. In total, USD 10 million (EUR 8.4 million) of funding is available. Under the Community Wood Energy and Wood Innovation Program, shovel-ready community wood energy systems for heating, cooling and/or electricity, which aim to substitute fossil fuel-based systems, are eligible for applying. Deadline for submission of proposals is 3 November. The results should be conveyed to applicants in May and awards are anticipated for August.

20.10.2020, [www.biomassmagazine.com](http://www.biomassmagazine.com)

[Link to source](#)

## 5 Other waste streams

### 5.1 Landfills

#### **Vietnam / Government defines new targets for RE expansion**

Vietnam has published new renewable energy targets. According to a new plan, the share of renewables of the total energy supply should be increased to 15 to 20% by 2030. Until 2045, the government plans to further increase the RE share in the power mix to 25 to 30%.

14.10.2020, [www.german-energy-solutions.de](http://www.german-energy-solutions.de)

[Link to source](#)

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

#### **Canada / Landfill expansion approved in Squamish**

During a recent council meeting by the District of Squamish, British Columbia, the council has unanimously voted in favour of approving in principle the lateral expansion of the landfill located in the north end of Brackendale. At the meeting, three options for the future of the landfill were presented: a lateral expansion, delivering the waste to another dumpsite or, as a third option, setting up a WtE plant that would convert the waste into fuel. However, as the source further reports, the WtE plant has been already ruled out at the meeting, as it would not be technically viable and at this scale would not be a proven technology for affordable costs. However, as further stated by a municipality official, laterally expanding the landfill may lead to the use of WtE methods in the future.

15.10.2020, [www.squamishchief.com](http://www.squamishchief.com)

[Link to source](#)

#### **Germany / MVV starts to build Mannheim sewage sludge plant**

MVV has broken ground for the construction of the phosphorus recycling and sewage sludge incineration plant in Mannheim, Baden-Württemberg, in mid-October. The facility is expected to process 180,000 tpy of sewage sludge starting from the end of 2021. The project will cost around EUR 50 million.

20.10.2020, [EUWID Recycling & Entsorgung 43.2020](#)

**Hungary / Tyre recycling plant in Zalaegerszeg completed**

A 20,000 tpy tyre recycling plant has been completed in Zalaegerszeg. Hungarian MOL Group, an oil and gas company, invested EUR 8.7 million in the development and expects the facility to be fully operational in early 2021. The output, recycled rubber bitumen, will be used for building asphalt roads.

20.10.2020, [recyclinginternational.com](https://www.recyclinginternational.com)

[Link to source](#)

**Sudan / Khartoum medical waste incinerator delivered**

A medical waste incinerator with a capacity of 14 tpd has successfully been delivered to Khartoum, the capital of Sudan. The facility was transferred from the UK. However, further information on the project was not disclosed in the source.

17.09.2020, [www.mugrn.net](http://www.mugrn.net)

[Link to source](#)

**Syria / Medical waste incinerator planned in Deir Ezzor**

The Health Committee of the Deir Ezzor Civil Council has announced plans to establish a medical waste incinerator in the northern countryside of Deir Ezzor. The project should be completed within 25 days and burn the waste collected in six containers throughout the city to then be sorted for further processing. Further details were not disclosed in the source.

01.09.2020, [hawarnews.com](http://hawarnews.com)

[Link to source](#)

**UK / PIN for AHP waste solutions in Wales retendered**

A Prior information notice (PIN) about the design, development, installation and construction of two absorbent hygiene product (AHP) waste treatment plants has been retendered by Rhondda Cynon Taf County Borough Council. The first PIN was published on 25 June earlier this year, but the contract notice has never been launched. However, the amount of AHP waste is estimated to reach at least 21,000 tpy, 5,000 tons of which should be treated in Waen in the North of Wales and around 16,000 tons in Bryn Pica, where the facilities are to be located. According to the tender, the contracting authority expects the publication of the contract notice on or around 19 November 2020.

20.10.2020, [ted.europa.eu](http://ted.europa.eu)

[Link to source](#)

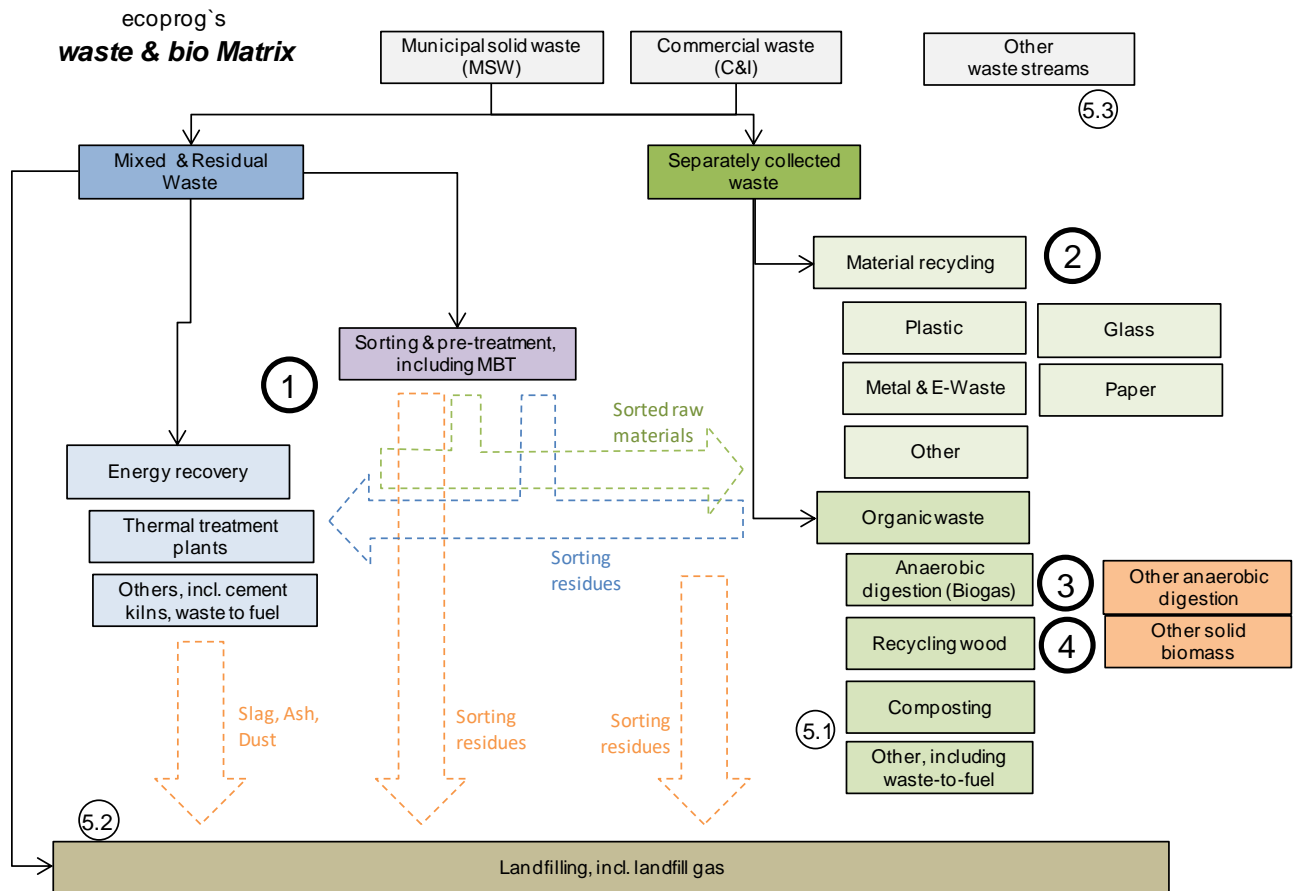
**USA / Schuyler County  
Legislature opposes Cayuta  
MRF**

Schuyler County Legislature has voted to oppose the permit for the proposed MRF in Cayuta, New York. The plant, which was foreseen to process C&D waste as well as municipal solid waste, would have been operated by Alternative Waste Services.

14.10.2020, [wskg.org](https://www.wskg.org)

[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

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.

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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 23. October 2020.

The intended date of release for ecoprolog's *waste & bio Infrastructure Monitor* is 30. October 2020.