

April 05, 2024

WASTEANDBIO

Infrastructure Monitor

14-2024

Sorting plant Trivalo 33 in Illats, France, by courtesy of Paprec Group

Content

1 Waste-to-Energy / MBT	2	3 Anaerobic digestion / biogas	34
1.1 WtE projects	2	3.1 Projects agriculture	34
1.2 WtE plants	9	3.2 Projects biowaste	38
1.3 MBT & pre-treatment	11	3.3 Company news	40
1.4 Company news	14	3.4 Policy & others	42
1.5 Policy & others	15		
2 Material recycling	17	4 Biomass to Energy	44
2.1 Dry Recyclables	17	4.1 Projects	44
2.2 Packaging	18	4.2 Plants	47
2.3 Plastics	19	4.3 Pellets, Pulp, Sugar & Co.	49
2.4 Chemical recycling	21	4.4 Company News	50
2.5 Metal	22	4.5 Policy & others	51
2.6 Paper	24	5 Other waste streams	53
2.7 Bulky waste	25	5.1 Other organic waste treatment	53
2.8 E-Waste	25	5.2 Landfills & landfill gas	53
2.9 Batteries	26	5.3 Hazardous and others	53
2.10 C&D, mineral waste	28		
2.11 Other, indefinite	29	Methodology	56
2.12 Company news	30	Glossary, abbreviations	57
2.13 Policy & others	32	General information	58

1 Waste-to-Energy / MBT

1.1 WtE projects

Austria / Valmet to supply turbine control system to Wels WtE plant

Finland-based technology company Valmet Oyj is to deliver a steam turbine control system to Austrian energy company Energie AG's existing WtE plant in Wels, Upper Austria. With this upgrade, the plant is supposed to have a fully integrated control system. Valmet's so-called DNA automation system is to be delivered in April 2024 and start up in June 2024. Information on the cost of the delivery are not provided by the companies.

03.04.2024, www.valmet.com

[Link to source](#)

China / Zhengzhou West WtE plant to be operational by end of year

According to a recent report, construction of the Zhengzhou West WtE project is progressing well and the plant is expected to be operational by late 2024. The project, located in Zhengzhou City, Henan Province, is developed by Zhengzhou Public Utility Investment Development Group Co Ltd with a treatment capacity of 4,500 tpd, consisting of 6x750 tpd grate furnaces and 3x40 MW steam turbine generator sets, entailing a total investment of about RMB 3.5 billion (EUR 446 million).

02.04.2024, huanbao.bjx.com.cn

[Link to source](#)

China / WtE plant commissioned in Puer

It was reported that the new WtE plant developed by Capital Environment Holdings Limited in Puer City, Yunnan Province, received its first truck of MSW and was commissioned recently. As the first phase of the two-phase project, the plant has a treatment capacity of 400 tpd, entailing a total investment of RMB 523 million (EUR 66.6 million).

28.03.2024, huanbao.bjx.com.cn

[Link to source](#)

France / Contract awarded for potential Matoury WtE project

The Communauté d'Agglomération du Centre Littoral de Matoury, French Guiana, has awarded a contract to IDEX Environnement for the design, construction, and operation of a non-hazardous waste storage facility as well as for a potential WtE facility. The WtE plant should have a capacity of 80,000 tpy but is noted as an "optional phase" in the tender award notice, without further specifications. The storage facility is to have a capacity of 40,000 tpy. The contract, which was concluded at the end of February 2024, has a value of EUR 326.3 million. IDEX Environnement is the WtE division of French IDEX Group.

02.04.2024, ted.europa.eu

[Link to source](#)

France / Walloon Region refuses Givet incineration project

The Government of the Walloon Region, Belgium, has issued a negative opinion on the proposed French incinerator for hazardous and non-hazardous waste in Givet, Grand Est, which is close to the Belgian border. The project was proposed by France-based company Givet Recycling (a subsidiary of Belgian company Orian). As stated by the Government, the environmental and health impacts of the project have not been studied sufficiently. Other Municipalities, both in Belgium and France, had previously also expressed their negative opinion on the project. According to the source, the next step would be a decision by the Prefecture of the Ardennes, which is expected in early July 2024.

28.03.2024, www.rtbef.be

[Link to source](#)

Germany / LEAG stops Jänschwalde RDF project

Reportedly, Lausitzer Braunkohle AG (LEAG) decided to end its plans to set up an RDF plant in Jänschwalde, Brandenburg. The project was initially planned as a JV between LEAG and Veolia, however, the cooperation was ended by mutual agreement in May 2023. Ever since, LEAG had been looking for a new project partner, which was not successful. Instead of an RDF plant, LEAG now wants to focus on renewable energy technologies and hydrogen production at the Jänschwalde site, where the company currently still operates a coal power plant. The latter is scheduled to close completely by the end of 2028.

03.04.2024, www.euwid-recycling.de

[Link to source](#)

Israel / Report: plans for WtE and sorting plants near Be'er-Sheva

Plans provide for a WtE plant and a sorting facility in the Ne'ot Hovav industrial zone, near Beersheba (officially Be'er-Sheva). The call for the tender was published in May 2023 already. As further stated, the tender committee is assisted by, amongst others, German engineering company Grotefeld GmbH. However, the source does not provide further details on the exact time schedule of this tender procedure for the currently controversial project. As part of the current plan, it should take 30 months to set up the WtE plant and the company that wins the tender will be granted the right to operate the plant for 25 years. During its operation, it should receive 150,000 to 300,000 tpy of non-recyclable sorted waste residues. The tender is also intended for setting up a mixed waste sorting plant, which is to be built next to the WtE plant. According to the source, a tender published 4 years ago for a similar plant to be built near Ma'ale Adumim (Jerusalem) was cancelled 2 years ago due to political pressure from local residents.

31.03.2024, br7news.co.il

[Link to source](#)

Kyrgyzstan / Construction start expected at Bishkek WtE project

Reportedly, construction works are to begin on the WtE plant by Hunan Junxin Environmental Protection Co Ltd in Bishkek, Chüy. The source does not specify the exact time schedule for the start of works but the finalisation for the plant is scheduled for November 2025. The facility is to be built at the site of a sanitary landfill and should process 850 tpd of MSW. The plant should use a mechanical column furnace technology with associated recovery boilers and turbogenerators. As further stated, it will be equipped with a multi-stage flue gas purification system, using denitrification for deoxidation, a semi-dry reaction column, activated carbon adsorption, as well as a bag dust collector.

29.03.2024, www.vb.kg

[Link to source](#)

Slovakia / Drienov WtE plant approved by Ministry of Environment

According to the source at hand, the WtE project proposed by Bratislava-based engineering and construction company Slor in Drienov, Prešov Region, has received a final approval by the Ministry of Environment. The project includes a WtE plant for pre-sorted MSW with a capacity of 95,000 tpy. It was first proposed in 2019 and has been subject to objection from local residents ever since. In a local referendum on the project in 2023, the majority of participants against it and the Municipality reportedly changed the territorial plan not to include an incineration plant. The current source does not mention how this will affect the proceeding of the project. According to the source, residents have already started procedures to overturn the Ministry's decision. The motion is to be processed by a special commission within the Ministry.

21.03.2024, www.aktuality.sk

[Link to source](#)

Slovenia / Update on Ljubljana WtE plans

The WtE plans in Ljubljana, Central Slovenia, are still on the table. The Mayor of Ljubljana recently commented on the project, stating the future plant would be built in the Ljubljana Marsh (Ljubljansko barje), a marshland in the south of Ljubljana. Further details on the project, such as its planned capacity, the further time schedule or costs, are not known at this point.

26.03.2024, www.plusportal.si

[Link to source](#)

South Korea / Yangsan City confirms WtE replacement project

Yangsan City, South Gyeongsang Province, has now confirmed that its WtE project will be a replacement of the existing plant with a new 200 tpd plant. The project has been under consideration since 2022, however, in the meantime, there were also talks about expanding the current plant by a 140 tpd incinerator. The now confirmed replacement project is to change the incineration technology as well, from the current pyrolysis melting method to a stoker-type incinerator. According to the current time schedule, construction is expected to start in 2027/2028 and completion is envisaged for 2031. Total investment costs are estimated to amount to KRW 110 billion (EUR 75.6 million).

14.03.2024, www.busan.com

[Link to source](#)

UK / WtE plant in Fife to be fully operational in May 2025

The so-called Westfield Energy Recovery Facility, a WtE plant that is under construction in Fife, Scotland, is scheduled to become operational by May 2025. Construction started in February 2022 and, according to a project manager, the steam turbine and generator package are currently being completed on-site by Siemens. EPC contractor is Switzerland-based plant manufacturer Hitachi Zosen Inova (HZI), which is to hand over the plant to project owner Westfield Energy Recovery Limited at the end of April 2025. Once operational, the plant is to process 240,000 tpy of waste and produce electricity for the national grid and steam.

29.03.2024, www.centrafifetimes.com

[Link to source](#)

Vietnam / Further details on Phú Sơn WtE plant A new source comments on the Phú Sơn WtE plant in Thừa Thiên-Huế Province. The plant reportedly was built at a cost of VND 1.7 trillion (EUR 63.5 million). It was inaugurated in March 2024. Built by Chinese company Everbright Environment, the facility is supposed to be able to process up to 220,000 tpy of waste (600 tpd), generating 12 MWe per hour.

29.03.2024, ven.congthuong.vn

[Link to source](#)

Vietnam / Completion ceremony held for Thang Long's WtE project Construction has been completed at the WtE project by Thang Long Energy Co. Ltd in Bắc Ninh Province. The project is located in Dong Sai village, Phù Lãng commune, Quế Võ district. The plant is now ready to be put into trial operations, which is to happen in the "near future", as stated in the source. The 11 MW plant has a waste processing capacity of 500 tpd. Total project investment amounts to around VND 1.4 trillion (EUR 52.4 million). According to earlier information, the plant features technology from Finland-based BMH Technology Oy and Valmet.

27.03.2024, bacninh.gov.vn

[Link to source](#)

Vietnam / KH2 and TS Group to cooperate on waste management plant South Korea-based green hydrogen company KH2 and Vietnamese energy and waste management company TS Group have entered a cooperation to install a household waste treatment plant. This plant is to utilise an "anaerobic dry distillation technology", using thermal decomposition without the use of oxygen. Reportedly, this technology should "overcome" not further specified limitations of existing incineration pyrolysis plasma technology. The source does not specify where the plant is to be built. However, it was stated that the two companies visited a 400 tpd waste management site close to Hanoi, as well as Hanoi University, which might indicate that the plant is to be built in Vietnam. Other details on the planned facility are not provided in the source.

07.03.2024, www.donga.com

[Link to source](#)

**Zimbabwe / Pomona WtE
plant expected to be
operational in 2026**

Construction is underway at the Pomona WtE plant in Harare and commissioning is now scheduled for 2026, according to a new source. Over the past 2 years, there has been different information regarding the exact type of feedstock and the planned technology to be used for this plant. According to the current source, once operational, the plant is to produce 16 MWe for the national grid. The plant's processing capacity is to be 1,000 tpd, according to information from January 2024.

28.03.2024, www.abc.es

[Link to source](#)

sample issue - ecoprolog GmbH

1.2 WtE plants

Belgium / Update on Wilrijk WtE plant's trial environmental permit

The Wilrijk WtE plant in Antwerp, Flemish Region, currently operates on a 2-year trial environmental permit. The permit was issued to plant operator ISVAG in November 2022 and is valid until November 2024. Until then, a new environmental report and permit process is required to further operate the plant. According to the source at hand, measurements carried out by the Flemish Government have found PFAS in the gases emitted by the plant. The Aartselaar Environment and Nature Council (MINA) has therefore now requested an immediate closure of the plant.

18.03.2024, www.nieuwsblad.be

[Link to source](#)

Lithuania / Capacity increase for Klaipėda WtE does not require EIA

The Environmental Protection Agency of Lithuania has decided that Gren, which operates Klaipėda's WtE plant named Gren Klaipėda, does not require an EIA to increase its capacity. In January 2024, the company announced plans to raise the plant's annual capacity by almost 10% through less frequently stopping its activities. Instead of every year, the plant is to stop operations for up to 4 weeks every 2 years.

19.03.2024, ve.lt

[Link to source](#)

Norway / ACC to conduct pre-FEED for CCS at Heimdal WtE plant

Norway-based technology company Aker Carbon Capture (ACC) has been commissioned with a pre-FEED for carbon capture at the Heimdal WtE plant in Trondheim, Trøndelag, by energy company Statkraft. The proposed installation (based on ACC's modularised Just Catch 400 unit) should capture 220,000 tpy of CO₂, which is then to be permanently stored. The pre-FEED covers CO₂ capture, compression, purification, liquefaction, and temporary storage of CO₂. Further details about this project are not mentioned in the source.

01.04.2024, akercarboncapture.com

[Link to source](#)

UK / Viridor enters agreement with Government on Runcorn CCS project

UK-based company Viridor and the UK Government's Department for Energy Security and Net Zero (DESNZ) have agreed on a statement of principles on Viridor's planned CCS project at the WtE plant in Runcorn, England. According to Viridor, an investment of over GBP 500 million (EUR 583.2 million) is planned to realise the project. As a next project step, Viridor is entering final negotiations with DESNZ in order to finalise a Waste Industrial Carbon Capture contract. According to the source, this could potentially also secure financial support from the Government. The envisaged CCS plant is to capture around 900,000 tpy of carbon. According to earlier information, it is expected to be installed until 2025.

03.04.2024, www.polymerupdate.com

[Link to source](#)

sample issue - ecoprolog GmbH

1.3 MBT & pre-treatment

Croatia / Deadline change for Slavonski Brod tenders The City of Slavonski Brod has changed the deadline for submitting bids for a tender for the construction and equipment of an MSW sorting plant. According to the notice, the new deadline is 25 April 2024. The estimated value of the contract excluding VAT is EUR 3.2 million. The contract should start on 6 May 2024 and have a duration of 10 months.

29.03.2024, ted.europa.eu

[Link to source](#)

Ecuador / Novacero launches new RDF production plant Ecuador-based company Novacero has launched a new project to convert MSW into RDF in Ecuador. However, the source does not specify the current project status, so it is not clear whether the plant is already in operation or still under development. Neither does the source provide information on the exact location. The new waste plant has a processing capacity of 4.5 tph (or 1,200 tonnes per month). As stated in another source, the project is worth around USD 3 million (EUR 2.8 million).

27.03.2024, www.vistazo.com

[Link to source](#)

Greece / Update on Lefkada waste treatment and composting project A new source provides an update on the project to build a waste treatment and composting plant on Lefkada, Ionian Islands. Accordingly, a construction contract has still not been signed between the Municipality of Lefkada and a potential contractor. An initial construction tender was issued in 2019. As stated in the source, the plot of land, where the plant should be built, was not yet handed over by the state to the project owner (which is the Municipality). Apparently, at the end of 2023, the EUR 10 million project received financing from the NSRF (Enterprise Agreement for the Development Framework) and was tendered again, which, according to the source, opened the way for the conclusion of a construction contract.

28.03.2024, ekefalonia.gr

[Link to source](#)

Indonesia / Waste processing plant closed in Denpasar, more to follow

The 450 tpd Tahura Ngurah Rai Integrated Waste Processing Site (TPST) in Denpasar, Bali, has been closed. Furthermore, talks are underway to also close two other TPSTs, the 450 tpd Kesiman Kertalangu TPST and the 120 tpd Padangsembian Kaja TPST. All three plants were set up under a contract between the City of Denpasar and PT Bali Citra Metro Plasma Power (Bali CMPP). They were all supposed to open in 2022, but faced delays. The now closed Tahura Ngurah Rai TPST was never able to operate at full capacity. As further stated in the source, the City now plans to focus on incineration for waste management. Already in 2021, a 1,000 tpd WtE plant was proposed for Denpasar. In December 2022, the Indonesian government announced that it wanted to accelerate the set-up of several WtE plants, also including the one in Denpasar.

21.03.2024, www.balipost.com

[Link to source](#)

Israel / Report: plans for WtE and sorting plants near Be'er-Sheva

Plans provide for a WtE plant and a sorting facility in the Ne'ot Hovav industrial zone, near Beersheba (officially Be'er-Sheva). The call for the tender was published in May 2023 already. As further stated, the tender committee is assisted by, amongst others, German engineering company Grotefeld GmbH. However, the source does not provide further details on the exact time schedule of this tender procedure for the currently controversial project. As part of the current plan, it should take 30 months to set up the WtE plant and the company that wins the tender will be granted the right to operate the plant for 25 years. During its operation, it should receive 150,000 to 300,000 tpy of non-recyclable sorted waste residues. The tender is also intended for setting up a mixed waste sorting plant, which is to be built next to the WtE plant. According to the source, a tender published 4 years ago for a similar plant to be built near Ma'ale Adumim (Jerusalem) was cancelled 2 years ago due to political pressure from local residents.

31.03.2024, br7news.co.il

[Link to source](#)

Norway / Tender floated for small-scale sorting machine in Bingsa

Norwegian public company Attvin AS has published a tender for a sorting machine for its Bingsa MSW processing plant in Ålesund, Møre og Romsdal. According to the contract notice, the current machine is ready for replacement. The estimated value of the contract is NOK 2.5 million (EUR 215,627). The deadline for submitting offers is 30 April 2024.

27.03.2024, ted.europa.eu

[Link to source](#)

Russia / MSW sorting plant completed in Kiginsky

According to state-owned company Russian Environmental Operator (REO), construction works on the MSW sorting complex in Kiginsky, Bashkortostan, have been completed. Amongst others, the complex consists of household waste composting plants with a capacity of 20,000 tpy. The complex is capable of treating 30,000 tpy of household waste, which is not suitable for further disposal, as further stated by REO. In addition, the complex is expected to produce 10,000 tpy of RDF. Reportedly, there are plans to transfer MSW streams from Mechetlinsky, Salavatsky, Kiginsky, and Belokataysky, and later also from the Duvansky district to the plant.

02.04.2024, reo.ru

[Link to source](#)

Slovakia / Košice cement plant to increase RDF use

Building materials company Danucem Slovensko plans to expand its cement plant in Včeláre-Dvorník, Košice Region, which should also use increase its RDF utilisation. This project recently received approval by the Ministry of Environment. The incineration capacity for RDF is to be raised from 64,000 tpy to 115,000 tpy. Some residents have already filed an appeal against the decision of the Ministry of Environment, which is to be dealt with by a special committee within the Ministry. As further stated, the cement plant expansion project received a grant from the Environmental Fund of Slovakia, amounting to EUR 85,000.

21.03.2024, www.aktuality.sk

[Link to source](#)

1.4 Company news

Germany / EEW increased revenue in FY 2023

WtE plant operator EEW Energy from Waste GmbH has increased revenue by 13.6% in FY 2023 compared to the previous year. Revenue totalled RMB 5.8 billion (EUR 737 million [exchange rate of 31 December 2023]) in FY2023. This is according to the annual report published by EEW's Chinese parent company BEHL. The BEHL report reports figures in RMB only. As further stated in the report, BEHL achieved a total incineration capacity of 34,200 tpd in China and Europe at the end of 2023, compared to 32,900 tpd in the previous year. Reportedly, the increase is due to two new plants in Beihai, Guangxi, and Zhangjiagang, Jiangsu. BEHL generated an increase in turnover from RMB 7.9 billion (EUR 1.01 billion) to RMB 8.4 billion (EUR 1.08 billion). The operating result amounted to RMB 2.1 billion (EUR 27 million).

27.03.2024, www.euwid-recycling.de

[Link to source](#)

Malaysia / Cypark Resources publishes Q3/2024 figures

Malaysia-based renewable energy company Cypark Resources Berhad has announced its financial results for Q3 of FY 2024, which ended on 31 January 2024. The company's revenue was MYR 35.89 million (EUR 7.05 million) and net loss amounted to MYR 27.7 million (EUR 5.44 million). Its WtE and waste management division contributed MYR 14 million (EUR 2.75 million) in revenue, while the renewable energy division accounted for MYR 17.9 million (EUR 3.51 million) of Q3 revenue.

29.03.2024, www.klsescreener.com

[Link to source](#)

1.5 Policy & others

UK / Letsrecycle.com Conference 2024 in June

The National Letsrecycle.com Conference 2024 will take place on 6 June 2024 at the Queen Elizabeth II Centre in London, England. The one-day conference is to bring together professionals in waste management, recycling, and broader environmental policy. It will include discussions and workshops on key topics, including recycling, waste management, and corresponding subjects, such as the Emissions Trading Scheme. For further information, please visit: <https://www.letsrecycle.com/event/national-letsrecycle-conference-dinner/>

04.04.2024, [web-eur.cvent.com](https://www.letsrecycle.com/event/national-letsrecycle-conference-dinner/)

[Link to source](https://www.letsrecycle.com/event/national-letsrecycle-conference-dinner/)

UK / Scotland incinerated 8.3% more waste in 2022

The Scottish Environment Protection Agency (SEPA) has published the official Scottish Waste Statistics 2022. The amount of Scottish waste treated by incineration increased by 8.3% in the year under review. Scotland produced 10.16 million tonnes of waste in 2022, according to the statistics. The recycling rate was reported to be 62.3%, the highest since 2011. Landfilling reached a low of 2.3 million tonnes, with 23.2 % of all waste ending up in landfills.

27.03.2024, www.letsrecycle.com

[Link to source](https://www.letsrecycle.com)

sample issue - ecoprogram GmbH

2 Material recycling

2.1 Dry Recyclables

USA / Decision on Lee County MRF postponed For the second time, completion of the proposed MRF in Lee County, Florida, has been postponed. Before that, Commissioners approved the USD 14.5 million (EUR 13.4 million) purchase agreement for the acquisition of a 50-acre parcel of land for the plant with the company Waste Management Inc. (WM). As further stated, the Commissioner announced that the "solid waste recycling facility" is to be reconsidered due to protests. Reportedly, County representatives assured that the materials were dry recyclables and that no hazardous waste or wet waste would be recycled. Public meeting schedules for public participation will be addressed at the next meeting, but must be returned to the Commission by 2 May.

06.03.2024, www.gulfshorebusiness.com

[Link to source](#)

2.2 Packaging

Canada / Machinex to construct beverage containers recycling plant

Canadian company Machinex Technologies reportedly is to set up a recycling facility in Sorel-Tracy, Quebec. The Quebec Beverage Container Recycling Association (QBCRA) and Machinex have signed an agreement for the recycling of aluminum, plastic, and multilayer cardboard beverage containers at this facility. The agreement is part of Phase 2 of the modernisation of the deposit refund system in Quebec. The plant is scheduled to go into operation at the same time as Phase 2, on 1 March 2025. With this agreement, Machinex is supposed to become a key partner in Quebec's deposit-refund system.

28.03.2024, www.newswire.ca

[Link to source](#)

sample issue - ecoprolog GmbH

2.3 Plastics

Czech Republic / Stabilplastik tenders recycling equipment

Plastics manufacturer Stabilplastik has launched a tender for recycling equipment. Lot 1 has a duration of 12 months, includes recycling equipment and has an estimated value of CZK 33.16 million (EUR 1.31 million). The second lot has a duration of 8 months, an estimated value of CZK 9 million (EUR 360,000) and concerns foundry molds. Lot 3 covers grinding machines and has a term of 5 months with an estimated value of CZK 2.85 million (EUR 110,00). The deadline for receipt of offers is 2 May 2024.

27.03.2024, ted.europa.eu

[Link to source](#)

Italy / Construction started at Hera PRF in Modena

Aliplast, a subsidiary of the Hera Group, has started building a PRF for the recycling of rigid plastics in Modena, Emilia-Romagna. While the total investment of the project amounts to around EUR 50 million, the completion is expected by the end of 2025 with full operations scheduled to begin in June 2026. As further stated in the current source, the plant is powered by electricity from the nearby WtE plant and it should be able to produce up to 30,000 tonnes of recycled polymers per year. Moreover, the plant should provide an upcycling process based on rigid plastic waste in particular from sectors such as consumer electronics and the automotive industry.

31.03.2024, news.italy24.press

[Link to source](#)

**Japan / New PRF
commissioned in Tokushima**

Waste management company Sanko Co., Ltd. has announced the completion of a PRF in Tokushima City, Tokushima. The total investment amounted to approximately JPY 320 million (EUR 1.94 million). According to the current source, Sanko Co., Ltd. has recently started buying up mixed plastics such as PP, PE, and PVC to recycle them into high-quality raw materials. Reportedly, for the new facility, a "complete set of crushing, sorting, and cleaning equipment" was delivered by the company ENMA JAPAN (based in Miyoshi Town, Saitama Prefecture). Sanko buys waste from the logistics and manufacturing industries and sells the recycled materials to domestic plastics producers. The target production volume is 1,200 tpy, as further indicated.

01.04.2024, www.nippo.co.jp

[Link to source](#)

sample issue - ecoprolog GmbH

2.4 Chemical recycling

Japan / Construction of chemical PRF completed in Ichihara

Tokyo-based polystyrene producer Toyo Styrene and its parent company Denka have announced that construction was completed at their chemical recycling plant in Ichihara, Chiba Prefecture. The new 3,000 tpy polystyrene pyrolysis plant installed at a Denka site uses technology by US-based company Agilyx. Investment costs amounted to JPY 4 billion (EUR 24.3 million).

03.04.2024, www.mrchub.com

[Link to source](#)

South Korea / Plans for chemical recycling plant in Jeongeup

South Korea-based City Oil Field Inc. and Woori Technology Investment Co., Ltd have announced a cooperation, aiming to set up a chemical recycling plant. The plant is to be built in Jeongeup, North Jeolla Province, with a processing capacity of 24 tpd (or 7,000 tpy). It is to run on City Oil Field's low-temperature decomposition emulsification technology to process waste vinyl and waste plastic into about 4,900 tpy of pyrolysis oil. Information on the project's further time schedule or its estimated costs are not mentioned in the source.

14.03.2024, www.moneys.co.kr

[Link to source](#)

2.5 Metal

Brazil / Ionic Rare Earths, Viridis plan JV for magnet recycling plant

Australia-based companies Ionic Rare Earths and Viridis Mining and Minerals reportedly plan to form a JV to build a magnet recycling plant in Brazil. It is to use Ionic Rare Earths' technology, which the company tested at its pilot plant in Belfast, UK. As further stated, Viridis has entered into two MoUs with the State Government of Minas Gerais and the Municipality of Poços de Caldas, aimed at fast-tracking certain regulations and requirements for the project's advancement. By the end of 2024, the scoping study for the project is to be completed. This is then to be followed by a pre-feasibility study, which the JV plans to conduct within 18 months.

03.04.2024, www.miningweekly.com

[Link to source](#)

UAE / Green Metal Industries plans steel recycling facility in KEZAD

Khalifa Economic Zones Abu Dhabi - KEZAD Group and UAE-based Green Metal Industries have revealed plans for a steel recycling and production plant in KEZAD al Ma'mourah, KEZAD Industrial Area. The AED 367 million (EUR 92 million) project is scheduled to go into operation in the first quarter of 2025 and is to focus on converting scrap metal into high-quality steel products. This should include products such as austenitic, ferritic, duplex, and martensitic stainless steel grades, as well as low and high alloy steel grades.

27.03.2024, www.onearabia.me

[Link to source](#)

USA / OHA plans aluminium recycling plant in Clay County

Secondary aluminium producer Owl's Head Alloys (OHA) is reportedly planning the construction of an aluminium recycling plant in Clay County, Mississippi. The investment in the project amounts to USD 29.2 million (EUR 27.1 million). According to the source, OHA was awarded a long-term contract to supply recycled aluminium to Aluminum Dynamics LLC (ADL) in December 2023.

01.04.2024, www.constructionequipmentguide.com

[Link to source](#)

USA / Expansion started at Spectro Alloys' Rosemount facility

Work has begun on US-based aluminum recycler Spectro Alloys' expansion of its plant in Rosemount, Minnesota. The USD 71 million (EUR 66.6 million) project will use new equipment to sort, melt, and turn consumer scrap aluminum into sheets and billet alloys. According to Spectro Alloy, the company will increase its recycling capacity by up to 120 million pounds per year (54,431 tpy). According to a previous source, the project is to be operational in 2025.

28.03.2024, www.startribune.com

[Link to source](#)

sample issue - ecoprolog GmbH

2.6 Paper

UK / Ekman acquired Allan Morris Recycling

Ekman & Co AB has acquired Allan Morris Recycling for an undisclosed sum. As a wholly owned subsidiary of Ekman & Co AB, the company is to continue to operate under the name Allan Morris Recycling. Allan Morris Recycling operates a paper recycling plant in Deesside, North Wales, with a capacity of up to 75,000 tpy.

02.04.2024, www.paperage.com

[Link to source](#)

sample issue - ecoprolog GmbH

2.7 Bulky waste

Sorry, there're no news for this category in this release.

2.8 E-Waste

Germany / Fire causes damage at e-waste recycling plant in Bavaria

A fire occurred at an e-waste recycling company in Wiedergeltingen, Bavaria. According to another media report, the plant is operated by Riwald Electronics Recycling, which belongs to international steel manufacturer Arcelor-Mittal. A facility equipped with a photovoltaic system burned down, causing financial damage amounting to around EUR 3.5 million.

28.03.2024, www.augsburger-allgemeine.de
[Link to source](#)

India / Plans for LIB and e-waste recycling plant in Uttarakhand

The Technology Development Board (TDB) and start-up Remine India are collaborating to construct a commercial LIB recycling plant in the SIIDCUL industrial area of Sitarganj, Uttarakhand. The plant is also supposed to recycle e-waste. According to the source, the cost of the project amounts to INR 150 million (EUR 1.67 million), of which TDB is to provide INR 75 million (EUR 830,000).

02.04.2024, tennews.in
[Link to source](#)

2.9 Batteries

India / Plans for LIB and e-waste recycling plant in Uttarakhand

The Technology Development Board (TDB) and start-up Remine India are collaborating to construct a commercial LIB recycling plant in the SIIDCUL industrial area of Sitarganj, Uttarakhand. The plant is also supposed to recycle e-waste. According to the source, the cost of the project amounts to INR 150 million (EUR 1.67 million), of which TDB is to provide INR 75 million (EUR 830,000).

02.04.2024, tennews.in

[Link to source](#)

Mongolia / Lead-acid battery recycling plant commissioned

Electrochem Mongolia LLC has commissioned its recycling plant for lead-acid batteries in the Nalaikh district of the capital Ulaanbaatar. According to the source, the plant has a capacity of 7,000 tpy and is capable of processing the lead and chemicals from the batteries.

29.03.2024, www.bestmag.co.uk

[Link to source](#)

UK / Altilium and Talga partner on graphite recycling

British battery recycler Altilium and battery materials and technology company Talga Group Ltd. collaborate on the recycling of graphite from EV batteries. The recycled material is to be used for the production of new battery anodes. Under the partnership, Altilium is to supply Talga with graphite recovered from EV battery waste at its battery recycling technology centre in Tavistock and its pilot plant in Plymouth, both in Devon. Reportedly, the 18,000-square metre pilot plant is scheduled to go into operation in late 2024.

28.03.2024, themalaysianreserve.com

[Link to source](#)

**UK / Recyclus partners with
AA Battery Recycling**

Battery recycling company Recyclus Group Ltd has entered into an agreement with AA Battery Recycling Limited. As part of the agreement, AA Battery Recycling is to send LIBs to Recyclus' Wolverhampton facility for recycling. According to the source, Recyclus is paid fees for receiving the batteries and for selling the black mass and other recyclable materials generated from the recycling process.

27.03.2024, www.sharesmagazine.co.uk

[Link to source](#)

sample issue - ecoprolog GmbH

2.10 C&D, mineral waste

India / C&D waste recycling plant proposed in Tiruchirappalli

Tiruchirappalli City Municipal Corporation plans to set up a 50 tpd C&D waste recycling plant at the landfill in Ariyamangalam in Tiruchirappalli (also called Tiruchi or Trichy), Tamil Nadu. The project has been under consideration since 2023 and is currently in the stage of preliminary works. The INR 60 million (EUR 662,200) project should be finalised by June and then be carried out under a DBFOT (design, build, finance, operate and transfer) model through a PPP.

03.04.2024, www.thehindu.com

[Link to source](#)

Ukraine / KSG Agro plans C&D waste recycling plant in Kherson

Ukraine-based agriculture company KSG Agro announced a project to build a C&D waste recycling plant in Kherson Oblast. The plant is expected to cost around USD 8 million (EUR 7.4 million). It is to include a sorting line for the different C&D materials that enter the plant. Moreover, it should host a processing and recycling line that is to produce, amongst others, pressed blocks and paving slabs. KSG Agro is currently looking for international investors to raise the required investment sum. As of now, the plant is to be operational in about 2.5 years from now, as further stated in the given source.

02.04.2024, www.demolitionandrecycling.media

[Link to source](#)

2.11 Other, indefinite

Sweden / Renewcell received offers for its business and assets According to current sources, Swedish textile recycling company Renewcell has received several offers for its business and assets. This follows Renewcell's announcement to file for bankruptcy in February 2024. The bids are reportedly under review and a final closing is expected for mid-April 2024. The details of the bids have not yet been disclosed.

01.04.2024, www.newsgroove.co.uk

[Link to source](#)

sample issue - ecoprolog GmbH

2.12 Company news

Germany / Pyrum publishes FY 2023 figures Germany-based tyre recycler Pyrum Innovations AG has published its results for FY 2023. The company recorded a 17% increase in revenue to EUR 1.1 million. The consolidated net loss for the year amounted to EUR 9.61 million, compared to a net loss of EUR 7.8 million in the previous year.

02.04.2024, 320grad.de

[Link to source](#)

Germany / Otto Dörner publishes FY 2022 results Hamburg, Germany-based waste management group Otto Dörner GmbH & Co. KG has published its results for FY 2022. The Group generated a turnover of EUR 235.5 million, which is a decrease of EUR 15 million compared to the previous year. As further stated by industry magazine Euwid, for 2023, the company's website now states a turnover of EUR 275 million. The net profit fell from EUR 13.6 million in 2021 to just under EUR 7.3 million in 2022. In FY 2022, the largest share of the company's sales, EUR 157.3 million, came from the waste management segment and another EUR 75.7 million in revenue was generated from the trade and production of bulk goods.

28.03.2024, www.euwid-recycling.de

[Link to source](#)

India / Sabic and Pashupati partner on plastic recycling Chemical company Sabic has signed an Lol with Indian plastics recycler Pashupati Group. The Lol reportedly aims to develop plastic recycling opportunities in India. As part of the agreement, Pashupati is to provide its mechanical and chemical processing expertise for used plastics, while Sabic should focus on the marketing and distribution of recycled products. According to the source, the Lol includes a recycling project for converting plastic waste into pyrolysis oil, which Sabic is supposed to use for producing new polymers.

02.04.2024, plasticker.de

[Link to source](#)

UK / Ekman acquired Allan Morris Recycling

Ekman & Co AB has acquired Allan Morris Recycling for an undisclosed sum. As a wholly owned subsidiary of Ekman & Co AB, the company is to continue to operate under the name Allan Morris Recycling. Allan Morris Recycling operates a paper recycling plant in Deesside, North Wales, with a capacity of up to 75,000 tpy.

02.04.2024, www.paperage.com

[Link to source](#)

USA / ABTC receives USD 20 million tax credit award

Battery materials technology company American Battery Technology Company (ABTC) has been awarded USD 20 million (EUR 18.4 million) as part of the so-called Qualifying Advanced Energy Project Credits program. ABTC recently started up its 20,000 tpy LIB recycling facility at the Tahoe-Reno Industrial Center in McCarran, Nevada. The company reportedly can use the tax credit award, amongst others, to finance equipment and infrastructure for additional operations at the site and for the reimbursement of investment expenditure incurred to date for the project.

03.04.2024, ca.marketscreener.com

[Link to source](#)

2.13 Policy & others

UK / Letsrecycle.com Conference 2024 in June

The National Letsrecycle.com Conference 2024 will take place on 6 June 2024 at the Queen Elizabeth II Centre in London, England. The one-day conference is to bring together professionals in waste management, recycling, and broader environmental policy. It will include discussions and workshops on key topics, including recycling, waste management, and corresponding subjects, such as the Emissions Trading Scheme. For further information, please visit: <https://www.letsrecycle.com/event/national-letsrecycle-conference-dinner/>

04.04.2024, [web-eur.cvent.com](https://www.letsrecycle.com/event/national-letsrecycle-conference-dinner/)

[Link to source](https://www.letsrecycle.com/event/national-letsrecycle-conference-dinner/)

UK / Scotland incinerated 8.3% more waste in 2022

The Scottish Environment Protection Agency (SEPA) has published the official Scottish Waste Statistics 2022. The amount of Scottish waste treated by incineration increased by 8.3% in the year under review. Scotland produced 10.16 million tonnes of waste in 2022, according to the statistics. The recycling rate was reported to be 62.3%, the highest since 2011. Landfilling reached a low of 2.3 million tonnes, with 23.2 % of all waste ending up in landfills.

27.03.2024, www.letsrecycle.com

[Link to source](https://www.letsrecycle.com)

sample issue - ecoprogram GmbH

3 Anaerobic digestion / biogas

3.1 Projects agriculture

Canada / Biomethane project planned in Saint-Nazaire d'Acton AD plant manufacturer Biogest America has signed an Lol with agricultural equipment company Les Équipements Agricoles Sarrazin Ltee to jointly develop a biomethane plant in Saint-Nazaire d'Acton, Québec. Biogest plans to install a plant with its PowerRing technology that should produce 105,000 MMBTU (350 nm³/h) of biomethane for the grid as well as biochar. According to the source, financing has been secured for planned feasibility studies and construction of the plant.

03.04.2024, www.biogest.at

[Link to source](#)

France / Biomethane project proposed in Vieux and Fontaine-Etoupefour Plans for a new biomethane plant covering an area of around 26,400 m² in the municipalities of Vieux and Fontaine-Etoupefour, Normandy, were presented. The plant should utilise agricultural waste and household waste. A new company called Énergies Vallées Orne Odon has been set up to bring together the different stakeholders involved. While negotiations on a lease agreement are still ongoing, the municipalities are examining the feasibility of the project.

02.04.2024, www.ouest-france.fr

[Link to source](#)

France / Appeal against Angerville biomethane plant rejected

The Versailles Administrative Court ruled in favour of company SAS Méthagase and allowed to continue production at the biomethane plant in Angerville, Île-de-France. This decision was made after the Association for the Protection of Health and the Environment (ADSE) lodged an appeal, expressing concerns about environmental pollution and safety risks. However, the court rejected all 17 points raised by the ADSE, which now has 2 months to appeal the decision.

01.04.2024, www.leparisien.fr

[Link to source](#)

India / Phase one of Barsana CBG plant commissioned

Adani Total Gas has announced to have started operations of the first of three phases of its AD plant in the Mathura district of Barsana, Uttar Pradesh. The plant now processes 225 tpd of agricultural waste to produce 10 tpd of CBG. At full capacity, once all three phases of the project are operational, the plant should process 600 tpd of agricultural waste to produce 42 tpd of CBG. In total, investment costs for the project amount to INR 2 billion (EUR 22.36 million).

01.04.2024, www.bhaskar.com

[Link to source](#)

Poland / New biogas project proposed in Janówka

A new biogas project is proposed by Power Hub Energy in Janówka, Greater Poland Voivodeship. The project should process 100 tpd of agricultural waste such as pig slurry, manure, silage from energy crops, or residues from food processing. However, the plant is facing opposition from residents who have expressed concerns about odour nuisance, increased traffic, and loss of property value. The decision on the environmental conditions has been postponed and formal deficiencies in the documentation have been identified, which must be completed. The Regional Directorate for Environmental Protection will submit its opinion by 10 April.

01.04.2024, www.supertydzien.pl

[Link to source](#)

**Portugal / Axpo plans
biomethane plant in Vila do
Conde**

Axpo Iberia, part of Switzerland-based energy producer Axpo Holding AG, has announced plans to build a biomethane plant in Vila do Conde, Porto. The project should process agricultural waste to produce 15 GWh of biomethane for the grid. An initial offtake agreement with Axpo-subsiidiary Goldenergy is in place. Start of operations is planned for late 2025. Axpo is investing EUR 8 million into the initial phase of this project. The company aims to produce 1 TWh of biomethane in Portugal by 2030. The cooperation includes construction, commissioning, and operation by Axpo.

04.04.2024, www.eleconomista.es

[Link to source](#)

**Romania / New biogas
project planned in Paşcani**

A new biogas project is currently being planned in Paşcani, Moldova Region. It should treat 10,000 tpy of cow dung and 2,000 tpy of organic materials of plant origin, both from agro-zootechnical farm Agrocomplex Lunca Paşcani SA, to produce biogas to generate electricity. The plant is expected to generate around 5.4 GWhel annually, potentially reducing carbon dioxide emissions by 5,300 tpy. Further information has not been provided in the source.

29.03.2024, www.presshub.ro

[Link to source](#)

**South Korea / Plans for AD
plant in Buyeo**

A large-scale AD project is currently being planned in Buyeo, South Chungcheong Province. Plans provide for the plant to process 140 tpd of livestock waste and 10 tpd of food waste. Total project costs amount to KRW 47.1 billion (EUR 32.44 million), KRW 37.1 billion (EUR 25.55 million) of which should be supplied by the Province. Construction should start this year. Start of operations is planned for H1/2028.

08.03.2024, m.khan.co.kr

[Link to source](#)

Spain / CapWatt plans biogas project in Junquera de Tera There are plans for a new biogas project by Portuguese electric utility company CapWatt in Junquera de Tera, Castilla y León. The plant should process by-products from the area's livestock farms and sludge. Residents have expressed concerns about air quality and environmental impact and criticised the lack of transparency from the Municipality regarding the project. Further information on the project, such as planned capacity, investment or time plan, have not been provided in the source.

30.03.2024, www.benaventedigital.es

[Link to source](#)

sample issue - ecoprolog GmbH

3.2 Projects biowaste

Brazil / Veolia plans biomethane project in São Paulo

Waste management company Veolia Brasil is planning to build a biomethane plant at its waste management centre in São Paulo. The project should upgrade biogas, which is currently flared at the site, to produce 20 million nm³ of biomethane annually, which should be compressed and injected into the network by gas distributor Comgás. Construction could start this year, provided the final investment decision is made.

04.04.2024, www.bnamericas.com

[Link to source](#)

Netherlands / Biogas upgrading plant installed in Groningen

Dutch technology provider Bright Renewables has installed a biogas upgrading plant in the Province of Groningen. Although the source does not mention an exact capacity, the plant should inject biomethane directly into the grid, covering the annual gas consumption of around 1,150 Dutch households. The system is claimed to minimise energy consumption with an efficiency of over 99.5% and heat recovery. Bright Renewables plans to expand its biomethane projects in the Netherlands and other countries.

02.04.2024, www.bioenergy-news.com

[Link to source](#)

Spain / Research project MICRO4BIOGAS presented

A 4-year research and innovation project called MICRO4BIOGAS has been presented by the University of Valencia. The project aims to improve biogas yield and quality by integrating natural and synthetic microbial consortia to develop a user-friendly kit for bioaugmentation. It involves a collaboration of research universities, SMEs, and government agencies from six European countries and has received funding from the European Union's Horizon 2020 programme.

02.04.2024, www.innovationnewsnetwork.com

[Link to source](#)

Spain / AECOC plans biogas project in Alcarràs

The Association of Manufacturers and Distributors (AECOC) is planning a new project in Alcarràs, Lleida, to convert waste and surpluses of its member food industry companies into biogas and biofertiliser. The project should process 40,000 tpy of organic waste. This initiative is part of AECOC's Open Innovation Programme, which involves 20 leading companies in the FMCG (fast moving consumer goods) and Horeca (hotel, restaurant, catering) sectors.

27.03.2024, www.larazon.es

[Link to source](#)

USA / Bigadan withdraws Ellsworth AD plans

Denmark-based company Bigadan has withdrawn their special use permit application for the AD plant planned at the Cooperative Creamery in Ellsworth, Wisconsin. The company had proposed for the plant to process manure supplied by local farms to produce biomethane for the grid. Local residents were strongly opposed to the plans.

03.04.2024, www.piercecountyjournal.news

[Link to source](#)

3.3 Company news

Australia / Delorean signs biomethane supply MoU with ATCO Bioenergy company Delorean Corporation Ltd. has signed an agreement with energy infrastructure company ATCO Gas Australia Pty Ltd. to connect Delorean's bioenergy projects to ATCO's gas grid to facilitate the supply of biomethane. Delorean and ATCO plan to explore further opportunities to produce and inject biomethane and supply other grid customers under the 12-month MoU, which can be extended if required. The planned initial supply period is 10 years.

03.04.2024, hotcopper.com.au

[Link to source](#)

India / Oil India and Guwahati Municipality to develop CBG projects Oil India Limited (OIL) and the Guwahati Municipal Corporation (GMC) have signed an MoU to convert MSW into CBG. They aim to set up CBG plants, presumably in the Guwahati Municipality, Assam. A specific project has not been mentioned by the source. The two companies intend to create an energy infrastructure that can be replicated in other regions of the country.

03.04.2024, www.constructionworld.in

[Link to source](#)

UK / Low Carbon and Agrivert form JV to produce biogas Renewable energy investment company Low Carbon and food waste recycling company Agrivert have formed a joint venture called Beacon to develop, construct, and manage biogas and biomethane projects throughout Europe. They aim to produce biogas from feedstocks such as manure, food waste, and agricultural residues, and refine this biogas into biomethane to use as gas or convert it into electricity. Beacon aims to contribute to the EU's goal to produce 35 billion m³ of biomethane annually by 2030, which requires an expected investment of EUR 37 billion.

28.03.2024, www.letsrecycle.com

[Link to source](#)

UK / Engie invests in biogas start-up Wase

French energy company Engie has participated in a GBP 8.5 million (EUR 9.95 million) funding package for British biomethane start-up Wase. Wase specialises in biogas production from biowaste through its electro-methanogenic reactor (EMR) system, which is claimed to increase biomethane yields by 30% and reduce production time. The investment is part of a financing round by Extantia Capital with participation from other investors. Engie plans to test this technology at plants near Bristol, England, and aims to reach an annual biomethane production capacity of 10 TWh in Europe by 2030.

27.03.2024, www.lefigaro.fr

[Link to source](#)

USA / Kraft Heinz receives funding to invest in RES projects

The Office of Clean Energy Demonstration of the US Department of Energy will award USD 170 million (EUR 158.24 million) to food producer Kraft Heinz Co. to invest in RES initiatives. The company is planning to set up projects at ten of their factories in the USA to reduce emissions. Amongst others, AD plants and biogas boilers should be installed, but the source does not provide any further technical information on the projects.

28.03.2024, www.supermarketperimeter.com

[Link to source](#)

3.4 Policy & others

Italy / PNIEC update

discussed during CIB hearing

During the Italian Biogas Consortium (CIB) hearing, proposals for updating the National Integrated Energy and Climate Plan (PNIEC) were discussed. The focus was on calling for targets to be set for biogas and biomethane production and on promoting a long-term investment policy. The acceleration of the conversion of biogas to biomethane plants and the introduction of mechanisms to reduce grid connection costs were demanded as well. Furthermore, the development potential of the sector by 2030 was highlighted, including the goal of producing 6.5 billion smc of biomethane and combining this with biogas-based electricity generation.

03.04.2024, agricolae.eu

[Link to source](#)

USA / 541 renewable energy projects awarded under REAP

The USDA's Rural Energy for America Program (REAP) has awarded more than USD 120 million (EUR 111.4 million) in 44 states to support 541 renewable energy and energy efficiency projects. Among the funded projects is Dairyland Biogas LLC in Wisconsin, which will receive a USD 500,000 (EUR 446,000) grant to install energy efficiency equipment in an anaerobic digester. This is expected to save USD 116,000 (EUR 107,500) annually and replace 88% of the company's energy consumption. An entire REAP awards list is available on the USDA website.

02.04.2024, biomassmagazine.com

[Link to source](#)

sample issue - ecoprogram GmbH

4 Biomass to Energy

4.1 Projects

Brazil / Ethanol and biomass project planned in Passo Fundo Brazil's development bank National Bank for Economic and Social Development (BNDES) has awarded a BRL 729.7 million (EUR 134.33 million) grant to biodiesel producer Be8. With the funding, the company plans to build an ethanol and bran factory in Passo Fundo, Rio Grande do Sul. A biomass CHP plant should also be installed at the site. It should power the ethanol plant and supply surplus electricity to the municipal grid. The source does not give insight into the project's time plan.

01.04.2024, brazil.postsen.com

[Link to source](#)

Czech Republic / New tender for works at Mladá Boleslav plant Energy provider ŠKO-ENERGO has issued a new tender for engineering and construction works for the planned modernisation of its coal-fired power plant in Mladá Boleslav, Central Bohemian Region. Applications will be accepted until 15 May. The tendered contract includes retrofitting two coal-fired fluid boilers to incinerate woodchips, the supply of a new boiler, and boiler room modifications. The contract has a duration of 3.5 years, starting in June 2024, and an estimated value of EUR 34 million.

03.04.2024, ted.europa.eu

[Link to source](#)

**Japan / Ozu BtE plant
commissioning to start soon**

Japan Petroleum Exploration Co Ltd (JAPEX) has announced that the commissioning of the Ozu Biomass Power Plant, Ehime Prefecture, should commence this month. Commercial operations should start in summer. The first 25,000 tonnes of wood pellets for the plant have arrived already. At full capacity, the plant should generate 50 MWel of electricity to supply to Shikoku Electric Power Transmission & Distribution Co. Inc. under an FiT agreement. Construction of the project had started in 2022.

03.04.2024, biomassmagazine.com

[Link to source](#)

**Japan / Renova starts up
Ishinomaki plant**

Renewable power producer Renova Inc has announced to have started commercial operations of its 75 MWel Ishinomaki Hibarino biomass plant in Ishinomaki City, Miyagi Prefecture. The plant is fuelled with wood pellets and PKS to generate 530,000 MWhel of electricity for the grid. The plant was initially planned to start operations in September 2023, but the start date was postponed several times due to final adjustments to boilers and turbine equipment.

29.03.2024, renewablesnow.com

[Link to source](#)

**Thailand / Khlong Khlung
biomass plant commissioned**

Energy producer Absolute Clean Energy (ACE) has announced that its biomass plant and roof-mounted solar PV plant in Khlong Khlung, Kamphaeng Phet Province, has started operations. The plant has a total capacity of 20 MWel. 13.31 MWel are fed into the Electricity Generating Authority of Thailand (EGAT) grid under a 20-year FiT agreement.

04.04.2024, www.ryt9.com

[Link to source](#)

USA / Truckee proceeds with biomass plans Truckee Town Council, California, has decided to proceed with plans to install a biomass plant in the town. A feasibility study for the project was completed recently. It assessed options to construct either a biomass CHP plant or a heating and biochar plant. The study also assessed that about 13,000 tpy of woody biomass are available in the area.

27.03.2024, www.sierrasun.com

[Link to source](#)

sample issue - ecoprolog GmbH

4.2 Plants

Belgium / New permit needed for Amel BtE plant

As the existing permit is due to expire, operator 2Valorise will need to apply for a new permit for its biomass CHP plant in the industrial area Kaiserbaracke in Amel, Walloon Region. A new EIA has to be completed for the new permit. 2Valorise, formerly Renogen, is reportedly not planning to change or extend the existing plant, which first started operations in 2006.

28.03.2024, brf.be

[Link to source](#)

Japan / Hokkaido Biomass shuts down two plants

Hokkaido Biomass Energy, a JV by Mitsui & Co. (80%) and Hokkaido Electric Power (20%), has announced to have suspended operations of its biomass plants in Shimokawa Town and Tobetsu Town, Hokkaidō Prefecture. Reportedly, the plants were shut down due to the increased wood prices. The operator has not yet decided whether the plants will restart operations or be sold. When operational, both plants are fuelled with locally sourced wood waste and have capacities of 1.81 MW_{el} and 990 kW_{el}, respectively. The generated electricity is supplied to Hokkaido Electric Power under an FIT agreement.

03.04.2024, rief-jp.org

[Link to source](#)

Turkey / Ezine BtE plant to also process RDF and sewage sludge

Mersin Elektrik Üretim ve Enerji Yatırımları A.Ş. announced plans to expand the input of the Ezine Biomass Energy Facility (BES) to include other materials, i.e. RDF and sewage sludge. The Ezine BES is located in Çanakkale, currently processing around 600 tpd (or 190,000 tpy) of forestry waste. In the future, the plant is to diversify its fuel intake to include, amongst others, animal feces, plant tissue waste, dung waste, sewage sludge, and RDF. The project, worth around TRY 36.5 million (EUR 1.1 million), is to increase the plant's processing capacity to around 1,350 tpd (or 420,000 tpy). The Ezine BES has an energy output of 30 MWe and 99.6 MWt.

29.03.2024, www.enerjigunlugu.net

[Link to source](#)

sample issue - ecoprolog GmbH

4.3 Pellets, Pulp, Sugar & Co.

New Zealand / Foresta to build pellet plant in Kawerau Pine chemicals and pellet producer Foresta Group Holdings has announced to have signed a 30-year lease for a property in Kawerau, Bay of Plenty Region, in order to build a pellet and chemicals plant. The company is investing NZD 300 million (EUR 166.87 million) into the project. The plant should produce black pellets as well as rosins and terpenes. An offtake agreement for 65,000 tpy of pellets is in place with Tailored Energy & Resources Ltd.

03.04.2024, www.voxy.co.nz

[Link to source](#)

sample issue - ecoprolog GmbH

4.4 Company News

France / Voltalia reports on 2023 results

French energy producer Voltalia has published its results for FY 2023. The company reported a net result of EUR 29.6 million, compared to a loss of EUR 7 million in 2022. EBITDA increased by 76% to EUR 241 million. Turnover from energy sales increased by 23% to EUR 299.3 million. The services segment achieved a turnover of EUR 601.9 million, up 71%. Voltalia produces energy with biomass, wind, solar, and hydro plants.

02.04.2024, www.voltalia.com

[Link to source](#)

sample issue - ecoprolog GmbH

4.5 Policy & others

France / EC approves EUR 900 million biofuel subsidy scheme

The European Commission (EC) has approved a new French state aid scheme for energy and fuel production from biomass and hydrogen. The initiative has a budget of EUR 900 million and aims to incentivise transitioning to net zero in the industrial and transport sector. Amongst others, heat, electricity, and fuel production from biomass, such as syngas and biochar, should be supported with direct grants. Only new projects are eligible to participate. Supported projects need to start operations within 36 months from receiving the subsidy.

31.03.2024, hydrogen-central.com

[Link to source](#)

sample issue - ecoprolog GmbH

sample issue - ecoprogram GmbH

5 Other waste streams

5.1 Other organic waste treatment

Sorry, there're no news for this category in this release.

5.2 Landfills & landfill gas

Sorry, there're no news for this category in this release.

5.3 Hazardous and others

France / Walloon Region refuses Givet incineration project

The Government of the Walloon Region, Belgium, has issued a negative opinion on the proposed French incinerator for hazardous and non-hazardous waste in Givet, Grand Est, which is close to the Belgian boarder. The project was proposed by France-based company Givet Recycling (a subsidiary of Belgian company Orian). As stated by the Government, the environmental and health impacts of the project have not been studied sufficiently. Other Municipalities, both in Belgium and France, had previously also expressed their negative opinion on the project. According to the source, the next step would be a decision by the Prefecture of the Ardennes, which is expected in early July 2024.

28.03.2024, www.rtbf.be

[Link to source](#)

Turkey / Ezine BtE plant to also process RDF and sewage sludge

Mersin Elektrik Üretim ve Enerji Yatırımları A.Ş. announced plans to expand the input of the Ezine Biomass Energy Facility (BES) to include other materials, i.e. RDF and sewage sludge. The Ezine BES is located in Çanakkale, currently processing around 600 tpd (or 190,000 tpy) of forestry waste. In the future, the plant is to diversify its fuel intake to include, amongst others, animal feces, plant tissue waste, dung waste, sewage sludge, and RDF. The project, worth around TRY 36.5 million (EUR 1.1 million), is to increase the plant's processing capacity to around 1,350 tpd (or 420,000 tpy). The Ezine BES has an energy output of 30 MWe and 99.6 MWt.

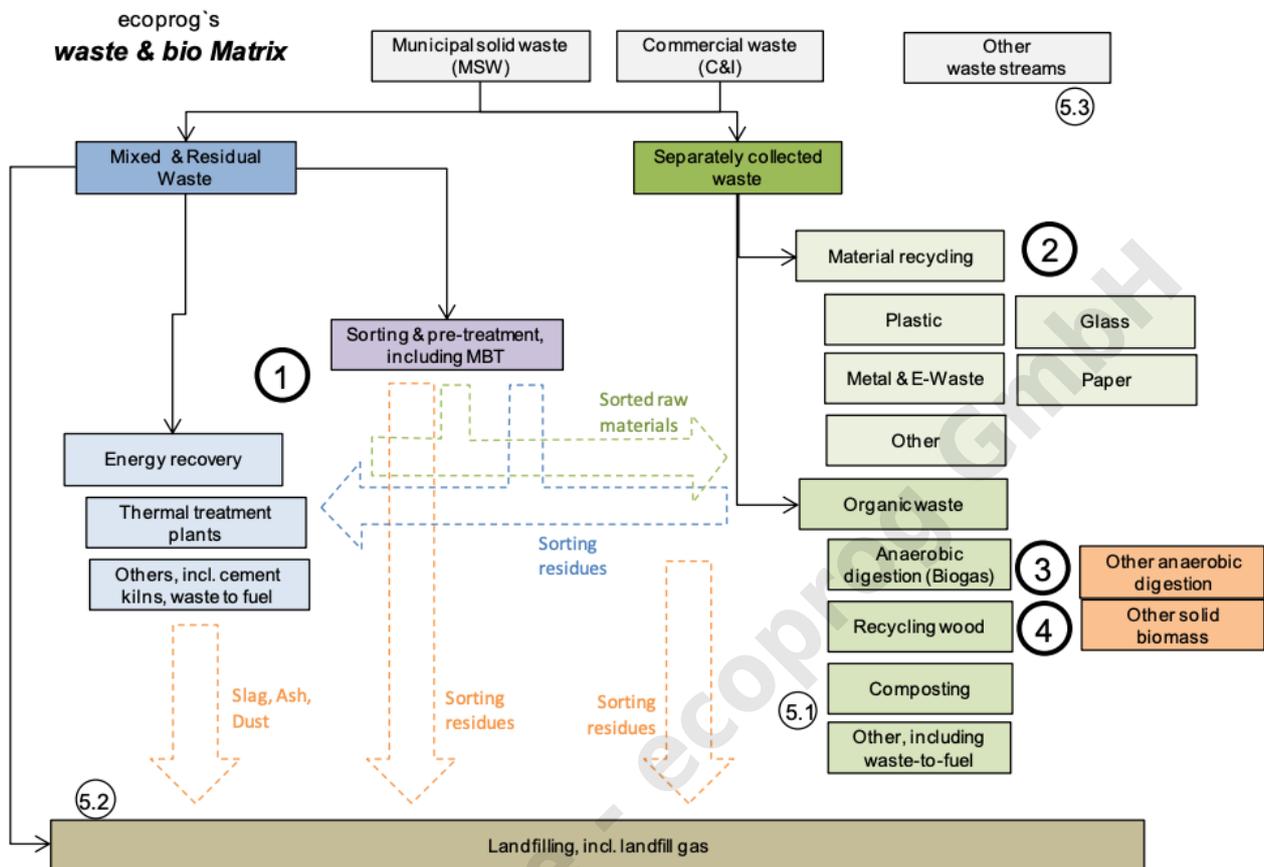
29.03.2024, www.enerjigunlugu.net

[Link to source](#)

sample issue - ecoprolog GmbH

sample issue - ecoprogram GmbH

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.

Glossary, abbreviations

AD	Anaerobic Digestion	JV	Joint venture
BOO	Build-Own-Operate	LIB	Lithium-ion battery
BOT	Build-Operate-Transfer	LNG	Liquid natural gas
BtE	Biomass to Energy	LoI	Letter of Intent
CBG	Compressed biogas	MBT	Mechanical biological treatment
CHP	Combined head and power	MoU	Memorandum of Understanding
C&D	Construction & Demolition	MRF	Materials recovery facility
C&I	Commercial & Industrial	MSW	Municipal solid waste
CNG	Compressed natural gas	O&M	Operation and Maintenance
DBO	Design-Build-Operate	PPA	Power Purchase Agreement
DPR	Detailed Project Report	PPP	Public Private Partnership
EBIT	Earnings before Interest and taxes	PRF	Plastic recycling facility
EBITDA	Earnings before interest, taxes, depreciation and amortization	RDF	Refuse-derived fuel
EfW	Energy from Waste (= WtE)	RES	Renewable energy sources
EIA	Environmental Impact Assessment	RfP	Request for Proposals
EoI	Expression of Interest	RNG	Renewable natural gas
EPA	Environmental Protection Agency	SRF	Solid recovered fuel
EPC	Engineering-ProcurementConstruction	tpd	Metric tonnes per day
EV	Electric vehicle	tph	Metric tonnes per hour
FiT	Feed-in tariff	tpy	Metric tonnes per year
IBA	Incinerator bottom ash	WtE	Waste to Energy (= EfW)
		WWTP	Waste Water Treatment Plant

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.

Should you 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)
Jonas Havel (Editorial Manager)
Tel.: +49 (221) 788 03 88 16
wb-monitor@ecoprolog.com
www.ecoprolog.com

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.

ecoprolog's *waste & bio Infrastructure Monitor* may only be replicated and passed on to third parties with the prior agreement of ecoprolog.

Issued on 05. April 2024