



Hundreds of people live on the dump site in the south of the Thai capital Bangkok and sort the garbage there.



The gigantic mountain of waste should be gone in a couple of decades, and turn into an environmental role model.



Technology from Styria

Graz-based company Christof Industries is building high-capacity garbage incineration plant
A futuristic environmental project in Bangkok, Thailand

Top minds, innovative companies, champion researchers: Styria is among the absolute front-runners in many different branches and sectors. At „Steirerkrone“, we are very happy to report on outstanding entrepreneurial achievements. Today, we are „Dropping in - in Thailand“, where the industri-

al plant builders from Christof Industries are providing the core components for the largest garbage incinerator in the capital city, Bangkok. It is easy to imagine that the 14.5 million inhabitants living in and around this booming Asian metropolis produce quite a bit of garbage...

Samut Prakan, 30 kilometres south of Bangkok. Not exactly a destination for sensitive noses. There are 10 million tonnes of garbage rotting away here, another 2500 tonnes arrive every day. This enormous area has been in use as a dump site for 30 years, the limits to its capacity will soon be reached...

Revolutionary technology

This is where the Styrians at Christof Industries enter the stage. They, through their Swiss-based subsidiary SFA Anlagenbau, have sold Thailand revolutionary incineration technology, known as „Schenkel“ technology, named after its „inventor“, Ernst Schenkel. The contract was signed in 2015, the plant should be up and running by the end of this year.

And what can this little gizmo do? These are the world's only patented, water-cooled grates, which make the plant resistant to damaging materials. Even metal, aluminium and glass would not cause any trouble, and the plant

is very easy to maintain. Or, in layman's terms: the garbage only has to be spread out a little bit before it can be incinerated. This task is undertaken by the hundreds of people who live on the dump site and who comb the garbage for raw materials such as beer cans and plastic, which they then sell. Another speciality: not only new garbage deposits are incinerated, but also build-ups from the past. The goal: to make the dump site disappear completely.

The plant's parameters are impressive to say the least: depending on the make-up of the „fuel“, between 8 and 15 tonnes can be incinerated per hour; around 10 megawatts of electricity are produced.

Direction of travel:

Markets across the globe

For Johann Christof, proprietor and CEO, the Bangkok project is not just an „exciting assignment in an exciting market“, but an „excellent reference that opens the door to success

conquers Asia!

in markets across the globe“. In his words, in Asia in particular, the environmental awareness is growing, authorities and populations are experiencing a major change of perspective. Dump sites are hitting the limits of their capacity, new dump sites meet with opposition, environmental requirements are getting tougher. This results in higher costs, but at the same time makes incineration plants more attractive, not only from an environmental policy perspective, but also from an economic point of view. This, says Christof, explains the direction of travel for his group of companies, which is led from Graz.

Christof experts at work on the ground

Christof adds: „With our know-how, we can go head-to-head even with international

competitors.“ In Asia, negotiations are under way for further projects in Thailand, South Korea, China, and the Philippines. Europe too - where there are over 160 garbage incineration plants that have to be serviced and maintained - is a commercial playing field that is nothing less than exciting. The dump site Samut Prakan, which is operated by one of the largest environmental companies in Thailand,

EPP (Eastern Energy Plus), is sure to become one such showcase project.

cantly further into centre field in the near future...“

On site, numerous experts from Christof Industries are now occupied with assembly and production monitoring. „A massive logistical effort“, explains fellow Christof Industries Board Member Günter Dörflinger, „but one that is worthwhile. We are convinced that producing energy from garbage is a topic that will move signifi-

„Great opportunities in the Asian market“:

Johann Christof and the new reference plant



Kanapod Nitsiriphat and Christof Board Member G. Dörflinger

