

BERJAYA *EnviroParks* Sdn Bhd



STATE-OF-THE-ART WASTE MANAGEMENT FACILITIES

Bukit Tagar Renewable Energy Management Center, Selangor



International Best Practices

Conserving the Environment

Bukit Tagar Sanitary Landfill



ASEAN Energy Award 2016 (Renewable Energy On-Grid Category)



ASEAN Energy Award 2012 (Renewable Energy On-Grid Category) From the ASEAN CENTRE FOR ENERGY



DFS Singapore Environmental Achievement Award (Regional)



CDL Outstanding Singapore Environmental Achievement Award

Bukit Tagar sanitary landfill is the premier sanitary landfill in Malaysia, developed to provide long-term solid waste management solution for Kuala Lumpur and Selangor. A fully engineered facility employing modern technology and international best practices, it sets the benchmark for solid waste management in the country.

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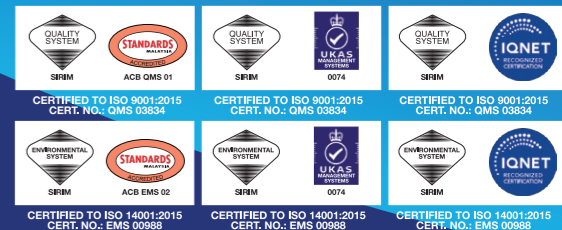
BUKIT TAGAR ENVIROPARKS SELANGOR MALAYSIA



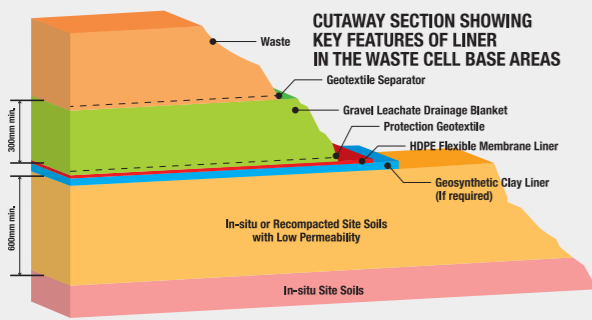
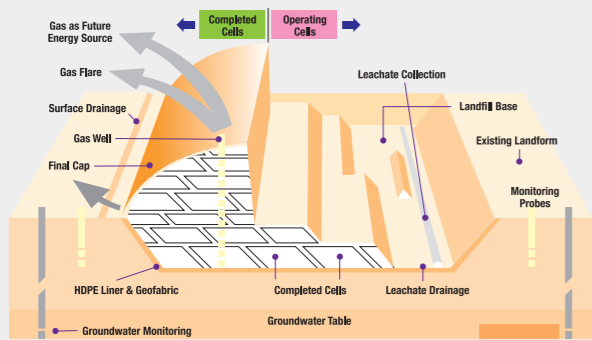
NAZA
BERJAYA *EnviroParks*



KEMENTERIAN PERUMAHAN
DAN KERAJAAN TEMPATAN



Sanitary Landfill Design



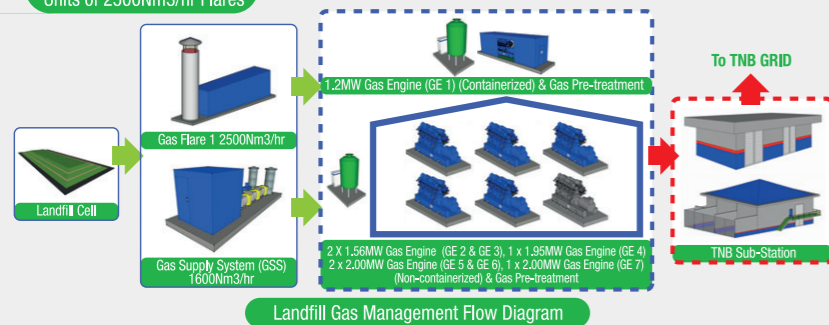
Berjaya EnviroParks Sdn Bhd manages and operates the sanitary landfill at Bukit Tagar EnviroParks ("BTEP") under a long-term concession awarded by the Government and supervised by the KPKT. With an airspace capacity of 120 million tons, this premier engineered sanitary landfill provides sufficient capacity to dispose of solid wastes generated from Kuala Lumpur, Selangor and Putrajaya in excess of 50 years.

BTEP has achieved various recognitions by local and overseas professional bodies.

Landfill Gas Management & Renewable Energy

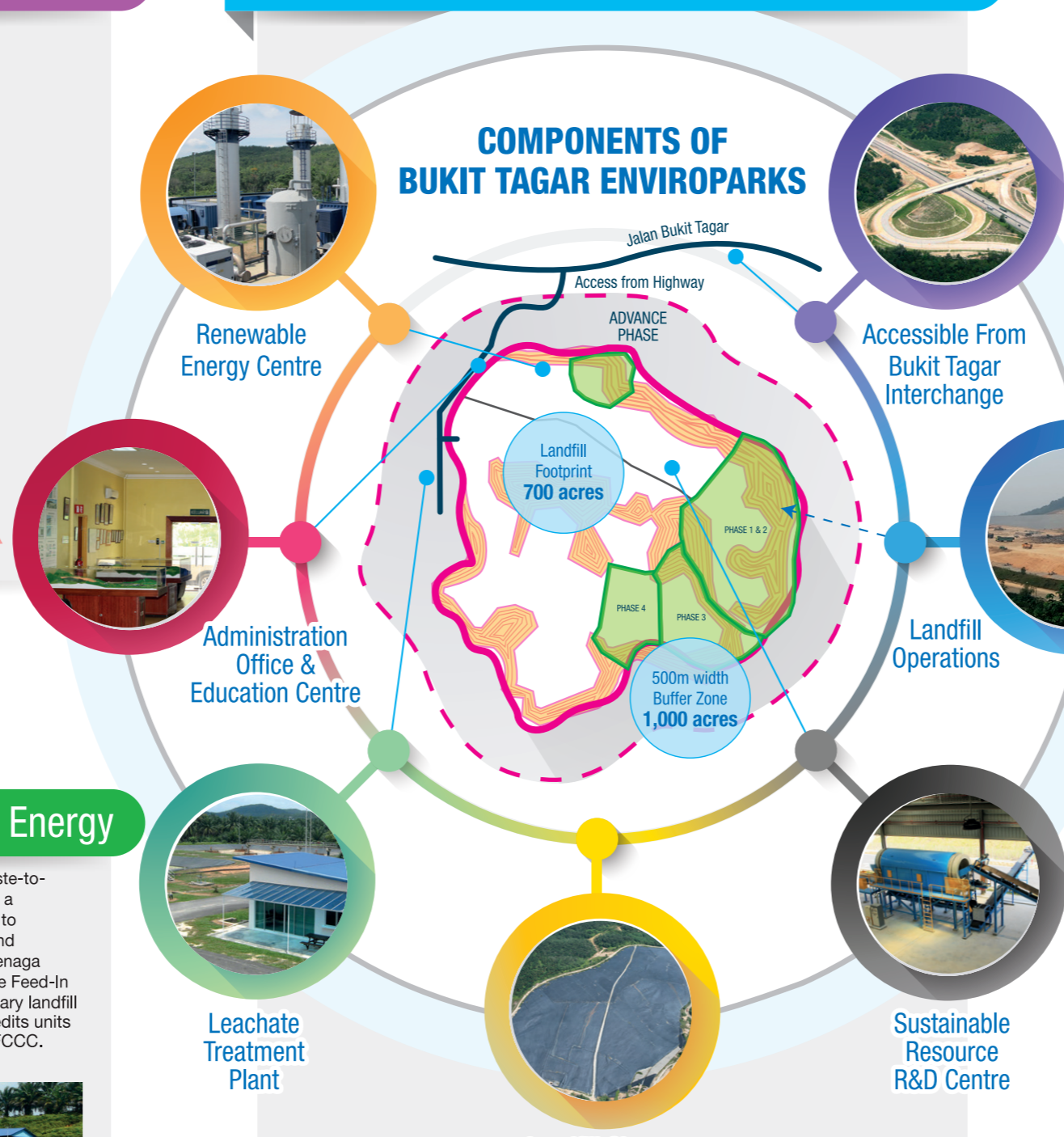
To maintain integrity of the environment, and reflect its standing as a world-class sanitary landfill, BTEP employs a comprehensive landfill gas (LFG) management strategy to treat the LFG and to generate renewable energy from LFG. Generating renewable energy from LFG promotes sustainability of natural resource by reducing the use of fossil fuel in electricity production.

BTEP has one of the largest waste-to-energy project in the nation with a combined 12.4MW gas engines to generate electricity from LFG, and supplying the green energy to Tenaga Nasional Berhad (TNB) under the Feed-In Tariff scheme. It is the first sanitary landfill in Malaysia to have Carbon Credits units successfully issued by the UNFCCC.



Bukit Tagar EnviroParks

COMPONENTS OF BUKIT TAGAR ENVIROPARKS



Landfill Infrastructures



Leachate Treatment Plant

Leachate Treatment Plant



A State-of-the-Art Leachate Treatment Plant has been constructed to adopt worldwide best practices to achieve the strict requirements set by the Department of Environment, Malaysia

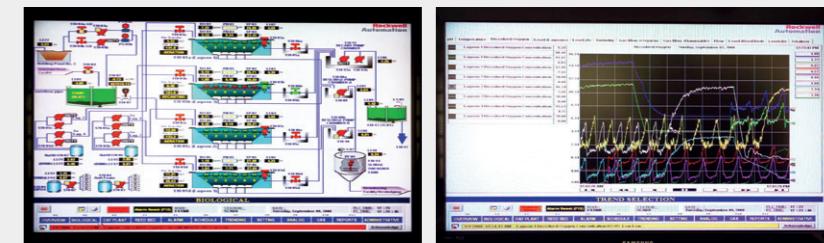
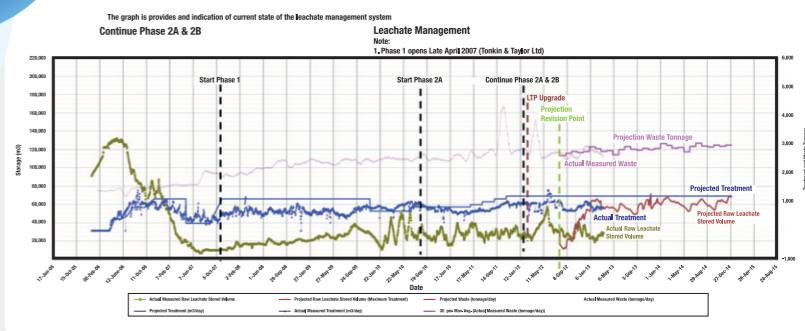
Biological, Physical-Chemical Treatment Processes are operational 24/7 with active monitoring through an advanced SCADA System.

Treatment Capacity of over 2,200 cu.m per day

methanogenic leachate (largest in the region). Treated leachate is sent to the reed beds consisting of phragmites plants for final polishing (first in the region).

Bukit Tagar EnviroParks (BTEP) adopts a 'Zero-discharge' policy to ensure maximum protection to the environment. Treated effluent is irrigated through pumping and sprinkler system over the adjacent 120-acres forest & plantation consisting of 7 zones irrigated alternately.

Leachate Management Software



Leachate Treatment Flow Diagram

