AUSTIN, TX — “We’re going to make it a factory that is going to be stunning; it’s right on the Colorado River. So we’re actually going to have to have a boardwalk over you, hiking, biking trail. It’s going to basically be an ecological paradise,” Elon Musk announced during the company’s earnings call this week.

Tesla’s mission is to accelerate the world’s transition to sustainable energy through increasingly affordable electric vehicles and renewable energy generation and storage systems. At the heart of these products are batteries. Tesla has seen enormous demand for energy products and electric vehicles. Today, there are more than 350,000 Tesla vehicles on the roads worldwide, and we’ve installed over 1 GWh of energy storage across the globe.

The Gigafactory was born out of necessity and will supply enough batteries to support Tesla’s projected demand. In mid-2018, battery production at Gigafactory 1 reached an annualized rate of roughly 20 GWh, making it the highest-volume battery plant in the world. Tesla currently produces more batteries in terms of kWh than all other carmakers combined. With the Gigafactory ramping up production, Tesla’s cost of battery cells will significantly decline through economies of scale, innovative manufacturing, reduction of waste, and the simple optimization of locating most manufacturing processes under one roof.

The Gigafactory is designed to be a net-zero energy factory upon completion. It will not consume any fossil fuels – there is no natural gas piped to the site nor are there permanent diesel generators being used to provide power. Emergency backup is fed from various electric sources, including renewable energy and storage products.

Discover more. View related articles via bdpatoday.com. — Source: Tesla

vBDPA2020: BDPA & UKBlackTech Speakers

LONDON — Mark Martin (right) is one of Industry’s distinguished guests and panelists during BDPA2020 and National BDPA’s 45-year anniversary events coming online next month.

Visit ukblacktech.com, an organization he co-founded. Mr. Martin is highly sought after as an educator, diversity and inclusion champion, and adviser. Last year he was awarded the Most Excellent Order of the British Empire award. Tune in to hear this influential change catalyst August 20, 2020 → bdpa2020.com
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For 40 years, BDPA has enabled the upward mobility of African Americans and other minorities in the Information Technology (IT) and STEM fields. Through its 40+ local community chapters in major cities across the United States, BDPA has been at the forefront of promoting the minority agenda within the IT profession since 1975. BDPA has been a leader and pioneer in technology and STEM training for IT professionals and High School students since 1986.

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bdpatoday PTTV
BDPA, formerly known as Black Data Processing Associates, was established in 1975 and founded in Philadelphia, Pennsylvania to promote professional growth and technical development to those in or entering information and communications technology (ICT) career fields and related industries.

Now in its 45th year (Volume XLV) National BDPA (NBDPA) and participating local BDPA Chapters publish daily and weekly blogs with quarterly or monthly newsletters.

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DAYTON, OH — The Small Business Innovation Research (SBIR) program was established by Congress in 1982 to fund research and development (R&D) by small businesses of 500 or fewer employees. Eleven federal agencies participate in this program, including the Department of Defense (DoD).

The Small Business Technology Transfer (STTR) program was established in 1992 to fund cooperative R&D projects with small businesses and non-profit U.S. research institutions, such as colleges or universities. Five federal agencies participate, including DoD. Both programs focus on projects and services with the potential to develop into products, solutions, or services for both military and commercial sectors.

Small businesses and new startups can respond to Air Force Broad Agency Announcements (BAAs), three times a year. These topics address critical needs identified by U.S. warfighters. Small business proposals are reviewed and awarded SBIR/STTR contracts based on their likelihood to fulfill the identified need.

With the initiation of open innovation topics, through work with AFWERX, Air Force SBIR contracts are being issued with unprecedented expediency. Small businesses that have been awarded a Phase I open innovation topic contract also are being invited to present their solutions for a Phase II contract at Air Force Pitch Day events, where contracts are awarded on the spot. Historically Black Colleges and Universities (HBCUs) are highly encouraged to partner with start-ups and small businesses when pivoting from “Grants-To-Contracts.” Learn and earn more by visiting: https://www.afsbirsttr.af.mil/.

National BDPA is co-hosting an Air Force STTR HBCU Collider with Small Businesses, Start-Ups, and HBCUs during this year’s annual technology conference, BDPA2020.com.  

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Source and photo: U.S. Air Force Research Laboratory (AFRL)
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