



TT 242

Wide Release

Recording Date: 08/17/2022

<https://tinyurl.com/3dbt567z> - This is to Apple Podcasts

<https://tinyurl.com/2s6puysv> - This is for the Patreon Page

	Today(+/- 20 min)	Since Last Show	30 Day Change	YTD Change
TSLA	890.00	-4.09%	9.19%	-25.82%
RIVN	34.45	-7.59%	0.94%	-66.46%
LUCID	16.75	-10.71%	-22.02%	-59.08%
NIO	19.05	-10.56%	-7.88%	-43.08%
NASDAQ	12,705.22	-3.22%	5.35%	-19.75%
S&P 500	4,228.48	-1.60%	5.74%	-11.84%

Show Structure

1. Intro - Follow up on the Bill with any additional info
 - a. Battery Supply
2. Fun Fact - Giga Nevada is aligned on **true north**, which was done so that the equipment can be mapped by GPS and solar panels on the roof can be accurately aligned
 - a. By 2022, Panasonic had shipped more than 6 billion cells from Gigafactory.¹
3. Harald Murphy Media Picks

Joels Battery Chart

Region Purchased	Car Assembled	Models	Austin 4680 (NMC)	Berlin 4680 (NCA)	US CATL (LFP)	China CATL Prismatic (LFP)	China LMFP (Manganese/iron/Lithium)	China BYD (LFP) - (Blade Structural)	Japan Panasonic (NCA) 18650	LG 2170 (NMCA)	US Kato 4680 (NMC)	US Nevada 2170 (NCA)
Asia/Oceania	Shanghai	Model 3 Standard Range										
	Shanghai	Model 3 Long Range										
	Shanghai	Model 3 Performance										
	Shanghai	Model Y Standard Range					Coming on line					
	Shanghai	Model Y Long Range					Coming on line					
	Shanghai	Model Y Performance										
	Fremont + Shanghai	Model S										
	Fremont + Shanghai	Model X										
Europe	Shanghai	Model 3 Standard Range										
	Shanghai	Model 3 Long Range										
	Shanghai	Model 3 Performance										
	Berlin	Model Y 270 mile						Coming on line				
	Shanghai + Berlin	Model Y Long Range			Coming on line							
	Shanghai + Berlin	Model Y Performance			Coming on line							
	Fremont/Tilburg	Model S										
Fremont/Tilburg	Model X											
North America	Fremont	Model 3 Standard Range										
	Fremont	Model 3 Long Range										
	Fremont	Model 3 Performance										
	Austin	Model Y Structural	Coming on line									
	Austin + Fremont	Model Y Long Range										
	Austin + Fremont	Model Y Performance										
	Fremont	Model S										
	Fremont	Model X										
Global	Lantheop + Nevada	MegapackXL			Coming on line							

https://docs.google.com/spreadsheets/d/1_Y7T7SqTiZlwffW57IFQpqVDZtGo4-BhtC22FLifAg/edit?usp=sharing

<https://www.scmp.com/business/article/3173647/shortage-ev-battery-raw-material-graphite-could-delay-global-drive-go>

Proportion by weight of the recyclable material in a lithium-ion battery (source: Volkswagen)

Recyclable material	Proportion by weight [kg] (based on a total battery mass of 400 kg)
Aluminum	126
Graphite	71
Nickel	41
Electrolyte	37
Copper	22
Plastic	21
Manganese	12
Cobalt	9
Electronics	9
Lithium	8
Steel	3
Residual	41

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The Harald Murphy MEDIA PICKS

- **Mel** - We crashed - WE work documentary - 5 days at memorial
- **Robert**
- **Tom** - the Recipe Club - Podcast

- Joel - - The spelled-out intro to neural networks and backpropagation: building micrograd
<https://www.youtube.com/watch?v=VMj-3S1tku0>