## **NEWMARK**

# Industrial Insight

### POWER PLAY: HOW EVOLVING ENERGY NEEDS WILL SHAPE THE INDUSTRIAL MARKET

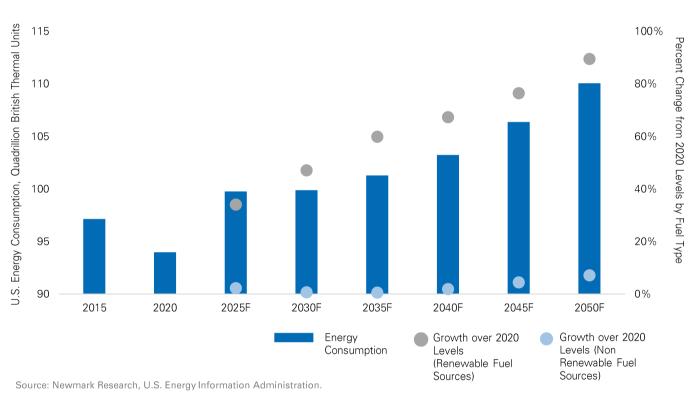
The nation's industrial sector is a primary consumer of energy, from the power-intensive processes of manufacturing, to fueling the storage and movement of goods through the supply chain. Industrial energy demand will increase over the coming decades due to multiple factors:

- Growth of established and emerging industrial sectors. Established industrial sectors (cold storage, advanced manufacturing) and emerging sectors (vertical farming, crypto-mining) require significant amounts of power, and are expanding domestically and competing for industrial sites.
- Automation adoption within industrial facilities. Investment in robotics/automation to optimize industrial operations is forecast to accelerate<sup>1</sup>, and new development is built with agile automation solutions in mind. The use of automation, which supports overall net efficiencies and cost savings, requires more power than traditional industrial and logistics operations with legacy technologies.
- On-site infrastructure to support electrified fleets. Fleet electrification is a rapidly growing trend in line with current federal and corporate policy goals. Electric vehicle (EVs) sales doubled from 2020 to 2021, and are forecast to reach a market share of 29.5% of total vehicle sales in the United States by 2030. It is estimated that charging a single electric truck on-site requires at minimum an additional 20 kW of power<sup>2</sup>. Recent geopolitical events have injected greater volatility into global energy markets, which may expedite public-sector and private-industry green initiatives.

Greater energy use brings a heightened focus to energy conservation and the type of energy being consumed. Energy consumption is increasingly considered a key element in corporate Environmental, Social, and Governance (ESG) strategy. The confluence of growing power requirements and accelerating adoption of renewable energy sources will shape industrial facility design, location selection, and the deployment of capital. Investing in sustainable solutions, such as solar panels on a warehouse roof or EV charging infrastructure onsite, has the potential to maximize returns and revenue for developers and investors. Business models between landlords and tenants in mutually-beneficial renewable energy investment are evolving. States with deregulated energy markets, or in which consumers have retail choice among energy providers, offer more options for industrial occupiers considering heavy power needs and ESG strategy. A robust and accommodating industrial development landscape will also be a differentiator for some industrial occupiers in site selection, as many secondary markets are able to offer greater flexibility in land use planning than population-dense, landconstrained gateway markets. The future of industrial energy consumption poses infrastructure and grid resiliency challenges, but great opportunity resides in the solutions.

#### **ENERGY CONSUMPTION WILL STEADILY INCREASE, WITH** RENEWABLES FUELING GROWTH

Forecasted United States Total Energy Consumption and Percent Change in Fuel Source from 2020



#### HOT SPOTS: WHERE CAN USERS FIND AN ATTRACTIVE POWER AND DEVELOPMENT ENVIRONMENT? Scorecard, Energy Metrics and Development Pipeline, Select States Offering Choice Among Energy Providers

	Total Net Electricity Generation		Industrial Avg. Electricity Cost		Power Grid Reliability		Under Construction (Statewide, 1022)	
State	MWh (millions)	State Rank	\$cents/Kwh	State Rank	Avg. # of Interruptions per Customer	State Rank	Total SF, Millions	State Rank
Texas	483	1	4.42	1	1.45	27	104.6	1
Pennsylvania	229	3	5.78	10	1.33	20	37.6	6
California	202	4	14.01	47	0.77	2	64.0	3
Illinois	184	5	6.95	29	0.92	9	27.8	9
New York	132	7	5.99	15	1.63	33	10.8	21
Ohio	120	10	6.20	18	1.34	23	30.1	7
Michigan	117	11	7.79	37	1.37	25	13.0	17
Washington	106	13	5.46	5	1.34	21	10.8	22
Virginia	97	17	6.33	21	1.78	36	23.7	13
New Jersey	71	22	9.00	42	1.59	31	27.7	10
Oregon	62	27	5.98	14	1.13	15	8.4	24
Connecticut	40	34	12.27	44	1.99	44	2.1	36
Nevada	40	35	4.96	3	0.72	1	14.7	15
Maryland	39	36	6.96	30	0.91	8	13.6	16

1 Mordor Intelligence, LogisticsIQ 2 Wood Mackenzie

Lisa DeNight

Director, National Industrial Research t 215-246-2725

lisa.denight@nmrk.com

nmrk.com

Industrial Space