

Statement of

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House Committee on Ways and Means Hearing on the U.S. Tax Code Subsidizing Green Corporate Handouts and the Chinese Communist Party

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Chairman Smith, Ranking Member Neal, and Members of the Committee, thank you for the opportunity to testify before you today.

My name is Dr. Vance Ginn, and I am President of Ginn Economic Consulting, Senior Fellow at Americans for Tax Reform, Chief Economist at Pelican Institute for Public Policy, and former associate director for economic policy of the White House's Office of Management and Budget from June 2019 to May 2020. In these capacities, my work provides high-quality research and economic insights that champion free-market solutions to let people prosper. It is a pleasure to be here today to testify on an issue hindering prosperity in the U.S. and could continue to do so in the future if things don't change. You can find my full policy brief on the costs of the so-called Inflation Reduction Act's (IRA) tax credits for electric vehicle (EV) battery cells and modules in the Appendix.

Need for Responsible American Budget

Congress has a fiduciary responsibility to be good stewards of taxpayer dollars and practice fiscal discipline when it comes to spending on federal programs. Unfortunately, that has not been the case for many years. This has been magnified from excessive government spending especially since the COVID-19 pandemic and shutdowns, including the IRA, which as I'll discuss will not reduce inflation. There are stark underestimates of the IRA which are costly for Americans driven in part by underestimates of the costs of tax credits for EV battery cells and modules that should be re-estimated and consideration of eliminating them. But before I explain the details, let me note the irresponsible federal spending situation which is destroying economic prosperity.

The national debt is more than \$31 trillion, amounting to about \$95,000 owed per American or almost \$250,000 per taxpayer, and is far more than our country's entire economic output. The Congressional Budget Office (CBO) has projected that the budget deficit will average \$2 trillion annually over the next decade, further adding to the national debt and net interest payments that with higher interest rates will likely surpass \$1 trillion per year soon. This fiscal crisis from excessive government spending has been contributing to multi-decade high inflation, the slowest economic growth from a fourth quarter to the next fourth quarter of only 0.9% from 2021 to 2022 on record without a recession, and 24 consecutive months of negative year-over-year inflation-adjusted average weekly earnings.

We need a different direction with responsible budgeting to stop excessive spending and start spending within our means. Ultimately, Congress should pass a strict spending limit with the maximum growth rate better matching the average taxpayer's ability to pay for government spending, as measured by the rate of population growth plus inflation, which is what I've called the Responsible American Budget. Had Congress simply matched this maximum spending growth

rate from 2003 to 2022, there could have been only a cumulative \$500 billion debt increase instead of the actual increase of \$18.5 trillion, providing \$18 trillion in static savings for taxpayers. In short, Congress should restrain spending now as it is pro-growth and will support more economic prosperity.

Higher Costs of Inflation Reduction Act

The U.S. Congress passed and President Biden signed into law the so-called "Inflation Reduction Act" (IRA) in August 2022. Given updated data and new rules, the IRA will likely cost more than three times more at \$1.2 trillion than CBO's initial cost estimate of \$391 billion. This will contribute to slower economic growth, higher inflation, and less economic prosperity. Contributing to this is higher costs of the tax credits for electric vehicle (EV) battery cells and modules, which subsidize manufacturing of EV batteries and modules by many large U.S. corporations and oftentimes production in China and other countries.

Details of Tax Credits for EV Batteries

Section 13502 of the IRA titled "Advanced Manufacturing Production Credit" includes tax credits for domestically manufactured battery cells and modules. EV producers are currently taking advantage of this new initiative. In 2022, investments in U.S. EV manufacturing grew from \$24.3 billion in 2021 to \$73.6 billion, indicating a much larger cost from these new tax credits than were initially estimated by the CBO. These EV battery production tax credits artificially reduce the cost of producing these battery cells and modules through direct subsidies of taxpayer money to businesses. The amount of a tax credit to the producers of these batteries depends on kilowatt hours (kWh). Battery cells can receive a \$35 tax credit for every kWh of energy the battery produces, while battery modules can receive \$10 per kWh, or \$45 in the case of a battery module that does not use battery cells.

Underestimated Costs

The CBO estimates that funding these tax credits over the next decade (2022-31) could cost \$30.6 billion. Given that the market growth for domestic energy production cannot be fully forecast, the CBO's projected costs for this initiative are unlikely. New estimates by Mercatus Center and Goldman Sachs based on the current growth of the EV market in the U.S. show that the actual cost could be substantially higher. For instance, a manufacturer utilizing the \$35 per kWh tax credit could accrue nearly \$2.5 billion in credits in one year just by producing 70-kWh batteries for one million vehicles. This calculation is consistent with recent EV sales.

Examples of Costs

Last year, Tesla's Model Y was the most-sold EV in America, selling 234,834 units. The Model Y battery starts at 75-kWh. Given these figures, Tesla could have received over \$616 million in tax

credits for its 2022 sales of the Model Y alone. In 2023, Tesla is estimated to produce close to two million EVs, with Model Y production alone anticipated to reach one million units this year. These estimates match Tesla's first-quarter financial report for 2023, which shows that Tesla produced more than 440,000 EVs then. EV production at this level could amount to more than \$5 billion in annual tax credits for Tesla, a single auto manufacturer. Additionally, Ford's Michigan plant with Chinese battery maker CATL alone could cost \$1.5 billion annually in credits.

Updated Cost Estimates

Given these calculations based on just Tesla and GM, the CBO's cost estimate of \$30.6 billion to fund these tax credits is too low. This was recently noted in estimates by Christine McDaniel of the Mercatus Center, who incorporated the full \$45 tax credit across the market over the next decade in her calculations which result in a cost estimate of \$196.5 billion, which is 540% higher than the CBO's estimate. However, using the \$10 and \$35 production credits, "the value drops to \$43.7 billion and \$152.8 billion, respectively." These calculations are based on 75% capacity utilization at battery plants according to announced plant capacity growth in a recent report by Argonne National Labs (ANL). Specifically, ANL notes that the announced capacity increases of "planned battery plants will increase the battery manufacturing capacity in North America from less than 100 GWh in 2021 to approximately 1,000 GWh by 2030."

Additionally, the CBO's original cost estimate was conducted without knowing the guidance from the Biden administration regarding the implementation of the IRA's EV provisions. In December 2022, the Treasury Department delayed plans to issue guidance for sourcing requirements for EV battery incentives under the IRA. This delay increased the pool of EVs eligible for tax credits as models not expected to comply with IRA's sourcing standards continued to be eligible for the credits. On March 31, 2023, the Treasury finally issued draft guidance on the IRA's EV provisions. This draft guidance reportedly weakens mineral sourcing requirements for EV battery production and could allow the Treasury to consider free trade agreements that could include mineral agreements with the European Union and Japan. This would greatly increase the pool of EVs eligible for the IRA tax incentives beyond what was understood during the passage of the IRA, increasing the demand for EVs and the cost of their taxpayer subsidies.

Even Democrat Sen. Joe Manchin (D-WV) who voted in support of the IRA has criticized Treasury's guidance while warning of the increased cost to taxpayers. Sen. Manchin stated in a press release that "the guidance released by the Department of the Treasury completely ignores the intent of the Inflation Reduction Act...It is a pathetic excuse to spend more taxpayer dollars as quickly as possible and further cedes control to the Chinese Communist Party in the process."

Guidance from the U.S. Treasury Department defining eligibility will play a significant role in understanding the cost of the IRA's EV tax provisions. The CBO's original estimate could not have foreseen the Treasury's proposed expansion of eligibility. New cost estimates should account for the Biden Administration's rule-making that will increase costs for taxpayers.

Conclusion

While the growth of markets is beneficial for overall economic welfare, the expansion of the EV market could easily burden the economy more than it will support it due to these expensive tax credits (and subsidies) provided in the IRA. Although the EV industry in the U.S. is growing, it is still a relatively small player in the overall U.S. economy. Given the over \$31 trillion national debt, the potential costs of these subsidies must be properly understood, especially given the strained economy of high inflation and increasing likelihood of a deeper recession.

Considering these concerns and the fact that it is difficult to define how big the EV market could be over the next decade, policymakers must carefully consider the true costs and benefits of EV tax credits. As such, it is in the public interest of the CBO, along with other nonpartisan agencies and committees responsible for providing Congress with revenue estimates and sound economic analysis, to reassess the original estimates conducted by the CBO. Therefore, these costly tax credits should be scrutinized and possibly eliminated because of their excessive costs and distortions to the marketplace. In short, the IRA will not reduce inflation but it will support higher deficits, higher inflation, and slower economic growth that will contribute to a deeper recession. This is why it would be better called the "Inflation Recession Act."

Thank you for your time. I look forward to answering any questions.

APPENDIX: POLICY BRIEF



THE INFLATION REDUCTION ACT'S COSTLY NEW TAX CREDITS FOR ELECTRIC VEHICLE BATTERIES

AUTHOR: VANCE GINN, PH.D.

APRIL 5, 2023 AMERICANS FOR TAX REFORM

Americans for Tax Reform is a non-profit 501(c)(4) organization that represents the interests of American taxpayers at the federal, state, and local level. Founded in 1985 at the request of President Reagan, ATR has for nearly 40 years publicly advocated for a system in which taxes are simpler, flatter, more visible, and lower than they are today. ATR educates citizens and government officials about sound tax policies to further these goals.

Author's Biography:

Vance Ginn, Ph.D., is president of Ginn Economic Consulting, senior fellow of Americans for Tax Reform, and chief economist or senior fellow at several national and state think tanks. He earned his doctorate in economics at Texas Tech University and has an accomplished career as an economist and university lecturer with experience in public policy, academia, and government. From 2019 to 2020, Dr. Ginn served as the associate director for economic policy of the Office of Management and Budget (OMB) at the Executive Office of the President. He resides in Round Rock, Texas.

Issue:

The Inflation Reduction Act that was passed in August 2022 includes tax credits for battery production for electric vehicles (EV) to help lower the cost and boost domestic production. Due to the rapid expansion of the domestic EV market, the Congressional Budget Office's estimated costs for these tax credits are well below more realistic costs through 2032.

Main Points:

- The Inflation Reduction Act (IRA) passed in 2022 includes battery production tax credits to boost domestic production for Electric Vehicles.
- The Congressional Budget Office (CBO) estimates that these tax credits will cost \$30.6 billion over the next decade.
- New information for the growth of the EV market indicates that the CBO's estimates for these tax credits are well below more current and accurate projections, which show the cost could be nearly \$200 billion.
- This is just one of the underestimated costs of the IRA, and every initiative in the act should be scrutinized, including these costly tax credits that distort the market and hinder economic growth.

Recommendation:

Policymakers should advocate for less government spending and fewer distortions of markets like eliminating the tax credits for the domestic production of EV batteries. Nonpartisan agencies and committees responsible for providing Congress with accurate revenue estimates and sound economic analysis should reexamine their initial cost estimations.

Executive Summary

The U.S. Congress passed and President Biden signed into law the so-called "Inflation Reduction Act" (IRA) in August 2022. The IRA includes many provisions which are now estimated to <u>cost</u> <u>\$1.2 trillion</u> over a decade per Goldman Sachs' more recent analysis compared with the Congressional Budget Office's (CBO) initial estimate of \$391 billion.

Part of this substantially higher estimated cost is because of the new cost estimates for tax credits for electric vehicle (EV) battery cells and modules manufactured in the U.S. Instead of the initially estimated cost of \$30.6 billion by the CBO, new estimates based on more precise projections and growth in the EV market indicate that this could be as high as \$196.5 billion (540% higher than initially estimated) per the Mercatus Center and Goldman Sachs. This higher estimate appears more accurate than the original CBO estimate given the large increase in the EV market and the expanding use of these tax credits.

Given that the cost of these subsidies passed by Congress and communicated to the public appears to be substantially undervalued, the CBO and other nonpartisan agencies and committees responsible for providing Congress with accurate revenue estimates and sound economic analysis should reexamine their calculations.

Introduction

In 2023, <u>60% of Americans</u> are living paycheck to paycheck and credit card debt is soaring to nearly <u>\$1 trillion</u> partially due to persistently high inflation from Congress' over-spending and the Federal Reserve's over-printing of money over the last few years. Increased spending, and therefore taxes, <u>disincentivize work</u> as people keep less of what they earn, thereby reducing economic growth and subsequently resulting in <u>less tax revenue</u>. Given these facts, a thorough cost-benefit analysis should be applied to every new government initiative.

In this brief, we consider a new government initiative in the so-called "Inflation Reduction Act" (IRA) to incentivize the production of battery cells and modules to boost the domestic production of electric vehicles. But we also note how this comes at a substantially higher cost than initially sold to the public, and these tax credits represent a rising cost to taxpayers and a growing burden on their futures.

The Inflation Reduction Act (IRA) and How It Funds EV Batteries

In August 2022, the IRA <u>was signed into law</u> with the reported purpose of fighting inflation by theoretically reducing the deficit through increased taxes and increased government outlays. Supposedly, the IRA will improve equity by reducing domestic "<u>greenhouse gas emissions in 2030</u> by about 40% from their 2005 peak" and investing in domestic energy production, an estimated "<u>\$369 billion in Energy Security and Climate Change programs over the next ten years</u>." The IRA was also created to target health care costs; however, its greatest expenses go toward spending more on domestic manufacturing on unreliable renewable energy.

In short, the IRA was a costly expenditure bill that raised taxes to implement much of the "<u>Build</u> <u>Back Better</u>" plan desired by the Biden administration, which implements a green energy agenda via increased spending, substantial taxpayer subsidies, and added regulations.

Section 13502 of the IRA titled "Advanced Manufacturing Production Credit" includes tax credits for domestically manufactured battery cells and modules. By making it more affordable for manufacturers to produce EVs, ideally, consumers will be able to purchase them at a lower cost, supporting more domestic battery production and consumption. EV producers are currently taking advantage of this new initiative. Driven by the new tax credits, Tesla is moving its battery production away from Germany to Texas, as doing so could "offset more than a third of the cost of EV battery packs." Additionally, in 2022, investments in U.S. EV manufacturing grew from \$24.3 billion in 2021 to \$73.6 billion, indicating a much larger cost from these new tax credits than were initially estimated by the CBO.

Latest Costs of the EV Subsidies

These EV battery production tax credits artificially reduce the cost of producing these battery cells and modules through direct subsidies of taxpayer money to businesses. The amount of a tax credit to the producers of these batteries depends on kilowatt hours (kWh). Battery cells can receive a <u>\$35 tax credit for every kWh</u> of energy the battery produces, while battery modules can receive \$10 per kWh, or "<u>\$45 in the case of a battery module that does not use battery cells</u>."

The CBO estimates that funding these tax credits over the next decade (2022-31) could cost <u>\$30.6</u> <u>billion</u>. Given that the market growth for domestic energy production cannot be fully forecast, the CBO's projected costs for this initiative are hypothetical at best. New estimates based on the current growth of the EV market in the U.S. show that the actual cost could be substantially higher. For instance, a manufacturer utilizing the \$35 per kWh tax credit could accrue nearly \$2.5

billion in credits in one year just by producing 70-kWh batteries for one million vehicles. This calculation is consistent with recent EV sales.

Last year, Tesla's Model Y was the most-sold EV in America, selling <u>234,834 units</u>. The Model Y battery starts at 75-kWh. Given these figures, Tesla could have received over \$616 million in tax credits for its 2022 sales of the Model Y alone. This is based on a conservative estimate that each purchase was for a 75-kWh battery, as the <u>Model Y batteries can be up to 81 kWh</u>. This was also before the IRA tax credits could be fully utilized, as the initiative was only passed in August 2022. In 2023, Tesla is estimated to produce close to <u>2 million EVs</u>, with Model Y production alone anticipated to reach 1 million units this year. These estimates track with <u>Tesla's first-quarter financial report for 2023</u>, which shows that Tesla produced more than 440,000 EVs then. EV production at this level could amount to more than \$5 billion in annual tax credits for Tesla, a single auto manufacturer. Additionally, <u>Ford's Michigan plant</u> with Chinese battery maker CATL alone could cost \$1.5 billion annually in credits.

Given these calculations based on just one manufacturer, Tesla, and the potential tax credits in the billions for GM each year over the next decade, the CBO's cost estimate of \$30.6 billion to fund these tax credits is too low. This was recently noted in estimates by Christine McDaniel of the <u>Mercatus Center</u>, who incorporated the full \$45 tax credit across the market over the next decade in her calculations which result in a top cost estimate of \$196.5 billion, which is 540% higher than the CBO's estimate. However, using the \$10 and \$35 production credits, "the value drops to \$43.7 billion and \$152.8 billion, respectively."

EValuating the cost

Estimates of the budget impact of electric vehicle battery production credits are soaring far beyond what Congress was told before passage in August.



Source: *Forbes* article by Christine McDaniel at Mercatus Center.

These calculations are based on 75% capacity utilization at battery plants according to announced plant capacity growth in a recent report by <u>Argonne National Labs</u> (ANL). Specifically, <u>ANL notes</u> that the announced capacity increases of "planned battery plants will increase the battery manufacturing capacity in North America from less than 100 GWh in 2021 to approximately 1,000 GWh by 2030."



Announced Battery Plant Capacity in North America

This ten-fold increase in capacity substantially increases the likelihood that there will be more tax credits provided than what was assumed by the CBO, even at the 75% capacity utilization rate. This rate is reasonable given projections by the Office of Energy Efficiency and Renewable Energy that by 2030 "<u>production capacity will be capable of supporting the manufacture of roughly 10</u> to 13 million all-electric vehicles per year," representing a 20-fold increase from 2021.

Source: Argonne National Labs



Planned Battery Plant Capacity in North America by 2030

Source: Office of Energy Efficiency and Renewable Energy

Additionally, the CBO's original cost estimate was conducted without the knowledge of important guidance from the Biden administration regarding the implementation of the IRA's EV provisions. In December, a few months after the IRA was signed into law, the Treasury Department <u>delayed plans</u> to issue guidance for sourcing requirements for EV battery incentives under the IRA. This delay increased the pool of EVs eligible for tax credits as models not expected to comply with IRA's sourcing standards continued to be eligible for the credits.

On March 31, 2023, the Treasury finally issued draft <u>guidance</u> on the IRA's EV provisions. This draft guidance <u>reportedly</u> weakens mineral sourcing requirements for EV battery production and could allow the Treasury to consider free trade agreements that could include mineral agreements with the European Union and Japan. This would greatly increase the pool of EVs eligible for the IRA tax incentives beyond what was understood during the passage of the IRA, increasing the demand for EVs and the cost of their taxpayer subsidies. Even Democrat

lawmakers who voted in support of the IRA, have criticized Treasury's guidance while warning of the increased cost to taxpayers. Sen. Joe Manchin (D-WV) issued a <u>press release</u> stating "the guidance released by the Department of the Treasury completely ignores the intent of the Inflation Reduction Act...It is a pathetic excuse to spend more taxpayer dollars as quickly as possible and further cedes control to the Chinese Communist Party in the process."

Guidance from the U.S. Treasury Department defining eligibility will play a significant role in understanding the cost of the IRA's EV tax provisions. The CBO's original estimate could not have foreseen the Treasury's proposed expansion of eligibility. New cost estimates should account for the Biden Administration's rule-making that will increase costs for taxpayers.

Conclusion

While the growth of markets is generally beneficial for overall economic welfare, the expansion of the EV market could easily burden the economy more than it will support it due to these expensive tax credits provided in the IRA. Although the EV industry in the U.S. is growing, it is still a relatively small player in the overall U.S. economy. Given the over \$31 trillion national debt, the potential costs of these subsidies must be properly understood, especially given the strained economy of high inflation and increasing likelihood of a deeper recession. Considering these concerns and the fact that it is difficult to define how big the EV market could be over the next decade, policymakers must carefully consider the true costs and benefits of EV tax credits.

For policymakers to assess the true costs and benefits of the IRA's EV tax credits, accurate cost estimates and economic information are required. Several estimates from respected economic forecasters, as outlined in this brief, are now warning that the true costs of the IRA's electric vehicle incentives hold a substantially higher price tag for taxpayers than was initially projected by the CBO prior to the IRA becoming law. As such, it is in the public interest of the CBO, along with other nonpartisan agencies and committees responsible for providing Congress with revenue estimates and sound economic analysis, to reassess the original estimates conducted by the CBO. The IRA was represented to the American public as legislation that would reduce the national debt and by doing so, help reduce inflation. New analyses raise substantially more doubt that this legislation will reduce deficits and the national debt. The ballooning costs of the "Advanced Manufacturing Production Credit" alone warrant concern, as the cost of this single provision may be well over \$100 billion more than the public understood at the time of the IRA's passage.

Therefore, these costly tax credits should be scrutinized and possibly eliminated because of their excessive costs and distortions to the marketplace.