EXHIBIT H4

1	INTERIM STUDY PROPOSAL 2021 -099
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3	REQUESTING THE HOUSE COMMITTEE ON CITY, COUNTY, AND LOCAL AFFAIRS TO
4	CONDUCT A STUDY ON NET-METERING AND SOLAR POWER, TO STUDY CONCERNS
5	RELATED TO ALTERNATIVE ENERGIES THAT CREATE INEQUITIES IN ENERGY
6	CONSUMPTION COST, TO STUDY THE FATE OF THE MATERIALS USED IN ENERGY
7	CONSUMPTION AT THE END OF THEIR LIFE CYCLE, TO STUDY THE CURRENT METHOD
8	OF RATE CALCULATIONS USED TO PURCHASE POWER FROM SOLAR POWER PRODUCERS,
9	TO STUDY THE LIFE CYCLE OF SOLAR PANELS AND SOLAR POWER INFRASTRUCTURE,
10	AND TO STUDY HOW TO PROPERLY DISPOSE OF THE MATERIALS USED DURING
11	ENERGY CONSUMPTION.
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13	WHEREAS, net-metering and solar power are alternative energies that are
14	used in energy consumption; and
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16	WHEREAS, the impact of alternative energy on energy consumption and the
17	long-term impact of the disposal of end use materials related to solar power
18	are unknown; and
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20	WHEREAS, use of alternative energies may raise concerns that
21	alternative energies create inequities in energy consumption costs; and
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23	WHEREAS, the fate of materials used in net-metering and solar power at
24	the end of their life cycle is unknown; and
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26	WHEREAS, existing methods of rate calculation used to purchase power
27	from solar power producers are inconsistent and often ambiguous; and
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29	WHEREAS, solar panels and infrastructure have a finite life cycle and
30	upon completion of their use in energy consumption leave end use materials
31	that needs to be properly disposed of; and
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33	WHEREAS, there is a need to establish and understand the current method
34	of rate calculations used to purchase power from solar power producers and to
35	understand the life cycle of solar panels and associated infrastructure and
36	how to properly dispose of materials used in the production and use of solar

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    power; and
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           WHEREAS, the solar power industry has finally reached a market cost
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     point that provides affordable systems to the public so long as several key
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     factors are in place, but these key factors vary and need to be understood;
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     and
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           WHEREAS, the two (2) types of available solar panel systems are:
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                 (1)
                      Systems utilized by homeowners; and
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                 (2) Systems utilized by industry, businesses, and
     municipalities, which are also known as solar farms; and
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           WHEREAS, both types of users depend on varying factors to make the use
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     of solar power systems cost-effective to achieve financial equilibrium and
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     any potential changes to the fiscal program governing the use of solar power
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     systems should understand the impacts of any alterations suggested to the
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     systems; and
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           WHEREAS, homeowners rely on tax credits and the net-metering rate at
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     which surplus power is sold back to the utility companies to make the solar
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     power system's return on investment pay off; and
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           WHEREAS, the solar power systems are typically financed as a second
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     mortgage on the homeowner's property, which can lead to difficulties later on
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     with commercial transactions regarding the homeowner's property; and
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           WHEREAS, solar farms primarily serve the same purpose as homeowner's
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     solar power systems to provide energy to use and to create excess power to
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     sell back to the utility companies at a retail rate; and
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           WHEREAS, the volume of the excess energy required to be purchased by
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     utility companies creates an unfair subsidy to the solar farm manufacturer
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     that is then distributed to all other utility customers to make up the cost
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     difference for the power purchased by the utility company; and
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           WHEREAS, the life span of the solar materials is typically twenty (20)
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1 years but there is no fiscal planning for the proper disposal of the 2 materials at the end of their life cycle; and 3 4 WHEREAS, in these cases, the problem could be a great financial burden 5 to the solar farm manufacturer due to the sheer volume of solar materials 6 utilized; and 7 8 WHEREAS, in 2020, over two hundred thousand (200,000) solar panels 9 exist in these types of settings and currently there is no infrastructure in 10 place to address the environmental concerns of managing the volume of anticipated waste material that will be created; and 11 12 13 WHEREAS, the solar power program was initially marketed to homeowners 14 as a way to reduce their energy costs and to create a built-in return of investment by selling surplus power back to the utility companies at a retail 15 16 rate; and 17 18 WHEREAS, the federal government has also developed tax incentives to 19 foster the development of alternative fuel sources that provide incentives to 20 homeowners to purchase solar power systems to assist in the return of 21 investment process; and 22 23 WHEREAS, the expansion of the solar power system program has followed 24 the windmill power program by creating large solar panel farms to power 25 factories and municipal entities such as jails and government buildings to 26 provide energy at no cost and have the return on investment built in with 27 selling surplus power to the utility companies at retail rates; and 28 29 WHEREAS, neither the solar power system manufacturers and their representatives or installers nor the federal government, which incentivizes 30 31 the purchase of the solar power systems, have developed any programs for the 32 disposal of the materials at the end of their life cycle; and 33 WHEREAS, this could be attributed to the long life span of the 34 35 materials but somebody will have to bear the financial responsibility for the

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disposal of the materials when that time comes; and

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1 2 WHEREAS, there are operational, technical, fiscal, and environmental issues that should be resolved first in order to implement any proposed 3 4 changes to the solar power industry program; and 5 6 WHEREAS, proposed changes to the solar power industry program will need 7 to account for: 8 (1) Fiscal impacts of any changes to the solar power industry 9 program including: 10 Current rebates; (A) 11 (B) Tax credits; 12 (C) Other financial incentives created for the solar power 13 industry program; and 14 (D) The energy cost rate at which the power is sold back 15 to the electric utility companies; 16 (2) Life cycle concerns including: 17 Concerns about the environmental impact in the long-(A) 18 term if the materials have reached the end of their life cycle and will need to be disposed of and by whom; and 19 20 That the cost of properly handling these materials, (B) 21 which are currently classed as hazardous electronic waste, will be 22 exponentially higher due to the composition of the materials and the size and volume of the solar panels; 23 24 (3) The solar manufacturer; 25 (4) The representative or installer of the solar manufacturer 26 selling the equipment; 27 (5) The financial institutions funding the purchase of the solar 28 power system; and 29 (6) The homeowner's, businesses', or municipality's return on 30 investment; and 31 32 WHEREAS, the development of a two-tiered system will need to be devised 33 to protect: 34 (1) Those who have already purchased and installed a solar power system based on the fiscal model in effect at the time of purchase; and 35 36 (2) Anyone who purchases and installs a new solar power system

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     purchased in the future under a new fiscal model; and
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           WHEREAS, tax incentives may also play a part in the purchase of solar
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     power systems that need to be considered as well; and
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           WHEREAS, efforts to improve solar power system should:
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                 (1) Develop environmental fees assessed on solar power
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     manufacturers and solar farms to be paid into a remediation fund to assist
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     solar farms with disposal of end use materials;
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                 (2) Explore the development of a logistically detailed program
     for recycling the used solar equipment and the estimated cost of the
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     recycling program per panel; and
                 (3) Explore federal and state laws that currently exist on how
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     existing solar panels are classified to identify necessary changes that may
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     need to be made to reduce the cost of recycling and disposing of the solar
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     panels; and
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           WHEREAS, the solar power industry stretches across several sectors
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     within the community and all relevant community stakeholders should be made a
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     part of the process in clearly identifying the current issues and future
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     concerns; and
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           WHEREAS, the following stakeholders are recommended as a minimum:
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                 (1) Solar power manufacturers and installers;
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                 (2) Financial institutions that loan money to homeowners for
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     solar power systems;
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                 (3) Underwriting and bond companies that underwrite solar farms;
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                 (4) Utility companies who purchase surplus power from solar
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     power manufacturers;
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                 (5) Recycling companies capable of addressing the logistics of
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     establishing a recycling program;
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                 (6) The Division of Environmental Quality; and
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                 (7) The Arkansas Public Service Commission,
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     NOW THEREFORE,
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     BE IT PROPOSED BY THE HOUSE COMMITTEE ON CITY, COUNTY, AND LOCAL AFFAIRS OF
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1 THE NINETY-THIRD GENERAL ASSEMBLY OF THE STATE OF ARKANSAS: 2 THAT the House Committee on City, County, and Local Affairs conduct a 3 study to: 4 (1) Identify the needs and costs associated with net-metering 5 and solar power; 6 (2) Identify the concerns related to alternative energies that 7 create inequities in energy consumption costs, including fiscal, tax, and 8 environmental concerns; 9 (3) Determine the process for disposal of the materials used in 10 energy consumption at the end of the materials' life cycle; 11 (4) Identify the current method of rate calculations used to 12 purchase power from solar power producers; 13 (5) Identify the life cycle of solar panels and solar power 14 infrastructure; 15 (6) Identify the proper and most cost-effective method to 16 dispose of materials used during energy consumption; 17 (7) Develop changes to impact programs affecting alternative 18 energies concerning fiscal and environmental issues; and 19 (8) Identify, propose, and recommend the best practices and establish standards for the needs and costs associated with net-metering, 20 21 solar power, and alternative energy. 22 23 24 Respectfully submitted, 25 26 27 28 Representative Lanny Fite 29 District 23 30 Prepared by: ANS/ANS 31 32 33 34 35 36