
VERIFIED DIRECT TESTIMONY OF ROSALVA ROBLES

1 **Q1. Please state your name, business address and title.**

2 A1. My name is Rosalva Robles. I am the Manager of Planning – Regulatory
3 Support for Northern Indiana Public Service Company LLC (“NIPSCO” or
4 “Company”). My business address is 1500 165th Street, Hammond, Indiana
5 46320.

6 **Q2. Please describe your educational and employment background.**

7 A2. I graduated from Purdue University Calumet with a Bachelor of Science in
8 Accounting and minor in International Business (2004), along with a Master
9 of Business Administration with an Accounting Concentration (2006). In
10 addition, in 2016, I began doctorate course work with Indiana Wesleyan
11 University toward earning my Ph.D. in Organizational Leadership. I began
12 my employment with NIPSCO in 2012 as a Senior Budget Analyst
13 overseeing the capital budgets and accruals of various NIPSCO
14 departments. In 2014, I transitioned to the role of Senior Operations
15 Analyst and was later named Lead Operations Analyst, where I was
16 responsible for the electric generation forecast modeling among other

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 2

1 month-end close and regulatory support reporting duties. In June 2019, I
2 was promoted to my current managerial role. Prior to joining NIPSCO, I
3 worked in the steel and food manufacturing industries, where I performed
4 tax, procurement, and accounting functions. As part of my previous role in
5 the steel industry with supporting state and local taxes, I became a Level I
6 and Level II Assessor Appraiser certified with the State of Indiana through
7 the Department of Local Government Finance. My certification is not active
8 at this time.

9 **Q3. What are your responsibilities as Manager of Planning – Regulatory**
10 **Support?**

11 A3. As Manager of Planning – Regulatory Support, I am responsible for various
12 planning, analytical, and support functions for both NIPSCO's electric and
13 gas portfolios and NIPSCO's Fuel Adjustment Clause ("FAC"), Gas Cost
14 Adjustment (GCA), Regional Transmission Organization (RTO), and
15 Resource Adequacy (RA). This includes oversight responsibilities with
16 generation forecasting and reporting for NIPSCO's electric assets,
17 coordinating the reporting and forecasting for both internal and external
18 parties and entities, and market support functions for NIPSCO's market
19 forecasting models.

1 **Q4. Have you previously testified before the Indiana Utility Regulatory**
2 **Commission ("Commission") or any other regulatory commission?**

3 A4. Yes. I routinely testify before the Commission in NIPSCO's FAC quarterly
4 filings in Cause No. 38706-FAC-XXX (beginning in FAC-126) and
5 previously testified in NIPSCO's RA semi-annual adjustment filings in
6 Cause No. 44155-RA-XX (RA 16 through RA 20).

7 **Q5. What is the purpose of your direct testimony in this proceeding?**

8 A5. The purpose of my direct testimony is to support NIPSCO's request for
9 approval of a (1) Solar Energy Purchase Agreement between NIPSCO and
10 Appleseed Solar, LLC ("Appleseed") dated January 24, 2023 ("Appleseed
11 Solar PPA") for a project being developed in Cass County, Indiana with an
12 installed capacity of approximately 200 megawatts ("MW") (nameplate
13 capacity, alternating current) (the "Appleseed Solar Project");¹ and (2) Wind
14 Energy Purchase Agreement between NIPSCO and Templeton Wind
15 Energy Center, LLC ("Templeton") dated February 13, 2023 ("Templeton
16 Wind PPA") for a project being developed in Benton County, Indiana with

¹ All nameplate capacity MW values in my testimony are stated in alternating current. In various exhibits to the PPAs, MW values may be referenced in direct current which will appear higher than the alternating current equivalent.

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 4

1 an installed capacity of 200 MW (nameplate capacity, alternating current)
2 (the "Templeton Wind Project").² The PPAs provide NIPSCO with 100% of
3 the electrical output of the Projects and any environmental attributes
4 associated with the projects for a term of 20 years beginning at the
5 Commercial Operation Date ("COD").

6 I describe NIPSCO's generation transition plan, including the process
7 NIPSCO followed that led to the execution of the PPAs, and discuss how
8 NIPSCO will integrate the PPAs into NIPSCO's and the Midcontinent
9 Independent System Operator, Inc.'s ("MISO") operations and the viability
10 of renewable energy resources generally. I discuss the terms of the PPAs,
11 including NIPSCO's rights to the production, capacity, and environmental
12 attributes and the related benefits in the form of Renewable Energy Credits
13 ("RECs"). Finally, I describe NIPSCO's proposal for recovering the costs
14 associated with the PPAs. I also support NIPSCO's responses to the
15 Commission's General Administrative Order ("GAO") 2022-01.

16 **Q6. Are you sponsoring any attachments to your direct testimony?**

² The Appleseed Solar PPA and Templeton Wind PPA are collectively referred to as the "PPAs." The Appleseed Solar Project and Templeton Wind Project are collectively referred to as the "Projects."

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 5

1 A6. Yes. I am sponsoring the following attachments, all of which were prepared
2 by me or under my direction and supervision.

Attachment 1-A	Verified Petition
Confidential Attachment 1-B	Appleseed Solar PPA
Confidential Attachment 1-C	Templeton Wind PPA
Attachment 1-D	NIPSCO's 2023 Generation Portfolio
Attachment 1-E	GAO 2022-01 Requirements
Attachment 1-F	Customer Bill Impact

3

4 **Q7. Please describe the Appleseed Solar PPA.**

5 A7. The Appleseed Solar PPA is attached hereto as Confidential Attachment 1-
6 B. Under the Appleseed Solar PPA, Appleseed commits to provide
7 NIPSCO energy generated from approximately 200 MW of installed solar
8 panel capacity at a [REDACTED] (with no adjustments) over
9 a term of 20 years beginning at the COD. The price includes the renewable
10 energy, accredited capacity, generation benefits, and all RECs associated
11 with the energy generated by the Appleseed Solar Project and metered at
12 the point of delivery. Appleseed will receive and retain existing and future
13 tax credits or tax benefits as the owner and operator of the solar energy
14 project. The Appleseed Solar PPA provides that if cost recovery is not
15 approved by the Commission, then either NIPSCO or Appleseed may

1 terminate the PPA. Attachment 1-E provides additional information
2 related to the Appleseed Solar PPA.

3 **Q8. Please describe the Templeton Wind PPA.**

4 A8. The Templeton Wind PPA is attached hereto as Confidential Attachment 1-
5 C. Under the Templeton Wind PPA, Templeton commits to provide
6 NIPSCO energy generated from approximately 200 MW of installed wind
7 capacity at a [REDACTED] (with no adjustments) over a term
8 of 20 years beginning at the COD. The price includes the renewable energy,
9 accredited capacity, generation benefits, and all RECs associated with the
10 energy generated by the Templeton Wind Project and metered at the point
11 of delivery. Templeton will receive and retain existing and future tax
12 credits or tax benefits as the owner and operator of the wind energy project.
13 The Templeton Wind PPA provides that if cost recovery is not approved by
14 the Commission, then either NIPSCO or Templeton may terminate the PPA.
15 Attachment 1-E provides additional information related to the Templeton
16 PPA.

1 **Q9. Are the PPAs clean energy projects for purposes of Ind. Code § 8-1-8.8-2**
2 **and therefore eligible for financial incentives under Ind. Code § 8-1-8.8-**
3 **11?**

4 A9. Yes. The Appleseed Solar PPA is for products generated from a solar
5 energy project. The Templeton Wind PPA is for products generated from
6 a wind energy project. Both PPAs are a clean energy resource under Ind.
7 Code § 8-1-37-4, a renewable energy resource under Ind. Code § 8-1-8.8-10,
8 and a clean energy project under Ind. Code § 8-1-8.8-2(2). NIPSCO is a
9 public utility engaged in the production, transmission, delivery or
10 furnishing of heat, light or power, and an eligible business under Ind. Code
11 § 8-1-8.8-6.

12 **Viability of Renewable Resources**

13 **Q10. Are solar and wind energy viable energy resources?**

14 A10. Yes. Solar and wind energy projects do not use fossil or nuclear fuel in
15 operation, which means no mining or drilling for fuel, no radioactive or
16 hazardous wastes, no use of water for steam or cooling, and no emissions
17 of greenhouse gases or other pollutants. The absence of fossil or nuclear
18 fuel also means the price of solar and wind power is not impacted by the
19 volatility of commodities. Due to meteorological and resource diversity of

1 the MISO footprint, the location of solar and wind projects influences the
2 capacity accreditation and available solar and wind energy for NIPSCO's
3 customers.

4 The Templeton Wind Project is located in Indiana, more specifically the part
5 of Indiana with advantageous meteorological and resource diversity
6 conditions in the MISO footprint. For these reasons, and with advances in
7 wind technology in areas such as wind turbine availability, capacity factor,
8 design and size, and wind mapping,³ wind energy has become a viable
9 source of renewable energy resources on a per megawatt-hour ("MWh")
10 basis.

11 The Appleseed Solar Project is also located in Indiana and is expected to
12 have a production level consistent with its geographic location. In a general
13 sense, within the continental United States, solar production improves the
14 further south and west a project is located. However, with advances in
15 solar technology in areas such as, capacity factor, efficiency, and design and
16 size, solar energy has become a viable source of renewable energy resources

³ Mapping refers to the process of assessing impacts of existing wind resources, restrictions on land use, and other sensitivities that may affect wind energy.

1 on a per megawatt-hour ("MWh") basis in the Midwest.

2 **Generation Transition Plan**

3 **Q11. Please provide an overview of NIPSCO's preferred portfolio as set forth**
4 **in its Integrated Resource Plan submitted to the Commission on October**
5 **31, 2018 ("2018 IRP").**

6 A11. The 2018 IRP resulted in a preferred portfolio for NIPSCO's generation that
7 called for (a) the retirement of 75% of NIPSCO's coal-fired generation by
8 2023 and 100% of the coal-fired generation by 2028, (b) the continued
9 operation of NIPSCO's gas-fired Sugar Creek Generating Station ("Sugar
10 Creek"), and (c) replacement of certain retired generation units largely with
11 wind, solar, and energy storage. Section 9.4 of the IRP described a Short-
12 Term Action Plan, which outlined the key steps NIPSCO should take to
13 select and implement resources to replace the 2023 retirements. The Short-
14 Term Action Plan contemplated an all-source request for proposal ("All-
15 Source RFP"), which NIPSCO undertook on May 14, 2018 and additional
16 RFPs, which NIPSCO undertook in 2019 (the "Phase II RFPs"). Together,
17 the All-Source RFP and Phase II RFPs are referred to as the "2018 IRP RFPs".

18 **Q12. Did NIPSCO perform any additional portfolio analysis after the 2018 IRP**
19 **to support those resource acquisition approval requests?**

1 A12. Yes. As further described by NIPSCO Witness Augustine, NIPSCO
2 performed a portfolio analysis in 2020 ("the 2020 portfolio analysis") as part
3 of its ongoing and periodic review of its generation portfolio. The 2020
4 portfolio analysis demonstrated that when considering the latest
5 expectations for NIPSCO's load requirements, commodity market prices,
6 and expected market rules changes, the Phase II RFPs provided sufficient
7 renewable capacity at a competitive cost to confirm the direction of the 2018
8 IRP's preferred portfolio.

9 **Q13. What is the status of NIPSCO's renewable projects to implement**
10 **NIPSCO's 2018 Short Term Action Plan?**

11 A13. Attachment 1-D shows the projects approved to implement NIPSCO's 2018
12 Short Term Action Plan, which lists each of the projects, certain relevant
13 statistics,⁴ and the current status of each of the projects.

14 **Q14. Please provide an overview of NIPSCO's preferred portfolio as set forth**
15 **in its Integrated Resource Plan submitted to the Commission on**
16 **November 15, 2021 ("2021 IRP").**

⁴ Attachment 1-D excludes the Roaming Bison Project, which was approved in Cause No. 45196 but later canceled because of local zoning changes. The Green River Project was approved in Cause No. 45472, as amended in Cause No. 45818.

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 11

1 A14. As in its 2018 IRP, NIPSCO's 2021 IRP included a retirement analysis to
2 assess different retirement dates for different elements of its existing fleet.
3 The 2021 IRP continued to affirm the retirement of coal-fired capacity as the
4 most cost-effective pathway for customers. As explained further by
5 NIPSCO Witness Augustine, the 2021 IRP concluded that additional solar
6 capacity and a diverse mix of other resources including storage, flexible
7 thermal generation resources/emerging technologies, and market
8 purchases/capacity were necessary additions to the portfolio.

9 **Q15. Please provide an update on the planned coal retirements at NIPSCO's**
10 **R.M. Schahfer Generating Station ("Schahfer").**

11 A15. On February 17, 2021, NIPSCO announced the retirement of two coal-fired
12 units at Schahfer (Units 14 and 15) by the end of 2021. Both Units 14 and 15
13 were retired in October 2021. On May 4, 2022, NIPSCO announced that
14 NIPSCO would be extending the operation of two coal-fired units at
15 Schahfer (Units 17 and 18) through 2025.

16 **Q16. What led NIPSCO to the decision to extend the operation of Schahfer**
17 **Units 17 and 18 through 2025?**

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 12

1 A16. NIPSCO's decision to extend the operation of Schahfer Units 17 and 18
2 through 2025 was based on delays to solar projects that had originally been
3 expected to be online in 2022 and 2023. These delays were caused by factors
4 beyond NIPSCO's control, including Section 201 Tariffs on imported solar
5 panels, a United States Department of Commerce Investigation into anti-
6 dumping and anti-circumvention of such tariffs, and a review of
7 compliance with new forced labor prevention rules, along with general
8 global supply chain and labor availability as a result of the COVID-19
9 pandemic. As further discussed by NIPSCO Witness Augustine, based on
10 these broader market dynamics, NIPSCO engaged in additional analysis
11 that led to this decision to delay the retirement of Schahfer Units 17 and 18.

12 **Q17. Based on supply chain and other market dynamics over the last couple**
13 **years, what steps is NIPSCO taking to ensure it can reliably and**
14 **adequately serve its customers?**

15 A17. First, as mentioned above, NIPSCO has already announced a delay in the
16 retirement of Schahfer Units 17 and 18. Second, NIPSCO is continuing to
17 work with developers for its approved projects to advance the projects to

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 13

1 commercial operation as promptly as possible.⁵ To be clear, disruptions in
2 the solar supply chain have already impacted expected in-service dates, and
3 there are likely to be cost impacts to several of these projects as well. In fact,
4 on March 29, 2023 in Cause No. 45818, the Commission approved
5 amendments to the Green River Solar PPA resulting in revised pricing and
6 other negotiated commercial terms.⁶ Third, as described below, NIPSCO
7 issued a pair of RFPs in August 2022, seeking potential projects or
8 contractual arrangements to address any identified capacity needs.

9 **Q18. Please describe the 2022 RFPs.**

10 A18. NIPSCO retained CRA International d/b/a Charles River Associates, Inc.
11 ("CRA") to assist in the design, administration and bid evaluation of two
12 separate requests for proposals: (1) an RFP for renewable facilities and
13 energy storage options (the "2022 All-Source RFP") and (2) an RFP targeted
14 to procure a resource(s) intended to provide peaking, black start

⁵ NIPSCO is also seeing zoning and permitted challenges with two of its approved solar PPAs.

⁶ See also Cause No. 45832 (AES Indiana petition for approval of increases relating to its Petersburg Energy Center Project approved in Cause No. 45591); Cause No. 45839 (CenterPoint petition for approval of increases relating to its Warrick County Solar Project approved in Cause No. 45501 and Vermillion County Solar Project approved in Cause No. 45600); and Cause No. 45847 (CenterPoint petition for approval of increases relating to its Posey County Solar Project approved in Cause No. 45501).

1 capabilities, and other reliability attributes (the "Schahfer Development
2 RFP") (together, the "2022 RFPs"). The 2022 RFPs included the latest
3 information associated with MISO's seasonal resource adequacy construct,
4 IRA tax credits, and resource costs, as further discussed by NIPSCO
5 Witness Augustine. The 2022 RFPs also provided information related to the
6 latest costs of storage resources and the viability of alternative natural gas
7 peaker options.

8 **Q19. Did NIPSCO perform any additional portfolio analysis after the issuance**
9 **of the 2022 RFPs?**

10 A19. Yes. NIPSCO performed a portfolio analysis in 2023 ("the 2023 portfolio
11 analysis") to incorporate market shifts and changes that have occurred
12 since the 2021 IRP, specifically MISO market rule updates, passage of the
13 federal Inflation Reduction Act, updated market pricing from the 2022
14 RFPs, and portfolio needs. This is further described and discussed by
15 NIPSCO Witness Augustine.

16 **Q20. What changes were made in the 2023 portfolio analysis relative to the**
17 **2021 IRP?**

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 15

1 A20. As explained in greater detail by NIPSCO Witness Augustine, changes to
2 NIPSCO's resources and other market conditions were made in the 2023
3 portfolio analysis relative to the 2021 IRP, including (1) near-term
4 adjustments to NIPSCO's generation resource portfolio to reflect updated
5 projects costs, PPA prices, and online dates for new solar and solar plus
6 storage resources and the retirement date for Schahfer Units 17 and 18, as
7 well as plant capacity ratings and other operation parameters for NIPSCO
8 existing resources; (2) latest information related to MISO's seasonal
9 resource adequacy construct; (3) updated commodity price inputs; (4)
10 resource costs based on the 2022 RFPs; and (5) clean energy and storage tax
11 credit extensions as outlined in the Inflation Reduction Act.

12 **Q21. Is NIPSCO confident that it will be able to reliably and affordably serve**
13 **its customers during and upon completion of its generation transition?**

14 A21. Yes. NIPSCO's 2021 IRP, which included an expanded analysis of
15 reliability, affirmed the early retirement of coal is still cost-effective for
16 customers and replacement resources containing a diverse, flexible, and
17 scalable mix of incremental resources support continued reliability. As
18 outlined by NIPSCO Witness Augustine, and as noted above, the 2023
19 analysis incorporates market shifts and changes that have occurred since

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 16

the 2021 IRP. These changes point to the increased need for capacity advantaged resources in the portfolio. Solar still has high value in the summer season, but with higher capital costs. As demonstrated in the 2022 RFPs, wind has improved economics given the IRA and MISO market rules.

NIPSCO is effectuating the generation transition by reviewing at risk projects that may no longer be viable, pursuing solar and wind PPAs, seeking cost and structure updates that take advantage of IRA incentives, and building a gas peaker at Schahfer. NIPSCO is confident that through its own resource planning efforts and its participation in the MISO market it will be able to serve all its customers reliably and affordably during and upon completion of its generation transition.

Overview of the Projects

Q22. Please briefly describe the Projects.

A22. Appleseed and Templeton are both Delaware limited liability companies with their principal place of business in Juno Beach, Florida. Appleseed and Templeton are both an indirect, wholly owned subsidiary of NextEra, which is the renewable energy subsidiary of NextEra Energy, Inc.

Q23. Please describe NextEra Energy, Inc.

1 A23. NextEra Energy Resources, with approximately 28,940 MW of total net
2 generating capacity at December 31, 2021, is one of the largest wholesale
3 generators of electric power in the U.S., across 38 states and 4 Canadian
4 provinces. This includes over 19,520 MW of Wind (total generating
5 capacity), over 3,466 MW of operational solar and over 755 MW of battery
6 storage. Since 2017, NextEra Energy Resources' subsidiaries have been
7 helping fuel the State of Indiana's economic growth and quality of life and
8 moving our country toward energy independence, with investment over
9 \$734.8 million in the state, annual payroll in the state of approx. \$1.8 million
10 and provide \$2.2 million in annual landowner lease payments.⁷ NextEra is
11 also the parent company / developer for seven of NIPSCO's approved
12 renewable projects.

13 **Q24. Please describe the Appleseed Solar Project.**

14 A24. Appleseed expects to construct, own, and operate a 200 MW solar energy
15 project in Cass County, Indiana that will interconnect to the 345 kV Walton
16 substation owned by Duke Energy Indiana. The Solar Project will be within
17 the footprint of MISO. The Appleseed Solar PPA allows for important

⁷ Response to 2022 All-Source RFP dated September 16, 2022.

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 18

1 capacity accreditation as well as energy production during the summer
2 months while still providing important energy production in the fall,
3 winter, and spring MISO seasons. Appleseed has a fully executed
4 Generation Interconnection Agreement ("GIA") (J992). Further, the
5 Appleseed Solar Project is fully permitted through a special use permit
6 granted by the Cass County Board of Zoning Appeals and all local
7 permitting has been completed. The fully executed GIA and favorable
8 permitting status are two factors that reduce the development risk of the
9 Appleseed Project in terms of other solar projects evaluated in the 2022 RFP.

10 **Q25. Please describe the Templeton Wind Project.**

11 A25. Templeton expects to construct, own, and operate a 200 MW wind energy
12 project in Benton County, Indiana that will interconnect to the 345 kV
13 Westwood substation owned by Duke Energy Indiana. The Templeton
14 Wind Project will be within the footprint of MISO. Templeton is in the
15 Definitive Planning Phase I of the MISO GIA process (J1966). MISO is
16 performing system impact studies and Facility Studies to determine
17 whether transmission upgrades will be necessary. The GIA is expected to
18 be executed by December 2023.

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 19

1 **Q26. How will NIPSCO account for the energy provided by the PPAs?**

2 A26. NIPSCO will take delivery of the energy provided by the PPAs at specified
3 metering points. NIPSCO will be the Market Participant and will make the
4 energy available in the MISO energy market. NIPSCO will pay the seller
5 the contract price per MWh and count this energy as used in the NIPSCO
6 system. NIPSCO will “settle” the sale price for the energy sold into MISO
7 against the price paid for the energy. NIPSCO offers its generation and bids
8 its load into the MISO energy and ancillary services markets daily, along
9 with other sales and purchases, in the end “settling” the costs against
10 revenues. MISO treats these types of renewable projects as dispatchable
11 intermittent resources. As such, the PPAs will be subject to real-time
12 Revenue Sufficiency Guarantee and Excessive Deficient charges assessed
13 under the Open Access Transmission, Energy and Operating Reserve
14 Markets Tariff (“MISO Tariff”).

15 **Q27. Will NIPSCO be able to designate the PPAs as network resources under**
16 **the MISO Tariff?**

17 A27. Yes. The MISO generator interconnection agreement related to the Projects
18 will have network resource interconnection service (“NRIS”) available for
19 their full injection once any required transmission system upgrades at their

1 respective points of interconnection are complete. Having NRIS will allow
2 NIPSCO to designate each generation facility as a network resource to
3 receive Network Integration Transmission Service (NITS) without further
4 study.

5 **Q28. Will Appleseed and Templeton request the Commission decline to**
6 **exercise jurisdiction over each of the Projects?**

7 A28. Yes. Both Appleseed and Templeton will make a filing to request the
8 Commission decline to exercise jurisdiction over the Projects. NIPSCO
9 anticipates that Appleseed will make its filing on or about May 17, 2023,
10 with Templeton making its filing in mid-June.

11 **Q29. What due diligence did NIPSCO conduct when evaluating the**
12 **creditworthiness of potential counterparties?**

13 A29. As part of NIPSCO's due diligence, when evaluating the creditworthiness
14 of potential counterparties, NIPSCO gathered and reviewed credit
15 information during the pre-qualification process in the 2022 RFPs.
16 Counterparties that were investment grade based on their unsecured senior
17 debt rating met the credit requirements. If a bidder did not meet the debt
18 rating requirement or did not have a rating, they were required to post

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 21

1 collateral upon executing a definitive agreement. Appleseed and
2 Templeton satisfy this collateral posting requirement. The financial ability
3 to complete construction, along with the ability to continue successful
4 operation of the project during the term of the PPAs, is key to NIPSCO.
5 NIPSCO has taken this into consideration by including performance
6 security provisions in the PPAs. The PPAs require such performance
7 security be provided to NIPSCO, no later than 30 days after NIPSCO
8 receives state regulatory approval of the PPAs, in the form of either: (1) a
9 guaranty from a qualified guarantor; (2) a letter of credit from a qualified
10 financial institution; or (3) cash (collectively "Security Fund"). In the event
11 Appleseed or Templeton is in default of any obligation under the respective
12 PPA or NIPSCO is otherwise entitled to indemnification or damages under
13 the respective PPA, NIPSCO has a right to access the Security Fund directly
14 to reimburse NIPSCO for any damages or costs incurred as a result of
15 Appleseed's or Templeton's failure to comply with their obligations under
16 the respective PPA.

17 **Q30. How were congestion risks of the Projects assessed?**

18 A30. Congestion risks of the Projects were assessed by Quanta Technology, LLC
19 in performing a nodal congestion analysis. Quanta used the available

1 PROMOD cases from MISO to simulate hourly market operations for a
2 sample of years. The output was then used to determine the expected
3 curtailments, total revenue, congestion, and loss charges for each site under
4 consideration. Sites with greater congestion risk have been appropriately
5 discounted in NIPSCO's site analysis. Consistent with the 2022 RFPs
6 project evaluations, CRA has incorporated expected congestion impacts
7 (positive or negative) into the Locational Marginal Price (LMP) of the 2022
8 RFPs projects into the Levelized Cost of Energy ("LCOE") calculations
9 supported by NIPSCO Witness Augustine.

10 **Q31. How will NIPSCO protect customers against curtailed (non-**
11 **compensable) energy charges?**

12 A31. NIPSCO, Appleseed, and Templeton have agreed to (1) [REDACTED]
13 [REDACTED], (2) work
14 together through an on-going operating committee process to establish
15 Automatic Generation Control set points that attempt to minimize any
16 charges, and (3) collaborate on any disputes prior to any formal legal
17 process.

18 **Q32. What will be the general timeline for construction of the Projects?**

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 23

1 A32. Pre-construction activities for Appleseed will be ongoing until the first or
2 second quarter in the year prior to the COD. At that point, project
3 construction will ramp up, with the majority of the construction activity
4 occurring over the summer, fall, and early winter. Pre-construction
5 activities for Templeton will be ongoing until the third or fourth quarter in
6 the year prior to the COD. At that point, project construction will begin and
7 continue until winter fully sets in. The following spring, construction
8 ramps up quickly, with the majority of the construction activity occurring
9 over the late spring, summer, and early fall. Generally, projects are
10 expected to be complete in the fourth quarter of the year. [REDACTED]

11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED].

16 **Q33. Please describe the environmental attributes that NIPSCO will obtain in**
17 **conjunction with the Projects.**

18 A33. As used in the PPAs, the phrase "environmental or renewable
19 characteristics or attributes" is contained within the definition of the term

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 24

1 RECs and is intended to capture any changes to governmental rules,
2 regulations or law, or changes to registration systems put in place over the
3 term of the PPA. I refer to the environmental attributes acquired pursuant
4 to the PPAs as RECs, which are tradable credits corresponding to each
5 MWh of electricity generated by a renewable-fueled or environmentally
6 friendly source. NIPSCO anticipates the RECs it receives pursuant to the
7 PPAs will be tracked through the Midwest Renewable Energy Tracking
8 System ("M-RETS"). M-RETS is a database that tracks relevant information
9 about renewable energy produced and delivered in the Upper Midwest,
10 including the MISO footprint, to verify for subscribers in states with
11 mandatory or voluntary renewable portfolio standards, or for utility and
12 other participants, the RECs made available to them through REC
13 purchases and sales. M-RETS tracks the ownership of RECs and generation
14 attributes that result from the generation of renewable electricity.

15 **Q34. How will the costs of the PPAs be recovered?**

16 A34. NIPSCO is proposing to recover the costs of the PPAs throughout the full
17 20-year term of the agreement through a rate adjustment mechanism
18 pursuant to Ind. Code §§ 8-1-2-42(a) and 8-1-8.8.11. For administrative
19 efficiency and simplicity, NIPSCO proposes the timely cost recovery be

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 25

1 administered through NIPSCO's FAC proceedings (or successor
2 mechanism). Furthermore, NIPSCO is seeking approval of power
3 purchases pursuant to the PPAs as reasonable throughout the entire term
4 of the agreement and therefore also seeking confirmation that the costs
5 thereof are recoverable through the FAC proceedings (or successor
6 mechanism) without regard to the Ind. Code § 8-1-42(d)(1) test or any other
7 FAC benchmarks.

8 **Q35. Please describe the expected value of the RECs and how NIPSCO intends**
9 **to pass that value back to its customers.**

10 A35. The qualitative versus quantitative value of the RECs associated with the
11 energy delivered is discussed by NIPSCO Witness Lee. NIPSCO will
12 monitor and evaluate the marketability for the RECs. Any proceeds from
13 the sale of the RECs will be passed back to NIPSCO's customers in its FAC
14 proceedings. In 2022, approximately \$12.8 million in proceeds from the sale
15 of RECs associated with NIPSCO's renewable energy was passed back to
16 NIPSCO's customers in its FAC proceedings.

17 **Q36. Why did NIPSCO decide to contract for the 200 MWs of solar energy**
18 **made available through the Appleseed Solar PPA?**

1 A36. The decision to contract for the solar energy coming out of the 2022 All-
2 Source RFP was based upon NIPSCO's and CRA's analysis that doing so
3 was in the best interest of NIPSCO's customers under the 2021 IRP. As
4 described by NIPSCO Witness Lee, the Appleseed Solar PPA received one
5 of the strongest LCOE scores of all the solar and solar plus storage capacity
6 proposals NIPSCO received in response to its 2022 All-Source RFP. The
7 Project has low development risk, as it has met 5 out of 6 major milestones
8 and it is being developed by NextEra, a significant and sophisticated player
9 in the renewable development space. As mentioned above, the Appleseed
10 Project has a fully executed GIA and favorable permitting status in Cass
11 County, Indiana. As such, the Appleseed Solar Project plays an important
12 role in satisfying NIPSCO's electric planning goals and objectives in the best
13 interest of NIPSCO's customers.

14 **Q37. Why did NIPSCO decide to contract for the 200 MWs of wind energy**
15 **made available through the Templeton Wind PPA?**

16 A37. Again, the decision to contract for the wind energy coming out of the 2022
17 All-Source RFP was based upon NIPSCO's and CRA's analysis that doing
18 so was in the best interest of NIPSCO's customers under the 2021 IRP. Two
19 recent developments make wind energy an attractive option for NIPSCO's

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 27

1 generation portfolio: (1) approval of MISO's seasonal resource adequacy
2 construct, in which load serving entities must meet different reserve margin
3 targets for each of the four seasons with varying capacity accreditation by
4 season and (2) the expansion of available tax credits to wind resources
5 through the passage of the federal Inflation Reduction Act ("IRA").
6 NIPSCO Witness Augustine explains that the 2022 All-Source RFP
7 contemplated the seasonal resource adequacy construct, and he describes
8 how MISO's winter reserve margin target is higher than its summer reserve
9 margin, which means resources like solar will receive lower winter capacity
10 accreditation. This makes wind resources an important component of
11 winter reserve margin planning. I describe the IRA's tax credit provisions
12 below; these tax credits have improved the economics of wind resources
13 relative to the assumptions in NIPSCO's 2021 IRP, making wind projects
14 more competitive. These two developments, taken together, make
15 contracting for wind resources an important and reasonable option for
16 NIPSCO and its customers.

17 In addition, as NIPSCO Witness Lee explains, the Templeton Project was
18 among the highest scoring projects in NIPSCO's 2022 All-Source RFP. A

1 GIA is expected to be executed by December 2023, and the Project is also
2 being developed by NextEra.

3 **Q38. Please briefly explain the tax incentives associated with the Projects.**

4 A38. As part of the 2023 portfolio analysis, clean energy and storage tax credit
5 extensions as outlined in the IRA were incorporated for new NIPSCO
6 resource options, which included 10-year extensions for the PTC and ITC,
7 extension of the ITC to stand-alone storage projects, and bonus credit
8 eligibility for projects sited in “energy communities.” The IRA awards a
9 10% bonus (a 10% adder to the ITC or a 10% increase in the PTC level in
10 \$/MWh) if a project is located within a newly defined “energy community.”
11 Energy communities are (i) census tracts containing or adjoining to tracts
12 containing retired coal mines or coal-fired electric generating units; (ii)
13 areas with historical employment in fossil industries and a higher
14 unemployment rate than the national average; or (iii) properties with the
15 potential presence of hazardous substances, pollutants, or contaminants.

16 **Q39. Were the Projects found to be located within an energy community?**

17 A39. The Appleseed Project was found to be located within an energy
18 community and thus qualifies for a 10% increase in the ITC level or a 10%

1 increase in the PTC level in \$/MWh. The Templeton Project does not qualify
2 for additional bonus credits based on its geographic location.

3 **Q40. Does the addition of the Appleseed Solar PPA and Templeton Wind PPA**
4 **support the conclusions of NIPSCO's 2021 IRP and 2023 portfolio**
5 **analysis?**

6 A40. Yes. As more fully described by NIPSCO Witness Augustine, the addition
7 of the Appleseed Solar PPA and Templeton Wind PPA to NIPSCO's
8 portfolio is fully supportive of and consistent with the conclusions in
9 NIPSCO's 2021 IRP and 2023 portfolio analysis.

10 **Q41. Do the PPAs described herein represent prudent, valuable, and**
11 **reasonably priced renewable energy resources for NIPSCO?**

12 A41. Yes. The PPAs described herein will provide NIPSCO's customers with
13 more affordable and cleaner energy resources. This is supported by the
14 2023 portfolio analysis, as further described by NIPSCO Witness
15 Augustine.

16 **Q42. What is the estimated bill impact for a typical residential customer?**

17 A42. As shown in Attachment 1-F, the estimated bill impact for a residential
18 customer that uses 700 kWh per month resulting from the Appleseed Solar

Petitioner's Confidential Exhibit No. 1
Northern Indiana Public Service Company LLC
Page 30

1 PPA is \$1.49 and resulting from the Templeton Solar PPA is \$2.02. These
2 bill impacts do not include offsets such as renewable energy credit sales or
3 any other savings/credits such as off-system sales, which are expected to
4 lower customer bills or provide other savings associated with NIPSCO's
5 generation transition strategy. These bill impacts also do not take into
6 account the cost of energy that would be otherwise incurred without
7 including these PPAs as a part of the generation portfolio.

8 **Q43. Is NIPSCO willing to provide performance data for the PPAs to the**
9 **Indiana Office of Utility Consumer Counselor ("OUCC") as part of**
10 **NIPSCO's quarterly FAC filings?**

11 A43. Yes. Consistent with NIPSCO's commitments reflected in the Commission
12 Orders in Cause Nos. 45195 (Jordan Creek), 45403 (Brickyard and
13 Greensboro), 45472 (Green River), 45489 (Gibson), and 45541 (Crossroads
14 Wind II), NIPSCO is willing to provide performance information and data
15 for the PPAs to the OUCC through the standard OUCC audit package in
16 NIPSCO's quarterly FAC filings for the duration of the PPAs.

17 **Q44. Are you familiar with GAO 2022-01?**

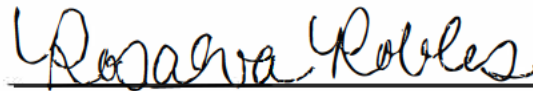
1 A44. Yes. GAO 2022-01 provides guidelines for additional evidence to be
2 provided in connection with petitions regarding electric generation under
3 Ind. Code ch. 8-1-8.5 that request a certificate of public convenience and
4 necessity for new electric generation and under Ind. Code ch. 8-1-8.8 that
5 request approval of a multi-year PPA for electric generation. The required
6 information as it pertains to NIPSCO's request for approval under Ind.
7 Code ch. 8-1-8.8 in this Cause is provided in Attachment 1-E.

8 **Q45. Does this conclude your prefiled direct testimony?**

9 A45. Yes.

VERIFICATION

I, Rosalva Robles, Manager of Planning – Regulatory Support for Northern Indiana Public Service Company LLC, affirm under penalties of perjury that the foregoing representations are true and correct to the best of my knowledge, information and belief.

A handwritten signature in black ink, reading "Rosalva Robles", written over a horizontal line.

Rosalva Robles

Dated: May 16, 2023

Attachment 1-A
[Verified Petition - Not Duplicated Herein]

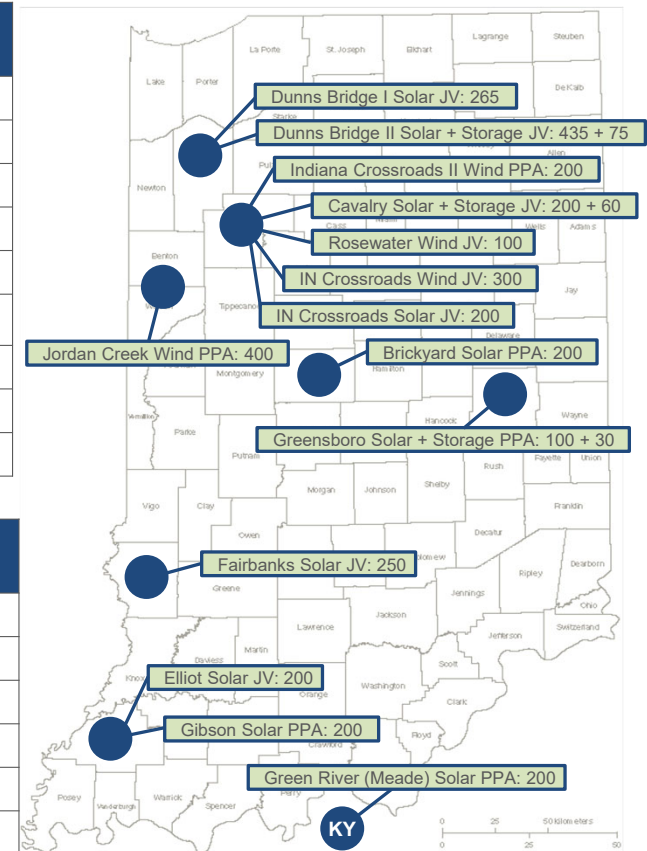
Confidential Attachment 1-B (Redacted)

Confidential Attachment 1-C (Redacted)

Current Portfolio Update

BTA Projects	Installed Capacity (MW)	Estimated In Service	Status
Rosewater Wind	100	2020	Complete
Indiana Crossroads Wind	300	2021	Complete
Dunns Bridge I Solar	265	Q2 2023	Construction
Crossroads Solar	200	Q2 2023	Construction
Cavalry Solar + Storage	200 + 60	Q2 2024	Started Construction
Dunns Bridge II Solar + Storage	435 + 75	Q4 2024	Started Construction
Fairbanks Solar	250	Q2 2025	Approved
Elliott Solar	200	2025	At Risk
Transmission Projects		Q2 2023	Construction

PPA Projects	Installed Capacity (MW)	Estimated In Service	Status
Jordan Creek Wind	400	2020	Complete
Crossroads II Wind	200	2023	Under Construction
Brickyard Solar	200	2024	At Risk
Greensboro Solar + Storage	100 + 30	2024	At Risk
Gibson Solar	200	2024	Approved
Green River Solar	200	2024	Amendment Approved



We exist to deliver safe, reliable energy that drives value to our customers

NIPSCO | NIPSCO.com |   

GAO 2022-01 Information for Multi-Year Purchase Power Agreement Projects

GAO 2022-01 Guideline	Witness	Appleseed Solar PPA	Templeton Wind PPA
The name of the RTO to which the generation will be connected.	Robles	The project will be connected to Duke Energy Indiana's 345 kV Walton substation in MISO (J992). See Q/A 24.	The project will be connected to Duke Energy Indiana's 345 kV Westwood substation in MISO (J1966). See Q/A 25.
A description of the new generation's anticipated impact on the submitting utility's resource adequacy and reliability.	Robles	For a description of how these projects will help fulfill NIPSCO's capacity needs identified in its 2021 IRP, which was confirmed by the results of NIPSCO's 2023 portfolio analysis, see Q/As 14 through 21. These projects are expected to contribute to meeting resource adequacy requirements and contribute to the overall reliability of NIPSCO's system. See Q/As 36 and 37.	
An explanation regarding whether the generation is required to be in the RTO's interconnection queue and, if so, its status in the queue.	Robles	The Appleseed Solar Project has a fully executed Generation Interconnection Agreement (J992) with MISO. See Q/A 24.	Templeton is in the Definitive Planning Phase I of the MISO GIA process (J1966). MISO is performing system impact studies and Facility Studies to determine whether transmission upgrades will be necessary. A Generation Interconnection Agreement is expected to be executed by December 2023. See Q/A 25.
A description of the generation's expected capacity factors, dispatchability, and accreditation characteristics.	Robles	The project will provide 200 MW of nameplate capacity (ICAP), at an expected annual capacity factor of 23.6%. Calculation of an accredited unforced capacity (UCAP) for the facility is the product of the effective nameplate capacity and the applicable capacity credit factor. For new solar resources, MISO will award capacity credit factors of 50%, 50%, 5% and 50% for Summer, Fall, Winter and Spring, respectively. Following the first year of operation for a full MISO Planning Year, the solar resource will be awarded a	The project will provide 200 MW of nameplate capacity (ICAP), at an expected annual capacity factor of 36.4%. Calculation of an accredited unforced capacity (UCAP) for the facility is the product of the effective nameplate capacity and the applicable capacity credit factor. For wind resources, MISO will award accredited capacity factors for the Summer, Fall, Winter and Spring seasons derived from the historical performance of wind facility.

GAO 2022-01 Guideline	Witness	Appleseed Solar PPA	Templeton Wind PPA
		capacity factor commensurate with past performance during peak periods. The project is expected to provide approximately 100 MW, 78 MW, 18 MW and 100 MW of UCAP accredited capacity in the Summer, Fall, Winter and Spring MISO planning seasons respectively. The project will be a variable resource. For a description of Quanta's nodal congestion analysis see Q/A 30.	The project is expected to provide approximately 36 MW, 46 MW, 81 MW and 46 MW of UCAP accredited capacity in the Summer, Fall, Winter and Spring MISO planning seasons, respectively. The project will be a variable resource. For a description of Quanta's nodal congestion analysis see Q/A 30.
A description of how the generation is expected to perform at the relevant RTO's peak pursuant to its capacity construct.	Robles	As noted above, this project is expected to provide 100 MW of UCAP accredited capacity in all seasons except for winter (10MW) in the first MISO planning year. After that, the project is expected to provide approximately 100 MW, 78 MW, 18 MW and 100 MW of UCAP accredited capacity in the Summer, Fall, Winter and Spring MISO planning seasons respectively	As noted above, the project is expected to provide approximately 36 MW, 46 MW, 81 MW and 46 MW of UCAP accredited capacity in the Summer, Fall, Winter and Spring MISO planning seasons respectively.

NORTHERN INDIANA PUBLIC SERVICE COMPANY

200 MW Appleseed Solar and 200 MW Templeton Wind PPAs
Estimated Year 1 Impact of a Change in Fuel Cost Adjustment (FAC)
on the Bill of a Residential Standard Customer Using 1000 kWh per Month

LINE			
NO.	DESCRIPTION	Appleseed Solar	Templeton Wind
1	Gross Capacity - MWac	200	200
2	Total Estimated Year 1 Cost (Ln. 3 * Ln. 4)	\$25,015,157	\$33,961,254
3	2026 Annual Forecasted Residential Sales - kWh	3,468,477,622	3,468,477,622
4	FAC Residential Allocation Percentage	29.44%	29.44%
5	Estimate Monthly Bill Impact per 1,000 kWh (Ln. 4 * Ln. 2/Ln. 3 * 1000)	\$2.12	\$2.88
6	Estimate Monthly Bill Impact per 700 kWh (Ln. 4 * Ln. 2/Ln. 3 * 700)	\$1.49	\$2.02