



**INTEGRATED RESOURCE PLANNING  
ACRONYMS AND ABBREVIATIONS**

# ACRONYMS AND ABBREVIATIONS

## A

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|      |  |
|------|--|
| ACP  | Alternative Compliance Payment               |
| ACS  | American Community Survey 2019               |
| AEO  | Annual Energy Outlook (from EIA)             |
| AER  | Aggressive Environmental Regulation Scenario |
| AI   | Accelerated Innovation Scenario              |
| ASHP | Air Source Heat Pumps                        |
| AMI  | Advanced Metering Infrastructure             |
| A/S  | Ancillary Services                           |
| ATC  | Around-the-Clock                             |

## B

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|      |                              |
|------|------------------------------|
| BEV  | Battery Electric Vehicles    |
| BNEF | Bloomberg New Energy Finance |
| BPM  | Business Practice Manual     |

## C

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|       |  |
|-------|--|
| C&I   | Commercial and Industrial                                      |
| CAA   | Clean Air Act – EPA issued initial rules in 1970               |
| CAGR  | Compound Annual Growth Rate                                    |
| CapEx | Capital Expenditures   |
| CAP   | Community Advisory Panel                                       |
| CAPP  | Central Appalachia   |
| CATF  | Clean Air Task Force   |
| CC    | Combined Cycle   |
| CCGT  | Combined Cycle Gas Turbine                                     |
| CCR   | Coal Combustion Residuals – EPA issued rules June 2010         |
| CCS   | Carbon Capture and Sequestration or Carbon Capture and Storage |
| CCUS  | Carbon capture, utilization, and storage                       |
| CDD   | Cooling Degree Days  |

|         |   |
|---------|---|
| CEPP    | Clean Electricity Performance Program           |
| CF      | Capacity Factor                                 |
| CO2     | Carbon Dioxide                                  |
| CO/UT   | Colorado/Utah Basin                             |
| Company | Northern Indiana Public Service Company LLC     |
| CONE    | Cost of New Entry                               |
| CPCN    | Certificate of Public Convenience and Necessity |
| CRA     | Charles River Associates (IRP Consultant)       |
| CSAPR   | Cross-State Air Pollution Rule                  |
| CT      | Combustion Turbine                              |
| CWA     | Clean Water Act                                 |

## D

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|             |                                   |
|-------------|-----------------------------------|
| DA          | Distribution Automation           |
| DER         | Distributed Energy Resource       |
| DG          | Distributed Generation            |
| DG Statute  | Indiana Code Ch. 8-1-40           |
| D-LOL       | Direct Loss of Load               |
| DOE         | U.S. Department of Energy         |
| DOT         | U.S. Department of Transportation |
| DR          | Demand Response                   |
| DRR1        | Demand Resource Type 1            |
| DRS         | Domestic Resiliency Scenario      |
| DSM         | Demand-Side Management            |
| DSM Statute | Ind. Code § 8-1-8.5-10            |

## E

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|      |  |
|------|--|
| EDG  | Excess Distributed Generation                                      |
| EDR  | Emergency Demand Response  |
| EE   | Energy Efficiency  |
| EIA  | Energy Information Administration of the U.S. Department of Energy |
| ELCC | Effective Load Carrying Capability                                 |
| ELG  | National Effluent Limitation Guidelines                            |

|      |  |                       |
|------|--|-----------------------|
| EM&V | Evaluation, Measurement and Verification | Enhanced Oil Recovery |
| EOR  |  |                       |
| EPA  | U.S. Environmental Protection Agency     |                       |
| ESOP | Energy Storage Operations                |                       |
| ESR  | Electric Storage Resources               |                       |
| EUE  | Expected Unserved Energy                 |                       |
| EV   | Electric Vehicles                        |                       |

## F

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|      |                                      |  |
|------|--------------------------------------|--|
| FERC | Federal Energy Regulatory Commission |  |
| FGD  | Flue Gas Desulfurization             |  |
| FOB  | Free Over Board                      |  |

## G

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|          |                                |  |
|----------|--------------------------------|--|
| GDS      | GDS Associates, Inc.           |  |
| GDS Team | GDS and Demand Side Analytics  |  |
| GHG      | Green House Gas                |  |
| GPCM     | Gas Pipeline Competition Model |  |
| GW       | Gigawatt                       |  |
| GWh      | Gigawatt-hour                  |  |

## H

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|      |  |  |
|------|--|--|
| H2   | Hydrogen                                   |  |
| HDD  | Heating Degree Days                        |  |
| HDV  | Heavy-Duty Vehicle                         |  |
| Hg   | Mercury                                    |  |
| HRSG | Heat Recovery Steam Generator              |  |
| HSPF | Heating Seasonal Performance Factor        |  |
| HVAC | Heating, Ventilation, and Air Conditioning |  |

## I

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|                 |   |
|-----------------|---|
| IA              | Interconnection Agreement   |
| ICAP            | Installed Capacity  |
| IDEM            | Indiana Department of Environmental Management                        |
| IEDC            | Indiana Economic Development Corporation                              |
| IEA             | International Energy Agency   |
| IEEE            | Institute of Electrical and Electronics Engineers                     |
| IFSA            | Indiana Solar For All coalition                                       |
| IGCC            | Integrated Gas Combined Cycle   |
| ILB             | Illinois Basin  |
| IMEP            | Interregional Market Efficiency Project                               |
| IQW             | Income Qualified Weatherization                                       |
| IRA             | Inflation Reduction Act   |
| IRP             | Integrated Resource Planning  |
| IRP Rule        | 170 IAC 4-7 Guidelines for Electric Utility Integrated Resource Plans |
| ISO             | Independent System Operator   |
| ITC             | Investment Tax Credit   |
| IURC/Commission | Indiana Utility Regulatory Commission                                 |

## K

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|     |               |
|-----|---------------|
| kWh | Kilowatt hour |
|-----|---------------|

## J

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|     |                           |
|-----|---------------------------|
| JA  | Junior Achievement        |
| JOA | Joint Operating Agreement |

## L

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|      |                                      |
|------|--------------------------------------|
| LCOE | Levelized Cost of Electricity/Energy |
| LCOH | Levelized Cost of Hydrogen           |
| LDES | Long-Duration Energy Storage         |
| LDV  | Light-Duty Passenger Vehicle         |
| LED  | Light Emitting Diode                 |
| LLF  | Line Loss Factors                    |
| LMR  | Load Modifying Resource              |
| LMP  | Locational Marginal Pricing          |
| LNB  | Low NO <sub>x</sub> Burner           |

|       |                           |
|-------|---------------------------|
| LNG   | Liquefied Natural Gas     |
| LOLE  | Loss of Load Expectation  |
| LRZ 6 | MISO Load Resource Zone 6 |

## M

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|                  |  |
|------------------|--|
| MAP              | Maximum Achievable Potential                   |
| MDV              | Medium-Duty Vehicle                            |
| MFDI             | Multi Family Direct Install                    |
| Michigan City    | Michigan City Generating Station               |
| Michigan City 12 | Michigan City Unit 12                          |
| MISO             | Midcontinent Independent System Operator, Inc. |
| MMBtu            | Metric Million British Thermal Unit            |
| MPS              | Market Potential Study                         |
| MTEP             | MISO Transmission Expansion Planning           |
| MW               | Megawatt                                       |
| MWh              | Megawatt-hour                                  |

## N

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|                 |   |
|-----------------|---|
| NAAQS           | National Ambient Air Quality Standard – EPA issued rules January 2013 |
| NAPP            | Northern Appalachian  |
| NBV             | Net Book Value  |
| NDC             | Net Demonstrated Capacity   |
| NERC            | North American Electric Reliability Corporation (formerly Council)    |
| NETL            | National Energy Technology Laboratory                                 |
| NG              | Natural Gas   |
| NGF             | CRA's Natural Gas Fundamentals Market Model                           |
| NIPSCO          | Northern Indiana Public Service Company LLC                           |
| NO <sub>x</sub> | Nitrogen Oxides   |
| NPDES           | National Pollutant Discharge Elimination System                       |
| NPV             | Net Present Value   |
| NSRDB           | National Solar Radiation Database                                     |
| NREL            | National Renewable Energy Laboratory                                  |
| NTD             | National Transportation Database                                      |
| NTG             | Net To Gross  |
| NYMEX           | New York Mercantile Exchange  |

## O

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|      |  |
|------|--|
| O&M  | Operations and Maintenance                   |
| OFA  | Over-Fire Air                                |
| OSB  | Energy Efficiency Oversight Board            |
| OUCC | Indiana Office of Utility Consumer Counselor |

## P

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|        |  |
|--------|--|
| PEM    | Proton Exchange Membrane                     |
| PenDER | CRA's DER Penetration Model                  |
| PEV    | Plug-In Electric Vehicle                     |
| PGC    | Potential Gas Committee                      |
| PHEV   | Plug-In Hybrid Electric Vehicle              |
|        |  |
| PJM    | PJM LLC (Regional Transmission Organization) |
| PPA    | Purchase Power Agreement                     |
| PRB    | Powder River Basin                           |
| PRMR   | MISO's Planning Reserve Margin Requirement   |
| PTC    | Production Tax Credit                        |
| PV     | Photovoltaic                                 |

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## R

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|              |  |
|--------------|--|
| RAP          | Realistic Achievable Potential                                   |
| RBDC         | Reliability Based Demand Curve                                   |
| RCx          | Retro-Commissioning  |
| REC          | Renewable Energy Credit  |
| REF          | Reference Case Scenario  |
| RFP/2024 RFP | Request for Proposals/2024RFP Events                             |
| RIIA         | Renewable Integration Impact Assessment                          |
| RIM          | Rate Payer Impact Measure  |
| RPPA         | Renewable Purchase Power Agreement                               |
| RTO          | Regional Transmission Organization (Independent System Operator) |

## S

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|                 |  |
|-----------------|--|
| SAIFI           | System Average Interruption Frequency Index (Reliability-see also SAIDI and CAIDI) |
| SAM             | System Advisor Model   |
| SBDI            | Small Business Direct Install  |
| SCADA           | Supervisory Control and Data Acquisition   |
| SCED            | Security-Constrained Economic Dispatch   |
| Schahfer        | R.M. Schahfer Generating Station   |
| Schahfer 16 A/B | Schahfer Units 16A and 16B   |
| SCUC            | Security-Constrained Unit Commitment   |
| SEER            | Seasonal Energy Efficiency Ratio   |
| SMR             | Small Modular Reactors   |
| SNCR            | Selective Non-Catalytic Reduction  |
| SOC             | State of Charge  |
| SO2             | Sulfur Dioxide   |
| ST              | Slower Transition Scenario   |
| STEM            | Science, technology, engineering, and math   |
| Sugar Creek     | Sugar Creek Generating Station   |

## T

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|       |   |
|-------|---|
| T&D   | Transmission and Distribution                                     |
| TDSIC | Transmission, Distribution, and Storage System Improvement Charge |
| TRC   | TRC Companies, Inc.   |
| TRM   | Technical Resource Manual   |
| TW    | Terawatt  |
| TWh   | Terawatt-hours  |

## U

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|              |   |
|--------------|---|
| UCAP         | Unforced Capacity (the amount of Installed Capacity that is actually available) |
| UCT          | Utility Cost Test   |
| Urban League | Urban League of Northwest Indiana   |

## V

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|     |   |
|-----|---|
| VOM | Variable Operations and Maintenance Costs |
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# W

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WACC

Weighted Average Cost of Capital