# INDIANA ENVIRONMENTAL STEWARDSHIP PROGRAM ANNUAL PERFORMANCE REPORT

State Form 53475 (R8 / 1-22)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
ENVIRONMENTAL STEWARDSHIP PROGRAM


**Indiana Department of Environmental Management**
**Office of Program Support**
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Indianapolis, IN 46204-2251
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*Please use this form if you are a member of the Indiana Environmental Stewardship Program (ESP) to report on progress toward objectives and targets AND certify ESP requirements continue to be achieved. Indiana ESP facilities must submit an Annual Performance Report (APR) by* ***April 1st*** *of every year, for each calendar year in which the entity has been a member for at least three (3) full months. Membership terms are renewed every four (4) years through submitting your APR. Your APR should be reviewed and signed by a senior manager at your facility prior to submittal. Once signed, e-mail the APR to IDEM at esp@idem.IN.gov. Please do not include any confidential business information in your annual performance report.* ***Public access laws require IDEM to make the APR publicly available****, which may include posting all portions of your report on the Indiana ESP Web site. If you have any questions, please contact IDEM at esp@idem.IN.gov or (800) 988-7901.*

*This form will also be used for ESP members who are also members of the Indiana Partners for Pollution Prevention Program to recertify their membership and reaffirm their commitment to the Partners Pledge.*

## SECTION A — FACILITY INFORMATION

Name of facility
AstraZeneca Pharmaceuticals, LP

Name of parent company (*if applicable*)

Street address *(number and street)*
4601 Highway 62 East

City / State / ZIP code
Mount Vernon, Indiana 47620

County
Posey

Website of facility / company
www.astrazeneca.com

How many employees (full time equivalents) currently work at your facility?
750

## CONTACT INFORMATION

| Name of Primary Contact (Mr. / Mrs. / Ms. / Dr.) | | Title |
|---|---|---|
| Kevin Conkright | | Sr. SHE Specialist |
| **Telephone number** | **Mobile phone number** | **E-mail address** |
| (812) 307-2218 | (270) 903-5181 | kevin.conkright@astrazeneca.com |

Mailing address (*if different from facility address*)

City / State / ZIP Code

| Name of Secondary Contact (Mr. / Mrs. / Ms. / Dr.) | | Title |
|---|---|---|
| Chad Burnett | | SHE Manager |
| **Telephone number** | **Mobile phone number** | **E-mail address** |
| (812) 307-2216 | ( ) | chad.burnett@astrazeneca.com |

Mailing address (*if different from facility address*)

City / State / ZIP Code

## REPORTING PERIOD

Reporting period dates from prior calendar year (*mm/dd/yyyy – mm/dd/yyyy*)
01/01/2021-12/31/2021

*1a.* Is this the fourth ESP Annual Performance Report of your membership term?
☒ Yes—If yes, answer question 1b.
☐ No—If no, skip to question 2a.

*1b.* Do you wish to renew your Indiana Environmental Stewardship Program membership?
☒ Yes—If yes, please answer question 2a and complete all sections of this annual report.
☐ No—If no, please answer question 2a and complete all sections of this annual report except for Section F.

*2a.* Are you a member of the Indiana Partners for Pollution Prevention (Partners) Program?
☒ Yes—If yes, answer question 2b.
☐ No—If no, skip to the "Change in Information" section of this report.

## REPORTING PERIOD (*CONTINUED*)

2b. Do you wish to recertify your Partners for Pollution Prevention (Partners) Pledge?
☒ Yes—If yes, please complete all sections of this annual report.
☐ No—If no, please complete all sections of this annual report except for Section F.

## CHANGE IN INFORMATION

In your ESP application and, perhaps, in previous annual performance reports, you described what your facility does or makes. Have there been any changes or additions to your facility's list of products or activities?

☐ Yes—If yes, please describe them:

☒ No

## SECTION B PUBLIC OUTREACH AND PERFORMANCE REPORTING

***Why do we need this information?***
*IDEM needs to know how environmental information was shared with the public.*

***What do you need to do?***
*Describe how the facility has shared and plans to share environmental information.*

Please briefly describe the activities that your facility conducted during this reporting period to interact with the community on environmental issues and to report publicly on its environmental performance. AstraZeneca - Mount Vernon held several events in 2021 that included a Recyclinig Day Celebration focused upon a sustainable environment, improvements to our "Grasslands of the Future" 20-acrea wildlife habitat that included the implementation of a self-paced learning trail, and outreach programs by our membership to enhance beautification (landscaping and flower planting) for the City of Mt. Vernon. We report publically through AstraZeneca - Global where our data is included in Sustainability Report for DJSI.

Please indicate which of the following methods your facility plans to use to make its ESP Annual Performance Report available to the public. Please check as many as appropriate.

☒ Web site (http://www._____ ) ☐ Open house ☒ Meetings ☐ Press releases ☐ Other:

## SECTION C ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENT

***Why do we need this information?***
*Facilities need to have implemented an EMS that meets certain criteria and use an ISO 14001 EMS Lead Auditor at least every thirty-six (36) months to assess the EMS.*

***What do you need to do?***
*Answer the following questions about your EMS.*

1. What is the most recent date that an ISO 14001 EMS Lead Auditor performed an EMS assessment at your facility? December 1, 2020

2. Name, title, and organization of ISO 14001 EMS Lead Auditor who conducted the most recent EMS assessment:
Monty Fox, President, MB&J Quality Consulting

3. Is the date of the most recent EMS assessment performed by an ISO 14001 EMS Lead Auditor within the past thirty-six (36) months?
☒ Yes—If yes, skip to Question 4.
☐ No—If no, please have your ISO 14001 EMS Lead Auditor complete and sign the following checklist, indicating whether or not your EMS meets the listed criteria for ESP membership:

| | |
|---|---|
| ☐ Yes ☐ No | Evidence of senior management support, commitment, and approval. |
| ☐ Yes ☐ No | A written environmental policy directed toward compliance, pollution prevention, and continuous improvement. |
| ☐ Yes ☐ No | Identification of the environmental aspects at the entity. |
| ☐ Yes ☐ No | Prioritization of the environmental aspects and a determination of those aspects deemed significant considering, at the minimum, environmental impacts and applicable laws and regulations. |
| ☐ Yes ☐ No | Established priorities, and environmental objectives and targets for continuous improvement in environmental performance and for ensuring compliance with applicable environmental laws, regulations, and permit conditions. Objectives and targets must go beyond current legal requirements and specify the environmental media, types of pollution to be prevented or reduced, implementation activities, and projected time frames. |
| ☐ Yes ☐ No | An established community outreach mechanism that includes identifying and responding to community concerns; informing the community of important matters that affect the community; and reporting on the EMS, including reporting to the public on the environmental policy and significant aspects. |
| ☐ Yes ☐ No | Incorporation of environmental and pollution prevention planning in the development of new products, processes, and services and modifications of existing processes. |
| ☐ Yes ☐ No | Evidence of clear responsibility for implementation, training, monitoring, EMS maintenance, taking corrective action, and ensuring compliance with applicable environmental laws, regulations, and permit conditions. |
| ☐ Yes ☐ No | Documentation of the implementation procedures and the results of implementation. |
| ☐ Yes ☐ No | Appropriate written EMS procedures. |
| ☐ Yes ☐ No | An annual evaluation of the EMS with written results provided to senior management and affected employees. |

*Signature of ISO 14001 EMS Lead Auditor* *Date (month, day, year)*

## SECTION C ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENT *CONTINUED*

4. Were any deficiencies found during the most recent EMS assessment?

☐ Yes—If yes, describe any deficiencies found and the corrective action taken to address each deficiency:

☒ No

5. What type of protocol was used to perform the independent EMS assessment?

☒ ISO 14001:2015 Certified audit
☐ ESP Independent Assessment Protocol
☐ Other *(please specify)*:

6. Is the EMS certified to a recognized standard?

☒ Yes—If yes, what standard does the EMS follow *(please provide a copy of the most recent certificate)*?
- ☒ ISO 14001:2015
- ☐ Responsible Care EMS
- ☐ Responsible Care 14001

☐ No

7. When was the last Senior Management review of your EMS completed?

Month / Year: December 2021

Who headed the review *(name and title)*? Femi-D-Etti (Vice President & General Manager)

8. When did your facility last conduct an internal or corporate environmental compliance audit? Do not include inspections or site visits by regulatory organizations.

Scope of the compliance audit: Internal SHE Genba (Monthly)

Month(s) / Year(s): December 2021

Who conducted the audit(s) (e.g., facility staff, corporate, third party)? Facility Staff, Safety Focus Group Members, Facility Management Team Members

9. Explain the emergencies experienced within the facility during the past year. Were the applicable emergency and contingency plans detailed in the EMS effective? What changes, if any, have been made to your facility's emergency or contingency plans?

No emergencies experienced in 2021. A completely revised Integrated Continuity Plan was implemented in 2021 that included electronic MTV Emergency Response Plan/Application for site personnel. The installation of the new fire water main loop, fire devices, and header tie-ins were completed in 2021. In addition, the installation of solar powered mustering stations were completed in 2021 with evacuation drills.

10. Has your facility corrected all instances of potential environmental non-compliance and EMS non-conformance identified during your audits and other assessments?

☐ Yes—If yes, briefly summarize corrective actions taken and other improvements made as a result of your EMS assessment(s) or compliance audit(s).

☐ No—If no, please explain your plans to correct these instances.

☒ No such instances identified.

## SECTION D ADDITIONAL INFORMATION

***Why do we need this information?***
*This information will help IDEM to effectively manage the Environmental Stewardship Program.*

***What do you need to do?***
*Answer the questions as completely as possible.*

1. In addition to ESP, please list environmental awards received or voluntary programs participated in during the past twelve (12) months.
AstraZeneca - Mt. Vernon continued its "Grasslands of the Future" wildlife habitat certification with Wildlife Habitat Coucil in 2021. In addition, AstraZeneca continues to participate as a member of the Indiana Partnership for Pollution Prevention, the Southern Indiana Environmental Managers' Group, and the Southwest Chamber of Commerce.

2. Has your facility taken advantage of any ESP incentives? If so, please describe the implementation process and list additional benefits IDEM should consider.
Our Company takes advantage of decreased reporting through the ESP incentives program. We also continued using ESP incentive for permitting revisions with benefit of assigned permit writer.

3. If your facility was not registered to the ISO 14001 standard prior to becoming an ESP member, has ESP helped you to pursue registration? If so, how has ESP been instrumental in achieving registration?
Not Applicable (Self-Certified)

4. Are the ESP and/or Partners group meeting your expectations? Please provide feedback or suggestions.
The ESP and Partners group meetings have evolved with pandemic protocols that have changed how they are conducted, but are still valuable for peer discussions and information sharing.

## SECTION D ADDITIONAL INFORMATION (*CONTINUED*)

5. If you are a member of Partners, please reaffirm your facility's or organization's pledge to the Partners and provide additional information regarding commitment to pollution prevention (P2).

| Yes | No | |
|---|---|---|
| ☒ | ☐ | 1. Ensure employees are aware of the facility's commitment to P2 and understand their role in implementing P2 objectives and goals in the facility. |
| ☒ | ☐ | 2. Your facility has incorporated P2 planning in the development of new products, processes, and/or services. |
| ☒ | ☐ | 3. Your facility established a mechanism to monitor waste generation and identify realistic P2 goals. |
| ☒ | ☐ | 4. Your facility has established a process to listen and respond to stakeholder concerns. |
| ☒ | ☐ | 5. Your facility makes available your general waste reduction and P2 information to members of our community, IDEM, and the Partners, if requested? |
| ☒ | ☐ | 6. Your facility has participated in or conducted outreach activities that include details of your P2 efforts; please specify: Internal Town-Hall meetings, Earth Day / Recycling Day 2021, and Grand-Opening of "Grasslands of the Future" Wildlife Habitat Trail. |
| ☒ | ☐ | 7. Your facility has participated in two or more Partners meetings in the last year. |
| ☒ | ☐ | 8. Your facility supported the annual Pollution Prevention Conference and Trade Show.<br>*Please check all that apply:* ☒ Financial sponsorship ☒ One or more attendees from your facility ☐ Other *(specify)* |

## SECTION E ENVIRONMENTAL IMPROVEMENT INITIATIVE RESULTS

***Why do we need this information?***
*Facilities need to share the results of the environmental improvement initiative that was pursued during the reporting period. IDEM needs to report cumulative program reduction results.*

***What do you need to do?***
*Reference Section F for "Category" and "Indicator" options to complete this section. Summarize your facility's progress on achieving the initiative you identified in the application or last year's APR. For assistance, please call (800) 988-7901 or email esp@idem.IN.gov.*

**Initiative #1**

| Category 1: Energy Reduction<br>Indicator 1: 10% Reduction | Baseline *(indicate measurement unit)* | Current *(indicate measurement unit)* | Cost Savings |
|---|---|---|---|
| Calendar year | 2015 2020 | 2021 | |
| Actual quantity *(per year)* | 112,558 MWH 99,663 | 102,398 MWH | $482,000 |
| Production unit *(select one)* | Earned Labor Hours x1,000 TabletsProduction units Production lbs.<br>Other -- specify (e.g. Gallons, length, etc.) | | |
| Production Quantity | 1,358,000 3,440,000 | 4,149,000 | NA |
| Normalization factor (Current year production ÷ Baseline year production) 3.06 1.206 | | | |
| Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor -31,090 MWH 3,298.7 increase MWH | | | |

Briefly describe *how* you achieved improvements for environmental initiative #1 or, if relevant, any circumstances that delayed progress.
In 2021, AstraZeneca installed a 2MW solar field onsite that became fully functional in October 2021. In addition, we continue to replace lighting fixtures with LED/person-sensing technology (approximately 80% of total fixtures), and improve operational efficiencies that reduce overall batch time so that equipment energy is reduced. Please note that this initiative is for total energy (electricity and natural gas consumption) converted to MWH.

| Initiative #2 | | | |
|---|---|---|---|
| Category 2: Waste Reduction<br>Indicator 2: 5% | Baseline<br>*(indicate measurement unit)* | Current<br>*(indicate measurement unit)* | Cost Savings |
| Calendar year | 2015 2020 | 2021 | |
| Actual quantity *(per year)* | 1,338 mT 1,050 | 1,105 mT | |
| Production unit *(select one)* | Earned Labor Hours x1,000 TabletsProduction units Production lbs.<br>Other -- specify (e.g. Gallons, length, etc.) | | |
| Production Quantity | 1,358,000 3,440,000 | 4,149,000 | NA |
| Normalization factor (Current year production ÷ Baseline year production) 3.06 1.206 | | | |
| Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor -713 mT -66.34 increased recycling | | | |
| Briefly describe *how* you achieved improvements for environmental initiative #2 or, if relevant, any circumstances that delayed progress.<br>Optimization of Tablet Production through implementation of proprietary engineering improvement, reduction of waste through onsite and offsite reuse (e.g, containers cleaning/reuse/recycle program), and bulk packaging initiatives to reduce drum usage. Largest obstacle to recycling is plastic containers that have glues/labels attached to surface. Still working with potential recyclers to find a solution. | | | |

| Initiative #3 | | | |
|---|---|---|---|
| Category 3: Water Reduction<br>Indicator 3: 10% | Baseline<br>*(indicate measurement unit)* | Current<br>*(indicate measurement unit)* | Cost Savings |
| Calendar year | 2015 2020 | 2021 | |
| Actual quantity *(per year)* | 301,546 m3 275,316 | 260,585 m3 | |
| Production unit *(select one)* | Earned Labor Hours x1,000 TabletsProduction units Production lbs.<br>Other -- specify (e.g. Gallons, length, etc.) | | |
| Production Quantity | 1,358,000 3,440,000 | 4,149,000 | NA |
| Normalization factor (Current year production ÷ Baseline year production) 3.06 1.206 | | | |
| Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor -125,341 m3 17,767 decrease m3 | | | |
| Briefly describe *how* you achieved improvements for environmental initiative #3 or, if relevant, any circumstances that delayed progress.<br>Optimization of Tablet-Batchmaking Production that resulted in reduced cleaning requirements between campaigns. Reduced water turnover rate in cooling towers through the use of Sphagnum Moss Treatment System. New potable and fire loop main water line into the facility (reducing intrusion and water leaks to improve water quality) that was completed in 2021/2022. Reduced water consumption for coating operations through work with IDEM to improve efficiencies of air pollution control equipment through permit relief based upon quantified testing results. | | | |

## SECTION E ENVIRONMENTAL IMPROVEMENT INITIATIVE RESULTS *CONTINUED*

1. Briefly describe the *impacts or wastes* eliminated resulting from the environmental initiative(s). If multiple initiatives, please indicate which specifically.

Please see the brief descriptions for each initiative listed above.

2. Are there other best management practices (BMPs) you can share correlating to your initiative(s)?

The most important BMP for the accomplishments listed above is the inclusion of a diverse inter-disciplinary team, establishment of a good set of data that can be used to drive scientific principles.

3. If the objectives and targets associated with the environmental improvement initiative(s) were not attained, please verify continued progress toward the environmental initiative(s). If multiple initiatives, please indicate which specifically.

AstraZeneca was able to attain our sustainability goals set for 2021 through the innovations of our Green Team, Product Engineering, Maintenance and Operation Teams. As noted above, the implemented initiatived allowed us to continue to improve overall production efficiencies and ultimately reduce our natural resource demands.

4. Please provide a narrative summary of progress made toward *qualitative, significant* EMS objectives and targets, if any.

Our sustainability data management system continued to expand in 2021, which allowed us to better understand the positive impacts that are being made to our areas of environmental emphasis. We are still progressing towards our Carbon Zero Initiative by the year 2025.

5. Please list any state, U.S. EPA, or other partnership programs to which you are reporting this data (e.g., Energy Star, DOE Energy Performance, state award application).

Our sustainability data is reported through our Global Sustainability Group, which is then combined in the Dow Jones Sustainability Index.

6. Would your facility be willing to share the environmental improvement initiative(s) and its best management practices (BMPs) at the ESP Annual Meeting and/or a Partners for Pollution Prevention quarterly meeting or conference? ☒ Yes ☐ No

## SECTION F — FUTURE YEAR ENVIRONMENTAL IMPROVEMENT INITIATIVE

***Why do we need this information?***
*Facilities need to show they are committed to improving their environmental performance.*

***What do you need to do?***
*Refer to the Environmental Performance Table and answer the following questions.*

1. *Select the appropriate boxes in the following table to indicate the **category** and **indicator(s)** that represents the **future environmental improvement initiative** selected by your facility. For the category and indicator selected, list the **baseline year** (e.g., 2022) and the **future year** (e.g., 2023). Next, list the **baseline annual quantity** (e.g., 5 tons) and **future annual quantity** (e.g., 2 tons) you are committing to achieve by the end of the future year.*

| Category | Indicator | Baseline Year 2015 | Future Year 2022 | Unit |
|---|---|---|---|---|
| ☐ Material Procurement | ☐ Recycled content | | | ☐ Pounds, ☐ tons ☐ gallons |
| | ☐ Hazardous/toxic components | | | ☐ Pounds, ☐ tons ☐ gallons |
| ☐ Suppliers' Environmental Performance | ☐ Specify indicator: | | | As specified for the particular indicator |
| ☐ Material Use | ☐ Materials used | | | ☐ Pounds, ☐ tons ☐ gallons |
| | ☐ Hazardous materials used | | | ☐ Pounds, ☐ tons ☐ gallons |
| | ☐ Ozone depleting substances used | | | CFC-11 equivalent pounds |
| | ☐ Total packaging materials used | | | ☐ Pounds, ☐ tons |
| ☒ Water Use | ☒ Total water used | 80,488,200 | 71,393,000 | Gallons |
| ☒ Energy Use | ☒ Electricity | 36,077 | 34,104 | ☐ kWh, ☒ MWh |
| | ☐ Steam | | | ☐ kWh, ☐ MWh, ☐ gallons, ☐ $ft^3$ |
| | ☒ Natural gas | 253,243 | 248,877 | ☐ Btu, ☒ MMBtu |
| | ☐ Diesel | | | Gallons |
| | ☐ Propane / LPG | | | ☐ Btu, ☐ MMBtu, ☐ gallons |
| | ☐ Gasoline | | | Gallons |
| | ☒ Solar | 0 | 3,100 | ☐ kWh, ☒ MWh |
| | ☐ Wind | | | ☐ kWh, ☐ MWh |
| | ☐ Landfill gas | | | ☐ Btu, ☐ MMBtu |
| | ☐ Combined heat and power | | | ☐ kWh, ☐ MWh, ☐ Btu, ☐ MMBtu |
| | ☐ Other: | | | ____ |
| ☐ Land and Habitat | ☐ Land and habitat conservation | | | ☐ Square feet, ☐ acres |
| | ☐ Community land revitalization | | | ☐ Square feet, ☐ acres |
| ☐ Air Emissions | ☐ Total GHGs | | | MTCO2E |
| | ☐ VOCs | | | ☐ Pounds, ☐ tons |
| | ☐ NOx, SOx, $PM_{2.5}$, $PM_{10}$, or CO | | | ☐ Pounds, ☐ tons |
| | ☐ Air toxics | | | ☐ Pounds, ☐ tons |
| | ☐ Odor | | | European Odour Units |
| | ☐ Radiation | | | ☐ Curies, ☐ Becquerels |
| | ☐ Dust | | | ☐ Pounds, ☐ tons |
| ☐ Discharges to Water | ☐ COD or BOD | | | ☐ Pounds, ☐ tons |
| | ☐ Toxics | | | ☐ Pounds, ☐ tons |
| | ☐ Total suspended solids | | | ☐ Pounds, ☐ tons |

| | | | | |
|---|---|---|---|---|
| | ☐ Nutrients | | | ☐Pounds, ☐ tons of ☐ N or ☐ P |
| | ☐ Sediment from runoff | | | ☐Pounds, ☐ tons |
| | ☐ Pathogens | | | ☐MPN/ml, ☐ CFU/ml |

| Category | Indicator | Baseline Year 2015 | Future Year 2022 | Unit |
|---|---|---|---|---|
| ☐ Non-hazardous Waste ☐ Hazardous Waste | ☐ Landfill | | | ☐Pounds, ☐ tons |
| | ☐ Incineration | | | ☐Pounds, ☐ tons |
| | ☐ Reused/recycled off-site | | | ☐Pounds, ☐ tons, ☐gallons |
| | ☐ Other: | | | ☐Pounds, ☐ tons, ☐gallons |
| ☐ Noise | ☐ Noise | | | dBA |
| ☐ Vibration | ☐ Vibration | | | Inches per second |
| ☐ Products | ☐ Expected lifetime energy use | | | ☐kWh, ☐ MWh, ☐ Btu, ☐ MMBtu, |
| | ☐ Expected lifetime water use | | | Gallons |
| | ☐ Expected lifetime waste to air, water, or land from product use | | | ☐ Pounds, ☐ tons |
| | ☐ Waste to air, water, or land from disposal or recovery | | | ☐ Pounds, ☐ tons |

**If you need assistance filling out the form, please contact the ESP program manager at either esp@idem.in.gov or 1-(800) 988-7901.**

## SECTION F — FUTURE YEAR ENVIRONMENTAL IMPROVEMENT INITIATIVE *CONTINUED*

1. If the future environmental improvement initiative(s) will be *qualitative* in nature, please describe.
   Environmental metrics are quantitative.

2. What activities or process changes do you plan to undertake at your facility to accomplish your future initiative (e.g., technology changes in a particular process line, employee training)?
   Conducting Energy Engineering Study in 2022 to aid with achieving Carbon Zero Initiative by the Year 2025.

3. Does this future initiative address a significant aspect in your EMS?
   ☒ Yes
   ☐ No—If no, please explain why you believe this indicator should be included as an environmental improvement initiative:

## CERTIFICATION AND PLEDGE

On behalf of (*name of facility*) AstraZeneca Pharmaceuticals, LP

I certify that the information contained in this Annual Performance Report and attachments is accurate to the best of my knowledge and that this facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with all applicable federal, state, and local environmental requirements, or has a corrective action program in place to attain compliance.

We, AstraZeneca Pharmaceuticals, LP , commit to maintaining the principles and goals outlined in our Environmental Management System for our facility's Indiana Environmental Stewardship Program status. We agree to strive for full compliance with all regulations promulgated by the U.S. EPA, state, or local jurisdictions. We agree to promote the Indiana Environmental Stewardship Program and to share our success stories with other facilities. We understand that we must meet the requirement of implementing one (1) new, independent environmental improvement initiative each year of membership (for a total of four (4) initiatives), that the Annual Performance Report must be submitted to IDEM by April 1st of each year, and that we must reapply to the Indiana Environmental Stewardship Program every four (4) years.

| I understand that the information provided in this Annual Performance Report will be public record. I am the senior facility manager or authorized facility signatory, and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is submitting this Annual Performance Report. | |
|---|---|
| Signature | Date *(month, day, year)*<br>3/28/2022 |
| Printed signature<br>Femi-D-Etti | Title<br>Vice President & General Manager |

AstraZeneca

# AZ-Mount Vernon, Indiana Sustainability Report

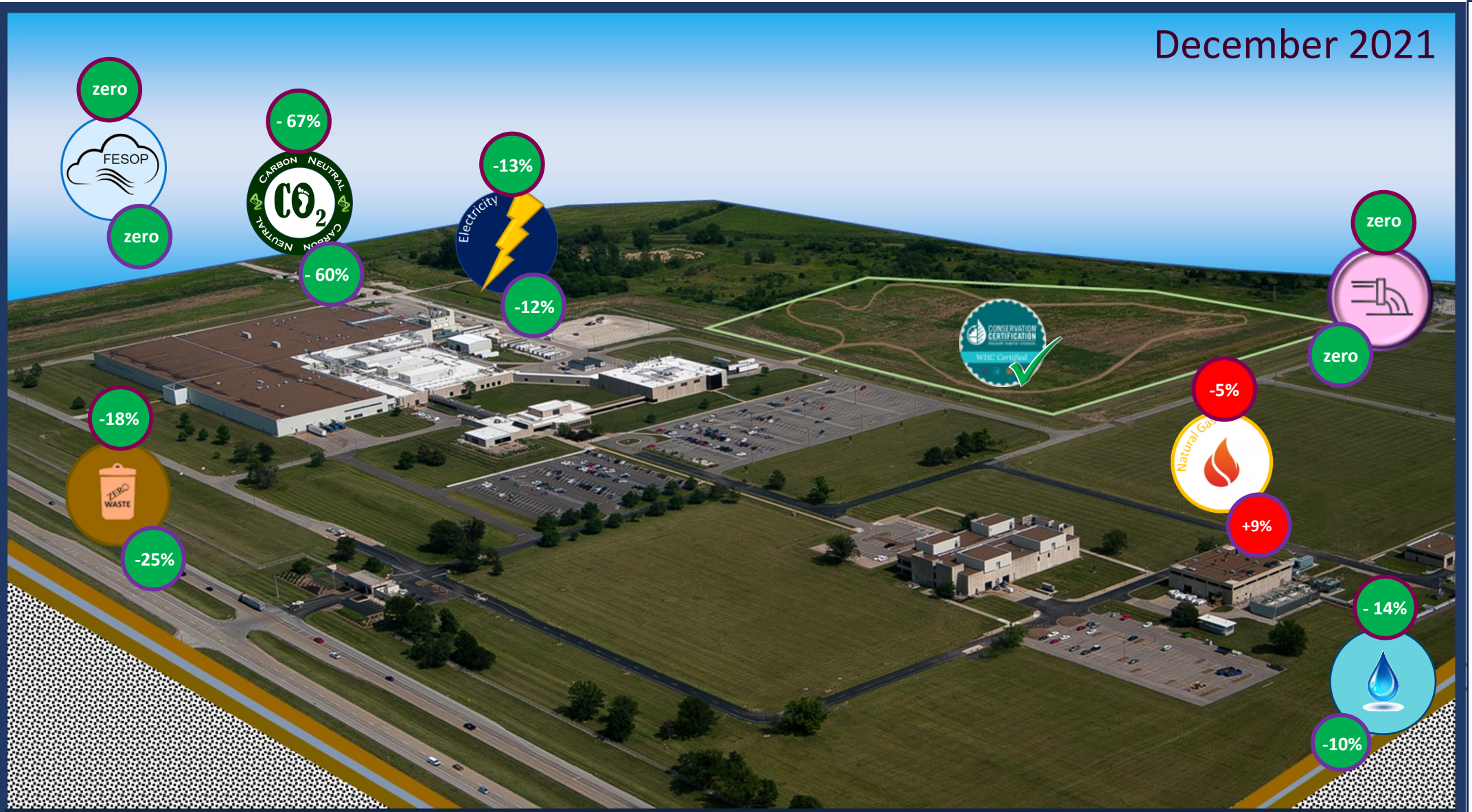
## Natural Resource Utilization Performance

## (December 2021)

06-Jan 2022

# MOUNT VERNON

## ENVIRONMENTAL COMPLIANCE / NATURAL RESOURCE QUICK GLANCE




**MOUNT VERNON** *The Mt. Vernon SHE Team is positioned to strengthen safety performance through employee engagement and enhanced risk management, enhance employee health and wellbeing, reduce environmental impact, and assure compliance with GSHE & regulatory agencies.*

### NRRGG / Environmental Key:

- Air Compliance (Zero Permit Exceedances)
- Electricity Consumption (10% Reduction)
- Greenhouse Gas Emissions (63% Reduction)
- Natural Gas Consumption (10% Reduction)
- Waste Water Compliance (Zero Permit Exceedances)
- Waste Disposal (5% Reduction)
- Water Consumption (10% Reduction)

### Metric Key: (RAG Status)

- Annual (YTD) RAG Status (% Reduction to 2015)
- Month RAG Status (% Reduction to 2015)

*Negative value is reduction from baseline*
*Positive value is increase from baseline.*

# NATURAL RESOURCE UTILIZATION

## Electrical Consumption Performance Metrics

AstraZeneca
MOUNT VERNON, INDIANA

### NATURAL RESOURCE SUSTAINABILITY DASHBOARD

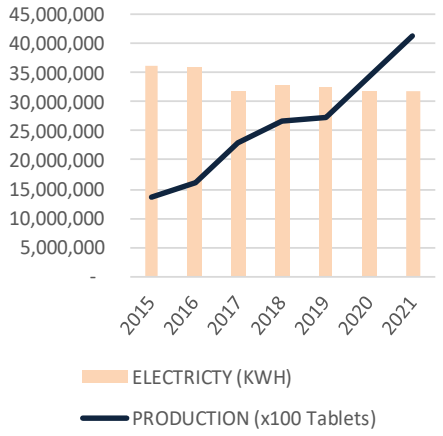
SUSTAINABLE DEVELOPMENT GOALS **ELECTRICITY**


**ELECTRICITY CONSUMPTION (TOTAL KILOWATT HOURS)**

printed on: 1/6/2022
Timeperiod: n

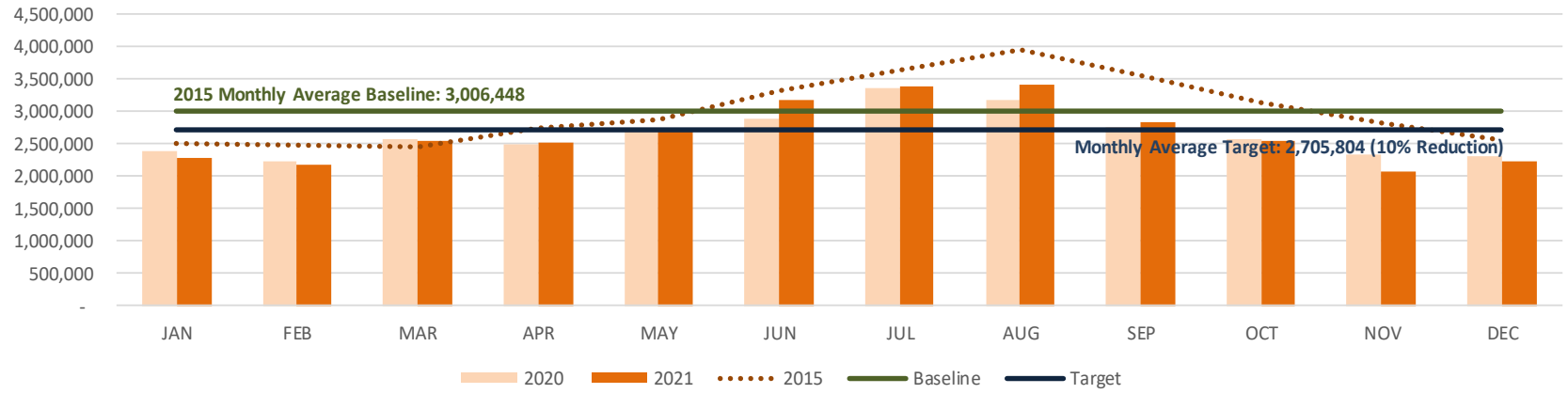
| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL | COMMENTS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Baseline | 3,006,448 | 3,006,448 | 3,006,448 | 3,006,448 | 3,006,448 | 3,006,448 | 3,006,448 | 3,006,448 | 3,006,448 | 3,006,448 | 3,006,448 | 3,006,448 | 36,077,381 | | |
| Target | 2,705,804 | 2,705,804 | 2,705,804 | 2,705,804 | 2,705,804 | 2,705,804 | 2,705,804 | 2,705,804 | 2,705,804 | 2,705,804 | 2,705,804 | 2,705,804 | 32,469,643 | 10% | REDUCTION TO BASELINE |
| 2015 | 2,515,251 | 2,491,251 | 2,448,048 | 2,755,248 | 2,860,857 | 3,331,249 | 3,648,052 | 3,940,822 | 3,566,450 | 3,148,842 | 2,808,048 | 2,563,263 | 36,077,381 | -- | BASELINE YEAR |
| 2016 | 2,587,238 | 2,515,254 | 2,414,447 | 2,716,846 | 2,750,456 | 3,004,848 | 3,566,454 | 3,859,257 | 3,835,256 | 3,249,656 | 2,918,448 | 2,548,800 | 35,966,960 | 0.3% | Reduction From Baseline |
| 2017 | 2,409,646 | 2,457,653 | 2,275,244 | 2,452,844 | 2,500,855 | 2,764,845 | 2,947,255 | 3,283,257 | 3,081,649 | 2,764,857 | 2,664,047 | 2,265,648 | 31,867,800 | 11.7% | Reduction From Baseline |
| 2018 | 2,198,446 | 2,356,848 | 2,241,649 | 2,505,645 | 2,457,650 | 2,980,848 | 3,100,850 | 3,288,065 | 3,422,457 | 3,057,652 | 2,726,444 | 2,342,446 | 32,679,000 | 9.4% | Reduction From Baseline |
| 2019 | 2,572,851 | 2,318,447 | 2,544,095 | 2,596,829 | 2,889,600 | 2,976,000 | 3,259,200 | 3,158,400 | 2,990,400 | 2,692,800 | 2,246,400 | 2,284,800 | 32,529,822 | 9.8% | Reduction From Baseline |
| 2020 | 2,385,600 | 2,227,200 | 2,568,000 | 2,496,000 | 2,716,800 | 2,880,000 | 3,350,400 | 3,187,200 | 2,755,200 | 2,582,400 | 2,347,200 | 2,308,800 | 31,804,800 | 11.8% | Reduction From Baseline |
| 2021 | 2,294,400 | 2,174,400 | 2,534,400 | 2,515,200 | 2,702,400 | 3,163,200 | 3,393,600 | 3,417,600 | 2,827,200 | 2,539,200 | 2,068,800 | 2,241,600 | 31,872,000 | **11.7%** | YTD to Baseline Year |

**ANNUAL ELECTRICITY CONSUMPTION (KWH)**




**MONTHLY NATURAL RESOURCE PRESENTATION**
Electricity Consumption (KWH)

| | | | |
|---|---|---|---|
| 2021 YTD Total: | 31,872,000 | YTD Monthly Average to Target: | 2,656,000 |
| 2015 YTD Total: | 36,077,381 | YTD Forecast to 2015 (Mo. Avg): (%) | 11.7% |



# NATURAL RESOURCE UTILIZATION

## Natural Gas Consumption Performance Metrics

AstraZeneca
MOUNT VERNON, INDIANA

### NATURAL RESOURCE SUSTAINABILITY DASHBOARD

SUSTAINABLE DEVELOPMENT GOALS

# NATURAL GAS

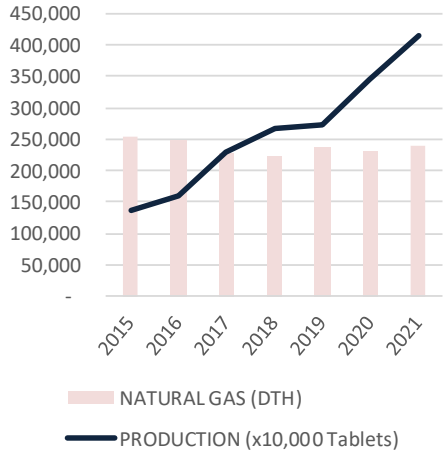
Natural Gas

### NATURAL GAS CONSUMPTION (TOTAL DECATHERMS)

printed on: 1/6/2022
Timeperiod: n

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Baseline | 21,104 | 21,104 | 21,104 | 21,104 | 21,104 | 21,104 | 21,104 | 21,104 | 21,104 | 21,104 | 21,104 | 21,104 | 253,243 | | |
| Target | 18,993 | 18,993 | 18,993 | 18,993 | 18,993 | 18,993 | 18,993 | 18,993 | 18,993 | 18,993 | 18,993 | 18,993 | 227,919 | 10% | REDUCTION TO BASELINE |
| 2015 | 24,295 | 26,029 | 26,037 | 24,245 | 19,377 | 19,986 | 18,772 | 18,693 | 19,304 | 17,523 | 19,166 | 19,816 | 253,243 | -- | BASELINE YEAR |
| 2016 | 21,451 | 24,902 | 23,172 | 22,405 | 20,835 | 20,179 | 17,630 | 18,093 | 18,601 | 18,446 | 19,792 | 22,498 | 248,004 | 2.1% | Reduction From Baseline |
| 2017 | 25,918 | 22,335 | 19,102 | 20,544 | 17,176 | 17,237 | 17,045 | 17,438 | 16,798 | 16,521 | 17,967 | 19,221 | 227,302 | 10.2% | Reduction From Baseline |
| 2018 | 21,866 | 22,314 | 18,343 | 21,175 | 18,631 | 16,668 | 15,061 | 15,624 | 16,360 | 16,794 | 18,728 | 20,149 | 221,714 | 12.5% | Reduction From Baseline |
| 2019 | 23,100 | 20,689 | 22,179 | 19,175 | 18,429 | 17,746 | 18,324 | 15,414 | 17,861 | 19,993 | 22,061 | 22,520 | 237,492 | 6.2% | Reduction From Baseline |
| 2020 | 22,605 | 20,417 | 20,327 | 19,181 | 18,819 | 16,689 | 17,615 | 16,916 | 17,633 | 20,203 | 19,988 | 21,206 | 231,599 | 8.5% | Reduction From Baseline |
| 2021 | 22,029 | 21,407 | 20,469 | 18,988 | 18,692 | 18,962 | 19,135 | 19,573 | 18,538 | 19,620 | 21,356 | 21,533 | 240,302 | **5.1%** | YTD to Baseline |

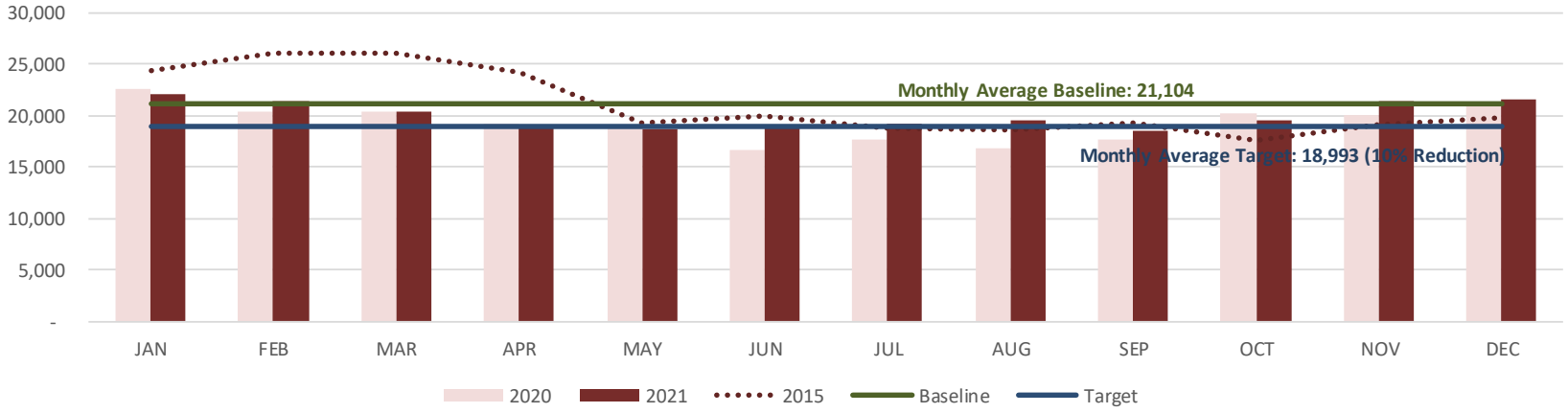
### ANNUAL NATURAL GAS CONSUMPTION (DTH)




### MONTHLY NATURAL RESOURCE PRESENTATION

Natural Gas Consumption (DTH)

| | | | |
|---|---|---|---|
| 2021 YTD Total: | 240,302 | YTD Monthly Average to Target: | 20,025 |
| 2015 YTD Total: | 253,243 | YTD Forecast to 2015 (Mo. Avg): (%) | 5.1% |



# NATURAL RESOURCE UTILIZATION

## Greenhouse Gas Emissions Performance Metrics

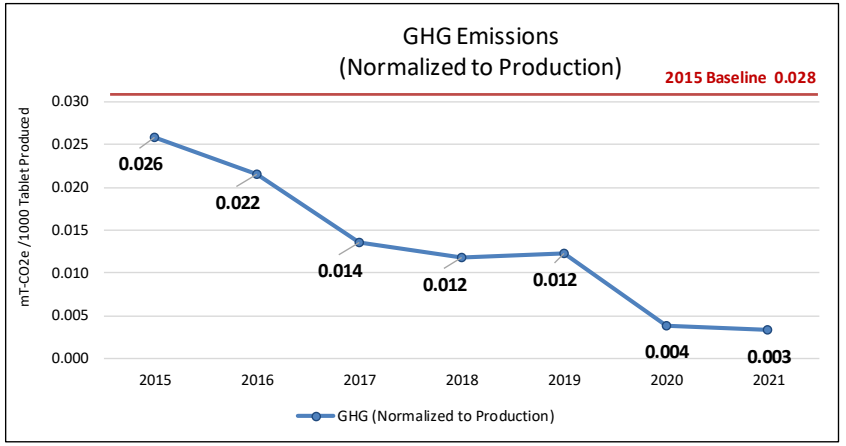
AstraZeneca
MOUNT VERNON, INDIANA

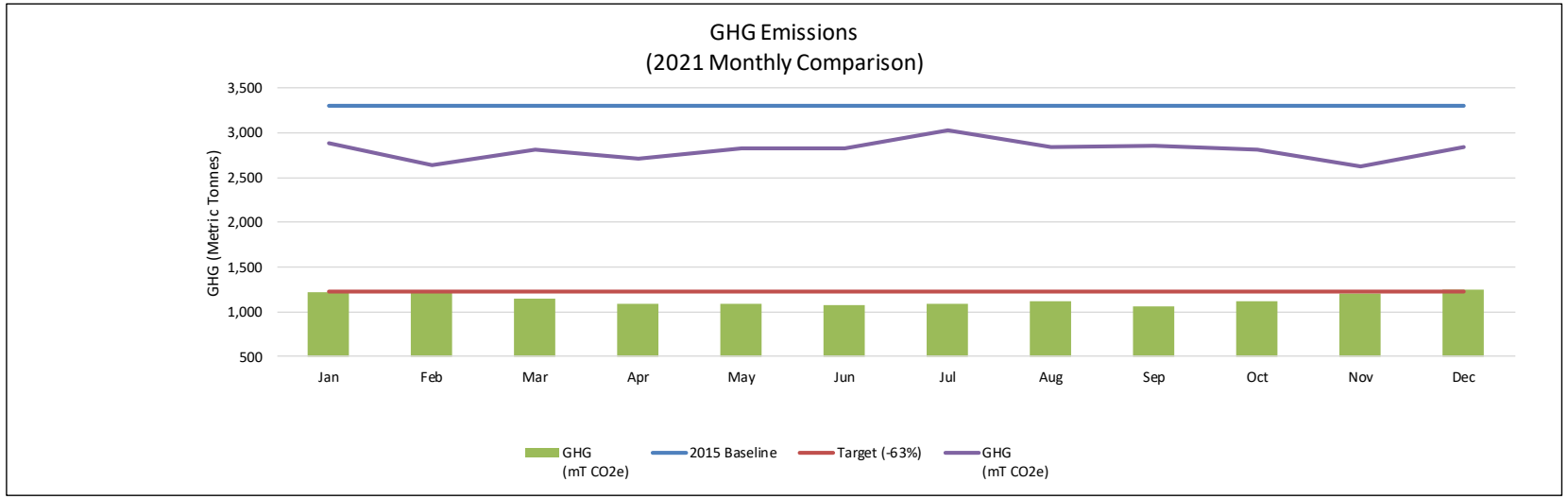
## NATURAL RESOURCE SUSTAINABILITY DASHBOARD

SUSTAINABLE DEVELOPMENT GOALS **GREENHOUSE GAS (GHG) EMISSIONS**

printed on: 1/6/2022

| GHG DATA PRESENTATION | | | 2019 | | | 2020 | | | 2021 | | | Normalized to Production | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | vs. 2015 Baseline | | | vs. 2015 Baseline | | | vs. 2015 Baseline | | | | |
| Month | 2015 Baseline | Target (-63%) | GHG (mT CO2e) | Monthly (%Diff) | YTD (% Diff) | GHG (mT CO2e) | Monthly (%Diff) | YTD (% Diff) | GHG (mT CO2e) | Monthly (%Diff) | YTD (% Diff) | YEAR | GHG (Tons-CO2e/ x1000 Tablet) | (% Diff) |
| Jan | 3,307 | 1,224 | 2,880 | -12.9% | -12.9% | 1,293 | -60.9% | -60.9% | 1,219 | -63.1% | -63.1% | 2015 | 0.026 | Baseline |
| Feb | 3,307 | 1,224 | 2,642 | -20.1% | -16.5% | 1,174 | -64.5% | -62.7% | 1,217 | -63.2% | -63.2% | 2016 | 0.022 | 17% |
| Mar | 3,307 | 1,224 | 2,806 | -15.1% | -16.1% | 1,157 | -65.0% | -63.5% | 1,151 | -65.2% | -63.8% | 2017 | 0.014 | 47% |
| Apr | 3,307 | 1,224 | 2,713 | -18.0% | -16.5% | 1,121 | -66.1% | -64.1% | 1,092 | -67.0% | -64.6% | 2018 | 0.012 | 54% |
| May | 3,307 | 1,224 | 2,822 | -14.7% | -16.2% | 1,059 | -68.0% | -64.9% | 1,089 | -67.1% | -65.1% | 2019 | 0.012 | 52% |
| Jun | 3,307 | 1,224 | 2,818 | -14.8% | -15.9% | 965 | -70.8% | -65.9% | 1,073 | -67.6% | -65.5% | 2020 | 0.004 | 85% |
| Jul | 3,307 | 1,224 | 3,024 | -8.6% | -14.9% | 1,013 | -69.4% | -66.4% | 1,096 | -66.9% | -65.7% | 2021 | 0.003 | 87% |
| Aug | 3,307 | 1,224 | 2,840 | -14.1% | -14.8% | 1,022 | -69.1% | -66.7% | 1,119 | -66.2% | -65.8% | 2022 | - | - |
| Sep | 3,307 | 1,224 | 2,856 | -13.6% | -14.7% | 1,015 | -69.3% | -67.0% | 1,063 | -67.9% | -66.0% | 2023 | - | - |
| Oct | 3,307 | 1,224 | 2,814 | -14.9% | -14.7% | 1,137 | -65.6% | -66.9% | 1,122 | -66.1% | -66.0% | 2024 | - | - |
| Nov | 3,307 | 1,224 | 2,628 | -20.5% | -15.2% | 1,139 | -65.6% | -66.8% | 1,207 | -63.5% | -65.8% | 2025 | - | - |
| Dec | 3,307 | 1,224 | 2,839 | -14.1% | -15.1% | 1,216 | -63.2% | -66.5% | 1,250 | -62.2% | -65.5% | 2026 | - | - |




# NATURAL RESOURCE UTILIZATION

## Water Consumption Performance Metrics

AstraZeneca
MOUNT VERNON, INDIANA

### NATURAL RESOURCE SUSTAINABILITY DASHBOARD

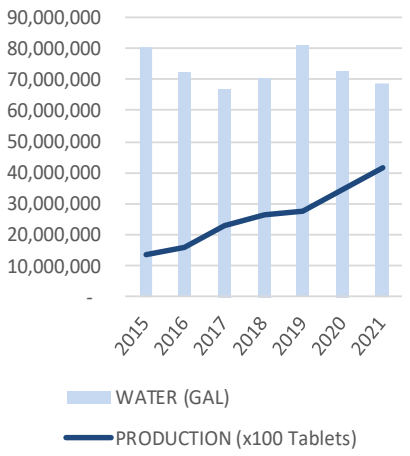
SUSTAINABLE DEVELOPMENT GOALS WATER


### WATER CONSUMPTION (TOTAL GALLONS)

printed on: 1/6/2022
Timeperiod: n

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Baseline | 6,707,350 | 6,707,350 | 6,707,350 | 6,707,350 | 6,707,350 | 6,707,350 | 6,707,350 | 6,707,350 | 6,707,350 | 6,707,350 | 6,707,350 | 6,707,350 | 80,488,200 | | |
| Target | 6,036,615 | 6,036,615 | 6,036,615 | 6,036,615 | 6,036,615 | 6,036,615 | 6,036,615 | 6,036,615 | 6,036,615 | 6,036,615 | 6,036,615 | 6,036,615 | 72,439,380 | 10% | REDUCTION TO BASELINE |
| 2015 | 3,824,300 | 4,333,010 | 4,266,250 | 4,210,780 | 5,808,700 | 7,353,070 | 7,112,530 | 11,823,160 | 5,668,160 | 10,257,770 | 8,636,290 | 7,194,180 | 80,488,200 | -- | BASELINE YEAR |
| 2016 | 5,488,000 | 4,700,900 | 3,695,300 | 4,470,200 | 4,556,100 | 5,541,500 | 4,651,400 | 6,092,010 | 7,794,000 | 11,791,300 | 8,558,500 | 4,954,600 | 72,293,810 | 10.2% | Reduction From Baseline |
| 2017 | 4,770,400 | 3,832,400 | 3,010,700 | 3,191,700 | 4,211,400 | 5,219,800 | 6,228,800 | 6,274,200 | 7,768,300 | 7,725,900 | 7,637,300 | 7,029,200 | 66,900,100 | 16.9% | Reduction From Baseline |
| 2018 | 5,073,800 | 4,479,500 | 5,366,200 | 4,226,600 | 4,300,700 | 5,064,600 | 6,288,500 | 7,305,200 | 7,445,200 | 7,253,400 | 8,121,900 | 5,753,700 | 70,679,300 | 12.2% | Reduction From Baseline |
| 2019 | 5,896,870 | 3,611,000 | 4,620,700 | 4,914,800 | 6,336,800 | 6,399,500 | 8,804,200 | 11,055,650 | 9,546,070 | 7,292,720 | 4,222,870 | 6,879,209 | 79,580,389 | 1.1% | Reduction From Baseline |
| 2020 | 6,358,942 | 5,955,440 | 6,764,550 | 6,266,220 | 5,643,560 | 5,261,980 | 7,429,010 | 5,317,040 | 6,594,080 | 6,452,500 | 4,890,870 | 5,796,610 | 72,730,802 | 9.6% | Reduction From Baseline |
| 2021 | 3,776,170 | 4,420,530 | 5,251,170 | 5,690,580 | 5,368,950 | 5,978,220 | 8,534,850 | 6,893,430 | 6,903,500 | 5,094,280 | 4,712,290 | 5,951,080 | 68,575,050 | **14.8%** | YTD to Baseline Year |

### ANNUAL WATER CONSUMPTION (GAL)

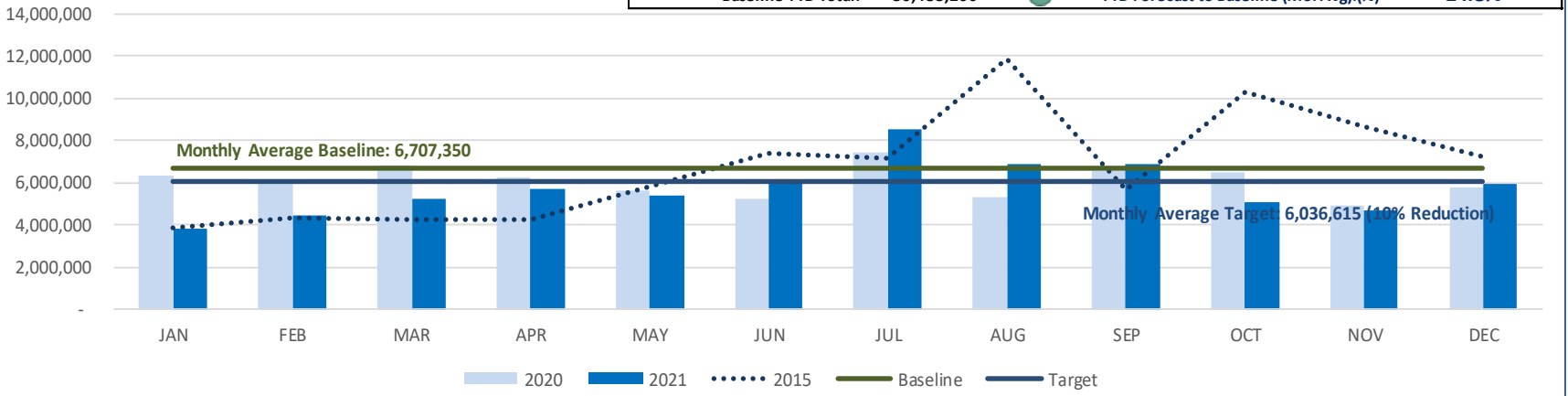



### MONTHLY NATURAL RESOURCE PRESENTATION

Water Consumption (Gal)

**YEAR-TO-DATE SNAPSHOT**

| | | | |
|---|---|---|---|
| 2021 YTD Total: | 68,575,050 | YTD Monthly Average to Target: | 5,714,588 |
| Baseline YTD Total: | 80,488,200 | YTD Forecast to Baseline (Mo. Avg):(%) | 14.8% |



# NATURAL RESOURCE UTILIZATION

## Wastewater Effluent Performance Metrics

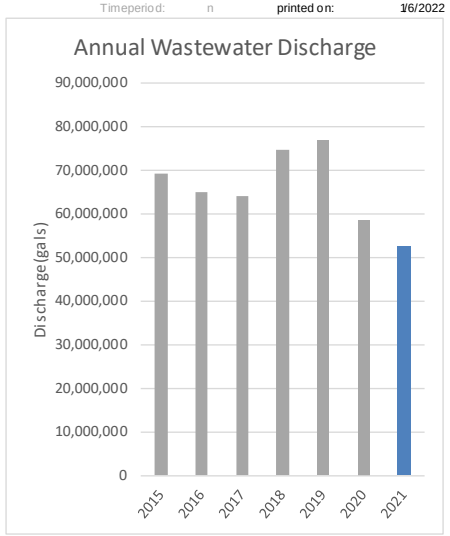
AstraZeneca
MOUNT VERNON, INDIANA

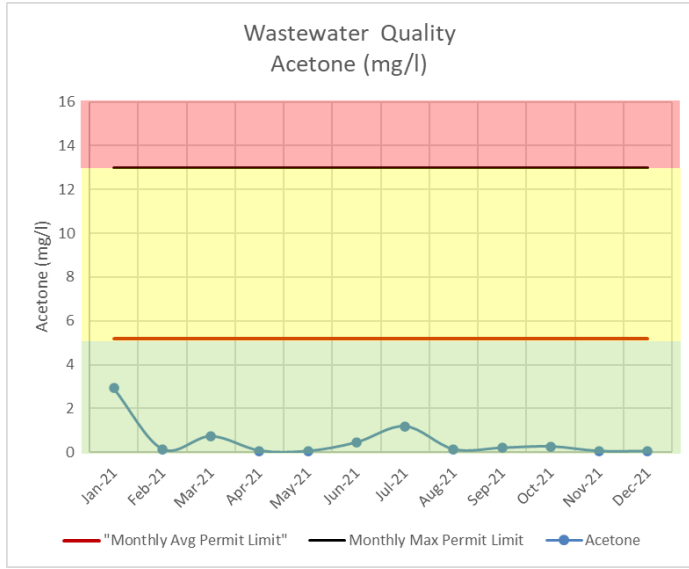
### WASTEWATER DASHBOARD

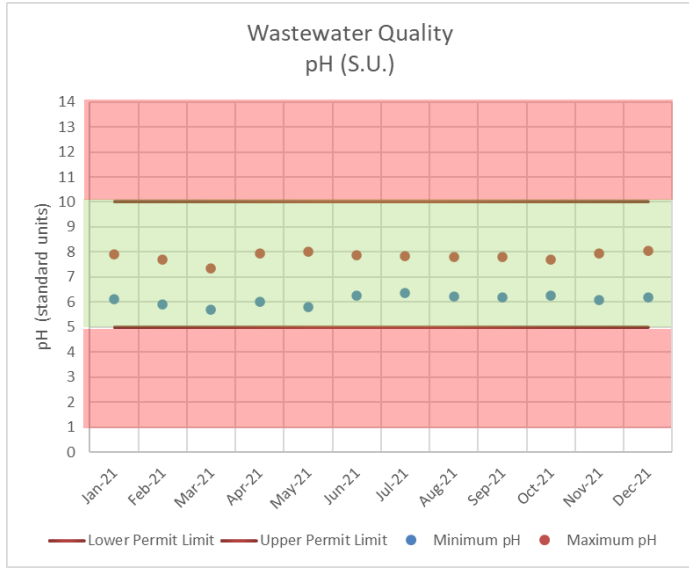
Timeperiod: n printed on: 1/6/2022

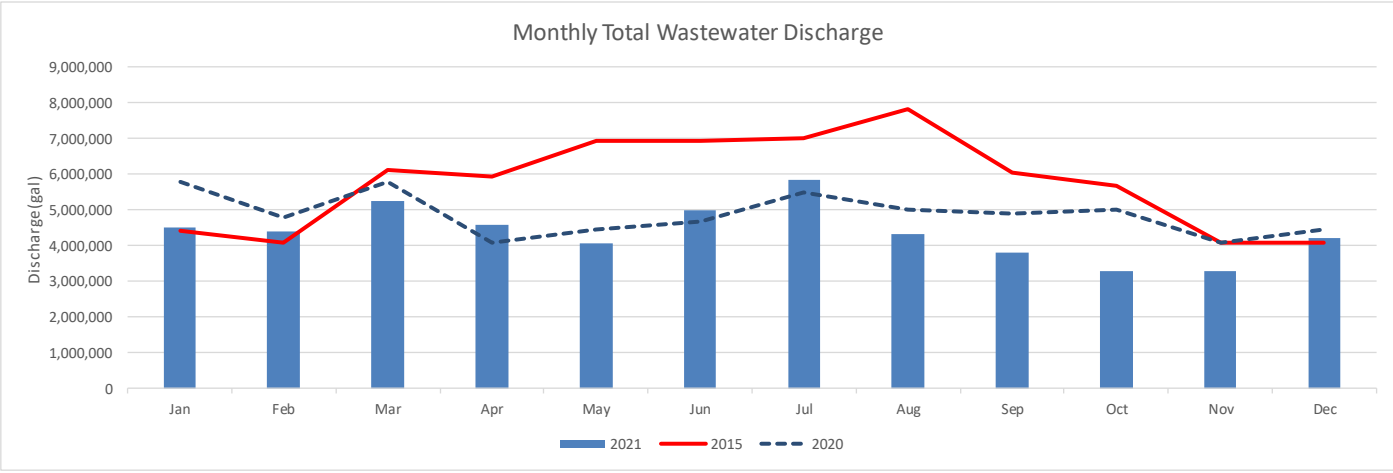
**Wastewater Discharge (Gallons)**

| | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|---|---|---|---|---|---|---|---|
| Jan | 4,406,678 | 3,779,000 | 3,747,000 | 5,111,000 | 6,433,000 | 5,780,856 | 4,502,837 |
| Feb | 4,089,128 | 3,652,000 | 3,812,000 | 5,305,900 | 4,971,000 | 4,778,812 | 4,404,581 |
| Mar | 6,109,147 | 4,677,000 | 4,673,000 | 6,019,000 | 5,560,000 | 5,783,902 | 5,232,510 |
| Apr | 5,930,083 | 4,199,000 | 6,073,000 | 5,478,000 | 5,750,000 | 4,065,627 | 4,593,846 |
| May | 6,936,114 | 6,058,000 | 6,128,000 | 6,050,000 | 5,513,000 | 4,452,330 | 4,068,196 |
| Jun | 6,951,041 | 6,140,632 | 5,470,000 | 7,641,000 | 6,256,000 | 4,678,820 | 4,995,804 |
| Jul | 7,019,127 | 6,451,210 | 5,232,000 | 6,388,000 | 7,425,000 | 5,478,451 | 5,827,091 |
| Aug | 7,808,868 | 9,553,890 | 6,573,000 | 6,887,000 | 11,172,000 | 4,999,470 | 4,315,640 |
| Sep | 6,054,970 | 8,709,881 | 7,347,000 | 6,295,000 | 7,117,338 | 4,894,011 | 3,787,810 |
| Oct | 5,679,100 | 5,000,075 | 5,903,000 | 5,863,000 | 5,591,000 | 4,989,938 | 3,273,186 |
| Nov | 4,070,310 | 3,752,000 | 4,000,000 | 5,885,000 | 4,789,300 | 4,072,059 | 3,285,487 |
| Dec | 4,075,600 | 3,079,000 | 5,001,000 | 7,889,000 | 6,253,826 | 4,466,821 | 4,199,808 |
| Total | 69,130,165 | 65,051,688 | 63,959,000 | 74,811,900 | 76,831,465 | 58,441,097 | 52,486,796 |
| Monthly Average (gal/mo) | 5,760,847 | 5,420,974 | 5,329,917 | 6,234,325 | 6,402,622 | 4,870,091 | 4,373,900 |
| Daily Average (gal/day) | 189,398 | 178,224 | 175,230 | 204,964 | 210,497 | 160,113 | 47,672 |



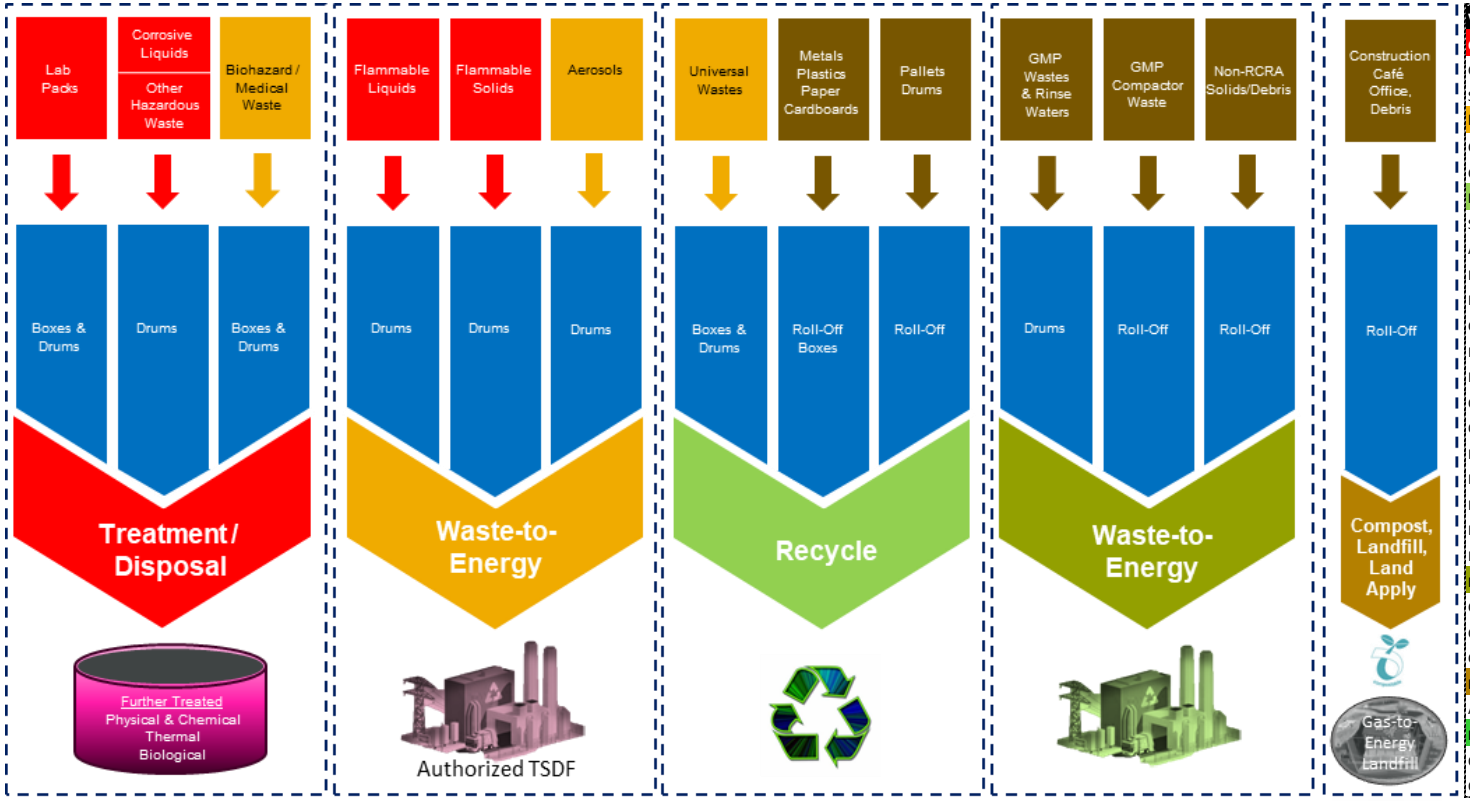




# NATURAL RESOURCE UTILIZATION

## Waste Disposal Performance Metrics

AstraZeneca
MOUNT VERNON, INDIANA




## WASTE MINIMIZATION SUMMARY

printed on: 1/6/2022

| VENDOR | WASTE STREAM NAME | TREATMENT | Percent |
|---|---|---|---|
| CHEMICAL/BIOHAZARDS WASTE (TREATMENT / DISPOSAL) | | | 0.0% |
| Clean Harbors | Off-Specification Chemicals | Treatment/Disposal | 0.0% |
| Stericycle | Biohazards | Incineration | 0.0% |
| HAZARDOUS WASTE (WASTE-TO-ENERGY Authorized TSDF) | | | 1.3% |
| Clean Harbors | Hazardous Waste | Incineration | 1.3% |
| Clean Harbors | Used Oil | Fuel Blend | 0.0% |
| RECYCLED WASTES (RECYCLE) | | | 15.0% |
| Shred-It | Paper | Recycle | 0.7% |
| Advance | Cardboard | Recycle | 0.0% |
| Fligeltaub (Metal) | Metal | Recycle | 2.1% |
| National Lamp | Lamps | Recycle | 0.1% |
| C&I | Electronics | Recycle | 0.1% |
| IBC | Gloves | Recycle | 0.0% |
| Frytech | Cooking Oil | Recycle | 0.0% |
| O'Bryan Barrel | Drums | Recycle | 9.0% |
| QcD Plastics | Plastics | Recycle | 0.0% |
| Posey County Recycling | Plastics | Recycle | 0.7% |
| Posey County Recycling | Glass | Recycle | 0.0% |
| Posey County Recycling | Cardboard | Recycle | 1.4% |
| Posey County Recycling | Commingle | Recycle | 0.4% |
| Batteries Plus | Batteries | Recycle | 0.3% |
| PHARMACEUTICAL (GMP) WASTE (WASTE-TO-ENERGY) | | | 52.4% |
| Covanta | Pharmaceutical Process Waste | Incineration | 48.9% |
| Covanta | Non-RCRA Debris/MSW | Incineration | 2.7% |
| Clean Harbors | Pharmaceutical Process Waste | Incineration | 0.8% |
| LANDFILLED WASTE (COMPOST, LANDFILL, LAND APPLY) | | | 1.8% |
| Advance | Mixed Solid Waste | Landfill | 1.8% |
| REUSE MATERIALS* | | | 29.6% |
| O'Bryan Barrel | Large Fibre Drums | Reuse | 17.0% |
| QcD Plastics, Advance | Cardboard, Plastics | Commodity | 12.6% |

* Please note that Reuse Materials are not waste but treated as a "valued" commodity.

| | |
|---|---|
| Total: | 1,606.47 |
| Total minus Reuse: | 1,131.28 |
| Total minus Reuse minus Const: | **1,104.51** |

| | |
|---|---|
| CONSTRUCTION DEBRIS (CAPITAL PROJECTS)** | 1.7% |

** Construction Waste is included in landfill and metal recycles originating from remodel/build-outs.

AstraZeneca
MOUNT VERNON, INDIANA

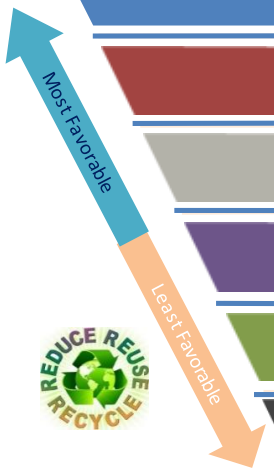
# WASTE BREAK-OUT ANALYSIS

printed on: 1/6/2022

## Waste Minimization Methodologies

Lean Framework activities underpin our waste minimization efforts at AZ – Mount Vernon. We continuously strive to reduce waste (energy, materials, natural resources, movements) to further improve our environment.

## Hierarchy of Waste Minimization




| | | | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|---|---|---|---|---|---|---|---|---|---|
| Prevention | 1 | Avoid Waste. Maximize Conservation of Resources. | | | | | | | |
| Minimize | 2 | Minimize Waste where possible if it must be used. | | | | | | | |
| Reuse | 3 | Reuse materials, preferably internally, but external is acceptable. | NR | NR | NR | NR | NR | 498 | 475 |
| | | | | | | | | 32% | 30% |
| Recycle | 4 | Recycle & Reprocess Materials. | 332 | 371 | 345 | 463 | 777 | 185 | 240 |
| | | | 26% | 31% | 29% | 33% | 40% | 12% | 15% |
| Energy | 5 | Energy Recovery prior to Disposal. | 211 | 318 | 502 | 754 | 1038 | 808 | 863 |
| | | | 17% | 26% | 43% | 54% | 55% | 51% | 54% |
| Dispose | 6 | Disposal to Landfill / Treatment Facility | 739 | 520 | 336 | 180 | 104 | 85 | 28 |
| | | | 58% | 43% | 28% | 13% | 5% | 5% | 2% |
| **TOTAL: (mT)** | | | **1,282** | **1,209** | **1,182** | **1,397** | **1,942** | **1,576** | **1,606** |

ESP Indiana Environmental Stewardship Program

Partners for Pollution Prevention

** Results are reported in metric tons. Please note that data for 2015-2018 are based upon historic volumes that were taken from prior reports.*

*** Total includes Waste (mT) + Reuse Materials (mT). Reuse quantity and construction debris must be removed to compare to Site Waste Metric.*

# NATURAL RESOURCE UTILIZATION

Productivity Normalized to Natural Resource Consumption

AstraZeneca
MOUNT VERNON, INDIANA

## NATURAL RESOURCE SUSTAINABILITY DASHBOARD

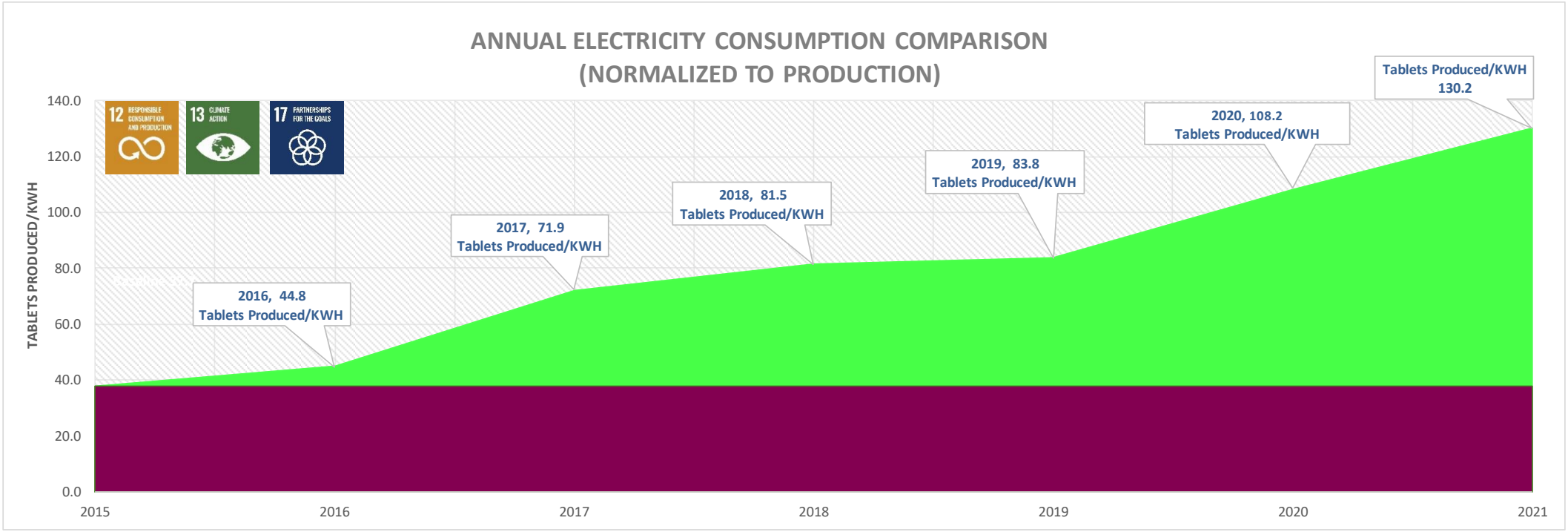
SUSTAINABLE DEVELOPMENT GOALS

# ELECTRICITY

printed on: 1/6/2022


**ELECTRICITY CONSUMPTION NORMALIZED TO PRODUCTION (TABLET PRODUCED (x1000)/KWH)**

| YEAR | Baseline | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL | %Change | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2015 | 37.7 | 51.1 | 62.6 | 43.5 | 41.5 | 28.9 | 39.2 | 33.5 | 32.7 | 21.3 | 36.8 | 39.4 | 33.6 | 37.7 | -- | BASELINE YEAR |
| 2016 | 37.7 | 62.2 | 59.2 | 73.7 | 45.9 | 33.4 | 35.1 | 21.3 | 32.9 | 33.9 | 50.6 | 38.0 | 75.9 | 44.8 | 19.0% | Improvement to Baseline |
| 2017 | 37.7 | 57.6 | 52.9 | 109.5 | 71.1 | 56.9 | 81.6 | 60.6 | 77.6 | 62.9 | 78.5 | 94.3 | 60.2 | 71.9 | 91.0% | Improvement to Baseline |
| 2018 | 37.7 | 87.1 | 103.0 | 100.4 | 88.1 | 83.0 | 59.2 | 74.6 | 67.5 | 74.1 | 95.7 | 94.0 | 63.2 | 81.5 | 116.5% | Improvement to Baseline |
| 2019 | 37.7 | 90.6 | 77.0 | 110.9 | 110.3 | 90.1 | 93.8 | 80.9 | 71.8 | 62.9 | 84.2 | 69.4 | 65.2 | 83.9 | 122.9% | Improvement to Baseline |
| 2020 | 37.7 | 90.4 | 125.7 | 125.7 | 114.5 | 96.7 | 104.5 | 92.7 | 96.2 | 116.2 | 109.5 | 130.4 | 107.2 | 108.2 | 187.3% | Improvement to Baseline |
| 2021 | 37.7 | 110.7 | 147.4 | 143.7 | 145.3 | 142.2 | 118.9 | 120.4 | 125.6 | 133.2 | 99.5 | 154.3 | 133.4 | 130.2 | 245.8% | YTD to Baseline |



# NATURAL RESOURCE UTILIZATION

Productivity Normalized to Natural Resource Consumption

AstraZeneca
MOUNT VERNON, INDIANA

## NATURAL RESOURCE SUSTAINABILITY DASHBOARD

SUSTAINABLE DEVELOPMENT GOALS

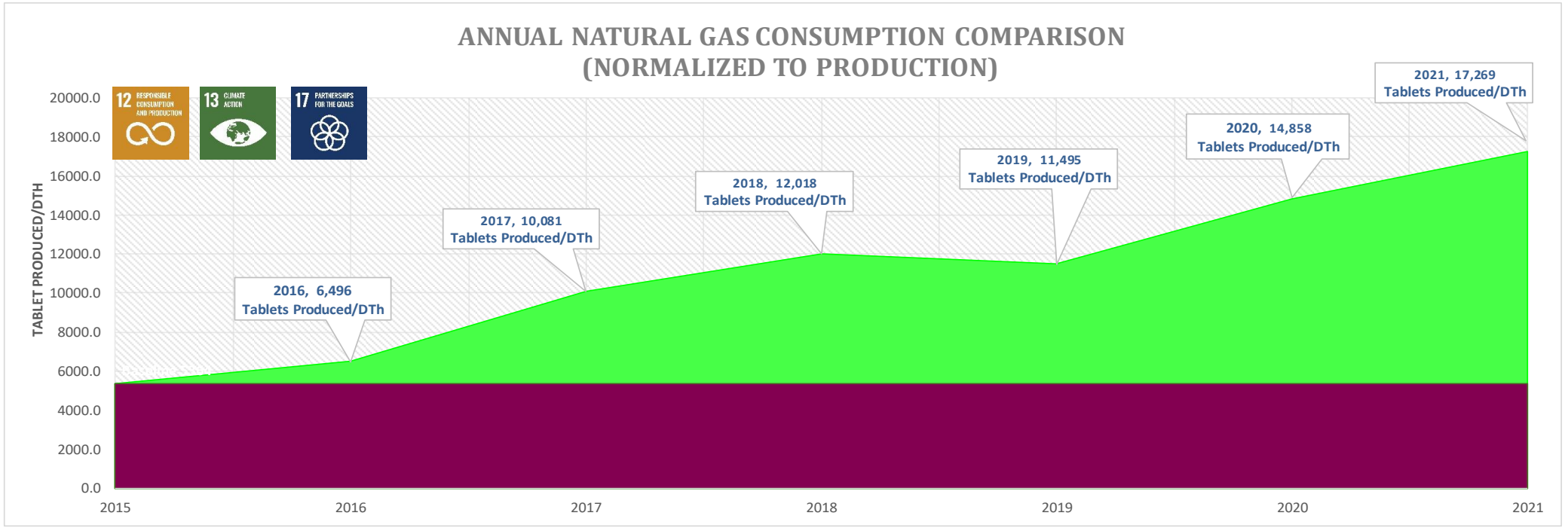
## NATURAL GAS

Natural Gas

**NATURAL GAS CONSUMPTION NORMALIZED TO PRODUCTION (TABLETS PRODUCED (x1000)/DTH)**

printed on: 1/6/2022

| YEAR | Baseline | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL | %Change | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2015 | 5364.3 | 5289.2 | 5991.6 | 4085.8 | 4718.0 | 4265.8 | 6532.1 | 6507.9 | 6902.3 | 3935.5 | 6621.0 | 5773.2 | 4350.1 | 5364.3 | -- | BASELINE YEAR |
| 2016 | 5364.3 | 7505.6 | 5977.9 | 7676.9 | 5565.7 | 4408.2 | 5221.3 | 4312.4 | 7016.1 | 6988.2 | 8907.7 | 5601.0 | 8594.9 | 6496.5 | 21% | Reduction From Baseline |
| 2017 | 5364.3 | 5351.3 | 5819.5 | 13037.3 | 8483.3 | 8280.9 | 13081.2 | 10486.4 | 14605.5 | 11534.3 | 13133.8 | 13982.4 | 7096.1 | 10081.3 | 88% | Reduction From Baseline |
| 2018 | 5364.3 | 8753.5 | 10878.1 | 12263.8 | 10424.5 | 10952.6 | 10589.6 | 15352.8 | 14212.9 | 15509.9 | 17429.7 | 13682.7 | 7350.1 | 12017.8 | 124% | Reduction From Baseline |
| 2019 | 5364.3 | 10091.3 | 8631.0 | 12721.4 | 14935.0 | 14130.3 | 15736.9 | 14386.3 | 14707.3 | 10537.2 | 11345.2 | 7069.8 | 6610.2 | 11495.4 | 114% | Reduction From Baseline |
| 2020 | 5364.3 | 9537.0 | 13708.7 | 15880.6 | 14897.2 | 13958.4 | 18027.8 | 17630.1 | 18121.5 | 18162.6 | 13992.2 | 15310.5 | 11668.0 | 14857.9 | 177% | Reduction From Baseline |
| 2021 | 5364.3 | 11533.0 | 14976.4 | 17795.8 | 19243.3 | 20551.9 | 19841.8 | 21344.3 | 21932.9 | 20312.2 | 12875.2 | 14948.5 | 13885.7 | 17269.2 | 222% | YTD to Baseline |



# NATURAL RESOURCE UTILIZATION

Productivity Normalized to Natural Resource Consumption

AstraZeneca
MOUNT VERNON, INDIANA

## NATURAL RESOURCE SUSTAINABILITY DASHBOARD

SUSTAINABLE DEVELOPMENT GOALS WATER

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### WATER CONSUMPTION NORMALIZED TO TABLETS PRODUCED (TABLETS PRODUCED(x1000)/GALLON OF WATER)

| YEAR | Baseline | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2015 | 16.9 | 33.6 | 36.0 | 24.9 | 27.2 | 14.2 | 17.8 | 17.2 | 10.9 | 13.4 | 11.3 | 12.8 | 12.0 | 16.9 | -- | BASELINE YEAR |
| 2016 | 16.9 | 29.3 | 31.6 | 20.8 | 35.8 | 49.6 | 52.6 | 61.2 | 48.0 | 60.0 | 71.8 | 77.2 | 25.6 | 22.3 | 32.0% | Improvement to Baseline |
| 2017 | 16.9 | 29.1 | 29.5 | 12.1 | 18.3 | 29.6 | 23.1 | 34.8 | 24.6 | 40.1 | 35.6 | 30.4 | 51.5 | 34.3 | 102.9% | Improvement to Baseline |
| 2018 | 16.9 | 37.7 | 18.5 | 23.9 | 19.1 | 21.1 | 28.7 | 27.2 | 32.9 | 29.3 | 24.8 | 31.7 | 38.9 | 37.7 | 123.4% | Improvement to Baseline |
| 2019 | 16.9 | 41.0 | 27.2 | 47.8 | 79.3 | 56.4 | 56.8 | 41.6 | 35.4 | 21.4 | 20.5 | 16.3 | 20.4 | 33.8 | 100.4% | Improvement to Baseline |
| 2020 | 16.9 | 33.9 | 47.0 | 47.7 | 45.6 | 46.5 | 57.2 | 41.8 | 57.7 | 48.6 | 43.8 | 62.6 | 42.7 | 47.3 | 180.3% | Improvement to Baseline |
| 2021 | 16.9 | 67.3 | 72.5 | 69.4 | 64.2 | 71.6 | 62.9 | 47.9 | 62.3 | 54.5 | 49.6 | 67.7 | 50.2 | 60.5 | 258.5% | YTD to Baseline |