# **PERFORMANCE SUMMARY**

## FY 2022

**IRPC Public Company Limited** 

## Economic

## **Financial Capital**

| GRI<br>Standard     | Data  | Unit        | 2019    | 2020    | 2021    | 2022    |
|---------------------|---|-------------|---------|---------|---------|---------|
|                     | Sale Revenues <sup>(1)</sup>                          | THB Million | 239,315 | 174,463 | 255,115 | 324,800 |
|                     | Operating Costs                                       | THB Million | 236,569 | 174,491 | 228,989 | 314,892 |
|                     | Operating Profit (Loss)                               | THB Million | (356)   | (6,115) | 17,914  | (3,912) |
| GRI 201-1<br>(2016) | Employee Wages and Benefits                           | THB Million | 10,171  | 9,088   | 9,285   | 8,417   |
|                     | Payments to Providers of Capital                      | THB Million | 3,768   | 3,943   | 4,600   | 3,760   |
|                     | Payment to Governments <sup>(2)</sup>                 | THB Million | 21,568  | 20,727  | 19,778  | 5,705   |
|                     | Dividend payments for the performance of the year     | THB Million | 1,837   | 1,837   | 2,857   | 3,674   |
| GRI 201-4           | Tax Privileges from the Board of Investment, Thailand | THB Million | 324     | 43      | 889     |         |
| (2016)              | Tax Compensation from Export                          | THB Million | 106     | 78      | 63      |         |

Remarks: (1) Sales revenue includes petroleum sales (including excise tax), petrochemical sales, power and utilities sales, sales of storage tank and port service, etc.

(2) Taxes paid to government agencies and local officials such as corporate income taxes, local taxes, building taxes, and specific business taxes are paid directly to Thai government agencies and local officials as all IRPC operations are located only in Thailand.

(3) Revise Tax Privileges from the Board of Investment, Thailand 2018-2020 by multiply income tax 20%

### Return on Environmental Investment

| GRI<br>Standard | Data   | Unit                         | 2019   | 2020   | 2021     | 2022   |
|-----------------|--|------------------------------|--------|--------|----------|--------|
|                 | Total expenditures   | THB Million                  | 310.99 | 453.00 | 537.50   | 595.29 |
| 2-5 (2021)      | Capital investments  | THB Million                  | 242.26 | 409.00 | 502.25   | 564.61 |
|                 | Operating Expenses   | THB Million                  | 68.73  | 26.00  | 35.25    | 30.69  |
|                 | Saving, cost aviodance, income, tax incentives, etc.                 | THB Million                  | 444.00 | 190.00 | 1,005.00 |        |
|                 | Operation covered (by revenue, production volume, or employees, etc) | % of<br>operation<br>covered | 100    | 100    | 100      | 100    |

### Production

| GRI<br>Standard | Data              | Unit  | 2019       | 2020       | 2021       | 2021       |
|-----------------|-------------------|-------|------------|------------|------------|------------|
| N/A             | Annual Production | Ton   | 12,059,756 | 11,886,924 | 11,997,254 | 11,070,331 |
|                 | Annual Production | Mmboe | 78.28      | 75.28      | 73.22      | 72.04      |

Remarks: IRPC decrease production rate in 2020 and 2021 to optimize economic value according to the changing of market factors.

## Supply Chain Management

| GRI<br>Standard     | Data   | Unit        | 2019  | 2020  | 2021  | 2022  |
|---------------------|--|-------------|-------|-------|-------|-------|
| GRI 308-1<br>(2016) | Percentage of new suppliers that were screened using environmental criteria              | %           | 100   | 100   | 100   | 100   |
|                     | Percentage of new suppliers that were screened using labour practices criteria           | %           | 100   | 100   | 100   | 100   |
| GRI 414-1<br>(2016) | Percentage of new suppliers that were screened using human right criteria                | %           | 100   | 100   | 100   | 100   |
|                     | Percentage of new suppliers that were screened using criteria impacts on society         | %           | 100   | 100   | 100   | 100   |
| GRI 204-1           | Spending on purchasing of products and services from suppliers and contractors in Rayong | THB Million | 2,470 | 1,931 | 2,644 | 3,017 |
| (2016)              | Percentage of spending in Rayong comparing to the total general procurement budget       | %           | 21.46 | 18.00 | 11    | 21    |

## Customer Relationship Management

| GRI<br>Standard                              | Data  | Unit   | 2019 | 2020 | 2021 | 2022 |
|--|---|--------|------|------|------|------|
| GRI 102-43<br>(2016)<br>GRI 102-44<br>(2016) | Annual customer satisfaction survey results (1)   | %      | 91   | 93   | 94   | 95   |
| GRI 416-2<br>(2016)                          | Incidents of non-compliance concerning the health and safety impacts of products and services | Case   | 0    | 0    | 0    | 0    |
| GRI 417-3<br>(2016)                          | Incidents of non-compliance concerning marketing communications                               | Case   | 0    | 0    | 0    | 0    |
| GRI 418-1                                    | Number of substantiated complaints received concerning breaches of customer privacy           | Case   | 0    | 0    | 0    | 0    |
| (2016)                                       | Total number of identified leaks, thefts, or losses of customer data                          | Case 0 | 0    | 0    | 0    | 0    |
| GRI 419-1<br>(2016)                          | Non-compliance with laws and regulations in the social and economic area                      | Case   | 0    | 0    | 0    | 0    |

Remark: (1) Only Petroleum and Petrochemical business included

## Social

## People

| GRI<br>Standard     | Data                             | Unit                    | 2019  | 2020  | 2021  | 2022  |
|---------------------|----------------------------------|-------------------------|-------|-------|-------|-------|
|                     | Employee (1)                     | Person                  | 5,467 | 5,452 | 4,640 | 5,342 |
| GRI 102-8<br>(2016) | Male                             | Person                  | 4,524 | 4,509 | 3,947 | 4,497 |
|                     | Female                           | Person                  | 943   | 943   | 693   | 845   |
|                     | Total employees by area          |                         |       | I     |       | 1     |
|                     | Bangkok                          | Person                  | 702   | 706   | 579   | 683   |
|                     | Male                             | Person                  | 295   | 298   | 239   | 283   |
|                     | Female                           | Person                  | 407   | 408   | 340   | 400   |
|                     | Rayong                           | Person                  | 4,480 | 4,473 | 3881  | 4403  |
|                     | Male                             | Person                  | 3,966 | 3,958 | 3,543 | 3,975 |
|                     | Female                           | Person                  | 514   | 515   | 338   | 428   |
|                     | Other                            | Person                  | 285   | 273   | 180   | 256   |
|                     | Male                             | Person                  | 263   | 253   | 165   | 239   |
|                     | Female                           | Person                  | 22    | 20    | 15    | 17    |
| GRI 405-1<br>(2016) | Female shares of total workforce | % of total<br>workforce | 17.25 | 17.30 | 14.93 | 15.82 |
|                     | Employees by level               | I                       | I     | L     | J     |       |
|                     | Executive (Level 13-18)          | Person                  | 70    | 69    | 59    | 64    |
|                     |                                  | % of total employees    | 1.28  | 1.26  | 1.27  | 1.20  |
| GRI 405-1           | Male                             | Person                  | 53    | 53    | 44    | 50    |
| (2016)              |                                  | %                       | 0.97  | 0.97  | 0.95  | 0.94  |
|                     | Female                           | Person                  | 17    | 16    | 15    | 14    |
|                     |                                  | %                       | 0.31  | 0.29  | 0.32  | 0.26  |
|                     | Middle Management (Level 9-12)   | Person                  | 806   | 815   | 649   | 898   |

| GRI<br>Standard     | Data                     | Unit                    | 2019  | 2020  | 2021  | 2022  |
|---------------------|--------------------------|-------------------------|-------|-------|-------|-------|
|                     |                          | % of total<br>employees | 14.74 | 14.95 | 13.99 | 16.81 |
|                     | Male                     | Person                  | 623   | 622   | 497   | 704   |
|                     |                          | %                       | 11.40 | 11.41 | 10.71 | 13.18 |
|                     | Female                   | Person                  | 183   | 193   | 152   | 194   |
|                     |                          | %                       | 3.35  | 3.54  | 3.28  | 3.63  |
|                     | Supervisory (Level (6-8) | Person                  | 3,199 | 3,252 | 2,643 | 3,047 |
|                     |                          | % of total<br>employees | 58.51 | 59.65 | 56.96 | 57.04 |
|                     | Male                     | Person                  | 2,622 | 2,672 | 2,196 | 2,488 |
|                     |                          | %                       | 47.96 | 49.01 | 47.33 | 46.57 |
|                     | Female                   | Person                  | 577   | 580   | 447   | 559   |
|                     |                          | %                       | 10.55 | 10.64 | 9.63  | 10.46 |
|                     | Operation (Level 1-5)    | Person                  | 1,392 | 1,303 | 1,250 | 1,300 |
|                     |                          | % of total<br>employees | 25.46 | 23.90 | 26.94 | 24.34 |
|                     | Male                     | Person                  | 1,226 | 1,155 | 1,173 | 1,222 |
|                     |                          | %                       | 22.43 | 21.18 | 25.28 | 22.88 |
|                     | Female                   | Person                  | 166   | 148   | 77    | 78    |
|                     |                          | %                       | 17.60 | 15.69 | 11.11 | 9.23  |
|                     | Employees by age         | I                       |       | L     | 1     | L     |
|                     | Over 50 years old        | Person                  | 917   | 1,051 | 772   | 1,345 |
|                     |                          | % of total<br>employees | 16.77 | 19.28 | 16.64 | 25.18 |
| GRI 405-1<br>(2016) | Male                     | Person                  | 734   | 843   | 646   | 1,099 |
| (2010)              |                          | %                       | 13.43 | 15.46 | 13.92 | 20.57 |
|                     | Female                   | Person                  | 183   | 208   | 126   | 246   |
|                     |                          | %                       | 3.35  | 3.82  | 2.72  | 4.61  |
|                     | 30-50 years old          | Person                  | 3,968 | 3,822 | 3,131 | 3,275 |

| GRI<br>Standard | Data                  | Unit                    | 2019  | 2020  | 2021  | 2022  |
|-----------------|-----------------------|-------------------------|-------|-------|-------|-------|
|                 |                       | % of total<br>employees | 72.58 | 70.10 | 67.48 | 61.31 |
|                 | Male                  | Person                  | 3,281 | 3,155 | 2,645 | 2,759 |
|                 |                       | %                       | 60.01 | 57.87 | 57.00 | 51.65 |
|                 | Female                | Person                  | 687   | 667   | 486   | 516   |
|                 |                       | %                       | 12.57 | 12.23 | 10.47 | 9.66  |
|                 | Below 30 years old    | Person                  | 582   | 566   | 737   | 719   |
|                 |                       | % of total employees    | 10.65 | 10.38 | 15.88 | 13.46 |
|                 | Male                  | Person                  | 509   | 505   | 656   | 636   |
|                 |                       | %                       | 9.31  | 9.26  | 14.14 | 11.91 |
|                 | Female                | Person                  | 73    | 61    | 81    | 83    |
|                 |                       | %                       | 1.34  | 1.12  | 1.75  | 1.55  |
|                 | New employees         |                         |       |       |       |       |
|                 | Total new employees   | Person                  | 97    | 96    | 312   | 141   |
|                 |                       | % of total employees    | 1.77  | 1.76  | 6.72  | 2.64  |
|                 | Male                  | Person                  | 73    | 79    | 252   | 111   |
|                 |                       | % of total employees    | 1.3   | 1.45  | 5.00  | 2.08  |
| GRI 401-1       | Female                | Person                  | 24    | 17    | 60    | 30    |
| (2016)          |                       | % of total employees    | 0.44  | 0.31  | 1.72  | 0.56  |
|                 | New employees by area |                         |       |       |       |       |
|                 | Bangkok               | Person                  | 18    | 4     | 58    | 26    |
|                 |                       | % of total employees    | 0.33  | 0.07  | 1.25  | 0.49  |
|                 | Male                  | Person                  | 8     | 2     | 19    | 11    |
|                 |                       | % of total employees    | 0.15  | 0.04  | 0.41  | 0.21  |

| GRI<br>Standard     | Data                 | Unit                    | 2019 | 2020 | 2021 | 2022 |
|---------------------|----------------------|-------------------------|------|------|------|------|
|                     | Female               | Person                  | 10   | 2    | 39   | 15   |
|                     |                      | % of total employees    | 0.18 | 0.04 | 0.84 | 0.28 |
|                     | Rayong               | Person                  | 79   | 92   | 244  | 113  |
|                     |                      | % of total employees    | 1.45 | 1.69 | 5.26 | 2.12 |
|                     | Male                 | Person                  | 65   | 77   | 224  | 98   |
|                     |                      | % of total employees    | 1.19 | 1.41 | 4.83 | 1.83 |
|                     | Female               | Person                  | 14   | 15   | 20   | 15   |
|                     |                      | % of total employees    | 0.26 | 0.28 | 0.43 | 0.28 |
|                     | Others               | Person                  | 0    | 0    | 10   | 2    |
|                     |                      | % of total employees    | 0    | 0.00 | 0.22 | 0.04 |
|                     | Male                 | Person                  | 0    | 0    | 9    | 2    |
|                     |                      | % of total employees    | 0    | 0.00 | 0.19 | 0.04 |
| GRI 401-1<br>(2016) | Female               | Person                  | 0    | 0    | 1    | 0    |
|                     |                      | % of total employees    | 0    | 0.00 | 0.03 | 0.00 |
|                     | New employees by age |                         |      |      |      |      |
|                     | Over 50 years old    | Person                  | 3    | 3    | 2    | 0    |
|                     |                      | % of total employees    | 0.05 | 0.06 | 0.04 | 0.00 |
|                     | Male                 | Person                  | 1    | 1    | 1    | 0    |
|                     |                      | % of total employees    | 0.02 | 0.02 | 0.02 | 0.00 |
|                     | Female               | Person                  | 2    | 2    | 1    | 0    |
|                     |                      | % of total<br>employees | 0.04 | 0.04 | 0.02 | 0.00 |
|                     | 30-35 years old      | Person                  | 13   | 14   | 41   | 7    |
|                     |                      | % of total employees    | 0.24 | 0.26 | 0.88 | 0.13 |

| GRI<br>Standard | Data                       | Unit                 | 2019 | 2020 | 2021 | 2022 |
|-----------------|----------------------------|----------------------|------|------|------|------|
|                 | Male                       | Person               | 5    | 3    | 26   | 3    |
|                 |                            | % of total employees | 0.09 | 0.06 | 0.56 | 0.06 |
|                 | Female                     | Person               | 8    | 11   | 15   | 4    |
|                 |                            | % of total employees | 0.15 | 0.20 | 0.32 | 0.07 |
|                 | Male Female                | Person               | 81   | 8    | 269  | 129  |
|                 |                            | % of total employees | 1.48 | 0.16 | 5.80 | 2.41 |
|                 |                            | Person               | 67   | 4    | 225  | 104  |
|                 |                            | % of total employees | 1.23 | 0.08 | 4.85 | 1.95 |
|                 |                            | Person               | 14   | 4    | 44   | 25   |
|                 |                            | % of total employees | 0.26 | 0.07 | 0.95 | 0.47 |
|                 | Employee turnover          |                      |      |      |      |      |
|                 | Total employee turnover    | Person               | 71   | 126  | 307  | 99   |
|                 |                            | % of total employees | 1.3  | 2.31 | 6.62 | 1.85 |
|                 | Male                       | Person               | 52   | 100  | 259  | 77   |
|                 |                            | % of total employees | 0.95 | 1.83 | 5.58 | 1.44 |
|                 | Female                     | Person               | 19   | 26   | 48   | 22   |
|                 |                            | % of total employees | 0.35 | 0.48 | 1.03 | 0.41 |
|                 | Turnover employees by area |                      |      |      |      |      |
|                 | Bangkok                    | Person               | 17   | 16   | 65   | 27   |
| GRI 401-1       |                            | % of total employees | 0.31 | 0.29 | 1.40 | 0.51 |
| (2016)          | Male                       | Person               | 8    | 6    | 31   | 13   |
|                 |                            | % of total employees | 0.15 | 0.11 | 0.67 | 0.24 |
|                 |                            | Person               | 9    | 10   | 34   | 14   |

| GRI<br>Standard | Data                      | Unit                 | 2019 | 2020 | 2021 | 2022 |
|-----------------|---------------------------|----------------------|------|------|------|------|
|                 | Female                    | % of total employees | 0.16 | 0.18 | 0.73 | 0.26 |
|                 | Rayong                    | Person               | 50   | 99   | 218  | 70   |
|                 |                           | % of total employees | 0.91 | 1.82 | 4.70 | 1.31 |
|                 | Male                      | Person               | 41   | 85   | 206  | 63   |
|                 |                           | % of total employees | 0.75 | 1.56 | 4.44 | 1.18 |
|                 | Female                    | Person               | 9    | 14   | 12   | 7    |
|                 |                           | % of total employees | 0.16 | 0.26 | 0.26 | 0.13 |
|                 | Others                    | Person               | 4    | 11   | 24   | 2    |
|                 |                           | % of total employees | 0.07 | 0.20 | 0.52 | 0.04 |
|                 | Male                      | Person               | 3    | 9    | 22   | 1    |
|                 |                           | % of total employees | 0.05 | 0.17 | 0.47 | 0.02 |
|                 | Female                    | Person               | 1    | 2    | 2    | 1    |
|                 |                           | % of total employees | 0.02 | 0.04 | 0.04 | 0.02 |
|                 | Turnover employees by age |                      |      |      |      |      |
|                 | Over 50 years old         | Person               | 20   | 83   | 215  | 27   |
|                 |                           | % of total employees | 0.37 | 1.52 | 4.63 | 0.51 |
|                 | Male                      | Person               | 13   | 68   | 176  | 21   |
|                 |                           | % of total employees | 0.24 | 1.25 | 3.79 | 0.39 |
|                 | Female                    | Person               | 7    | 15   | 39   | 6    |
|                 |                           | % of total employees | 0.13 | 0.28 | 0.84 | 0.11 |
|                 | 30-50 years old           | Person               | 33   | 31   | 53   | 30   |
|                 |                           | % of total employees | 0.6  | 0.57 | 1.14 | 0.56 |

| GRI<br>Standard | Data  | Unit   | 2019  | 2020  | 2021  | 2022  |
|-----------------|---|--|-------|-------|-------|-------|
|                 | Male  | Person   | 23    | 21    | 46    | 22    |
|                 |   | % of total employees                             | 0.42  | 0.39  | 0.99  | 0.41  |
|                 | Female  | Person   | 10    | 10    | 7     | 8     |
|                 |   | % of total employees                             | 0.18  | 0.18  | 0.15  | 0.15  |
|                 |   | Person   | 18    | 12    | 39    | 37    |
|                 |   | % of total employees                             | 0.33  | 0.22  | 0.84  | 0.69  |
|                 |   | Person   | 16    | 11    | 37    | 29    |
|                 |   | % of total employees                             | 0.29  | 0.20  | 0.80  | 0.54  |
|                 | Female  | Person   | 2     | 1     | 2     | 8     |
|                 |   | % of total employees                             | 0.04  | 0.02  | 0.04  | 0.15  |
|                 | Parental leave  |  |       |       |       |       |
|                 | Employees entitled for parental leave                   | Person   | 5,467 | 5,452 | 4,640 | 5,342 |
|                 | Male  | Person   | 4,524 | 4,509 | 3,947 | 4,497 |
|                 | Female  | Person   | 943   | 943   | 693   | 845   |
|                 | Number of employees taking parental leave               | Person   | 118   | 107   | 98    |       |
|                 | Male  | Person   | 97    | 91    | 86    |       |
| GRI 401-3       | Female  | Person   | 21    | 16    | 12    |       |
| ( <b>2016</b> ) | Number of employees return to work after parental leave | Person   | 118   | 107   | 98    |       |
|                 | Male  | Person   | 97    | 91    | 86    |       |
|                 |   | % of<br>employees<br>taking<br>parental<br>leave | 100   | 100   | 100   |       |
|                 | Female  | Person   | 21    | 16    | 12    |       |
|                 |   | % of<br>employees<br>taking                      | 100   | 100   | 100   |       |

| GRI<br>Standard       | Data  | Unit   | 2019   | 2020  | 2021  | 2022   |
|-----------------------|---|--|--------|-------|-------|--------|
|                       |   | parental<br>leave  |        |       |       |        |
|                       | Employees entitled for parental leave who are still           | Person   | 135    | 119   | 98    |        |
|                       | employed for the next 12 months<br>en<br>ret<br>wo<br>p       |  | 103    | 88    | 100   |        |
|                       | Male  | Person   | 121    | 102   | 86    |        |
|                       |   | % of<br>employees<br>returning to<br>work after<br>parental<br>leave | 105    | 84    | 100   |        |
|                       | Female  | Person   | 14     | 17    | 12    |        |
|                       |   | % of<br>employees<br>returning to<br>work after<br>parental<br>leave | 88     | 121   | 100   |        |
| GRI 102-<br>41 (2016) | Total employees covered by collective bargaining              | %  | 75     | 77    | 77    | 75     |
|                       | Employees entitled to training and development                | %  | 100    | 100   | 100   | 100    |
|                       | Average hours of training per employee                        | Hour/<br>employee  | 41     | 14    | 27    | 41     |
|                       | Average amount spent per employee on training and development | THB/<br>employee   | 18,507 | 5,960 | 653   | 12,563 |
|                       | Percentage of open positions filled by internal candidates    | %  | 100    | 100   | 100   | 100    |
| GRI 404-1<br>(2016)   | Training hours of male employees based in Bangkok             | Hour   | 9,529  | 4,392 | 3,953 | 6,473  |
| 2010/                 | Executive (Level 13-18)                                       | Hour   | 185    | 42    | 40    | 90     |
|                       | Middle Management (Level 9-12)                                | Hour   | 4,958  | 2,364 | 1,984 | 2,729  |
|                       | Supervisory (Level 6-8)                                       | Hour   | 3,858  | 1,783 | 1,580 | 3,015  |
|                       | Operation (Level 1-5)   | Hour   | 528    | 203   | 349   | 639    |
|                       | Training hours of female employees based in Bangkok           | Hour   | 15,861 | 4,791 | 4,312 | 11,766 |

| GRI<br>Standard     | Data  | Unit  | 2019    | 2020   | 2021   | 2022    |
|---------------------|---|-------|---------|--------|--------|---------|
|                     | Executive (Level 13-18)   | Hour  | 606     | 63     | 60     | 144     |
|                     | Middle Management (Level 9-12)  | Hour  | 6,689   | 2,436  | 2,130  | 3,447   |
|                     | Supervisory (Level 6-8)   | Hour  | 8,116   | 2,112  | 1,760  | 6,871   |
|                     | Operation (Level 1-5)   | Hour  | 450     | 180    | 362    | 1,304   |
|                     | Training hours of male employees based in Rayong                          | Hour  | 168,853 | 61,465 | 55,319 | 119,361 |
|                     | Executive (Level 13-18)   | Hour  | 348     | 54     | 48     | 490     |
|                     | Middle Management (Level 9-12)  | Hour  | 22,174  | 15,795 | 13,920 | 14,754  |
|                     | Supervisory (Level 6-8)   | Hour  | 105,868 | 19,868 | 15,460 | 51,150  |
|                     | Operation (Level 1-5)   | Hour  | 40,463  | 25,748 | 25,891 | 52,967  |
|                     | Training hours of female employees based in Rayong                        | Hour  | 17,535  | 5,266  | 4,739  | 11,185  |
|                     | Executive (Level 13-18)   | Hour  | 0       | 0      | 0      | 30      |
|                     | Middle Management (Level 9-12)  | Hour  | 2,275   | 1,547  | 1,350  | 1,183   |
|                     | Supervisory (Level 6-8)   | Hour  | 13,020  | 2,882  | 2,570  | 7,882   |
|                     | Operation (Level 1-5)   | Hour  | 2,240   | 837    | 819    | 2,090   |
|                     | Training hours of male employees based in other areas                     | Hour  | 11,031  | 1,941  | 1,747  | 3,267   |
|                     | Executive (Level 13-18)   | Hour  | 0       | 0      | 0      | 0       |
|                     | Middle Management (Level 9-12)  | Hour  | 982     | 384    | 346    | 388     |
|                     | Supervisory (Level 6-8)   | Hour  | 6,719   | 972    | 894    | 2,387   |
|                     | Operation (Level 1-5)   | Hour  | 3,330   | 585    | 507    | 492     |
|                     | Training hours of female employees based in other areas                   | Hour  | 754     | 30     | 26     | 361     |
|                     | Executive (Level 13-18)   | Hour  | 0       | 0      | 0      | 0       |
|                     | Middle Management (Level 9-12)  | Hour  | 0       | 0      | 0      | 0       |
|                     | Supervisory (Level 6-8)   | Hour  | 501     | 21     | 18     | 280     |
|                     | Operation (Level 1-5)   | Hour  | 253     | 9      | 8      | 81      |
| GRI 201-1<br>(2016) | Human Capital Return on Investment (HCROI) (according to DJSI definition) | HCROI | 1.27    | 1.00   | 3.80   | 49.49   |

| GRI<br>Standard     | Data   | Unit                    | 2019 | 2020 | 2021 | 2022 |
|---------------------|--|-------------------------|------|------|------|------|
| GRI 404-3<br>(2016) | Performance Appraisal [Management by objectives] | % of total<br>employees | 100  | 100  | 100  | 100  |
|                     | Total Employees by Nationality                   |                         |      |      |      |      |
|                     | Thai nationality                                 | % of total<br>employees | -    | -    | -    | 99   |
|                     | Japanese nationality                             | % of total<br>employees | -    | -    | -    | 0.05 |
|                     | Singapore nationality                            | % of total<br>employees | -    | -    | -    | 0.03 |
|                     | German nationality                               | % of total<br>employees | -    | -    | -    | 0.03 |
|                     | Other nationality                                | % of total<br>employees | -    | -    | -    | -    |
|                     | People with Disability                           |                         |      |      |      |      |
|                     |  | Person                  | -    | -    | 1    | 4    |
|                     | Type of Performance Appraisal                    |                         | L    |      | 1    | 1    |
|                     | Management by objectives                         | % of total employees    | 100  | 100  | 100  | 100  |
|                     | Multidimensional performance appraisal           | % of total<br>employees | 100  | 100  | 100  | 100  |
|                     | Agile conversations                              | % of total<br>employees | 100  | 100  | 100  | 100  |
|                     | Employee engagement                              |                         |      |      |      |      |
|                     | Employee engagement result                       |                         | 82   | 79   | 85   | 87   |
|                     | Employee engagement target                       |                         | 80   | 80   | 80   | 80   |
|                     | Coverage   | % of total employees    | 95   | 82   | 82   | 90   |

Remarks: (1) IRPC does not employ any part-time employees.

(2) Training hours of employee decrease in 2020 -2021 cause of covid-19 pandemic

## Safety

Process Safety

| GRI<br>Standard | Data   | Unit                  | 2019  | 2020     | 2021  | 2022  |
|-----------------|--|-----------------------|-------|----------|-------|-------|
|                 | Employee   | Person                | 5,467 | 5,452    | 4,640 | 5,342 |
|                 | Covered by OH&S management system  | %                     | 100   | 100      | 100   | 100   |
|                 | Covered by such system that has been internally audited                  | %                     | 100   | 100      | 100   | 100   |
|                 | Covered by such system that has been audited or certified by third party | %                     | 100   | 100      | 100   | 100   |
|                 | Worker   | Person                |       |          |       |       |
|                 | Covered by OH&S management system  | %                     | 100   | 100      | 100   | 100   |
|                 |  | Person                |       |          |       |       |
|                 | Covered by such system that has been internally audited                  | %                     | 100   | 100      | 100   | 100   |
|                 |  | Person                |       |          |       |       |
|                 | Covered by such system that has been audited or certified by third party | %                     | 100   | 100      | 100   | 100   |
|                 |  | Person                |       |          |       |       |
| N/              | Process Safety   |                       |       | ł        | ł     |       |
| Α               | Number of Tier 1 Process Safety Events                                   | Case                  | 3     | 2        | 0     | 1     |
|                 | Target of Tier 1 Process Safety Events                                   | Case                  | 0     | 0        | 0     | 0     |
|                 | Number of Tier 2 Process Safety Events                                   | Case                  | 0     | 1        | 2     | 2     |
|                 | Target of Tier 2 Process Safety Events                                   | Case                  | 0     | 0        | 0     | 0     |
|                 | Data coverage  | % of revenue          | 100   | 100      | 100   | 100   |
|                 | Occupational Health and Safety   |                       |       | <u> </u> | I     |       |
|                 | Total number of hours worked   | Million hours         | 19.88 | 18.06    | 16.49 | 26.34 |
|                 | Employees  | Million hours         | 11.20 | 11.14    | 9.59  | 9.79  |
|                 | All workers  | Million hours         | 8.68  | 6.92     | 6.90  | 16.55 |
|                 | Total Recordable Injury Rate (TRIR) <sup>(2)</sup>                       | Case/Million<br>hours | 0.25  | 0.39     | 0.12  | 0.30  |
|                 | Employees <sup>(3)</sup>   | Case/Million<br>hours | 0.18  | 0.36     | 0.10  | 0.10  |
|                 | All workers <sup>(4)</sup>   | Day/Million<br>hours  | 0.35  | 0.43     | 0.14  | 0.42  |

| GRI<br>Standard      | Data  | Unit                  | 2019     | 2020  | 2021  | 2022  |
|----------------------|---|-----------------------|----------|-------|-------|-------|
|                      | Total Recordable Injuries Case (TRIC)                       | Person                | 5        | 7     | 2     | 8     |
| GRI 403-9<br>(2018)  | Employees   | Person                | 2        | 4     | 1     | 1     |
| (2010)               | All workers   | Person                | 3        | 3     | 1     | 7     |
|                      | Lost Time Injuries Frequency Rate (pr)                      | Case/Million<br>hours | 0.20     | 0.17  | 0.00  | 0.23  |
|                      | Employees   | Case/Million<br>hours | OTRIF-18 | 0.09  | 0.00  | 0.10  |
|                      | All workers   | Case/Million<br>hours | 0.23     | 0.29  | 0.00  | 0.30  |
|                      | Total Recordable Occupational Illness Rate (TROIR) $^{(5)}$ | Case/Million<br>hours | 0        | 0     | 0     | 0     |
|                      | Employees   | Case/Million<br>hours | 0        | 0     | 0     | 0     |
| GRI 403-10<br>(2018) | All workers   | Case/Million<br>hours | 0        | 0     | 0     | 0     |
|                      | Lost Day Rate (LDR) <sup>(6)</sup>                          | Day/Million<br>hours  | 1.31     | 1.27  | 0.00  | 5.55  |
|                      | Employees   | Day/Million<br>hours  | 1.43     | 0.54  | 0.00  | 0.11  |
| GRI 403-9<br>(2018)  | All workers   | Day/Million<br>hours  | 1.15     | 2.46  | 0.00  | 8.64  |
|                      | Lost Workday Case (LWC)                                     | Person                | 4        | 3     | 0     | 6     |
|                      | Employees   | Person                | 2        | 1     | 0     | 1     |
|                      | All workers   | Person                | 2        | 2     | 0     | 5     |
|                      | Fatalities (as a result of work related ill health)         | Person                | 0        | 0     | 0     | 0     |
|                      | Employees   | Person                | 0        | 0     | 0     | 0     |
|                      | All workers   | Person                | 0        | 0     | 0     | 0     |
|                      | Near Misses - Employee and all workers                      | Case                  | 116      | 79    | 257   | 20    |
|                      | Absentee Rate   |                       |          |       |       |       |
|                      | Male  | %                     | 0.838    | 1.950 | 0.945 | 1.265 |
|                      | Female  | %                     | 0.253    | 0.421 | 0.287 | 0.357 |

Remarks: (1) Health and safety statistics are based on OSHA and measured per million working hours. Employees of IRPC Public Company Limited, including its subsidiaries with more than 50% of the shares held by IRPC. All workers exclude Employees.

(2) TRIR does not include first aid cases.

(3)Types of work-related injury for employees are fatalities, permanent total disabilities, lost workday case, restricted workday case, and medical treatment case. (4)Types of work-related injury for workers are fatalities, permanent total disabilities, lost workday case, restricted workday

case, and medical treatment case.

(5)TROIR is obtained from the results of annual employee health check-ups and diagnosed by occupational medicine doctor. (6)LDR accounts injuries or sickness causing inability to work on the next working day.

## Environmental

## Natural Capital

### Materials Consumption

| GRI<br>Standard | Data                | Unit   | 2019       | 2020       | 2021       | 2022       |
|-----------------|---------------------|--------|------------|------------|------------|------------|
|                 | Crude Oil           | Ton    | 9,383,905  | 9,191,312  | 9,232,776  | 9,105,514  |
|                 |                     | Barrel | 73,668,153 | 71,173,423 | 70,192,393 | 71,173,423 |
|                 | Naphtha             | Ton    | 1,026,692  | 946,987    | 813,408    | 1,569,734  |
|                 |                     | Barrel | 2,001,229  | 1,308,913  | 741,268    | 1,308,913  |
| GRI 301-1       | Biodiesel (B100)    | Barrel | 821,570    | 918,729    | 748,666    | 918,729    |
| (2016)          | Ethanol             | Barrel | 341,468    | 290,552    | 278,831    | 290,552    |
|                 | LS ATB              | Barrel | 474,400    | 246,366    | 259,324    | 246,366    |
|                 | Benzene             | Barrel | 756,743    | 1,103,647  | 773,668    | 1,103,647  |
|                 | Acrylonitrile       | Barrel | 222,285    | 246,847    | 228,891    | 246,847    |
|                 | Total material used | Ton    | 78,285,847 | 75,288,477 | 73,223,041 | 75,288,477 |

## Energy Consumption (1)

| GRI<br>Standard     | Data   | Unit | 2019       | 2020       | 2021       | 2022        |
|---------------------|--|------|------------|------------|------------|-------------|
|                     | Total energy consumption $^{(2)}$ , $^{(3)}$ | GJ   | 58,719,745 | 57,519,116 | 60,044,448 | 47,092,748  |
| GRI 302-1<br>(2016) | Total direct energy consumption              | GJ   | 59,072,047 | 57,760,248 | 60,174,826 | 51,651,612  |
|                     |  | MWh  | 16,311,040 | 15,977,532 | 16,679,013 | 14,347,670  |
|                     | Fuel Oil                                     | GJ   | 2,349,064  | 2,445,972  | 2,468,057  | 1,908,982   |
|                     | Natural Gas                                  | GJ   | 21,908,700 | 22,821,990 | 22,174,781 | 21,854,4335 |
|                     | LPG  | GJ   | 638,187    | 919,616    | 975,582    | 889,980     |
|                     | Diesel                                       | GJ   | 269,792    | 244,276    | 265,690    | 217,615     |
| GRI 302-1           | Fuel Gas                                     | GJ   | 19,547,018 | 18,599,283 | 18,936,615 | 17,109,875  |
| (2016)              | Coke   | GJ   | 5,745,860  | 5,669,729  | 6,251,554  | 5,101,972   |
|                     | H <sub>2</sub>                               | GJ   | 309,563    | 261,721    | 191,967    | 150,972     |

| GRI<br>Standard     | Data  | Unit                 | 2019      | 2020      | 2021      | 2022      |
|---------------------|---|----------------------|-----------|-----------|-----------|-----------|
|                     | H <sub>2</sub> S  | GJ                   | 0         | 0         | 0         | 0         |
|                     | Purge Gas   | GJ                   | 1,038,258 | 741,998   | 1,330,537 | 815,725   |
|                     | Recycle monomer   | GJ                   | 0         | 0         | 33,423    | 28,765    |
|                     | Coal  | GJ                   | 30,929    | 32,892    | 7,546,619 | 3,284,592 |
|                     | H <sub>2</sub> S  | GJ                   | 7,234,675 | 6,022,770 | 4,721,574 | 4,787,069 |
|                     | Total indirect energy consumption   | GJ                   | 4,549,128 | 4,798,143 | 251,294   | 413,415   |
|                     | Electricity purchased from PEA (3)  | GJ                   | 308,166   | 220,933   | 1,260,532 | 1,358,703 |
|                     | Electricity purchased from IRPC Clean Power                                       | GJ                   | 1,520,670 | 1,403,656 | 1,260,532 | 1,358,703 |
|                     | Steam purchased by IRPC Clean Power   | GJ                   | 2,720,292 | 3,173,553 | 3,209,748 | 3,014,951 |
|                     | Total electricity sold  | GJ                   | 2,365,088 | 2,336,467 | 2,359,033 | 2,101,881 |
|                     | Total steam sold  | GJ                   | 2,536,342 | 2,725,214 | 2,563,054 | 2,456,983 |
|                     | Total renewable (wind, solar, biomass, hydroelectric, geothermal, etc.) purchased | GJ                   | 0         | 22,406    | 70,135    | 61,135    |
|                     | or generated  | MWh                  | 0         | 6,224     | 19,482    | 16,982    |
| GRI 302-3<br>(2016) | Energy intensity <sup>(4)</sup>   | GJ/Ton of production | 4.87      | 4.84      | 5.00      | 4.60      |
| GRI 302-4<br>(2016) | Energy saved due to conservation and efficiency improvements                      | GJ                   | 422,120   | 167,898   | 774,337   | 181,028   |

Remarks: (1) The calculation standards and methodologies are based on relevant laws and regulations.

(2) The energy consumption in 2020 decreased from preventive maintenance of UHV as plan

(3) Electricity purchased from the Provincial Electricity Authority and the Metropolitan Electricity Authority (Bangkok office has been included since 2015).

(4) Renewable energy that has been used since September 2020.

## Flared and Vented Hydrocarbon (1)

| GRI<br>Standard    | Data  | Unit                               | 2019  | 2020  | 2021  | 2022  |
|--------------------|---|------------------------------------|-------|-------|-------|-------|
|                    | Volume of flared hydrocarbon $^{(1)}$ , $^{(4)}$                                  | Million M <sup>3</sup>             | 62.67 | 38.89 | 39.15 | 38.97 |
|                    | Volume of continuously flared hydrocarbon   | Million M <sup>3</sup>             | 52.8  | 33.24 | 29.29 |       |
|                    | Volume flared hydrocarbon for oil & gas production in relation to volume produced | M <sup>3</sup> / Ton of production | 5.20  | 3.27  | 3.29  | 3.28  |
| G4-OG6<br>(GRI-G4) | Volume of Vented hydrocarbon  | Million M <sup>3</sup>             | 3.83  | 3.97  | 3.54  | 1.04  |
|                    | Production process <sup>(2)</sup>   | Million M <sup>3</sup>             | 1.28  | 1.41  | 1.19  | 1.04  |

| GRI<br>Standard | Data   | Unit                               | 2019  | 2020  | 2021  | 2022  |
|-----------------|--|------------------------------------|-------|-------|-------|-------|
|                 | Tank & Marketing & Terminal <sup>(3)</sup>   | Million M <sup>3</sup>             | 2.55  | 2.56  | 2.35  |       |
|                 | Volume Vented hydrocarbon for oil & gas<br>production in relation to volume produced | M <sup>3</sup> / Ton of production | 0.11  | 0.33  | 0.30  | 0.09  |
| N/A             | Methane Emission of flared hydrocarbon   | Ton                                | 81.30 | 50.45 | 50.79 | 50.56 |

Remarks: (1) The volume of vented hydrocarbon is calculated in accordance with IRPC's Hydrocarbon Management Manual, in reference to HM31: Guide to HC Management in Petroleum Refinery Operation and HM32: Guide to Product HC Management at Petroleum Product Marketing and Distribution.

(2) The volume of hydrocarbon released from production process includes ABC data (HC calculated from the difference of feed to product as stored in SAP) and EPS data (calculated from feed to reactor in each 7.5% batch and products with 6.6% pentane I each month).

(3) The volume of hydrocarbon released from storage tanks and product and raw material handling is collected from VOC report. The unit is converted to cubic meter.

(4) The volume of vented hydrocarbon in 2019 was greater than in 2018 due to equipment improvents at DCC and improvements to the data collection process from the digital database program iMass.

(5) In 2020, the UHV plant transported gas which was originally vented to be used as energy in the production process resulting in reducing the volume of hydrocarbon released when compared to 2019.

(6) In 2021, volume of hydrocarbon increased from 2020 because of unplaned shut down from plant.

| GRI<br>Standard     | Data  | Unit                       | 2019   | 2020   | 2021   | 2022   |
|---------------------|---|----------------------------|--------|--------|--------|--------|
|                     | Operational Control   |                            |        |        |        |        |
|                     | Direct emissions of greenhouse gas (Scope 1)<br>(2), (3)            | Million tCO₂e              | 3.784  | 3.721  | 3.946  | 3.271  |
|                     | co <sub>2</sub>   | Million tCO <sub>2</sub> e | 3.776  | 3.710  | 3.938  | 3.265  |
| GRI 305-1           | CH <sub>4</sub>   | Million tCO <sub>2</sub> e | 0.003  | 0.003  | 0.003  | 0.002  |
| (2016)              | N <sub>2</sub> O  | Million tCO <sub>2</sub> e | 0.004  | 0.004  | 0.004  | 0.002  |
|                     | HFC   | Million tCO <sub>2</sub> e | 0.001  | 0.004  | 0.000  | 0.000  |
|                     | SF <sub>6</sub>   | tCO <sub>2</sub> e         | 351    | 520    | 684    | 520    |
|                     | Biogenic CO <sub>2</sub> Emissions                                  | tCO <sub>2</sub> e         | 352    | 386    | 299    | 288    |
|                     | Indirect emissions of greenhouse gas (Scope 2) $^{(3)}$             | Million tCO₂e              | 0.341  | 0.341  | 0.402  | 0.418  |
| GRI 305-2<br>(2016) | Location Based <sup>(4)</sup>                                       | Million tCO <sub>2</sub> e | 0.031  | 0.025  | 0.036  | 0.053  |
|                     | Market Based <sup>(5)</sup>   | Million tCO <sub>2</sub> e | 0.310  | 0.316  | 0.366  | 0.364  |
| GRI 305-3<br>(2016) | Other indirect emissions of greenhouse gas (Scope 3) <sup>(6)</sup> | Million tCO <sub>2</sub> e | 16.544 | 16.560 | 14.906 | 13.298 |
|                     | Equity Basis  |                            |        |        |        |        |

| GRI<br>Standard     | Data  | Unit                                 | 2019  | 2020  | 2021  | 2022  |
|---------------------|---|--------------------------------------|-------|-------|-------|-------|
| GRI 305-1<br>(2016) | Direct emissions of greenhouse gas (Scope 1)            | Million tCO <sub>2</sub> e           | 4.266 | 4.97  | 4.405 | 3.718 |
| GRI 305-2<br>(2016) | Indirect emissions of greenhouse gas (Scope 2) $^{(3)}$ | Million tCO₂e                        | 0.341 | 0.341 | 0.402 | 0.418 |
| GRI 305-4<br>(2016) | GHG Emission Intensity <sup>(7)</sup>                   | tCO <sub>2</sub> e/Ton of production | 0.342 | 0.342 | 0.362 | 0.333 |

Remarks: (1)The GHG calculations are based to API 2009, IPCC 2006, ISO14064-1, The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition), while GWP is based to the IPCC Fourth Assessment Report (AR4-100 year) are the reports of the following subsidiaries: IRPC PCL, IRPC Oil Co., Ltd., IRPC Polyol Co., Ltd., UBE Chemicals (Asia) Co., Ltd., and IRPC Clean Power Co., Ltd.

(2) This does not include GHG emission from process vents.

(3) GHG emission from electricity purchased from the Provincial Electricity Authority is calculated in reference to PDP 2015 Conversion Factors Calculation.

(4) GHG emission from electricity and steam purchased from (local) private power plant is calculated in reference to Allocation of GHG Emission from Combined Heat and Power (CHP) Plant Guide to Calculation Worksheet V.10 (A WRI/WBCSD GHG Protod. Initiative Calculation Tod).

(5) GHG emission intensity was calculated from Scope 1 and Scope 2.

(6) GHG emission had been changed because of revise emission factor from CHP2.

| GRI<br>Standard | Data                                      | Unit                               | 2019  | 2020  | 2021  | 2022  |
|-----------------|---|------------------------------------|-------|-------|-------|-------|
|                 | Total NOx                                 | Ton                                | 1,592 | 1,495 | 1,607 | 993   |
|                 | NOx Intensity                             | Ton/ThousandTons<br>of production  | 0.132 | 0.126 | 0.134 | 0.090 |
|                 | Total SOx <sup>(2)</sup> , <sup>(3)</sup> | Ton                                | 1,800 | 1,377 | 1,147 | 1,349 |
| GRI 305-7       | SOx Intensity <sup>(3)</sup>              | Ton/Thousand Tons<br>of production | 0.149 | 0.116 | 0.096 | 0.122 |
| (2016)          | Total Suspended Particulate (TSP)         | Ton                                | 338   | 259   | 294   | 213   |
|                 | TSP Intensity                             | Ton/ThousandTons<br>of production  | 0.028 | 0.022 | 0.024 | 0.019 |
|                 | Total VOCs                                | Ton                                | 1,897 | 1,822 | 1,696 | 1,862 |
|                 | VOCs Intensity <sup>(4)</sup>             | Ton/ThousandTons<br>of production  | 0 157 | 0.153 | 0.141 | 0.168 |

Air Emissions (1)

Remarks: (1)This comes from direct measurements or calculation based on relevant standards and regulations.

(2) The amount of sulfur's oxide is in the form of sulfur dioxide.

(3) The NOx Emission in 2021 increased from 2020 due to the CFBC Boiler (Power Plant) Operate after the renovation.

### Water Consumption and Wastewater

| GRI<br>Standard   | Data   | Unit                   | 2019 | 2020 | 2021 | 2022 |
|-------------------|--|------------------------|------|------|------|------|
|                   | Total water withdrawal <sup>(1)</sup>  | Million M <sup>3</sup> | 40   | 40   | 40   | 33   |
|                   | Fresh water (Water with total dissolved solids less than 1,000 MIlligram/liter)  | Million M <sup>3</sup> | 28   | 27   | 27   | 27   |
|                   | Surface water <sup>(5)</sup>   | Million M <sup>3</sup> | 28   | 27   | 27   | 27   |
| GRI 303-3         | Ground water   | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
| (2018) a          | Third-party water  | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
|                   | Other water (Water with total dissolved solids more than 1,000 MIlligram/ liter) | Million M <sup>3</sup> | 12   | 13   | 13   | 6    |
|                   | Sea water  | Million M <sup>3</sup> | 12   | 13   | 13   | 6    |
|                   | Total third-party water withdrawal by withdrawal source                          | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
|                   | Water consumption in risk area   | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
|                   | Surface water  | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
|                   | Ground water   | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
| GRI 303-3         | Water quantity usage from other departments separate by water source             | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
| ( <b>2018</b> ) b | Surface water  | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
|                   | Ground water   | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
|                   | Other water (Water with total dissolved solids more than 1,000 MIlligram/ liter) | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
|                   | Sea water  | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
|                   | Total volume of water discharge by type and destination $^{(2)}$                 | Million M <sup>3</sup> | 25   | 25   | 25   | 18   |
|                   | Fresh water (Water with total dissolved solids less than 1,000 MIlligram/liter)  | Million M <sup>3</sup> | 8    | 8    | 8    | 8    |
| GRI 303-4         | Surface water  | Million M <sup>3</sup> | 0    | 0    | 0    | 0    |
| (2018)            | Third-party water sent for use to other organizations                            | Million M <sup>3</sup> | 8    | 8    | 8    | 8    |
|                   | Other water (Water with total dissolved solids more than 1,000 MIlligram/ liter) | Million M <sup>3</sup> | 17   | 17   | 17   | 10   |
|                   | Surface water  | Million M <sup>3</sup> | 2    | 2    | 2    | 2    |

| GRI<br>Standard | Data  | Unit                              | 2019 | 2020 | 2021   | 2022 |
|-----------------|---|-----------------------------------|------|------|--------|------|
|                 | Sea water   | Million M <sup>3</sup>            | 15   | 16   | 16     | 8    |
|                 | Fresh water withdrawal intensity $^{(3)}$   | M <sup>3</sup> /Ton of production | 2.32 | 2.24 | 2.28   | 2.97 |
| GRI 303-5       | Total water consumption   | Million M <sup>3</sup>            | 15   | 15   | 15     | 16   |
| (2018)          | Results of water volume in Reservoir at 1st<br>January and 31st December of that year (4) | Million M3                        | 1.45 | 0.64 | -0.093 |      |

Remarks: (1) Water usage from various sources, including the distribution to third parties.

(2) Volume of water discharged includes seawater used for sulfur scrubbing which is treated before being released to the sea. The volume of wastewater is measured from the sewage sent to wastewater treatment system (except seawater that the volume of process water is equal to that of wastewater according to process design) and the volume of water distributed to third parties (the communities surrounding IRPC Industrial Zone and other third-parties businesses within IRPC Industrial Zone).

(3) The difference of water volume in reservoirs in 2019 was less than in the previous year. The process water was reserved for drought. Therefore, the water was not taken from the reservoir.

(4) The surface water from natural sources is calculated from the receipts issued by Royal Irrigation Department (Khlong Yai River Basin) and rainwater in the reservoirs within IRPC Industrial Zone

(5) Fresh water withdrawal intensity = volume of freshwater / volume of production

(6) Total water consumption = total volume of water withdrawal - total volume of water discharged by type and destination

| GRI<br>Standard | Data  | Unit | 2019   | 2020   | 2021   | 2022   |
|-----------------|---|------|--------|--------|--------|--------|
|                 | Total waste disposal <sup>(1)</sup> , <sup>(2)</sup> , <sup>(3)</sup> | Ton  | 51,275 | 41,752 | 61,260 | 46,142 |
|                 | Waste from routine operations   | Ton  | 51,009 | 41,616 | 61,238 | 46,142 |
|                 | Non-hazardous waste   | Ton  | 39,383 | 33,909 | 51,389 | 27,223 |
|                 | Composition   | Ton  | 0      | 0      | 0      | 0      |
|                 | Export  | Ton  | 0      | 0      | 0      | 0      |
| GRI 306-2       | Incineration  | Ton  | 1,937  | 2,654  | 1,850  | 1,777  |
| (2016)          | Landfilling   | Ton  | 0      | 0      | 0      | 0      |
|                 | Wastewater Treatment  | Ton  | 0      | 0      | 0      | 0      |
|                 | Recovery  | Ton  | 1,052  | 1,306  | 932    | 2,502  |
|                 | Recycling   | Ton  | 35,590 | 29,511 | 40,897 | 22,945 |
|                 | Reuse   | Ton  | 318    | 0      | 0      | 0      |
|                 | On-site storage   | Ton  | 486    | 437    | 1,712  | 0      |

#### Solid Waste

| GRI<br>Standard | Data                              | Unit | 2019   | 2020   | 2021   | 2022   |
|-----------------|-----------------------------------|------|--------|--------|--------|--------|
|                 | Land reclamation                  | Ton  | 0      | 0      | 5,998  | 0      |
|                 | Hazardous waste                   | Ton  | 11,626 | 7,707  | 9,849  | 18,918 |
|                 | Composition                       | Ton  | 0      | 0      | 0      | 0      |
|                 | Export                            | Ton  | 266    | 64     | 346    | 1,604  |
|                 | Incineration                      | Ton  | 3,392  | 1,876  | 2,111  | 5,472  |
|                 | Landfilling                       | Ton  | 0      | 0      | 1      | 0      |
|                 | Wastewater Treatment              | Ton  | 0      | 0      | 236    | 2,236  |
|                 | Recovery                          | Ton  | 5,747  | 4,886  | 6,185  | 7,269  |
|                 | Recycling                         | Ton  | 2,168  | 843    | 942    | 2,332  |
|                 | Reuse                             | Ton  | 31     | 13     | 5      | 6      |
|                 | On-site storage                   | Ton  | 21     | 26     | 23     | 0      |
|                 | Land reclamation                  | Ton  | 0      | 0      | 0      | 0      |
|                 | Waste from non-routine operations | Ton  | 266    | 135    | 22     | 0      |
|                 | Non-hazardous waste               | Ton  | 145    | 0      | 0      | 0      |
|                 | Incineration                      | Ton  | 0      | 0      | 0      | 0      |
|                 | Landfilling                       | Ton  | 0      | 0      | 0      | 0      |
|                 | Export                            | Ton  | 0      | 0      | 0      | 0      |
|                 | Recovery                          | Ton  | 145    | 0      | 0      | 0      |
|                 | Recycling                         | Ton  | 0      | 0      | 0      | 0      |
|                 | Hazardous waste                   | Ton  | 121    | 135    | 22     | 0      |
|                 | Incineration                      | Ton  | 0      | 0      | 0      | 0      |
|                 | Landfilling                       | Ton  | 0      | 0      | 0      | 0      |
|                 | Export                            | Ton  | 121    | 0      | 0      | 0      |
|                 | Recovery                          | Ton  | 0      | 135    | 22     | 0      |
|                 | Recycling                         | Ton  | 0      | 0      | 0      | 0      |
|                 | Total waste generated             | Ton  | 51,275 | 41,752 | 61,260 | 46,142 |

| GRI<br>Standard | Data   | Unit | 2019   | 2020   | 2021   | 2022   |  |  |  |
|-----------------|--|------|--------|--------|--------|--------|--|--|--|
| GRI 306-3       | Hazardous waste generated                        | Ton  | 11,747 | 7,842  | 9,871  | 18,918 |  |  |  |
| (2020)          | Non-hazardous waste generated                    | Ton  | 39,529 | 33,909 | 51,389 | 27,223 |  |  |  |
|                 | Total waste diverted from disposal               | Ton  | 45,051 | 36,694 | 48,983 | 35,053 |  |  |  |
|                 | Total Hazardous waste diverted from disposal     | Ton  | 7,946  | 5,877  | 7,154  | 9,606  |  |  |  |
|                 | Total Non-hazardous waste diverted from disposal | Ton  | 37,105 | 30,818 | 41,829 | 25,447 |  |  |  |
|                 | Onsite   |      |        |        |        |        |  |  |  |
|                 | Hazardous waste diverted from disposal           | Ton  | 0      | 0      | 0      | 0      |  |  |  |
|                 | Preparation for reuse                            | Ton  | 0      | 0      | 0      | 0      |  |  |  |
|                 | Recycling  | Ton  | 0      | 0      | 0      | 0      |  |  |  |
|                 | Other recovery operations                        | Ton  | 0      | 0      | 0      | 0      |  |  |  |
|                 | Non-hazardous waste diverted from disposal       | Ton  | 0      | 0      | 0      | 0      |  |  |  |
|                 | Preparation for reuse                            | Ton  | 0      | 0      | 0      | 0      |  |  |  |
| GRI 306-4       | Recycling  | Ton  | 0      | 0      | 0      | 0      |  |  |  |
| (2020)          | Other recovery operations                        | Ton  | 0      | 0      | 0      | 0      |  |  |  |
|                 | Offsite  |      |        |        |        |        |  |  |  |
|                 | Hazardous Waste diverted from disposal           | Ton  | 7,946  | 5,877  | 7,154  | 6,044  |  |  |  |
|                 | Preparation for reuse                            | Ton  | 31     | 13     | 5      | 6      |  |  |  |
|                 | Recycling  | Ton  | 2,168  | 843    | 942    | 4,238  |  |  |  |
|                 | Other recovery operations                        | Ton  | 5,747  | 5,021  | 6,207  | 1,800  |  |  |  |
|                 | Non-hazardous waste diverted from disposal       | Ton  | 37,105 | 30,818 | 41,829 | 22,651 |  |  |  |
|                 | Preparation for reuse                            | Ton  | 0      | 0      | 0      | 0      |  |  |  |
|                 | Recycling  | Ton  | 35,590 | 29,511 | 40,897 | 22,651 |  |  |  |
|                 | Other recovery operations                        | Ton  | 1,197  | 1,306  | 932    | 0      |  |  |  |
|                 | Total waste directed to disposal                 | Ton  | 6,223  | 5,057  | 12,277 | 20,860 |  |  |  |

| GRI<br>Standard     | Data   | Unit | 2019  | 2020  | 2021  | 2022   |
|---------------------|--|------|-------|-------|-------|--------|
| GRI 306-5<br>(2020) | Total Hazardous waste directed from disposal     | Ton  | 3,800 | 1,966 | 2,717 | 16,518 |
|                     | Total Non-hazardous waste directed from disposal | Ton  | 2,423 | 3,092 | 9,560 | 4,279  |
|                     | Onsite   |      |       |       |       |        |
|                     | Hazardous waste directed to disposal             | Ton  | 0     | 0     | 0     | 0      |
|                     | Incineration (with energy recovery)              | Ton  | 0     | 0     | 0     | 0      |
|                     | Incineration (without energy recovery)           | Ton  | 0     | 0     | 0     | 0      |
|                     | Landfilling                                      | Ton  | 0     | 0     | 0     | 0      |
|                     | Other disposal operations                        | Ton  | 0     | 0     | 0     | 0      |
|                     | Non-hazardous waste directed to disposal         | Ton  | 0     | 0     | 0     | 0      |
|                     | Incineration (with energy recovery)              | Ton  | 0     | 0     | 0     | 0      |
|                     | Incineration (without energy recovery)           | Ton  | 0     | 0     | 0     | 0      |
|                     | Landfilling                                      | Ton  | 0     | 0     | 0     | 0      |
|                     | Other disposal operations                        | Ton  | 0     | 0     | 0     | 0      |
|                     | Offsite  |      |       |       |       |        |
|                     | Hazardous waste directed to disposal             | Ton  | 3,800 | 1,966 | 2,717 | 12,766 |
|                     | Incineration (with energy recovery)              | Ton  | n/a   | 293   | 490   | 7,317  |
|                     | Incineration (without energy recovery)           | Ton  | 3,392 | 1,583 | 1,621 | 5,449  |
|                     | Landfilling                                      | Ton  | 0     | 0     | 1     | 0      |
|                     | Other disposal operations                        | Ton  | 408   | 90    | 605   | 0      |
|                     | Non-hazardous waste directed to disposal         | Ton  | 2,423 | 3,092 | 9,560 | 4,574  |
|                     | Incineration (with energy recovery)              | Ton  | n/a   | 564   | 1,850 | 2,798  |
|                     | Incineration (without energy recovery)           | Ton  | 1,937 | 2,090 | 0     | 1,777  |
|                     | Landfilling                                      | Ton  | 0     | 0     | 0     | 0      |

| GRI<br>Standard     | Data                                    | Unit | 2019   | 2020  | 2021  | 2022   |
|---------------------|---|------|--------|-------|-------|--------|
|                     | Other disposal operations               | Ton  | 486    | 437   | 7,710 | 0      |
|                     | Hazardous waste transportation          | Ton  | 11,747 | 7,842 | 9,871 | 18,810 |
|                     | Hazardous waste import to IRPC          | Ton  | 0      | 5     | 0     | 0      |
| GRI 306-4<br>(2016) | Hazardous waste export from IRPC        | Ton  | 11,747 | 7,842 | 9,871 | 17,206 |
|                     | Hazardous waste treated                 | Ton  | 42     | 5     | 11    | 0      |
|                     | Hazardous waste shipped internationally | Ton  | 266    | 64    | 346   | 1,604  |

Remarks: (1) Waste management data from service providers certified by the Department of Industrial Works.

(2) Non-routine Hazardous waste are acid leaked from ETP plant

(3) In 2021 nonhazardous waste for Land reclamation are soil from Utility Ban-Kai plant

(4) Waste on site in 2021 increased from 2020 because of cleaning office building.

(5) In 2021 non-hazardous waste increased from fly ash

### Oil and Chemical Spills

| GRI<br>Standard | Data   | Unit | 2019 | 2020 | 2021 | 2022 |
|-----------------|--|------|------|------|------|------|
| GRI 306-        | GRI 306-<br>3 (2016) Significant Oil & Chemical Spills | Case | 0    | 0    | 0    | 0    |
| 3 (2016)        |  | M3   | 0    | 0    | 0    | 0    |

#### **Environmental Protection Expenditures and Investment Fines**

| GRI<br>Standard     | Data   | Unit        | 2019  | 2020 | 2021  | 2022  |
|---------------------|--|-------------|-------|------|-------|-------|
| GRI 201-1<br>(2016) | Environmental protection expenditures and investments (e.g. operation related costs, etc.) $^{\left(1\right)}$ | THB Million | 311   | 435  | 538   | 450   |
| N/A                 | Benefit from environmental investment $^{(2)}$   | THB Million | 1,427 | 381  | 1,005 | 1,167 |
|                     | Monetary value of significant fines  | THB Million | 0     | 0    | 0     | 0     |
| GRI 307-1<br>(2016) | Number of non-monetary sanctions   | Case        | 0     | 0    | 0     | 0     |
|                     | Case brought through dispute resolution mechanisms   | Case        | 0     | 0    | 0     | 0     |

Remarks: (1) Expenditures of environmental protection investment are calculated.

(2) Benefits from environmental investment, such as investment returns, tax incentives from the Board of Investment of Thailand (BOI).

#### Philanthropy

| GRI<br>Standard       | Data   | Unit | 2019  | 2020  | 2021  | 2022  |
|-----------------------|--|------|-------|-------|-------|-------|
| GRI 102-<br>43 (2016) | Community satisfaction   | %    | 91.40 | 97.45 | 98.63 | 99.00 |
|                       | Number of violations of legal obligations/ regulations                   | Case | 0     | 0     | 0     | 0     |
| GRI 307-<br>1 (2016)  | Amount of fines/ penalties related to the above (more than \$10,000 USD) | ТНВ  | 0     | 0     | 0     | 0     |
|                       | Environmental liability accrued at year end                              | ТНВ  | 0     | 0     | 0     | 0     |