

RINGKASAN LAPORAN
(EXECUTIVE SUMMARY)

BIDANG KEANEKARAGAMAN HAYATI

PERIODE
JANUARI 2019 - JUNI 2023



Star Energy Geothermal Darajat II, Limited




LEMBAR PENGESAHAN

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PERIODE
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| <p>Disiapkan oleh :</p>  <p><u>Iqbal Abi Yaghsyah</u> Koordinator Perlindungan Keanekaragaman Hayati</p> | <p>Disetujui oleh :</p>   <p><u>Arief Budiman</u> Head of Darajat Power Plant Operation</p> |
| <p>Tanggal : 10 Juli 2023</p> | <p>Tanggal : 10 Juli 2023</p> |

STAR ENERGY GEOTHERMAL DARAJAT II, LIMITED
LAPANGAN PANASBUMI DARAJAT

1. Status Pengelolaan Keaneekaragaman Hayati

Sampai Juni 2023, program pengelolaan keaneekaragaman hayati di Lapangan Panasbumi Darajat berjalan sesuai rencana strategis dan rencana kerja 2019-2026 di lokasi yang sudah ditentukan sebagai kawasan konservasi keaneekaragaman hayati. Program yang saat ini berjalan dapat dilihat pada tabel berikut.

Tabel 1 Program Keaneekaragaman Hayati

| No. | Program | Lokasi | Status |
|-----------------|---|--|----------|
| SEGD-KH-2012-01 | Konservasi Pohon Endemik dan Endemik Langka-Penanaman Pohon Kayu Keras Endemik dan Endemik Langka | Area Operasi Lapangan Panasbumi Darajat | Berjalan |
| SEGD-KH-2015-01 | Konservasi Pohon Endemik dan Endemik Langka-Penanaman Pohon Buah Lokal Jeruk Garut dan Kesemek | Area Perkantoran SEGD, Desa Margawati, Desa Sirnajaya, Desa Pamekasari, Desa Mekarjaya | Berjalan |
| SEGD-KH-2012-02 | Kolaborasi Perusahaan dan Masyarakat dalam Konservasi Pohon Endemik | Desa Binaan Star Energy Geothermal Darajat | Berjalan |
| SEGD-KH-2015-02 | Pagar Bumi-Penanaman Pohon Endemik dengan Ciri Khas di Batas Lahan Cagar Alam Papandayan | Area Perhutani-Puncak Cae. Perbatasan Cagar Alam Papandayan | Berjalan |
| SEGD-KH-2015-03 | <i>Sustainable Landscaping Management Through an Integrated Approach at Papandayan Conservation Area</i> -Pemantauan Keaneekaragaman Hayati | Desa Barusari, Padaawas, Sarimukti | Berjalan |
| SEGD-KH-2015-04 | PRISMA (<i>Promoting Integrated Farming Small and MicroFinance</i>) | Kec. Pasirwangi, Samarang, Cikajang, Leles | Berjalan |
| SEGD-KH-2017-01 | Desa Caang | Desa Sukalilah, Mekarjaya | Berjalan |
| SEGD-KH-2017-02 | Pengelolaan Hutan Bersama <i>Multistakeholder</i> dalam Rehabilitasi & Konservasi Kawasan Hutan Darajat (Buffer Zone) | Pipa 37-38, Bravo 3, <i>Cooling Tower</i> , Pad 15, Cigupakan, Pipa Uap Gn. Gagak | Berjalan |
| SEGD-KH-2019-01 | RESTORAN WARTADAYA (Restorasi di Taman Wisata Alam Gunung Papandayan Blok Wartadaya) | Taman Wisata Alam Gunung Papandayan | Berjalan |
| SEGD-KH-2019-02 | Pendidikan Agroekologi dalam rangka Restorasi Areal Hutan Lindung Perhutani KPH Garut dengan Pendekatan Agroforestri | Hutan lindung Perhutani KPH Garut | Berjalan |
| SEGD-KH-2018-01 | KUKANG SEKSI (Konservasi Kukang dengan Metode <i>Flexible Transect</i> dan Edukasi) | Hutan Gunung Papandayan-Guntur | Berjalan |
| SEGD-KH-2018-02 | Monitoring sebaran dan Kepadatan Populasi Macan Tutul Jawa (<i>Panthera pardus melas</i>) di Kesatuan Pengelolaan Hutan Konservasi (KPHK) Guntur-Papandayan Jawa Barat | Hutan Gunung Papandayan-Guntur | Berjalan |
| SEGD-KH-2020-01 | Monitoring Kepadatan dan Distribusi Populasi Lutung Jawa (<i>Trachypithecus auratus</i>) dan Surili (<i>Presbytis comate</i>) di TWA Kawah Darajat Gunung Papandayan Jawa Barat | Taman Wisata Alam Kawah Darajat Gunung Papandayan Jawa Barat | Berjalan |
| SEGD-KH-2021- | Restoran E-Manis Cabang 36 | Hutan Lindung Area Operasi Lapangan Panasbumi Darajat | Berjalan |

| No. | Program | Lokasi | Status |
|-----------------|--|---|----------|
| 01 | | | |
| SEGD-KH-2021-02 | Pelepasliaran dan Pengamatan Burung Elang | Area Operasi Lapangan Panasbumi Darajat | Berjalan |
| SEGD-KH-2021-03 | Pengamatan Burung di Cagar Alam Papandayan dan Gunung Darajat | Hutan Gunung Papandayan dan Gunung Darajat | Berjalan |
| SEGD-KH-2021-04 | Pengamatan Fauna di Cagar Alam Papandayan dan Gunung Darajat | Hutan Gunung Papandayan dan Gunung Darajat | Berjalan |
| SEGD-KH-2022-01 | Restoran Kalong Konser | Area Cikupakan, Hutan Lindung Area Operasi Lapangan Panasbumi Darajat | Berjalan |
| SEGD-KH-2022-02 | Instalasi Jembatan Koridor di TWA Gunung Papandayan | Hutan Gunung Darajat | Berjalan |
| SEGD-KH-2022-03 | Macan Aum 4.0 (Monitoring Macan Tutul Jawa di Area TWA Papandayan) | Hutan Gunung Darajat | Berjalan |
| SEGD-KH-2023-01 | Jaga Alam (Perlindungan Kawasan Konservasi Di WKP Darajat) | Hutan Gunung Darajat | Berjalan |
| SEGD-KH-2023-02 | Asep Restro (Akselerasi Program Penghijauan & Reforestasi) | WKP Panas Bumi Darajat | Berjalan |

2. Indikator Kinerja

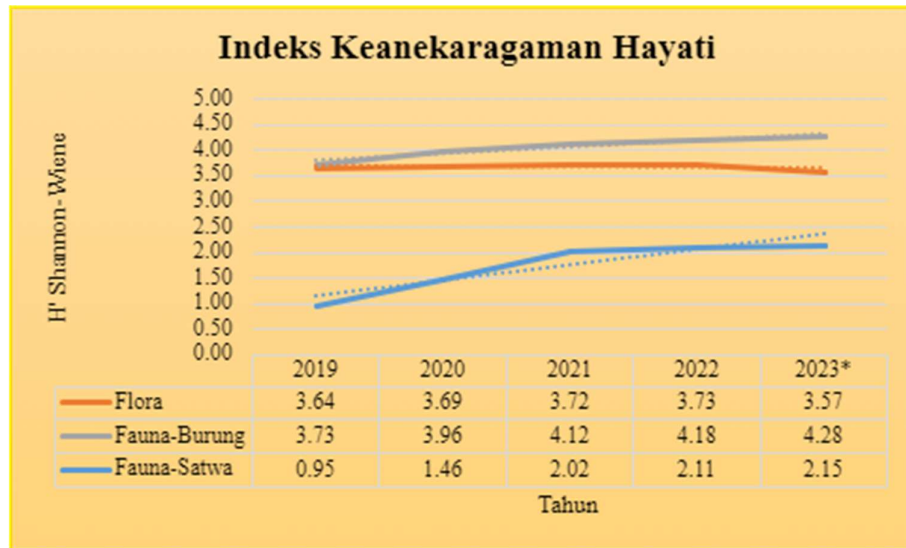
Berbagai indikator Pengelolaan Keanekaragaman Hayati Darajat telah ditentukan diawal, dipantau secara periodik dan disajikan dalam bentuk tabel. Tabel yang tersedia adalah:

1. Tabel Indeks Keanekaragaman Hayati (Tabel 2)
2. Tabel Identifikasi Spesies Hayati yang Dilindungi (Tabel 3 - Tabel 5)
3. Tabel Dampak Perbaikan berupa Potensi Konservasi Air (m³) yang Terjadi dari Program Perlindungan Keanekaragaman Hayati Tahun 2018-2022 (Tabel 6)
4. Tabel Dampak Perbaikan berupa Potensi Penurunan CO₂ (Ton) yang Terjadi dari Program Perlindungan Keanekaragaman Hayati Tahun 2018-2022 (Tabel 7)
5. Tabel Ringkasan Nilai Absolut Kinerja Keanekaragaman Hayati (terlampir)

Tabel 2 Indeks Keanekaragaman Hayati

| No | Keanekaragaman | Tahun | | | | | Satuan |
|----|----------------|-------|------|------|------|-------|-------------------|
| | | 2019 | 2020 | 2021 | 2022 | 2023* | |
| 1 | Flora | 3,64 | 3,69 | 3,72 | 3,73 | 3,57 | H' Shannon-Wiener |
| 2 | Fauna-Burung | 3,73 | 3,96 | 4,12 | 4,18 | 4,28 | H' Shannon-Wiener |
| 3 | Fauna-Satwa | 0,95 | 1,46 | 2,02 | 2,11 | 2,15 | H' Shannon-Wiener |

*Data sampai bulan juli



Grafik 1. Trending Indeks Keanekaragaman Hayati

Tabel 3 Daftar Jenis Flora di dalam Kawasan Perlindungan Kehati Lapangan Panasbumi Darajat, Garut

| No. | Nama Spesies | Nama Ilmiah Spesies | Status Konservasi dan Perlindungan | | | | | | Jumlah Individu | | | | |
|-----|--------------|-------------------------------|------------------------------------|---------------|---------------------|-------------------------------|--------------------------------|-------|-----------------|------|------|------|-------|
| | | | Endemik | IUCN Red List | PP No. 7 Tahun 1999 | Permen LH No. P.92 Tahun 2018 | Permen LH No. P.106 Tahun 2018 | CITES | 2019 | 2020 | 2021 | 2022 | 2023* |
| 1 | Gmelina | <i>Gmelina arborea</i> | √ | LC | - | - | - | - | 86 | 90 | 90 | 95 | 95 |
| 2 | Surian | <i>Toona sureni</i> | √ | LC | - | - | - | - | 96 | 115 | 173 | 175 | 175 |
| 3 | Puspa | <i>Schima walichii</i> | - | LC | - | - | - | - | 752 | 773 | 775 | 778 | 880 |
| 4 | Ganitri | <i>Elaeocarpus ganitrus</i> | - | - | - | - | - | - | 86 | 90 | 90 | 92 | 92 |
| 5 | Alpukat | <i>Persea americana</i> | - | LC | - | - | - | - | 86 | 90 | 90 | 95 | 95 |
| 6 | Damar | <i>Agathis dammara</i> | - | VU | - | - | - | - | 86 | 90 | 90 | 92 | 92 |
| 7 | Mindi | <i>Melia azedarach</i> | - | LC | - | - | - | - | 86 | 90 | 90 | 93 | 93 |
| 8 | Dapung | <i>Actinodaphne glomerata</i> | - | - | - | - | - | - | 17 | 18 | 18 | 20 | 20 |
| 9 | Cerem | <i>Ficus grossularioides</i> | - | LC | - | - | - | - | 233 | 244 | 250 | 270 | 398 |
| 10 | Ki Beusi | <i>Prunus arborea</i> | - | LC | - | - | - | - | 134 | 138 | 140 | 142 | 142 |
| 11 | Kawoyang | <i>Persea rimosa</i> | - | LC | - | - | - | - | 86 | 91 | 94 | 99 | 99 |
| 12 | Ki Hujan | <i>Engelhardia spicata</i> | - | LC | - | - | - | - | 328 | 373 | 381 | 393 | 393 |
| 13 | Ki Hiur | <i>Turpinia sphaerocarpa</i> | - | - | - | - | - | - | 151 | 167 | 171 | 175 | 175 |
| 14 | Pasang | <i>Quercus lineata</i> | - | - | - | - | - | - | 383 | 397 | 399 | 467 | 467 |
| 15 | Ki Jambe | <i>Dysoxylum alliaceum</i> | - | LC | - | - | - | - | 375 | 412 | 417 | 420 | 421 |
| 16 | Ki Tembaga | <i>Eugenia cupre</i> | - | - | - | - | - | - | 111 | 283 | 285 | 287 | 300 |
| 17 | Kayu Putih | <i>Eucalyptus deglupta</i> | - | - | - | - | - | - | 1002 | 1005 | 1006 | 1010 | 1010 |
| 18 | Ki Sireum | <i>Eugenia clavimyrthus</i> | - | - | - | - | - | - | 116 | 118 | 119 | 121 | 271 |
| 19 | Ki Afrika | <i>Maesopsis eminii</i> | - | LC | - | - | - | - | 44 | 46 | 48 | 50 | 50 |
| 20 | Pinus | <i>Pinus merkusii</i> | - | VU | - | - | - | - | 326 | 358 | 360 | 363 | 363 |

| | | | | | | | | | | | | | |
|----|--------------|---------------------------------|---|----|---|---|---|-----|-----|-----|-----|-----|-----|
| 21 | Cemara | <i>Causarina sp.</i> | - | - | - | - | - | - | 170 | 237 | 308 | 429 | 429 |
| 22 | Bubukuan | <i>Strobilanthes cernua</i> | - | - | - | - | - | - | 73 | 73 | 73 | 73 | 73 |
| 23 | Poh-Pohan | <i>Pilea trinervia</i> | - | - | - | - | - | - | 82 | 105 | 105 | 105 | 105 |
| 24 | Kareumbi | <i>Homalanthus populneus</i> | - | LC | - | - | - | - | 23 | 25 | 26 | 27 | 27 |
| 25 | Ki Putri | <i>Podocarpus neriifolius</i> | - | LC | - | - | - | III | 97 | 123 | 125 | 127 | 202 |
| 26 | Manglid | <i>Manglietia glauca</i> | - | DD | - | - | - | - | 172 | 180 | 181 | 185 | 185 |
| 27 | Ki Lemo | <i>Litsea cubeba</i> | - | - | - | - | - | - | 68 | 72 | 72 | 72 | 72 |
| 28 | Kayu Manis | <i>Cinnamomun sp.</i> | - | - | - | - | - | - | 33 | 48 | 49 | 50 | 51 |
| 29 | Ki Harendong | <i>Rodamnia cenera</i> | - | - | - | - | - | - | 79 | 81 | 83 | 90 | 90 |
| 30 | Ki Jeruk | <i>Acronychia laurifolia</i> | - | - | - | - | - | - | 85 | 94 | 96 | 99 | 354 |
| 31 | Rasamala | <i>Altingia excelsa</i> | - | - | - | - | - | - | 18 | 32 | 33 | 34 | 34 |
| 32 | Huru | <i>Litsea sp.</i> | - | - | - | - | - | - | 356 | 364 | 381 | 398 | 398 |
| 33 | Kaliandra | <i>Calliandra portoricensis</i> | - | - | - | - | - | - | 19 | 21 | 21 | 48 | 48 |
| 34 | Angrit | <i>Adina polycephala</i> | - | - | - | - | - | - | 78 | 96 | 96 | 97 | 259 |
| 35 | Saninten | <i>Castanopsis javanica</i> | - | EN | - | √ | √ | - | 44 | 45 | 45 | 48 | 48 |
| 36 | Teklan | <i>Eupatorium riparium</i> | - | - | - | - | - | - | 149 | 165 | 165 | 165 | 165 |
| 37 | Ki Bancet | <i>Turpinia montana</i> | - | LC | - | - | - | - | 9 | 10 | 10 | 10 | 10 |
| 38 | Mahang | <i>Macaranga sp.</i> | - | - | - | - | - | - | 47 | 48 | 49 | 74 | 74 |
| 39 | Maprang | <i>Bouea macrophylla</i> | - | - | - | - | - | - | 40 | 41 | 41 | 41 | 41 |
| 40 | Ki Kopi | <i>Hypobathrum frutescens</i> | - | - | - | - | - | - | 90 | 92 | 99 | 101 | 101 |
| 41 | Ramogiling | <i>Schefflera aromatica</i> | - | - | - | - | - | - | 47 | 48 | 49 | 49 | 49 |
| 42 | Jamuju | <i>Dacrycarpus imbricatus</i> | - | LC | - | - | - | - | 17 | 44 | 44 | 44 | 44 |
| 43 | Kirinyuh | <i>Eupatorium odoratum</i> | - | - | - | - | - | - | 223 | 259 | 259 | 259 | 259 |
| 44 | Paku-Pakuan | <i>Displazium sp.</i> | - | - | - | - | - | - | 45 | 47 | 47 | 47 | 47 |
| 45 | Canar | <i>Smilax sp.</i> | - | - | - | - | - | - | 18 | 20 | 20 | 20 | 20 |
| 46 | Tepus | <i>Amomum sp.</i> | - | LC | - | - | - | - | 43 | 56 | 56 | 56 | 56 |

| | | | | | | | | | | | | | |
|----|----------------|-----------------------------------|---|----|---|---|---|----|-----|-----|-----|-----|------|
| 47 | Rotan | <i>Calamus sp.</i> | - | - | - | - | - | - | 30 | 31 | 32 | 32 | 32 |
| 48 | Harendong Bulu | <i>Melastoma malabathricum</i> | - | - | - | - | - | - | 74 | 90 | 90 | 90 | 90 |
| 49 | Cakar Ayam | <i>Selaginella doederleinii</i> | - | - | - | - | - | - | 65 | 66 | 66 | 66 | 66 |
| 50 | Begonia Merah | <i>Begonia tuberosa</i> | - | - | - | - | - | - | 33 | 37 | 37 | 37 | 37 |
| 51 | Pakis Tiang | <i>Cibotium barometz</i> | - | - | - | - | - | II | 44 | 45 | 46 | 46 | 46 |
| 52 | Cariang | <i>Schismatoglottis rupestris</i> | - | - | - | - | - | - | 24 | 28 | 28 | 28 | 28 |
| 53 | Cacabean | <i>Ludwigia octovalvis</i> | - | LC | - | - | - | - | 18 | 22 | 24 | 24 | 24 |
| 54 | Bayonah | <i>Ageratum conyzoides</i> | - | LC | - | - | - | - | 16 | 19 | 19 | 19 | 19 |
| 55 | Kaladi | <i>Caladium bicolor</i> | - | - | - | - | - | - | 25 | 39 | 40 | 40 | 40 |
| 56 | Pacing | <i>Costus sp.</i> | - | - | - | - | - | - | 9 | 13 | 14 | 14 | 14 |
| 57 | Pulus | <i>Laportea stimulans</i> | - | - | - | - | - | - | 9 | 13 | 13 | 13 | 13 |
| 58 | Rumput | <i>Cyperus sp.</i> | - | LC | - | - | - | - | 230 | 244 | 245 | 246 | 246 |
| 59 | Padutan | <i>Paspalum conjugatum</i> | - | LC | - | - | - | - | 16 | 20 | 20 | 20 | 20 |
| 60 | Beunying | <i>Ficus fistulosa</i> | - | LC | - | - | - | - | 27 | 46 | 46 | 46 | 46 |
| 61 | Ki Simut | <i>N/A</i> | - | - | - | - | - | - | 18 | 22 | 22 | 23 | 23 |
| 62 | Gedebong | <i>Piper aduncun</i> | - | LC | - | - | - | - | 87 | 91 | 91 | 91 | 91 |
| 63 | Bungbrun | <i>Polygonum chinrensis</i> | - | - | - | - | - | - | 9 | 13 | 15 | 15 | 15 |
| 64 | Pakis | <i>Cycas rumphii</i> | - | - | - | - | - | - | 44 | 52 | 52 | 55 | 55 |
| 65 | Bunga Pernik | <i>N/A</i> | - | - | - | - | - | - | 14 | 18 | 19 | 19 | 19 |
| 66 | Harendong | <i>Clidemia hirta</i> | - | - | - | - | - | - | 107 | 111 | 115 | 115 | 115 |
| 67 | Kecubung | <i>Datura sp.</i> | - | LC | - | - | - | - | 27 | 31 | 33 | 33 | 33 |
| 68 | Alang-Alang | <i>Imperata cylindrica</i> | - | LC | - | - | - | - | 38 | 55 | 55 | 60 | 60 |
| 69 | Putri Malu | <i>Mimosa pudica</i> | - | - | - | - | - | - | 44 | 48 | 49 | 49 | 49 |
| 70 | Ki Badak | <i>Fagraea fragrans</i> | - | LC | - | - | - | - | 0 | 552 | 552 | 560 | 2000 |

| | | | | | | | | | | | | | |
|--------------|--------------|----------------------------|---|----|---|---|---|---|-------------|-------------|-------------|--------------|--------------|
| 71 | Kopi Arabika | <i>Coffea arabica</i> | - | EN | - | - | - | - | 144 | 148 | 255 | 343 | 343 |
| 72 | Rambutan | <i>Nephelium lappaceum</i> | - | - | - | - | - | - | 0 | 0 | 37 | 37 | 37 |
| 74 | Hamirung | <i>Vernona arborea</i> | - | - | - | - | - | - | 0 | 0 | 0 | 14 | 14 |
| 75 | Mamprang | <i>Macaranga sp.</i> | - | - | - | - | - | - | 0 | 0 | 0 | 12 | 12 |
| 76 | Ki Simeut | <i>Litsea cubeba</i> | - | - | - | - | - | - | 0 | 0 | 0 | 8 | 8 |
| TOTAL | | | | | | | | | 7861 | 9268 | 9665 | 10173 | 12500 |

*data sampai Juni

Tabel 4 Daftar Jenis Burung di dalam Kawasan Perlindungan Kehati Lapangan Panasbumi Darajat, Garut

| No. | Famili | Nama Spesies | Nama Ilmiah Spesies | Status Konservasi dan Perlindungan | | | | | | Jumlah Individu | | | | |
|-----|--------------------|--------------------|-------------------------------|------------------------------------|---------------|---------------------|-------------------------------|--------------------------------|-------|-----------------|------|------|------|-------|
| | | | | Endemik | IUCN Red List | PP No. 7 Tahun 1999 | Permen LH No. P.92 Tahun 2018 | Permen LH No. P.106 Tahun 2018 | CITES | 2019 | 2020 | 2021 | 2022 | 2023* |
| 1 | <i>Acciptridae</i> | Elang-Ular Bido | <i>Spilornis cheela</i> | - | LC | √ | √ | √ | II | 4 | 5 | 6 | 8 | 8 |
| 2 | | Elang Hitam | <i>Ictinaetus malaiensis</i> | - | LC | √ | √ | √ | II | 5 | 6 | 6 | 8 | 1 |
| 3 | | Elang Brontok | <i>Spizaetus cirrhatus</i> | - | LC | √ | - | - | - | 0 | 0 | 4 | 4 | 4 |
| 4 | <i>Phasianidae</i> | Puyuh Gonggong sp. | <i>Arborophila sp.</i> | - | LC | - | - | - | - | 1 | 2 | 2 | 2 | 2 |
| 5 | <i>Columbidae</i> | Tekukur Biasa | <i>Streptopelia chinensis</i> | - | LC | - | - | - | - | 7 | 10 | 10 | 10 | 9 |
| 6 | | Pergam Gunung | <i>Ducula badia</i> | - | LC | - | - | - | - | 2 | 4 | 4 | 5 | 5 |

| | | | | | | | | | | | | | | |
|----|--------------------|-------------------|------------------------------------|---------------------------|----|----|---|---|---|---|----|----|----|----|
| 7 | | Uncal Buau | <i>Marcopygia emiliana</i> | - | LC | - | - | - | - | 5 | 7 | 7 | 8 | 8 |
| 8 | | Uncal sp. | <i>Macropygia sp.</i> | - | | - | - | - | - | 0 | 3 | 4 | 5 | 2 |
| 9 | | Pergam sp. | <i>Ducula sp.</i> | - | LC | - | - | - | - | 1 | 3 | 3 | 5 | 5 |
| 10 | | Punai sp. | <i>Treron sp.</i> | - | | - | - | - | - | 0 | 2 | 2 | 3 | 3 |
| 11 | | Dederuk Jawa | <i>Streptopelia bitorquata</i> | - | | - | - | - | - | 2 | 4 | 5 | 5 | 5 |
| 12 | Cuculidae | Wiwik Kelabu | <i>Cacomantis merulinus</i> | - | LC | - | - | - | - | 5 | 6 | 7 | 9 | 3 |
| 13 | | Kadalan Birah | <i>Phaenicophaeus curvirostris</i> | - | LC | - | - | - | - | 3 | 5 | 6 | 6 | 6 |
| 14 | | Wiwik Uncuing | <i>Cacomantis sepulcralis</i> | - | LC | - | - | - | - | 7 | 9 | 11 | 11 | 8 |
| 15 | | Kadalan Kembang | <i>Zanclostomus javanicus</i> | - | LC | - | - | - | - | 2 | 4 | 4 | 6 | 6 |
| 16 | | Kedasi Hitam | <i>Sumiculus lugubris</i> | - | LC | - | - | - | - | 8 | 9 | 9 | 9 | 9 |
| 17 | | Wiwik Lurik | <i>Cacomantis sonneratii</i> | - | | - | - | - | - | 2 | 4 | 4 | 4 | 4 |
| 18 | | Tuwur Asia | <i>Eudynamis scolopaceus</i> | - | LC | - | - | - | - | 2 | 3 | 6 | 6 | 6 |
| 19 | | Bubut Alang-Alang | <i>Cenropus bengalensis</i> | - | | - | - | - | - | 3 | 4 | 5 | 5 | 5 |
| 20 | | Kangkok ranting | <i>Cuculus saturatus</i> | - | LC | - | - | - | - | 0 | 0 | 4 | 5 | 2 |
| 21 | | Apodidae | Walet sp. | <i>Collocalia vestita</i> | - | NT | - | - | - | - | 29 | 31 | 33 | 35 |
| 22 | Walet Linchi | | <i>Collocalia linchi</i> | - | LC | - | - | - | - | 0 | 0 | 0 | 39 | 52 |
| 23 | Alcedinidae | Cekakak Sungai | <i>Halcyon chloris</i> | - | LC | - | - | - | I | 7 | 14 | 15 | 15 | 8 |

| | | | | | | | | | | | | | | |
|----|----------------------|---------------------|-------------------------------|---|----|---|---|---|---|----|----|----|----|----|
| 24 | | Cekakak Jawa | <i>Halcyon cyanoventris</i> | √ | LC | - | - | - | - | 5 | 6 | 6 | 7 | 2 |
| 25 | Megalaimidae | Takur Tohtor | <i>Psilopogon armillaris</i> | √ | LC | - | √ | √ | - | 4 | 7 | 7 | 8 | 8 |
| 26 | | Takur sp. | <i>Psilopogon sp.</i> | - | | - | - | - | - | 0 | 2 | 2 | 3 | 3 |
| 27 | | Takur Tenggeret | <i>Psilopogon australis</i> | - | LC | - | - | - | - | 5 | 7 | 7 | 8 | 8 |
| 28 | Hirundinidae | Layang-Layang Batu | <i>Hirundo tahitica</i> | - | LC | - | - | - | - | 96 | 98 | 99 | 99 | 14 |
| 29 | Campephagidae | Kepudang Sungu Jawa | <i>Coracina javensis</i> | - | LC | - | - | - | - | 2 | 3 | 4 | 4 | 4 |
| 30 | | Sepah Gunung | <i>Pericrocotus miniatus</i> | - | LC | - | - | - | - | 14 | 17 | 17 | 17 | 5 |
| 31 | Chloropseidae | Cipoh Kacat | <i>Aegithina tiphia</i> | - | LC | - | - | - | - | 12 | 14 | 14 | 15 | 15 |
| 32 | | Cica-Daun sp. | <i>Chloropsis sp.</i> | - | LC | - | - | - | - | 2 | 4 | 6 | 6 | 6 |
| 33 | Pycnonotidae | Cucak Kutilang | <i>Pycnonotus aurigaster</i> | - | LC | - | - | - | - | 75 | 77 | 79 | 80 | 8 |
| 34 | | Merbah Cerukcuk | <i>Pycnonotus goiavier</i> | - | LC | - | - | - | - | 9 | 11 | 11 | 12 | 12 |
| 35 | | Cucak Gunung | <i>Pycnonotus bimaculatus</i> | - | NT | - | - | - | - | 0 | 4 | 4 | 6 | 6 |
| 36 | | Merbah Corok-Corok | <i>Pycnonotus simplex</i> | - | LC | - | - | - | - | 4 | 6 | 6 | 8 | 8 |
| 37 | Laniidae | Bentet Kelabu | <i>Lanius schach</i> | - | LC | - | - | - | - | 24 | 26 | 28 | 28 | 12 |
| 38 | Dicruridae | Srigunting Kelabu | <i>Dicrurus leucophaeus</i> | - | LC | - | - | - | - | 8 | 9 | 9 | 10 | 6 |

| | | | | | | | | | | | | | | |
|----|-------------------|--------------------|---------------------------------|---|----|---|---|---|---|----|----|----|----|----|
| 39 | | Srigunting Hitam | <i>Dicrurus macrocerus</i> | - | LC | - | - | - | - | 4 | 7 | 7 | 9 | 9 |
| 40 | Sittidae | Munguk Beledu | <i>Sitta azurea</i> | - | LC | - | - | - | - | 7 | 9 | 13 | 15 | 15 |
| 41 | Timaliidae | Berencet Kerdil | <i>Malacocincla sepiarium</i> | - | LC | - | - | - | - | 6 | 8 | 9 | 10 | 10 |
| 42 | | Ciung Air Coreng | <i>Macronous gularis</i> | - | LC | - | - | - | - | 7 | 8 | 9 | 11 | 11 |
| 43 | | Ciu Besar | <i>Pteruthius flaviscapis</i> | - | LC | - | - | - | - | 6 | 7 | 7 | 9 | 9 |
| 44 | | Tepus pipi perak | <i>Stachyris melanothorax</i> | - | | - | - | - | - | 0 | 0 | 12 | 12 | 14 |
| 45 | | Poksai Kuda | <i>Garrulax rufifrons</i> | - | CR | - | - | - | - | 0 | 0 | 6 | 6 | 6 |
| 46 | Turdidae | Cingcoang Coklat | <i>Brachypteryx leucophrys</i> | - | LC | - | - | - | - | 9 | 10 | 10 | 11 | 9 |
| 47 | | Cingcoang Biru | <i>Brachypteryx Montana</i> | - | LC | - | - | - | - | 5 | 6 | 8 | 8 | 8 |
| 48 | | Anis Gunung | <i>Turdus poliocephalus</i> | - | LC | - | - | - | - | 10 | 23 | 25 | 26 | 1 |
| 49 | | Anis Sisik | <i>Zoothera dauma</i> | - | LC | - | - | - | - | 4 | 6 | 6 | 8 | 8 |
| 50 | | Ciung Mungkal Jawa | <i>Cochoa azurea</i> | - | VU | - | - | - | - | 0 | 0 | 4 | 4 | 4 |
| 51 | Silviidae | Cica-Koreng Jawa | <i>Phylloscopus borealis</i> | - | LC | - | - | - | - | 6 | 8 | 9 | 9 | 9 |
| 52 | | Cikrak Bambu | <i>Abroscopus superciliaris</i> | - | LC | - | - | - | - | 4 | 6 | 7 | 7 | 7 |
| 53 | | Cinenen Kelabu | <i>Orthotomus ruficeps</i> | - | LC | - | - | - | - | 5 | 12 | 12 | 14 | 14 |

| | | | | | | | | | | | | | | |
|----|----------------------|---------------------------|-------------------------------|----|----|---|---|---|---|----|----|----|----|----|
| 54 | | Cinene Pisang | <i>Orthotomus sutorius</i> | - | LC | - | - | - | - | 14 | 16 | 17 | 17 | 17 |
| 55 | | Cinene gunung | <i>Orthotomus cuculatus</i> | | LC | | | | | 0 | 0 | 10 | 12 | 12 |
| 56 | Muscicapidae | Sikatan Bubik | <i>Muscicapa latirostris</i> | - | LC | - | - | - | - | 7 | 9 | 11 | 11 | 11 |
| 57 | | Sikatan Bodoh | <i>Ficedula hyperythra</i> | - | LC | - | - | - | - | 8 | 10 | 10 | 10 | 7 |
| 58 | | Sikatan Kepala Kelabu | <i>Culicicapa ceylonensis</i> | - | LC | - | - | - | - | 8 | 9 | 13 | 15 | 4 |
| 59 | | Sikatan Belang | <i>Ficedula westermanni</i> | - | LC | - | - | - | - | 11 | 20 | 20 | 22 | 22 |
| 60 | | Sikatan Rimba Dada Coklat | <i>Cyornis olivaceus</i> | - | LC | - | - | - | - | 3 | 5 | 5 | 6 | 6 |
| 61 | | Kucica Kampung | <i>Copsychus saularis</i> | - | LC | - | - | - | - | 3 | 5 | 5 | 5 | 5 |
| 62 | Sikatan ninon | <i>Eumyias indigo</i> | - | LC | - | - | - | - | 0 | 0 | 4 | 5 | 6 | |
| 63 | Artamidae | Kekep Babi | <i>Artamus leucorhynchus</i> | - | LC | - | - | - | - | 2 | 3 | 4 | 4 | 4 |
| 64 | Nectariniidae | Burung-Madu Gunung | <i>Aethopyga eximina</i> | √ | LC | √ | - | - | - | 7 | 9 | 11 | 12 | 5 |
| 65 | | Burung-Madu Jawa | <i>Aethopyga mystacalis</i> | - | LC | - | √ | √ | - | 6 | 7 | 8 | 8 | 8 |
| 66 | | Burung Madu Sriganti | <i>Cinnyris jugularis</i> | - | LC | - | - | - | - | 14 | 15 | 17 | 17 | 17 |
| 67 | | Burung Madu | <i>Anthreptes malacensis</i> | - | LC | - | - | - | - | 7 | 8 | 8 | 8 | 8 |

| | | | | | | | | | | | | | | |
|----|---------------------|-----------------------|---------------------------------|---|----|---|---|---|----|----|----|----|----|----|
| | | Kelapa | | | | | | | | | | | | |
| 68 | | Pentis Pelangi | <i>Prionochilus percussus</i> | - | LC | - | - | - | - | 8 | 12 | 12 | 15 | 15 |
| 69 | | Pijantung sp. | <i>Arachnothera sp.</i> | - | LC | - | - | - | - | 1 | 3 | 3 | 4 | 4 |
| 70 | | Burung Madu Pengantin | <i>Leptocoma brasiliana</i> | - | LC | - | - | - | - | 2 | 4 | 6 | 6 | 6 |
| 71 | | Burung Madu Polos | <i>Anthreptes simplex</i> | - | LC | - | - | - | - | 4 | 6 | 8 | 8 | 8 |
| 72 | Dicaelidae | Cabai Bunga-Api | <i>Dicaeum trigonostigma</i> | - | LC | - | - | - | - | 9 | 10 | 11 | 11 | 11 |
| 73 | | Cabai Gunung | <i>Dicaeum sanguinolentum</i> | - | LC | - | - | - | - | 9 | 11 | 18 | 20 | 16 |
| 74 | | Cabai Jawa | <i>Dicaeum trochileum</i> | - | LC | - | - | - | - | 6 | 11 | 11 | 13 | 13 |
| 75 | Zosteropidae | Kacamata Gunung | <i>Zosterops montanus</i> | - | LC | - | - | - | - | 13 | 20 | 22 | 25 | 25 |
| 76 | | Kacamata Biasa | <i>Zosterops palpebrosus</i> | - | LC | - | - | - | - | 20 | 27 | 27 | 30 | 30 |
| 77 | Sturnidae | Kerak Kerbau | <i>Acridotheres javanicus</i> | - | LC | - | - | - | - | 3 | 5 | 5 | 8 | 2 |
| 78 | | Tiong Emas | <i>Gracula religiosa</i> | - | LC | - | √ | √ | II | 1 | 8 | 8 | 8 | 8 |
| 79 | Picidae | Caladi Tilik | <i>Dendrocopos moluccensis</i> | - | LC | - | - | - | - | 9 | 10 | 10 | 10 | 10 |
| 80 | | Pelatuk sp. | <i>Picus sp.</i> | - | | - | - | - | - | 1 | 5 | 6 | 6 | 6 |
| 81 | Eurylaimidae | Sempur Hujan Rimba | <i>Eurylaimus javanicus</i> | - | LC | - | - | - | - | 5 | 7 | 8 | 8 | 8 |
| 82 | Estrildidae | Bondol Jawa | <i>Lonchura leucogastroides</i> | - | LC | - | - | - | - | 20 | 26 | 27 | 29 | 8 |

| | | | | | | | | | | | | | | |
|--------------|---------------------|----------------------|----------------------------------|---|----|---|---|---|---|------------|------------|-------------|-------------|------------|
| 83 | | Bondol Peking | <i>Lonchura Punctulata</i> | - | LC | - | - | - | - | 22 | 24 | 24 | 26 | 26 |
| 84 | <i>Cisticolidae</i> | Perenjak Jawa | <i>Cisticola exilis</i> | - | LC | - | - | - | - | 1 | 4 | 4 | 4 | 2 |
| 85 | | Perenjak | <i>Prinia familiaris</i> | - | LC | - | - | - | - | 0 | 0 | 1 | 3 | 3 |
| 86 | <i>Coraciidae</i> | Tiong Lampu Biasa | <i>Eurystomus orientalis</i> | - | LC | - | - | - | - | 1 | 3 | 5 | 5 | 5 |
| 87 | <i>Viperidae</i> | Pelatuk Sayap Merah | <i>Picus puniceus</i> | - | LC | - | - | - | - | 7 | 8 | 8 | 9 | 9 |
| 88 | <i>Acanthizidae</i> | Remetuk Laut | <i>Gerygone sulphurea</i> | - | LC | - | - | - | - | 8 | 10 | 12 | 12 | 12 |
| 89 | <i>Pittidae</i> | Paok sp. | <i>Pitta sp.</i> | √ | | - | - | - | - | 0 | 1 | 1 | 4 | 4 |
| 90 | <i>Passeridae</i> | Burung-Gereja Erasia | <i>Passer montanus</i> | - | LC | - | - | - | - | 0 | 4 | 10 | 12 | 11 |
| 91 | <i>Cettiidae</i> | Tesia jawa | <i>Tesia superciliaris</i> | - | LC | - | - | - | - | 0 | 0 | 4 | 5 | 4 |
| 92 | <i>Rhipiduridae</i> | Kipasan ekor-merah | <i>Rhipidura phoenicura</i> | √ | | - | - | - | - | 0 | 0 | 6 | 8 | 2 |
| 93 | <i>Trogonidae</i> | Luntur Jawa | <i>Apalharpactes reinwardtii</i> | - | VU | - | - | - | - | 0 | 0 | 5 | 5 | 5 |
| 94 | <i>Strigidae</i> | Celepuk Jawa | <i>Otus angelinae</i> | - | VU | - | - | - | - | 0 | 0 | 4 | 4 | 4 |
| TOTAL | | | | | | | | | | 668 | 871 | 1009 | 1133 | 836 |

*Data sampai Juni

Tabel 5 Daftar Jenis Satwa di dalam Kawasan Perlindungan Kehati Lapangan Panasbumi Darajat, Garut

| No. | Ordo | Nama Spesies | Nama Ilmiah Spesies | Status Konservasi dan Perlindungan | | | | | | Jumlah Individu | | | | |
|-----|-----------|---------------------|-----------------------------------|------------------------------------|---------------|---------------------|-------------------------------|--------------------------------|-------|-----------------|------|------|------|-------|
| | | | | Endemik | IUCN Red List | PP No. 7 Tahun 1999 | Permen LH No. P.92 Tahun 2018 | Permen LH No. P.106 Tahun 2018 | CITES | 2019 | 2020 | 2021 | 2022 | 2023* |
| 1 | Carnivora | Macan Tutul | <i>Panthera Pardus</i> | √ | CR | √ | √ | √ | II | 12 | 14 | 14 | 19 | 6 |
| 2 | | Musang Luwak | <i>Paradoxurus hermaphroditus</i> | - | LC | - | - | - | - | 7 | 9 | 9 | 11 | 5 |
| 3 | | Kucing hutan | <i>Felix bengalensis</i> | - | - | - | - | - | - | 0 | 0 | 0 | 0 | 1 |
| 4 | | Ajag | <i>Cuon alpinus</i> | - | EN | √ | √ | √ | II | 0 | 0 | 0 | 1 | 0 |
| 5 | | Teledu sigung | <i>Mydaus javanensis</i> | - | LC | √ | - | - | - | 0 | 0 | 0 | 0 | 4 |
| 6 | | Musang leher kuning | <i>Martes flavigula</i> | - | LC | - | - | - | - | 0 | 0 | 0 | 0 | 2 |
| 7 | | Biul slentek | <i>Melogale orientalis</i> | - | LC | - | - | - | - | 0 | 0 | 0 | 0 | 12 |
| 8 | | Garangan | <i>Herpestes javanicus</i> | - | LC | - | - | - | III | 0 | 0 | 0 | 0 | 1 |
| 9 | | Cerpelai gunung | <i>Mustela lutreolina</i> | - | LC | - | - | - | - | 0 | 0 | 0 | 0 | 2 |
| 10 | | Musang bulan | <i>paguma larvata</i> | - | LC | - | - | - | - | 0 | 0 | 0 | 0 | 2 |
| 11 | | Linsang | <i>Prionodon linsang</i> | - | LC | √ | √ | √ | II | 0 | 0 | 0 | 0 | 6 |
| 12 | Primata | Lutung Jawa | <i>Trachypitecus auratus</i> | - | VU | - | - | - | II | 0 | 110 | 111 | 113 | 113 |
| 13 | | Surili | <i>Presbitis comate</i> | √ | EN | - | √ | √ | II | 0 | 55 | 55 | 70 | 70 |
| 14 | | Kukang | <i>Nycticebus coucang</i> | √ | VU | √ | √ | √ | - | 70 | 72 | 75 | 76 | 3 |

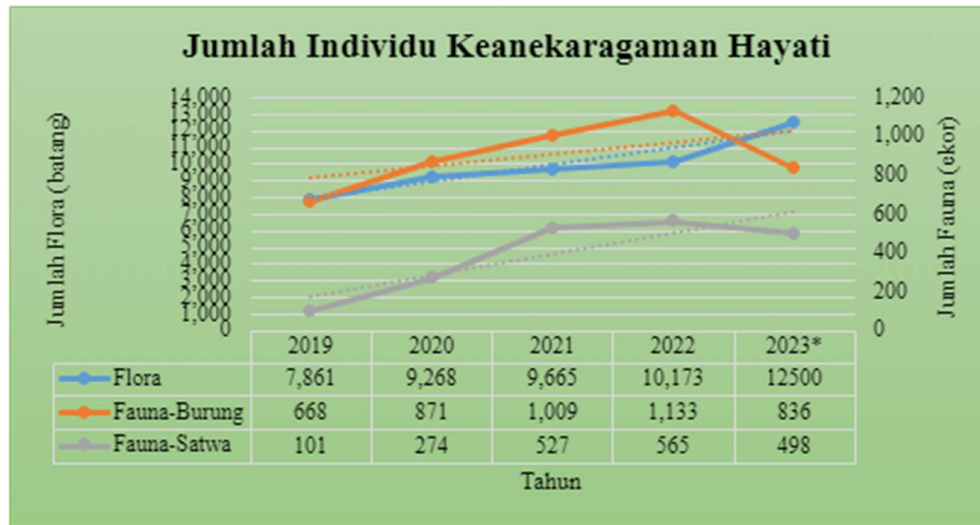
| | | | | | | | | | | | | | | |
|--------------|--------------|----------------------|--------------------------------|-----------------------------|----|----|---|---|----|------------|------------|------------|------------|------------|
| 15 | Artiodactyla | Babi Hutan | <i>Sus scrofa scrofa</i> | - | LC | - | - | - | - | 12 | 14 | 17 | 20 | 12 |
| 16 | | Kijang | <i>Muntiacus muntjak</i> | - | LC | √ | √ | √ | - | 0 | 0 | 0 | 0 | 1 |
| 17 | Anura | Nicobar frog | <i>Amnirana nicobariensis</i> | - | LC | - | - | - | - | 0 | 0 | 3 | 3 | 3 |
| 18 | | Kongkang Jeram | <i>Huia masonii</i> | - | VU | - | - | - | - | 0 | 0 | 8 | 8 | 8 |
| 19 | | Bangkong serasah | <i>Leptobrachium hasseltii</i> | - | - | - | - | - | - | 0 | 0 | 2 | 2 | 2 |
| 20 | | Katak-tanduk jawa | <i>Megophrys montana</i> | - | LC | - | - | - | - | 0 | 0 | 18 | 18 | 18 |
| 21 | | Percil berselaput | <i>Microhyla palmipes</i> | - | LC | - | - | - | - | 0 | 0 | 150 | 150 | 150 |
| 22 | | Kongkang racun | <i>Odorrana hosii</i> | - | - | - | - | - | - | 0 | 0 | 6 | 6 | 6 |
| 23 | | Katak-pohon Emas | <i>Philautus aurifasciatus</i> | - | LC | - | - | - | - | 0 | 0 | 57 | 57 | 57 |
| 24 | | Katak-pohon bergaris | <i>Polypedates leucomystax</i> | - | - | - | - | - | - | 0 | 0 | 2 | 2 | 2 |
| 25 | | Rodentia | Bajing | <i>Callosciurus notatus</i> | - | LC | - | - | - | - | 0 | 0 | 0 | 4 |
| 26 | Scandentia | Landak Jawa | <i>Hystrix javanica</i> | - | LC | - | √ | √ | - | 0 | 0 | 0 | 1 | 1 |
| 27 | | Tupai kekes | <i>Tupaia javanica</i> | - | LC | - | - | - | - | 0 | 0 | 0 | 4 | 10 |
| 28 | Pholidota | Trenggiling | <i>Manis javanica</i> | - | CR | √ | √ | √ | II | 0 | 0 | 0 | 1 | 1 |
| TOTAL | | | | | | | | | | 101 | 274 | 527 | 565 | 498 |

*Data sampai Juni

Tabel 6 Jumlah Spesies di dalam Kawasan Perlindungan Kehati Lapangan Panasbumi Darajat, Garut

| Jumlah Species | Tahun | | | | |
|---------------------|-------|-------|-------|--------|--------|
| | 2019 | 2020 | 2021 | 2022 | 2023* |
| Flora | 7.861 | 9.268 | 9.665 | 10.173 | 12.500 |
| Fauna-Burung | 668 | 871 | 1.009 | 1.133 | 836 |
| Fauna-Satwa | 101 | 274 | 527 | 565 | 498 |

*Data sampai Juni



*Data sampai Juni

Grafik 2. Trending Jumlah Individu Keanekaragaman Hayati

Tabel 7 Dampak Perbaikan berupa Potensi Konservasi Air (m³) yang Terjadi dari Program Perlindungan Keanekaragaman Hayati Tahun 2019-2023*

| No. | Nama Program | 2019 | 2020 | 2021 | 2022 | 2023* |
|-----|--|------------|------------|------------|------------|------------|
| 1 | Konservasi Pohon Endemik dan Endemik Langka- Penanaman Pohon Kayu Keras Endemik dan Endemik Langka | 147.527,52 | 149.409,96 | 152.948,25 | 153.331,71 | 153.331,71 |
| 2 | Konservasi Pohon Endemik dan Endemik Langka- Penanaman Pohon Buah Lokal Jeruk Garut dan Kesemek | 17.116,26 | 17.430,00 | 17.430,00 | 17.482,29 | 17.482,29 |
| 3 | Kolaborasi Perusahaan dan Masyarakat dalam Konservasi Pohon Endemik | 19.870,20 | 20.567,40 | 20.567,40 | 20.671,98 | 20.671,98 |
| 4 | Pagar Bumi-Penanaman Pohon Endemik dengan Ciri Khas di Batas Lahan Cagar Alam Papandayan | 156.870,00 | 174.300,00 | 174.300,00 | 174.300,00 | 174.300,00 |

| | | | | | | |
|--------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 5 | Sustainable Landscaping Management Through an Integrated Approach at Papandayan Conservation Area-Pemantauan Keanekaragaman Hayati | 1.080.398,55 | 1.083.082,77 | 1.083.082,77 | 1.083.431,37 | 1.083.431,37 |
| 6 | PRISMA (<i>Promoting Integrated Farming Small and MicroFinance</i>) | 152.512,50 | 156.870,00 | 156.870,00 | 157.741,50 | 157.741,50 |
| 7 | Desa Caang | 1.232.457,87 | 1.394.190,84 | 1.394.190,84 | 1.394.295,42 | 1.394.295,42 |
| 8 | Pengelolaan Hutan Bersama Multistakeholder dalam Rehabilitasi & Konservasi Kawasan Hutan Darajat (Buffer Zone) | 1.392.953,31 | 1.393.702,80 | 1.393.702,80 | 1.393.807,38 | 1.393.807,38 |
| 9 | RESTORAN WARTADAYA (Restorasi dengan Pendekatan Agroforestri di Taman Wisata Alam Gunung Papandayan Blok Wartadaya) | 79.341,36 | 81.049,50 | 81.049,50 | 81.258,66 | 81.258,66 |
| 10 | Pendidikan Agroekologi dalam rangka Restorasi Areal Hutan Lindung Perhutani KPH Garut dengan Pendekatan Agroforestri | 763.434,00 | 766.920,00 | 766.920,00 | 767.164,02 | 767.164,02 |
| 11 | Restoran E-Manis Cabang 36 | 0,00 | 0,00 | 226.590,00 | 226.590,00 | 226.590,00 |
| 12 | Restoran Kalong Konser | 0,00 | 0,00 | 0,00 | 69.720,00 | 69.720,00 |
| 13 | Jaga Alam (Perlindungan Kawasan Konservasi Di WKP Darajat) | 338.954.952,63 | 338.954.952,63 | 338.954.952,63 | 338.954.952,63 | 338.954.987,49 |
| 14 | Asep Resto (Akselerasi Program Penghijauan & Reforestasi) | 0,00 | 0,00 | 0,00 | 0,00 | 162.691,62 |
| Total | | 343.997.434,20 | 344.192.475,90 | 344.422.604,19 | 344.494.746,96 | 344.657.473,44 |

*Data sampai Juni

Tabel 8 Dampak Perbaikan berupa Potensi Penurunan CO₂ (Ton) yang Terjadi dari Program Perlindungan Keanekaragaman Hayati Tahun 2019-2023*

| No. | Nama Program | 2019 | 2020 | 2021 | 2022 | 2023* |
|-----|--|----------|----------|----------|----------|----------|
| 1 | Konservasi Pohon Endemik dan Endemik Langka- Penanaman Pohon Kayu Keras Endemik dan Endemik Langka | 5.078,40 | 5.143,20 | 5.265,00 | 5.278,20 | 5.278,20 |
| 2 | Konservasi Pohon Endemik dan Endemik Langka- Penanaman Pohon Buah | 589,20 | 600,00 | 600,00 | 601,80 | 601,80 |

| | | | | | | |
|--------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| | Lokal Jeruk Garut dan Kesemek | | | | | |
| 3 | Kolaborasi Perusahaan dan Masyarakat dalam Konservasi Pohon Endemik | 684,00 | 708,00 | 708,00 | 711,60 | 711,60 |
| 4 | Pagar Bumi-Penanaman Pohon Endemik dengan Ciri Khas di Batas Lahan Cagar Alam Papandayan | 5.400,00 | 6.000,00 | 6.000,00 | 6.000,00 | 6.000,00 |
| 5 | Sustainable Landscaping Management Through an Integrated Approach at Papandayan Conservation Area-Pemantauan Keanekaragaman Hayati | 37.191,00 | 37.283,40 | 37.283,40 | 37.295,40 | 37.295,40 |
| 6 | PRISMA (Promoting Integrated Farming Small and MicroFinance) | 5.250,00 | 5.400,00 | 5.400,00 | 5.430,00 | 5.430,00 |
| 7 | Desa Caang | 42.425,40 | 47.992,80 | 47.992,80 | 47.996,40 | 47.996,40 |
| 8 | Pengelolaan Hutan Bersama Multistakeholder dalam Rehabilitasi & Konservasi Kawasan Hutan Darajat (Buffer Zone) | 47.950,20 | 47.976,00 | 47.976,00 | 47.979,60 | 47.979,60 |
| 9 | RESTORAN WARTADAYA (Restorasi dengan Pendekatan Agroforestri di Taman Wisata Alam Gunung Papandayan Blok Wartadaya) | 2.731,20 | 2.790,00 | 2.790,00 | 2.797,20 | 2.797,20 |
| 10 | Pendidikan Agroekologi dalam rangka Restorasi Areal Hutan Lindung Perhutani KPH Garut dengan Pendekatan Agroforestri | 26.280,00 | 26.400,00 | 26.400,00 | 26.408,40 | 26.408,40 |
| 11 | Restoran E-Manis Cabang 36 | 0,00 | 0,00 | 7.800,00 | 7.800,00 | 7.800,00 |
| 12 | Restoran Kalong Konser | 0,00 | 0,00 | 0,00 | 2.400,00 | 2.400,00 |
| 13 | Jaga Alam (Perlindungan Kawasan Konservasi Di WKP Darajat) | 11.667.984,60 | 11.667.984,60 | 11.667.984,60 | 11.667.984,60 | 11.667.985,80 |
| 14 | Asep Resto (Akselerasi Program Penghijauan & Reforestasi) | 0,00 | 0,00 | 0,00 | 0,00 | 5.600,40 |
| Total | | 11.841.564,00 | 11.848.278,00 | 11.856.199,80 | 11.858.683,20 | 11.864.284,80 |

*Data sampai Juni



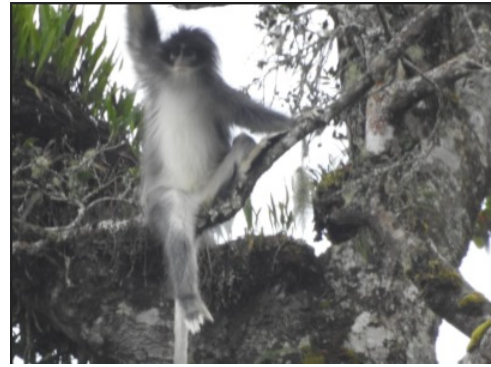
Grafik 3. Trending Dampak Perbaikan berupa Potensi Konservasi Air (m³)



Grafik 4. Trending Dampak Perbaikan berupa Potensi Penurunan CO₂ (ton)



Gambar 5 Elang Ular Bido



Gambar 6 Surili



Gambar 7 Lutung Jawa



Gambar 8 Macan Tutul Jawa



Gambar 9 Linsang



Gambar 10 Landak Jawa



Gambar 11 Trenggiling



Gambar 12 Kucing Hutan

3. Kesimpulan

Program Keanekaragaman Hayati Star Energy Geothermal Darajat II, Limited berjalan sesuai rencana dan hasilnya memenuhi harapan.

1. Indeks keanekaragaman hayati area sekitar Lapangan Panasbumi Darajat mengalami peningkatan setiap tahunnya.
2. Flora Fauna Endemik dan Endemik Langka hidup berdampingan dengan operasi dan jumlahnya konsisten meningkat setiap tahunnya.
3. Macan Tutul Jawa, Kukang, Surili, dan Lutung Jawa yang disinyalir sudah punah di area Cagar Alam Papandayan, telah terbukti masih berada di Cagar Alam Papandayan, bahkan di area Darajat.
4. Meningkatkan dampak perbaikan berupa peningkatan penghematan air dan penurunan emisi CO₂ dari hasil konservasi keanekaragaman hayati.

Lampiran:

1. Ringkasan Nilai Absolut Kinerja Pengelolaan Keanekaragaman Hayati

Ringkasan Nilai Absolut Kinerja Pengelolaan Keanekaragaman Hayati SEG D – Periode 2019 – 2023*

| No | Kegiatan Kehati | Spesies | Tahun | | | | | | | | | |
|----|--|----------------------|---------|---------------|---------|---------------|---------|---------------|---------|---------------|---------|---------------|
| | | | 2019 | | 2020 | | 2021 | | 2022 | | 2023* | |
| | | | Absolut | Anggaran (Rp) | Absolut | Anggaran (Rp) | Absolut | Anggaran (Rp) | Absolut | Anggaran (Rp) | Absolut | Anggaran (Rp) |
| 1 | Konservasi Pohon Endemik dan Endemik Langka- Penanaman Pohon Kayu Keras Endemik dan Endemik Langka | Kayu Manis | 664 | 170.000.000 | 673 | 170.000.000 | 673 | 170.000.000 | 675 | 170.000.000 | 675 | 170.000.000 |
| | | Kayu Putih | 635 | | 644 | | 644 | | 645 | | 645 | |
| | | Ki Hiur | 2.627 | | 2.636 | | 2.636 | | 2.639 | | 2.639 | |
| | | Mahoni | 432 | | 441 | | 441 | | 443 | | 443 | |
| | | Puspa | 1.244 | | 1.253 | | 1.253 | | 1.253 | | 1.253 | |
| | | Rimba, MPTS, Pengisi | 2.027 | | 2.036 | | 2.036 | | 2.036 | | 2.036 | |
| | | Ganitri | 116 | | 125 | | 125 | | 127 | | 127 | |
| | | Harendong | 125 | | 134 | | 134 | | 135 | | 135 | |
| | | Jabon | 146 | | 155 | | 155 | | 155 | | 155 | |
| | | Manglid | 122 | | 131 | | 131 | | 135 | | 135 | |
| | | Rasamala | 177 | | 186 | | 186 | | 189 | | 189 | |
| | | Suren | 149 | | 158 | | 158 | | 160 | | 160 | |
| | | Ki Badak | 0 | | 0 | | 203 | | 205 | | 205 | |
| 2 | Konservasi Pohon Endemik dan Endemik Langka- Penanaman Pohon Buah Lokal Jeruk Garut dan Kesemek | Kaliandra | 827 | 8.500.000 | 836 | 8.500.000 | 836 | 9.000.000 | 838 | 9.000.000 | 838 | 9.000.000 |
| | | Kesemek | 155 | | 164 | | 164 | | 165 | | 165 | |
| 3 | Kolaborasi Perusahaan dan | Albasiah | 127 | 2.000.000 | 136 | 2.000.000 | 136 | 2.000.000 | 137 | 2.000.000 | 137 | 2.000.000 |
| | | Harendong | 107 | | 116 | | 116 | | 117 | | 117 | |

| | | | | | | | | | | | | |
|----------|---|-------------|-------|------------|--------|------------|--------|------------|--------|------------|--------|------------|
| | Masyarakat dalam Konservasi Pohon Endemik | Kayu Manis | 227 | | 236 | | 236 | | 237 | | 237 | |
| | | Suren | 106 | | 115 | | 115 | | 116 | | 116 | |
| | | Jeruk | 507 | | 510 | | 510 | | 511 | | 511 | |
| | | Kesemek | 66 | | 67 | | 67 | | 68 | | 68 | |
| 4 | Pagar Bumi-Penanaman Pohon Endemik dengan Ciri Khas di Batas Lahan Cagar Alam Papandayan | Ki Tembaga | 9.000 | 20.890.250 | 10.000 | 20.890.250 | 10.000 | 20.890.250 | 10.000 | 20.890.250 | 10.000 | 20.890.250 |
| 5 | <i>Sustainable Landscaping Management Through an Integrated Approach at Papandayan Conservation Area- Pemantauan Keaneekaragaman Hayati</i> | Afrika | 657 | 30.000.000 | 666 | 30.000.000 | 666 | 30.000.000 | 668 | 30.000.000 | 668 | 30.000.000 |
| | | Alpukat | 174 | | 182 | | 182 | | 183 | | | |
| | | Aren | 127 | | 136 | | 136 | | 136 | | | |
| | | Bambu | 1.017 | | 1.018 | | 1.018 | | 1.018 | | | |
| | | Huru | 424 | | 432 | | 432 | | 435 | | | |
| | | Kaliandra | 227 | | 236 | | 236 | | 237 | | | |
| | | Katulampa | 74 | | 82 | | 82 | | 82 | | | |
| | | Kelengkeng | 204 | | 205 | | 205 | | 207 | | | |
| | | Ki Angrit | 577 | | 586 | | 586 | | 586 | | | |
| | | Ki Beureum | 8.208 | | 8.216 | | 8.216 | | 8.216 | | | |
| | | Ki Hampelas | 134 | | 142 | | 142 | | 145 | | | |
| | | Ki Hujan | 7.589 | | 7.598 | | 7.598 | | 7.598 | | | |
| | | Ki Jambe | 24 | | 26 | | 26 | | 27 | | | |
| | | Ki Jeruk | 597 | | 606 | | 606 | | 607 | | | |
| | | Ki Putri | 233 | | 234 | | 234 | | 235 | | | |
| Ki Salam | 105 | 108 | 108 | 110 | | | | | | | | |

| | | | | | | | | | | | | |
|---|---|----------------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|
| | | Ki Tembaga | 1.027 | | 1.036 | | 1.036 | | 1.036 | | 1.036 | |
| | | Nangka | 117 | | 120 | | 120 | | 122 | | 122 | |
| | | Puspa | 14.544 | | 14.553 | | 14.553 | | 14.553 | | 14.553 | |
| | | Rasamala | 1.027 | | 1.036 | | 1.036 | | 1.036 | | 1.036 | |
| | | Saninten | 503 | | 504 | | 504 | | 505 | | 505 | |
| | | Suren | 15.712 | | 15.721 | | 15.721 | | 15.721 | | 15.721 | |
| | | Tisuk | 1.182 | | 1.191 | | 1.191 | | 1.191 | | 1.191 | |
| | | Manglid | 7.502 | | 7.505 | | 7.505 | | 7.505 | | 7.505 | |
| 6 | PRISMA (Promoting Integrated Farming Small and MicroFinance) | Kopi | 8.750 | 56.709.000 | 9.000 | 56.709.000 | 9.000 | 56.709.000 | 9.000 | 56.709.000 | 9.050 | 56.709.000 |
| 7 | Desa Caang | Puspa | 460 | 786.650.000 | 467 | 786.650.000 | 467 | 786.650.000 | 470 | 786.650.000 | 470 | 786.650.000 |
| | | Ki Salam | 118 | | 127 | | 127 | | 127 | | | |
| | | Manglid | 529 | | 538 | | 538 | | 540 | | 540 | |
| | | Suren | 602 | | 606 | | 606 | | 607 | | 607 | |
| | | Kopi | 69.000 | | 78.250 | | 78.250 | | 78.250 | | 78.250 | |
| 8 | Pengelolaan Hutan Bersama Multistakehold er dalam Rehabilitasi & Konservasi Kawasan Hutan Darajat (Buffer Zone) | Ganitri | 2.018 | 1.000.000.000 | 2.027 | 1.000.000.000 | 2.027 | 1.000.000.000 | 2.027 | 1.000.000.000 | 2.027 | 1.000.000.000 |
| | | Kopi | 57.732 | | 57.741 | | 57.741 | | 57.741 | | | |
| | | Puspa | 2.568 | | 2.577 | | 2.577 | | 2.577 | | | |
| | | Rimba, MPTS, Pengisi | 11.558 | | 11.567 | | 11.567 | | 11.567 | | | |
| | | Suren | 2.015 | | 2.016 | | 2.016 | | 2.016 | | | |
| | | Mindi | 2.012 | | 2.014 | | 2.014 | | 2.014 | | | |
| | | Damar | 2.014 | | 2.018 | | 2.018 | | 2.018 | | | |
| 9 | RESTORAN WARTADAY A (Restorasi) | Harendong | 30 | 259.582.000 | 39 | 292.212.129 | 39 | 292.212.129 | 41 | 292.212.129 | 41 | 292.212.129 |
| | | Huru | 12 | | 21 | | 21 | | 23 | | 23 | |

| | | | | | | | | | | | | |
|--------|--|------------|--------|------------|--------|------------|--------|------------|--------|------------|-------|------------|
| | Area Gunung Darajat Blo Wartadaya) | Katulampa | 16 | | 25 | | 25 | | 25 | | 25 | |
| | | Kesemek | 10 | | 19 | | 19 | | 20 | | 20 | |
| | | Ki Angrit | 68 | | 77 | | 77 | | 77 | | 77 | |
| | | Ki Hujan | 428 | | 437 | | 437 | | 440 | | 440 | |
| | | Ki Hiur | 16 | | 20 | | 20 | | 21 | | 21 | |
| | | Ki Jeruk | 100 | | 110 | | 110 | | 110 | | 110 | |
| | | Ki Putri | 48 | | 57 | | 57 | | 58 | | 58 | |
| | | Ki Sirem | 10 | | 13 | | 13 | | 15 | | 15 | |
| | | Puspa | 2.608 | | 2.617 | | 2.617 | | 2.617 | | 2.617 | |
| | | Ki Badak | 1.206 | | 1.215 | | 1.215 | | 1.215 | | 1.215 | |
| 1 0 | Pendidikan Agroekologi dalam rangka Restorasi Areal Hutan Lindung Perhutani KPH Garut dengan Pendekatan Agroforestri | Kayu Manis | 5.200 | 44.804.000 | 5.210 | 44.804.000 | 5.210 | 44.804.000 | 5.210 | 44.804.000 | 5.210 | 44.804.000 |
| | | Manglid | 2.000 | | 2.009 | | 2.009 | | 2.010 | | | |
| | | Puspa | 3.300 | | 3.303 | | 3.303 | | 3.303 | | | |
| | | Alpukat | 4.500 | | 4.512 | | 4.512 | | 4.512 | | | |
| | | Nangka | 4.800 | | 4.804 | | 4.804 | | 4.805 | | | |
| | | Kopi | 10.000 | | 10.010 | | 10.010 | | 10.011 | | | |
| | | Saninten | 4.800 | | 4.820 | | 4.820 | | 4.822 | | | |
| | | Suren | 3.300 | | 3.310 | | 3.310 | | 3.313 | | | |
| | | Mindi | 5.200 | | 5.321 | | 5.321 | | 5.323 | | | |
| Duren | 700 | 701 | 701 | 705 | | | | | | | | |
| 1 1 | KUKANG SEKSI (Konservasi Kukang dengan Metode Flexible Transect dan Edukasi) | Kukang | 70 | 33.395.667 | 72 | 33.395.667 | 73 | 33.395.667 | 75 | 33.395.667 | 75 | 33.395.667 |

| | | | | | | | | | | | | |
|--------|---|------------------|----|------------|-----|-------------|-------|-------------|-------|-------------|-------|-------------|
| 1 2 | Monitoring Sebaran dan Kepadatan Populasi Macan Tutul Jawa (<i>Panthera pardus melas</i>) di Kesatuan Pengelolaan Hutan Konservasi (KPHK) Guntur-Papandayan Jawa Barat | Macan Tutul Jawa | 12 | 66.791.333 | 14 | 233.769.703 | 15 | 233.769.703 | 17 | 233.769.703 | 17 | 233.769.703 |
| 1 3 | Monitoring Kepadatan dan Distribusi Populasi Lutung Jawa (<i>Trachypithecus auratus</i>) dan Surili (<i>Presbytis comata</i>) di TWA Kawah Darajat Gunung Papandayan Jawa Barat | Lutung Jawa | 0 | | 110 | | 112 | | 114 | | 114 | |
| | | Surili | 0 | 0 | 55 | 60.000.000 | 58 | 60.000.000 | 60 | 60.000.000 | 60 | 60.000.000 |
| 1 4 | Restoran E-Manis Cabang 36 | Eucalyptus | 0 | | 0 | | 1.200 | | 1.200 | | 1.200 | |
| | | Kayu Manis | 0 | | 0 | | 1.200 | | 1.200 | | 1.200 | |
| | | Puspa | 0 | | 0 | | 2.400 | | 2.400 | | 2.400 | |
| | | Saninten | 0 | 0.00 | 0 | 0.00 | 1.000 | 154.810.000 | 1.000 | 154.810.000 | 1.000 | 154.810.000 |
| | | Suren | 0 | | 0 | | 1.000 | | 1.000 | | 1.000 | |
| | | Pinus | 0 | | 0 | | 1.000 | | 1.000 | | 1.000 | |

| | | | | | | | | | | | | |
|--------|---|--|---|------|---|------|-------|-----------|-------|-------------|-------|-------------|
| | | Nangka | 0 | | 0 | | 1.200 | | 1.200 | | 1.200 | |
| | | Kopi | 0 | | 0 | | 3.000 | | 3.000 | | 3.000 | |
| | | Sereh Wangi | 0 | | 0 | | 1.000 | | 1.000 | | 1.000 | |
| 1 5 | Pelepasliaran dan Pengamatan Burung Elang | Kopi | 0 | 0.00 | 0 | 0.00 | 2 | 5.250.000 | 2 | 5.250.000 | 2 | 5.250.000 |
| 1 6 | Pengamatan Burung di Cagar Alam Papandayan dan Gunung Darajat | Elang Brontok (<i>Spizaetus cirrhatus</i>) | 0 | | 0 | | 2 | | 2 | | 2 | |
| | | Elang Jawa | 0 | | 0 | | 2 | | 2 | | 2 | |
| | | Luntur Jawa (<i>Apalharpactes reinwardtii</i>) | 0 | | 0 | | 5 | | 5 | | 5 | |
| | | Ciung Mungkal Jawa (<i>Cochoa azurea</i>) | 0 | | 0 | | 4 | | 4 | | 4 | |
| | | Celepuk Jawa | 0 | 0.00 | 0 | 0.00 | 4 | 8.500.000 | 4 | 8.500.000 | 4 | 8.500.000 |
| | | Poksai Kuda | 0 | | 0 | | 6 | | 6 | | 6 | |
| | | Lutung Surili | 0 | | 0 | | 11 | | 11 | | 11 | |
| | | Anjing Ajag | 0 | | 0 | | 2 | | 2 | | 2 | |
| | | Macan Tutul | 0 | | 0 | | 2 | | 2 | | 2 | |
| | | Lutung Budeng | 0 | | 0 | | 7 | | 7 | | 7 | |
| 1 7 | Pengamatan Fauna di Cagar Alam Papandayan dan Gunung Darajat | <i>Amnirana nicobariensis</i> | 0 | | 0 | | 3 | | 3 | | 3 | |
| | | <i>Huia masonii</i> | 0 | | 0 | | 8 | | 8 | | 8 | |
| | | <i>Leptobrachium hasseltii</i> | 0 | | 0 | | 2 | | 2 | | 2 | |
| | | <i>Megophrys montana</i> | 0 | 0.00 | 0 | 0.00 | 18 | 8.500.000 | 18 | 8.500.000 | 18 | 8.500.000 |
| | | <i>Microhyla palmipes</i> | 0 | | 0 | | 150 | | 150 | | 150 | |
| | | <i>Odorrana hosii</i> | 0 | | 0 | | 6 | | 6 | | 6 | |
| | | <i>Philautus aurifasciatus</i> | 0 | | 0 | | 57 | | 57 | | 57 | |
| | | <i>Polypedates leucomystax</i> | 0 | | 0 | | 2 | | 2 | | 2 | |
| 1 | Restoran | Ki badak | 0 | 0.00 | 0 | 0.00 | 0 | - | 2.500 | 100.000.000 | 2.500 | 100.000.000 |

| | | | | | | | | | | | | |
|------------------------------|--|---------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|------------|---------------|------------|
| 8 | Kalong Konser | Ki beureum | 0 | | 0 | | 0 | 200 | | 200 | | |
| | | Huru hejo | 0 | | 0 | | 0 | 365 | | 365 | | |
| | | Ki putri | 0 | | 0 | | 0 | 100 | | 100 | | |
| | | Huru Leuer | 0 | | 0 | | 0 | 270 | | 270 | | |
| | | Kaliandra merah | 0 | | 0 | | 0 | 565 | | 565 | | |
| 19 | Instalasi Jembatan Koridor di TWA Gunung Papandayan | Surili Jawa | 0 | | 0 | | 0 | 6 | | 8 | 22.374.000 | |
| | | Lutung | 0 | 0.00 | 0 | 0.00 | 0 | - | 7 | 5.800.000 | | 6 |
| | | Bajing | 0 | | 0 | | 0 | 4 | | 9 | | |
| 20 | Macan Aum 4.0 (Monitoring Macan Tutul Jawa di Area TWA Papandayan) | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 4 | 27.000.000 | 6 | 27.000.000 | |
| 21 | Jaga Alam (Perlindungan Kawasan Konservasi Di WKP Darajat) | Variasi Spesies | 32 | | 32 | | 32 | 32 | | 32 | 4.510.000 | |
| | | Luas Area | 50 | 4.510.000 | 50 | 4.510.000 | 50 | 4.510.000 | 50 | 62.000.000 | | 50 |
| | | Jumlah Pohon | 95.316 | | 95.316 | | 95.316 | | 95.316 | | | 95.316 |
| 22 | Asep Resto (Akselerasi Program Penghijauan & Reforestasi) | Variasi Spesies | 0 | 0 | 0 | 0 | 0 | 0 | 19 | | 31 | 16.000.000 |
| | | Luas penanaman | 0 | 0 | 0 | 0 | 0 | 0 | 2,9691 | | 2,969 | |
| | | Jumlah Pohon | 0 | 0 | 0 | 0 | 0 | 0 | 3.814 | 53.000.000 | 9.334 | |
| | | Indeks KEHATI Flora | 0 | 0 | 0 | 0 | 0 | 0 | 1,0037 | | 1.6118 | |
| Total | | | 2.483.832.250 | | 2.743.440.749 | | 2.921.000.749 | | 3.164.290.749 | | 3.086.374.749 | |
| Indeks KEHATI Flora | | | 1,0503 | | 1,0598 | | 1,2762 | | 1,4995 | | 1,5603 | |
| Indeks KEHATI Mamalia | | | 0,0000 | | 0,6365 | | 0,6418 | | 1,7176 | | 1,7292 | |
| Jumlah Pohon | | | 348.615 | | 395.805 | | 409.008 | | 416.961 | | 422.481 | |
| Jumlah Satwa | | | 82 | | 251 | | 260 | | 289 | | 297 | |
| Luas Penanaman | | | 260,37 | | 270,44 | | 294,71 | | 303,31 | | 303,31 | |

*Data sampai Juni