

## DAFTAR GAMBAR

|                                                                                      |    |
|--------------------------------------------------------------------------------------|----|
| Gambar 1. 1 Implementasi <i>SDLC Model Waterfall</i> Aplikasi Kalkulator Energi..... | 3  |
| Gambar 2. 2 Logo Perusahaan .....                                                    | 5  |
| Gambar 2. 3 Struktur Organisasi .....                                                | 6  |
| Gambar 3. 1 <i>BPMN</i> saat ini .....                                               | 13 |
| Gambar 3. 2 <i>BPMN</i> usulan.....                                                  | 13 |
| Gambar 3. 3 <i>Use case</i> Aplikasi.....                                            | 14 |
| Gambar 3. 4 <i>Activity Diagram Login dan Register</i> .....                         | 16 |
| Gambar 3. 5 <i>Activity Diagram Login Admin</i> .....                                | 17 |
| Gambar 3. 6 <i>Activity Diagram</i> Kebutuhan Energi .....                           | 18 |
| Gambar 3. 7 <i>Activity Diagram</i> Kapasitas Baterai.....                           | 19 |
| Gambar 3. 8 <i>Activity Diagram</i> Daya Panel .....                                 | 20 |
| Gambar 3. 9 <i>Activity Diagram</i> Biaya Instalasi .....                            | 21 |
| Gambar 3. 10 <i>Activity Diagram</i> Rekomendasi Solar panel.....                    | 22 |
| Gambar 3. 11 <i>Activity Diagram</i> Panduan Pemasangan .....                        | 23 |
| Gambar 3. 12 <i>Activity Diagram</i> Kelola Data Solar panel .....                   | 24 |
| Gambar 3. 13 <i>Activity Diagram Logout</i> .....                                    | 25 |
| Gambar 3. 14 <i>Class diagram</i> Aplikasi Kalkulator Energi .....                   | 26 |
| Gambar 3. 15 <i>Sequence diagram Login</i> .....                                     | 31 |
| Gambar 3. 16 <i>Sequence diagram Register</i> .....                                  | 32 |
| Gambar 3. 17 <i>Sequence diagram</i> Kalkulator Kebutuhan Energi.....                | 33 |
| Gambar 3. 18 <i>Sequence diagram</i> Kalkulator Kapasitas Baterai .....              | 35 |
| Gambar 3. 19 <i>Sequence diagram</i> Kalkulator Daya Panel .....                     | 37 |
| Gambar 3. 20 <i>Sequence diagram</i> Kalkulator Biaya Instalasi .....                | 38 |
| Gambar 3. 21 <i>Sequence diagram</i> Akses Panel Surya .....                         | 39 |
| Gambar 3. 22 <i>Sequence diagram</i> Akses Panduan Pemasangan.....                   | 40 |
| Gambar 3. 23 <i>Sequence diagram</i> Kelola Data Solar panel .....                   | 41 |
| Gambar 3. 24 <i>Sequence diagram Logout</i> .....                                    | 42 |
| Gambar 3. 25 <i>ER Diagram</i> Aplikasi Kalkulator Energi .....                      | 43 |
| Gambar 3. 26 Relasi Antar Tabel Aplikasi Kalkulator Energi .....                     | 44 |
| Gambar 4. 1 <i>Database</i> Aplikasi Kalkulator Energi.....                          | 49 |
| Gambar 4. 3 <i>Dashboard user</i> .....                                              | 50 |
| Gambar 4. 4 Fitur <i>Select Panel</i> pada <i>Dashboard User</i> .....               | 50 |
| Gambar 4. 5 <i>Dashboard Admin</i> .....                                             | 51 |
| Gambar 4. 6 Kalkulator Kebutuhan Energi .....                                        | 51 |
| Gambar 4. 7 Tambah Data Kebutuhan Energi.....                                        | 52 |
| Gambar 4. 8 <i>Edit</i> Data Kebutuhan Energi .....                                  | 52 |
| Gambar 4. 9 Kalkulator Kapasitas Baterai.....                                        | 53 |
| Gambar 4. 10 Tambah Data Kapasitas Baterai .....                                     | 53 |
| Gambar 4. 11 Ubah Data Kapasitas Baterai .....                                       | 54 |
| Gambar 4. 12 Kalkulator Daya Panel .....                                             | 54 |
| Gambar 4. 13 Tambah Data Daya Panel .....                                            | 55 |
| Gambar 4. 14 <i>Edit</i> Data Daya Panel .....                                       | 55 |
| Gambar 4. 15 Laman <i>solar panel User</i> .....                                     | 56 |
| Gambar 4. 16 Laman <i>solar panel Admin</i> .....                                    | 56 |
| Gambar 4. 17 Fitur <i>Filter Panel</i> .....                                         | 57 |
| Gambar 4. 18 Laman Perbandingan Panel .....                                          | 57 |

|                                                            |    |
|------------------------------------------------------------|----|
| Gambar 4. 19 Hasil Perbandingan Panel.....                 | 58 |
| Gambar 4. 20 Kalkulator Biaya Instalasi .....              | 58 |
| Gambar 4. 21 Tambah Data Biaya Instalasi.....              | 59 |
| Gambar 4. 22 Rincian Perhitungan Biaya Instalasi.....      | 59 |
| Gambar 4. 23 Detail Biaya Instalasi .....                  | 60 |
| Gambar 4. 24 <i>Edit</i> Biaya Instalasi .....             | 60 |
| Gambar 4. 25 Perubahan Detail Biaya Instalasi.....         | 61 |
| Gambar 4. 26 Laman Panduan Pemasangan .....                | 61 |
| Gambar 4. 27 Laman Panduan Pemasangan 2.....               | 62 |
| Gambar 4. 28 Laman Panduan Pemasangan 3.....               | 62 |
| Gambar 4. 29 Hasil Pengujian Rekomendasi <i>User</i> ..... | 88 |
| Gambar 4. 30 Hasil Pengujian Kendala <i>User</i> .....     | 88 |
| Gambar 4. 31 Masukan <i>User</i> terhadap Aplikasi.....    | 89 |
| Gambar 4. 32 Perbaikan Menu Kurang Familiar .....          | 89 |
| Gambar 4. 33 Perbaikan Fungsi <i>FAQ</i> .....             | 90 |
| Gambar 4. 34 Perbaikan Penamaan Kolom.....                 | 90 |