

KUESIONER ANP – PENILAIAN AHLI

Evaluasi Keberlanjutan Sistem Head-Truck Diesel dan Elektrik di TPS Surabaya

A. Petunjuk Pengisian

Untuk setiap pasangan perbandingan, pilih angka **1–9** sesuai tingkat kepentingan salah satu elemen dibanding elemen lainnya.

Skala Saaty:

1 = Sama penting

3 = Sedikit lebih penting

5 = Lebih penting

7 = Sangat lebih penting

9 = Mutlak lebih penting

$(2,4,6,8 = \textit{Diantara})$

B. PERTANYAAN KUESIONER (SESUAI MODEL ANP)

Setiap baris = 1 pertanyaan yang harus dijawab ahli.

B1. PERBANDINGAN KRITERIA UTAMA

1. Menurut Anda, mana yang lebih penting dalam evaluasi head-truck?

A. Secara Teknis

B. Secara Ekonomi

A diagram of a 1D lattice with 20 sites. The sites are numbered 0 to 9 from left to right, with site 0 in the center. Site 9 is occupied by a particle labeled B. Site 1 is occupied by a particle labeled A.

2. Mana yang lebih penting?

A. Secara Teknis

B. Secara Lingkungan

A horizontal number line with 20 empty boxes for digits. Above the boxes, the numbers 9, 8, 7, 6, 5, 4, 4, 3, 2, 1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 are written from left to right. The leftmost box is labeled 'A' and the rightmost box is labeled 'B'.

3. Mana yang lebih penting?

A. Secara Teknis

B. Secara Sosial

9 8 7 6 5 4 4 3 2 1 0 1 2 3 4 5 6 7 8 9

(A) [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] (B)

4. Mana yang lebih penting?

A. Secara Ekonomi

B. Secara Lingkungan

9 8 7 6 5 4 4 3 2 1 0 1 2 3 4 5 6 7 8 9

(A) [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] (B)

5. Mana yang lebih penting?

A. Secara Ekonomi

B. Secara Sosial

A horizontal number line with integer markers from -9 to 9. Above the line, the integers are labeled: -9, -8, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. Below the line, there are 19 empty rectangular boxes, each aligned with an integer marker. A circle labeled 'A' is positioned below the box for -9. A circle labeled 'B' is positioned below the box for 9.

6. Mana yang lebih penting?

A. Secara Lingkungan

B. Secara Sosial

A horizontal number line with integer markers from -9 to 9. Above each tick mark is its corresponding integer value. Below the number line, at the positions of -9 and 9, are circles containing the letters 'A' and 'B' respectively.

B2.1 Dimensi Teknis

A. Performa

B. Reliabilitas

9 8 7 6 5 4 4 3 2 1 0 1 2 3 4 5 6 7 8 9

(A) [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] (B)

8. Dalam aspek ekonomi, mana yang lebih penting?

A. Biaya investasi

B. Biaya operasional

9 8 7 6 5 4 4 3 2 1 0 1 2 3 4 5 6 7 8 9

(A) □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ (B)

9. Dalam aspek lingkungan, mana yang lebih penting?

A. GWP

B. Konsumsi energi

9 8 7 6 5 4 4 3 2 1 0 1 2 3 4 5 6 7 8 9

(A) □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ (B)

10. Dalam aspek sosial, mana yang lebih penting?

A. Keselamatan

B. Penerimaan operator

B3. PERBANDINGAN ALTERNATIF

(Perbandinga A1 = Diesel vs A2 = EV berdasarkan setiap sub-kriteria)

Dimensi Teknis

11. Untuk aspek Performa: Mana yang lebih unggul?

A. Diesel

B. EV

[illegible]

12. Untuk aspek Reliabilitas: Mana yang lebih unggul?

A. Diesel

B. EV

A horizontal number line with boxes for digits 9, 8, 7, 6, 5, 4, 4, 3, 2, 1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. The left end is labeled 'A' and the right end is labeled 'B'.

Dimensi Ekonomi

13. Untuk Biaya Investasi: Mana yang lebih efisien?

A. Diesel

B. EV

A horizontal number line with boxes for digits 9, 8, 7, 6, 5, 4, 4, 3, 2, 1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. A circled 'A' is at the left end and a circled 'B' is at the right end.

14. Untuk Biaya Operasional (TCO): Mana yang lebih murah?

A. Diesel

B. EV

A horizontal number line with boxes for digits from 9 down to 0, then 1 up to 9. A circled 'A' is at the left end and a circled 'B' is at the right end.

