Pemeringkatan Penyedia Sewa Truk pada Perusahaan Jasa Pengeboran Minyak Bumi menggunakan Data Envelopment Analysis (DEA) dengan Minimum Weight Restriction = Truck Vendors Ranking in Oil Service Company using Data Envelopment Analysis (DEA) with Minimum Weight Restriction

Indira Anindita, author

Abstrak

[ABSTRAK
Semakin bergantungnya perusahaan kepada penyedia jasa truk untuk melakukan operasi transportasi, masalah seperti keterlambatan pengiriman dan kenaikan biaya transportasi domestik pun bermunculan dari pemilihan penyedia sewa truk yang tidak efisien. Karena itulah penting untuk mengevaluasi dan dan memberi peringkat pada penyedia jasa sewa truk berdasarkan nilai efisiensi mereka sebagai dasar untuk keputusan pengiriman dan alokasi penyedia sewa truk untuk tiap wilayah. Data Envelopment Analysis (DEA) dengan minimum weight restriction merupakan metode yang tepat untuk memberi peringkat pada penyedia sewa truk karena metode ini cenderung mencari satu set bobot yang sama untuk seluruh DMU untuk membuat mereka dapat diberi peringkat secara keseluruhan, hal ini memiliki arti bahwa seluruh penyedia sewa truk diberi peringkat pada keadaan yang sama.

Hasil dari penelitian ini adalah peringkat dari penyedia jasa sewa truk yang direpresentasikan dalam sampel rute. Meskipun di beberapa wilayah peringkat di masing-masing rute berbeda, secara garis besar, rute-rute ini tetap dapat merepresentasikan peringkat dalam tingkat wilayah. Peringkat pada tiap wilayah dapat digunakan untuk melihat kekuatan masing-masing penyedia jasa vendor truk yang kemudian dapat dijadikan basis dalam pemilihan dan perencanaan pemilihan penyedia sewa truk.
<hr>
ABSTRACT
Companies become solely dependent on truck vendors to execute its transportation operation, problems like late shipments and increased domestic transportation cost arise from the decision in choosing inefficient vendors. Thus, it’s increasingly important to evaluate and rank every truck vendors based on their efficiency scores as a foundation for shipment decision and vendor’s region allocation. Data Envelopment Analysis (DEA) with minimum weight restriction is an appropriate tool to rank the truck vendors because it tends to seek a common set of weights for all DMUs to make them fully ranked, which means all truck vendors are being ranked in the same condition.

The result of this paper is the ranking of all truck vendors which will be presented in the route samples. Although in some regions, the ranking on each route is different, overall, they can represent the ranking in the regions. The ranking in each region can be used to see the strength of each truck vendors, which later will be used in choosing and planning the use of truck vendors.;Companies become solely dependent on truck vendors to execute its transportation operation, problems like late shipments and increased domestic transportation cost arise from the decision in choosing inefficient vendors. Thus, it’s increasingly important

to evaluate and rank every truck vendors based on their efficiency scores as a foundation for shipment decision and vendor’s region allocation. Data Envelopment Analysis (DEA) with minimum weight restriction is an appropriate tool to rank the truck vendors because it tends to seek a common set of weights for all DMUs to make them fully ranked, which means all truck vendors are being ranked in the same condition.

The result of this paper is the ranking of all truck vendors which will be presented in the route samples. Although in some regions, the ranking on each route is different, overall, they can represent the ranking in the regions. The ranking in each region can be used to see the strength of each truck vendors, which later will be used in choosing and planning the use of truck vendors.;Companies become solely dependent on truck vendors to execute its transportation operation, problems like late shipments and increased domestic transportation cost arise from the decision in choosing inefficient vendors. Thus, it’s increasingly important to evaluate and rank every truck vendors based on their efficiency scores as a foundation for shipment decision and vendor’s region allocation. Data Envelopment Analysis (DEA) with minimum weight restriction is an appropriate tool to rank the truck vendors because it tends to seek a common set of weights for all DMUs to make them fully ranked, which means all truck vendors are being ranked in the same condition.

The result of this paper is the ranking of all truck vendors which will be presented in the route samples. Although in some regions, the ranking on each route is different, overall, they can represent the ranking in the regions. The ranking in each region can be used to see the strength of each truck vendors, which later will be used in choosing and planning the use of truck vendors., Companies become solely dependent on truck vendors to execute its transportation operation, problems like late shipments and increased domestic transportation cost arise from the decision in choosing inefficient vendors. Thus, it’s increasingly important to evaluate and rank every truck vendors based on their efficiency scores as a foundation for shipment decision and vendor’s region allocation. Data Envelopment Analysis (DEA) with minimum weight restriction is an appropriate tool to rank the truck vendors because it tends to seek a common set of weights for all DMUs to make them fully ranked, which means all truck vendors are being ranked in the same condition.

The result of this paper is the ranking of all truck vendors which will be presented in the route samples. Although in some regions, the ranking on each route is different, overall, they can represent the ranking in the regions. The ranking in each region can be used to see the strength of each truck vendors, which later will be used in choosing and planning the use of truck vendors.]