

LAMPIRAN-LAMPIRAN

Results from DEAP Version 2.1

Instruction file = eg2-ins.txt

Data file = eg2-dta.txt

Input orientated DEA

Scale assumption: CRS

Slacks calculated using multi-stage method

EFFICIENCY SUMMARY:

firm te

1 0.893

2 0.871

3 0.910

4 1.000

5 0.976

6 0.968

7 0.968

8 1.000

9 1.000

10 0.927
11 0.805
12 0.812
13 1.000
14 0.890
15 0.783
16 0.747
17 1.000
18 0.866
19 0.763
20 0.710

mean 0.895

SUMMARY OF OUTPUT SLACKS:

firm output:	1	2
1	0.000	554724.189
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	1328808.406
6	0.000	675871.122
7	0.000	418260.343
8	0.000	0.000

9	0.000	0.000
10	1288131.051	0.000
11	0.000	225598.667
12	0.000	144132.501
13	0.000	0.000
14	5141650.859	0.000
15	0.000	0.000
16	0.000	0.000
17	0.000	0.000
18	12146415.285	0.000
19	12020883.013	0.000
20	6848170.684	0.000
mean	1872262.545	167369.761

SUMMARY OF INPUT SLACKS:

firm input:	1	2
1	0.000	0.000
2	0.000	9628.695
3	0.000	1939269.608
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000
7	0.000	0.000

8	0.000	0.000
9	0.000	0.000
10	0.000	0.000
11	0.000	0.000
12	0.000	0.000
13	0.000	0.000
14	0.000	0.000
15	0.000	208451.378
16	0.000	1029465.504
17	0.000	0.000
18	0.000	0.000
19	0.000	0.000
20	0.000	0.000
mean	0.000	159340.759

SUMMARY OF PEERS:

firm peers:

1	13	9
2	9	4
3	9	8
4	4	
5	9	13
6	8	9

7 8 9
8 8
9 9
10 9 17
11 8 9
12 8 9
13 13
14 9 17
15 9 8
16 4 9
17 17
18 9 17
19 4 9
20 4 9

SUMMARY OF PEER WEIGHTS:

(in same order as above)

firm peer weights:

1 0.105 0.715
2 0.630 0.253
3 0.738 0.184
4 1.000
5 0.888 0.047
6 0.316 0.620

7 0.626 0.349
8 1.000
9 1.000
10 0.591 0.357
11 0.056 0.944
12 0.205 0.844
13 1.000
14 0.788 0.303
15 1.070 0.036
16 0.004 1.171
17 1.000
18 0.855 0.457
19 0.038 1.395
20 0.185 1.235

PEER COUNT SUMMARY:

(i.e., no. times each firm is a peer for another)

firm peer count:

1 0
2 0
3 0
4 4
5 0
6 0

7	0
8	6
9	15
10	0
11	0
12	0
13	2
14	0
15	0
16	0
17	3
18	0
19	0
20	0

SUMMARY OF OUTPUT TARGETS:

firm output:	1	2
1	55479062.000	6561246.189
2	58483564.000	7376878.000
3	61810295.000	7200239.000
4	63965361.000	9115337.000
5	63009396.000	7512922.406
6	62786572.000	7166825.122

7	65368281.000	7123761.343
8	66942422.000	6887390.000
9	67151521.000	8049059.000
10	68241820.051	8389181.000
11	67120467.000	7981906.667
12	70369709.000	8202081.501
13	71548944.000	7728520.000
14	77164505.859	9427298.000
15	74241902.000	8857962.000
16	78831722.000	9454287.000
17	80012307.000	10177938.000
18	94047724.285	11541637.000
19	96108231.013	11574650.000
20	94787944.684	11629334.000

SUMMARY OF INPUT TARGETS:

firm input:	1	2
1	8950552.896	1395220.910
2	9298306.610	2855499.449
3	9615892.698	2591779.293
4	10618739.000	6776206.000
5	9973186.369	1653175.571
6	9735939.465	3286183.384
7	10063196.387	4921323.913

8	10217276.000	6851461.000
9	10495863.000	1809274.000
10	12018577.508	1474716.438
11	10477286.128	2090138.942
12	10948520.055	2929536.059
13	13850292.000	976379.000
14	13210501.860	1769673.381
15	11595232.136	2182306.323
16	12323717.820	2142086.442
17	16298373.000	1135178.000
18	16434666.758	2067044.058
19	15045291.360	2780379.598
20	14930221.851	3487760.151

FIRM BY FIRM RESULTS:

Results for firm: 1

Technical efficiency = 0.893

PROJECTION SUMMARY:

variable	original	radial	slack	projected
	value	movement	movement	value
output 1	55479062.000	0.000	0.000	55479062.000
output 2	6006522.000	0.000	554724.189	6561246.189

input 1 10023449.000 -1072896.104 0.000 8950552.896

input 2 1562465.000 -167244.090 0.000 1395220.910

LISTING OF PEERS:

peer lambda weight

13 0.105

9 0.715

Results for firm: 2

Technical efficiency = 0.871

PROJECTION SUMMARY:

variable	original	radial	slack	projected
	value	movement	movement	value
output 1	58483564.000	0.000	0.000	58483564.000
output 2	7376878.000	0.000	0.000	7376878.000
input 1	10676114.000	-1377807.390	0.000	9298306.610
input 2	3289678.000	-424549.856	-9628.695	2855499.449

LISTING OF PEERS:

peer lambda weight

9 0.630

4 0.253

Results for firm: 3

Technical efficiency = 0.910

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	61810295.000	0.000	0.000	61810295.000
output	2	7200239.000	0.000	0.000	7200239.000
input	1	10571971.000	-956078.302	0.000	9615892.698
input	2	4981557.000	-450508.099	-1939269.608	2591779.293

LISTING OF PEERS:

peer lambda weight

9 0.738

8 0.184

Results for firm: 4

Technical efficiency = 1.000

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	63965361.000	0.000	0.000	63965361.000
output	2	9115337.000	0.000	0.000	9115337.000
input	1	10618739.000	0.000	0.000	10618739.000
input	2	6776206.000	0.000	0.000	6776206.000

LISTING OF PEERS:

peer lambda weight

4 1.000

Results for firm: 5

Technical efficiency = 0.976

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	63009396.000	0.000	0.000	63009396.000
output	2	6184114.000	0.000	1328808.406	7512922.406
input	1	10222836.000	-249649.631	0.000	9973186.369
input	2	1694558.000	-41382.429	0.000	1653175.571

LISTING OF PEERS:

peer lambda weight

9 0.888

13 0.047

Results for firm: 6

Technical efficiency = 0.968

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	62786572.000	0.000	0.000	62786572.000
output	2	6490954.000	0.000	675871.122	7166825.122
input	1	10052712.000	-316772.535	0.000	9735939.465
input	2	3393104.000	-106920.616	0.000	3286183.384

LISTING OF PEERS:

peer lambda weight

8 0.316
 9 0.620

Results for firm: 7

Technical efficiency = 0.968

PROJECTION SUMMARY:

variable	original	radial	slack	projected
	value	movement	movement	value
output 1	65368281.000	0.000	0.000	65368281.000
output 2	6705501.000	0.000	418260.343	7123761.343
input 1	10397168.000	-333971.613	0.000	10063196.387
input 2	5084650.000	-163326.087	0.000	4921323.913

LISTING OF PEERS:

peer	lambda	weight
8	0.626	
9	0.349	

Results for firm: 8

Technical efficiency = 1.000

PROJECTION SUMMARY:

variable	original	radial	slack	projected
	value	movement	movement	value
output 1	66942422.000	0.000	0.000	66942422.000
output 2	6887390.000	0.000	0.000	6887390.000

input 1 10217276.000 0.000 0.000 10217276.000

input 2 6851461.000 0.000 0.000 6851461.000

LISTING OF PEERS:

peer lambda weight

8 1.000

Results for firm: 9

Technical efficiency = 1.000

PROJECTION SUMMARY:

variable	original	radial	slack	projected
	value	movement	movement	value
output 1	67151521.000	0.000	0.000	67151521.000
output 2	8049059.000	0.000	0.000	8049059.000
input 1	10495863.000	0.000	0.000	10495863.000
input 2	1809274.000	0.000	0.000	1809274.000

LISTING OF PEERS:

peer lambda weight

9 1.000

Results for firm: 10

Technical efficiency = 0.927

PROJECTION SUMMARY:

variable	original	radial	slack	projected
	value	movement	movement	value

output	1	66953689.000	0.000	1288131.051	68241820.051
output	2	8389181.000	0.000	0.000	8389181.000
input	1	12965714.000	-947136.492	0.000	12018577.508
input	2	1590933.000	-116216.562	0.000	1474716.438

LISTING OF PEERS:

peer lambda weight

9 0.591

17 0.357

Results for firm: 11

Technical efficiency = 0.805

PROJECTION SUMMARY:

variable	original	radial	slack	projected
	value	movement	movement	value
output 1	67120467.000	0.000	0.000	67120467.000
output 2	7756308.000	0.000	225598.667	7981906.667
input 1	13009819.000	-2532532.872	0.000	10477286.128
input 2	2595360.000	-505221.058	0.000	2090138.942

LISTING OF PEERS:

peer lambda weight

8 0.056

9 0.944

Results for firm: 12

Technical efficiency = 0.812

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	70369709.000	0.000	0.000	70369709.000
output	2	8057949.000	0.000	144132.501	8202081.501
input	1	13479643.000	-2531122.945	0.000	10948520.055
input	2	3606798.000	-677261.941	0.000	2929536.059

LISTING OF PEERS:

peer	lambda	weight
8	0.205	
9	0.844	

Results for firm: 13

Technical efficiency = 1.000

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	71548944.000	0.000	0.000	71548944.000
output	2	7728520.000	0.000	0.000	7728520.000
input	1	13850292.000	0.000	0.000	13850292.000
input	2	976379.000	0.000	0.000	976379.000

LISTING OF PEERS:

peer	lambda	weight
13	1.000	

Results for firm: 14

Technical efficiency = 0.890

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	72022855.000	0.000	5141650.859	77164505.859
output	2	9427298.000	0.000	0.000	9427298.000
input	1	14838169.000	-1627667.140	0.000	13210501.860
input	2	1987715.000	-218041.619	0.000	1769673.381

LISTING OF PEERS:

peer	lambda	weight
9	0.788	
17	0.303	

Results for firm: 15

Technical efficiency = 0.783

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	74241902.000	0.000	0.000	74241902.000
output	2	8857962.000	0.000	0.000	8857962.000
input	1	14806255.000	-3211022.864	0.000	11595232.136
input	2	3052821.000	-662063.299	-208451.378	2182306.323

LISTING OF PEERS:

peer lambda weight

9 1.070

8 0.036

Results for firm: 16

Technical efficiency = 0.747

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	78831722.000	0.000	0.000	78831722.000
output	2	9454287.000	0.000	0.000	9454287.000
input	1	16489863.000	-4166145.180	0.000	12323717.820
input	2	4243724.000	-1072172.054	-1029465.504	2142086.442

LISTING OF PEERS:

peer lambda weight

4 0.004

9 1.171

Results for firm: 17

Technical efficiency = 1.000

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value

output	1	80012307.000	0.000	0.000	80012307.000
output	2	10177938.000	0.000	0.000	10177938.000
input	1	16298373.000	0.000	0.000	16298373.000
input	2	1135178.000	0.000	0.000	1135178.000

LISTING OF PEERS:

peer lambda weight

17 1.000

Results for firm: 18

Technical efficiency = 0.866

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	81901309.000	0.000	12146415.285	94047724.285
output	2	11541637.000	0.000	0.000	11541637.000
input	1	18967173.000	-2532506.242	0.000	16434666.758
input	2	2385566.000	-318521.942	0.000	2067044.058

LISTING OF PEERS:

peer lambda weight

9 0.855

17 0.457

Results for firm: 19

Technical efficiency = 0.763

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	84087348.000	0.000	12020883.013	96108231.013
output	2	11574650.000	0.000	0.000	11574650.000
input	1	19712604.000	-4667312.640	0.000	15045291.360
input	2	3642902.000	-862522.402	0.000	2780379.598

LISTING OF PEERS:

peer	lambda	weight
4	0.038	
9	1.395	

Results for firm: 20

Technical efficiency = 0.710

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	87939774.000	0.000	6848170.684	94787944.684
output	2	11629334.000	0.000	0.000	11629334.000
input	1	21038964.000	-6108742.149	0.000	14930221.851
input	2	4914787.000	-1427026.849	0.000	3487760.151

LISTING OF PEERS:

peer	lambda	weight
4	0.185	
9	1.235	