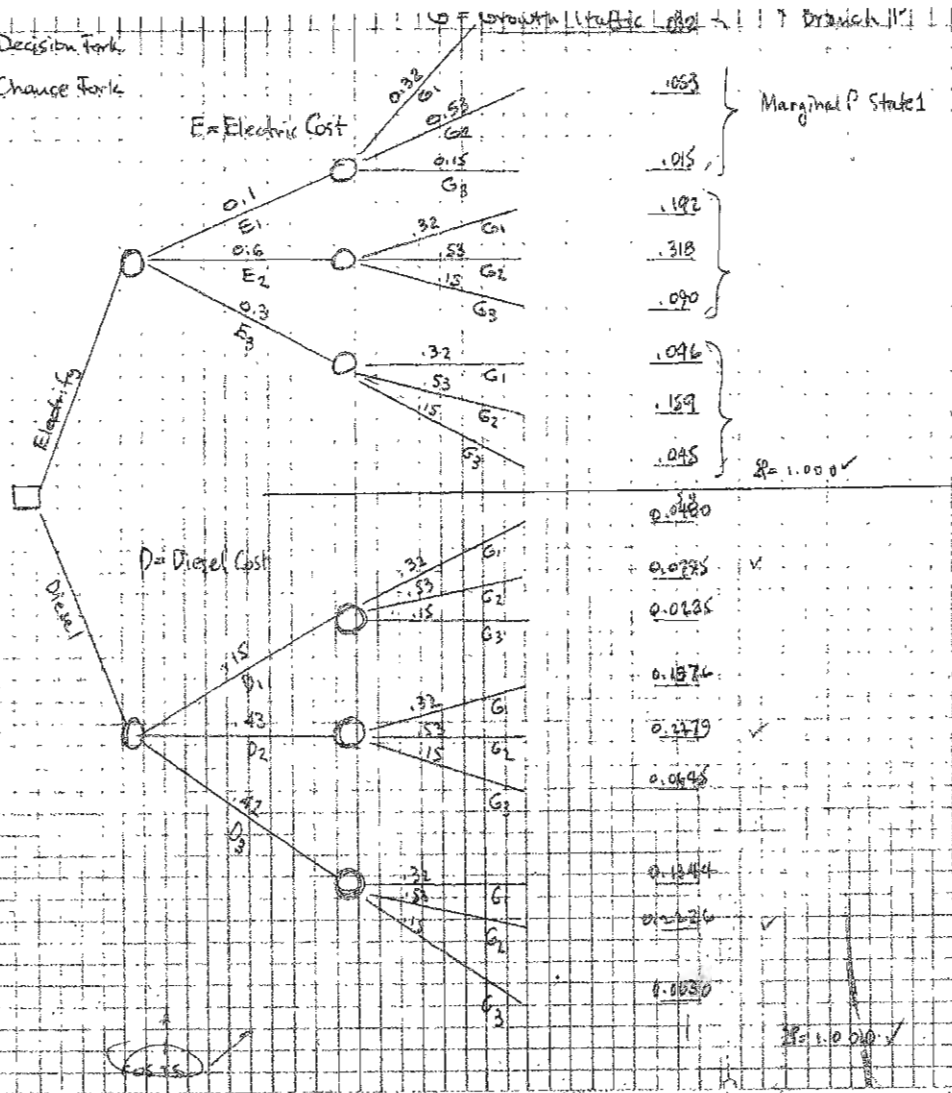


□ Decision Fork
○ Chance Fork



E = Electric Cost

D = Diesel Cost

Marginal P States
 0.053
 0.15
 0.192
 0.318
 0.090
 0.096
 0.159
 0.045
 $\Sigma = 1.000$ ✓

0.0420
 0.0725 ✓
 0.0236
 0.1576
 0.279 ✓
 0.0696
 0.1244
 0.226 ✓
 0.0830
 $\Sigma = 1.000$ ✓

States →
 Outcomes
 G1 (0)(.92)
 G2 (0)(.9)
 G3 (1)(.15)
 Marg Prob State $\Sigma =$

Marg Prob Outcome

Project by following to end.

Electric Power Consumption: 259,625,000 kWh/yr. @ 7.75 mills/kwh (January 1974)
 Diesel Fuel Consumption: 14,869,432 gal/yr @ 12.4 ¢/gal

Decision Tree Branches (P)	Year												
	Year 1 1974	Year 2 Cost	Year 1 EMV	Year 3 Cost	Year 3 EMV	Year 4 EMV	Year 5 EMV	Year 6 EMV	Year 7 EMV	Year 8 EMV	9	10	11
E ₁ G ₁ 0.032	2012094	2052407	65079	2093691	66990								
E ₁ G ₂ 0.053		2076783	110008	2143489	413605								
E ₁ G ₃ 0.015		2123262	31849	2240572	33608								
E ₂ G ₁ 0.192	2012094	2062698	396038	2111175	405998								
E ₂ G ₂ 0.318		2087085	663693	2164871	688429	714087	740701	768307	799942	798638	828408	859277	891804
E ₂ G ₃ 0.090		2112699	190143	2240517	201646								
E ₃ G ₁ 0.096	2012094	2072909	198999	2132863	205014								
E ₃ G ₂ 0.189		2097417	333489	2186358	347681								
E ₃ G ₃ 0.245		2144389	96498	2285382	102842								
D ₁ G ₁ 0.0400	1843809	1908895	91627	1976279	94881								
D ₁ G ₂ 0.0795		1931464	153551	2023286	100851								
D ₁ G ₃ 0.0225		1974719	44431	2114924	47886								
D ₂ G ₁ 0.1376	1843809	1936967	266527	2034832	239993								
D ₂ G ₂ 0.2379		1959868	446654	2083232	474768	508450	536417	570181	608277	644271	689771	737875	789376
D ₂ G ₃ 0.0646		2003759	129242	2127585	130484								
D ₃ G ₁ 0.1344	1843809	1965039	264101	2094240	281466								
D ₃ G ₂ 0.2326		1988171	442589	2144652	477366								
D ₃ G ₃ 0.0620		2032799	128066	2241161	141193								

DATE APPLIED TO PROJECT OF AWARD

01 # 10 | 20 | 10 | 000010 | 004128



1	2	3	4	5	6	7	8	9	10	11	12	13
12	13	14	15	16	17	18	19	20				
924521	958978	994719	1031791	1070747	1110135	1151510	1194427	1238943				
822332	878088	939119	987527	1048781	1115232	1186674	1260781	1340088				

21 | 15 | 20 | 30 | 400610
 25 | 15 | 704128

YEARLY PROJECTED INCREASE - PER CENT
(UPPER FIGURE IS ESTIMATED
PROBABILITY OF OCCURRENCE.)

VARIABLE

COST OF ELECTRIC POWER	0.10 pr	0.60	0.30
	0.5%	1.0	1.5
COST OF DIESEL FUEL	0.15	0.43	0.42
	2.0	3.5	5.0
GROWTH OF TRAFFIC	0.32	0.53	0.15
	1.5	2.7	5.0

TRIAL NUMBER	ANNUAL GROWTH RATES			PROBABILITY
	ELECT POWER	DIESEL FUEL	TRAFFIC	
1	0.5	2.0	1.5	0.00480 ✓
2	0.5	2.0	2.7	0.00795 ✓
3	0.5	2.0	5.0	0.00225 ✓
4	0.5	3.5	1.5	0.01376 ✓
5	0.5	3.5	2.7	0.02279 ✓
6	0.5	3.5	5.0	0.00645 ✓
7	0.5	5.0	1.5	0.01314 ✓
8	0.5	5.0	2.7	0.02226 ✓
9	0.5	5.0	5.0	0.00630 ✓
10	1.0	2.0	1.5	0.02880 ✓
11	1.0	2.0	2.7	0.04770 ✓
12	1.0	2.0	5.0	0.01350 ✓
13	1.0	3.5	1.5	0.08256 ✓
14	1.0	3.5	2.7	> 0.13674 ✓
15	1.0	3.5	5.0	0.03870 ✓
16	1.0	5.0	1.5	0.08064 ✓
17	1.0	5.0	2.7	> 0.13356 ✓
18	1.0	5.0	5.0	0.03780 ✓
19	1.5	2.0	1.5	0.01440 ✓
20	1.5	2.0	2.7	0.02385 ✓
21	1.5	2.0	5.0	0.00675 ✓
22	1.5	3.5	1.5	0.04128 ✓
23	1.5	3.5	2.7	0.06837 ✓
24	1.5	3.5	5.0	0.01935 ✓
25	1.5	5.0	1.5	0.04032 ✓
26	1.5	5.0	2.7	0.06678 ✓
27	1.5	5.0	5.0	0.01890 ✓

$\Sigma p = 1.00000$

POWER
FUEL
GROWTH

SAMPLE 2 of 4
RECORD SHEET FOR TRIAL RUNS

Trial # 1

EP 0.5 DF 2.0 TG 1.5 Prob. 0.00485

CASH SAVINGS - 1000'S

Year	Unadjusted	Adjusted for Probability
1	23	0.110
2	40	0.192
3	67	0.321
4	80	0.384
5	90	0.432
6	100	0.480
7	110	0.528
8	125	0.600
9	130	0.624
10	140	0.672

Trial # 2

EP 0.5 DF 2.0 TG 2.7 Prob. 0.00795

Cash Savings - 1000'S

Year	Unadjusted	Adj. for Prob.
1	(42)	(0.334)
2	(22)	(0.175)
3	(10)	(0.079)
4	16	0.127
5	40	0.318
6	50	0.397
7	70	0.552
8	90	0.715
9	110	0.875
10	130	1.034

DLW 9/22/72

IKHL	1	2	ETC
POWER RATE	0.5	0.5	
FUEL RATE	2.0	2.0	
GROWTH RATE	7.5	2.7	
PROBABILITY	0.00480	0.00795	

ANNUAL SAVINGS - UNADJUSTED
(ARRANGE IN INCREASING ORDER
OF SAVINGS LEFT TO RIGHT)

3 of 3

NOTE: • SUM OF PROBABILITIES TO LEFT OF AND INCLUDING SELECTED COLUMN GIVES PROBABILITY RESULT WILL BE EQUAL TO OR LESS THAN VALUES IN SELECTED COLUMN.

• SUM OF PROBABILITIES TO RIGHT OF AND INCLUDING SELECTED COLUMN GIVES PROBABILITY RESULTS WILL BE EQUAL TO OR GREATER THAN VALUES IN SELECTED COLUMN.

DW 4/21/72

ANNUAL SAVINGS - ADJUSTED FOR PROBABILITY
 (SUM OF ADJUSTED SAVINGS GIVES MOST PROBABLE RETURN - ORDER NOT IMPORTANT)

TRIAL No. PROBABILITY ADJUSTED SAVINGS				SUM OF ADJUSTED SAVINGS
<p>To ADJUST SAVINGS MULTIPLY VALUE BY THE ASSIGNED PROBABILITY.</p>			<p>27 COLUMNS</p> <hr/> <p>NOTE: - <u>SUM OF ADJUSTED SAVINGS</u> <u>GIVES THE MOST PROBABLE</u> <u>RESULT IF PROJECT IS</u> <u>ADOPTED - GIVEN THE</u> <u>ASSIGNED GROWTH FACTORS</u> <u>AND PROBABILITIES.</u></p> <p>(NOTE: - THIS SUM CAN BE CHECKED AGAINST TABULATION OF UNADJUSTED VALUES)</p>	

DWS 4/21/72