

SOUTHERN INTERTIE

presentation by Don Zoerb to

Matanuska Electric Board on 7/8/03

Southern Intertie Project

Overhead 138kV Transmission Line from Nikiski to Pt. Possession

*(Using existing Tesoro pipeline Right of Way along
north coast of Kenai Peninsula)*

Submarine Cable crossing from Pt. Possession to Pt. Woronzoff

*(Pt. Woronzoff is near Stevens International Airport;
point of interconnection with existing CEA transmission
facilities)*

State of Alaska appropriated \$46,800,000 in 1993

"Interest Issue" Related to 1993 Grant Transfer and Administration

Agreement

(Issue was resolved in 2003)

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Southern Intertie Project

Estimated Initial Project Cost	118,800,000
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Original Grant	46,800,000
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Less: Expended to Date (EIS)	7,000,000
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Remaining Grant	39,800,000	(39,800,000)
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Difference - To Be Funded By Utilities	79,000,000
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Estimated Project Life - Overhead Portion	38 Years
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Estimated Project Life - Submarine Portion	23 Years
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Estimated Cost to Replace Submarine Cable in 23 Years	92,300,000
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Southern Intertie Project

Initial Allocation of Shares

Chugach	30.23%
MEA	14.19%
Homer	11.60%
ML&P	22.43%
GVEA	20.11%
Seward	1.44%
	<hr/> <u>100.00%</u> =====

Irrevocable "Decision Date" = July 15, 2003

Abandoned Shares Subject to Voluntary/Mandatory Reallocation

CEA's Economic Evaluations

**March, 1998 Public Study -
Future Benefits** **143,500,000**

**March, 1998 Secret Study -
Future Benefits** **56,700,000**

Difference - Public vs. Secret Studies, Same
Month, Same Consultant **86,800,000**

*Note: Existence of the Secret Study was disclosed by CEA's
Board of Directors in December, 2002*

November, 2002 Preliminary Evaluation

Net Present Value **21,648,000**

Assumed Construction Cost **100,000,000**

Assumed Grant Funding **70,728,000**

*Note: Current Estimated Construction Cost is \$118,800,000
and Grant Funding is approximately 39,800,000*

June, 2003 Updated Economic Evaluation

Net Present Value (Negative) **† (6,000,000)**

*Note: Includes \$300,600,000 of future "Reliability Benefits"
(\$46,000,000 present value) based on following values
of unserved energy:*

CEA	\$14.00	per kWh
Seward	\$17.00	per kWh
MEA	\$12.00	per kWh
ML&P	\$14.00	per kWh
GVEA	\$14.00	per kWh
Homer	\$16.00	per kWh

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MEA's Review of CEA's Economic Evaluations

CEA's November, 2002 Preliminary Evaluation

CEA Claimed Net Present Value **21,648,000**

**MEA Calculated Negative Present
Value** **(34,132,000)**

CEA's June, 2003 Updated Economic Evaluation

CEA Claims Negative Present Value **(6,000,000)**

**MEA Calculates Negative Present
Value** **(58,800,000)**

CEA's Southern Intertie Economic Evaluation

June, 2003

*******Costs (\$millions)*******

*******Benefits (\$millions)*******

Initial Cost & SubCable Repl.	Initial Cost & SubCable Repl.			Production			115kV Line			Net Savings (Detriment)
	O&M Costs	Grant Funds	Total Cost	Cost Savings	Reliability Benefits	Avoided Outages	Rebuild Savings	Total Benefits		
2003	0.5	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004	10.0	0.0	-10.0	0.0	0.0	0.0	0.6	5.0	5.6	5.6
2005	35.0	0.0	-29.2	5.8	0.0	0.0	0.6	5.0	5.6	-0.2
2006	65.0	0.0	0.0	65.0	0.0	0.0	0.6	5.0	5.6	-59.4
2007	8.3	0.4	0.0	8.7	0.8	2.7	0.8	5.0	9.3	0.5
2008	0.0	0.4	0.0	0.4	0.8	2.8	0.8	0.5	4.9	4.5
2009	0.0	0.5	0.0	0.5	0.8	3.0	0.9	0.5	5.1	4.7
2010	0.0	0.5	0.0	0.5	0.8	3.1	0.9	0.5	5.3	4.8
2011	0.0	0.5	0.0	0.5	0.8	3.2	0.9	0.5	5.5	5.0
2012	0.0	0.5	0.0	0.5	0.9	3.4	0.9	0.5	5.7	5.2
2013	0.0	0.5	0.0	0.5	0.9	3.6	1.0	0.5	5.9	5.4
2014	0.0	0.5	0.0	0.5	0.9	3.7	1.0	-4.5	1.1	0.6
2015	0.0	0.5	0.0	0.5	0.9	3.9	0.3	-4.5	0.7	0.1
2016	0.0	0.6	0.0	0.6	1.0	4.1	0.3	-4.5	0.9	0.3
2017	0.0	0.6	0.0	0.6	1.0	4.3	0.3	-4.5	1.1	0.5
2018	0.0	0.6	0.0	0.6	1.0	4.5	0.4	0.0	5.8	5.3
2019	0.0	0.6	0.0	0.6	1.0	4.7	0.4	0.0	6.1	5.5
2020	0.0	0.6	0.0	0.6	1.1	4.9	0.4	0.0	6.3	5.7
2021	0.0	0.6	0.0	0.6	1.1	5.1	0.4	0.0	6.6	6.0
2022	0.0	0.7	0.0	0.7	1.1	5.4	0.4	0.0	6.9	6.2
2023	0.0	0.7	0.0	0.7	1.2	5.6	0.4	0.0	7.2	6.5
2024	0.0	0.7	0.0	0.7	1.2	5.9	0.4	0.0	7.5	6.8
2025	0.0	0.7	0.0	0.7	1.2	6.1	0.4	0.0	7.8	7.1
2026	0.0	0.7	0.0	0.7	1.3	6.4	0.4	0.0	8.1	7.4
2027	0.0	0.7	0.0	0.7	1.3	6.7	0.5	0.0	8.5	7.7
2028	0.0	0.8	0.0	0.8	1.3	7.0	0.5	0.0	8.8	8.1
2029	92.3	0.8	0.0	93.1	1.4	7.4	0.5	0.0	9.2	-83.9
2030	0.0	0.8	0.0	0.8	1.4	7.7	0.5	0.0	9.6	8.8
2031	0.0	0.8	0.0	0.8	1.5	8.1	0.5	0.0	10.0	9.2
2032	0.0	0.9	0.0	0.9	1.5	8.4	0.5	0.0	10.5	9.6
2033	0.0	0.9	0.0	0.9	1.5	8.8	0.5	0.0	10.9	10.0
2034	0.0	0.9	0.0	0.9	1.6	9.2	0.6	0.0	11.4	10.5
2035	0.0	0.9	0.0	0.9	1.6	9.7	0.6	0.0	11.9	10.9
2036	0.0	1.0	0.0	1.0	1.7	10.1	0.6	0.0	12.4	11.4
2037	0.0	1.0	0.0	1.0	1.7	10.6	0.6	0.0	12.9	11.9
2038	0.0	1.0	0.0	1.0	1.8	11.1	0.6	0.0	13.5	12.5
2039	0.0	1.0	0.0	1.0	1.8	11.6	0.6	0.0	14.0	13.0
2040	0.0	1.1	0.0	1.1	1.9	12.1	0.7	0.0	14.7	13.6
2041	0.0	1.1	0.0	1.1	1.9	12.7	0.7	0.0	15.3	14.2
2042	0.0	1.1	0.0	1.1	2.0	13.3	0.7	0.0	16.0	14.8
2043	0.0	1.2	0.0	1.2	2.0	13.9	0.7	0.0	16.6	15.5
2044	0.0	1.2	0.0	1.2	2.1	14.6	0.7	0.0	17.4	16.2
2045	0.0	1.2	0.0	1.2	2.1	15.2	0.7	0.0	18.1	16.9
2046	0.0	1.3	0.0	1.3	2.2	15.9	0.8	0.0	18.9	17.7
	211.1	31.0	-39.7	202.4	54.1	300.6	25.4	5.0	385.1	182.7

Present Value: 109.9

5.7

-34.8

80.9

9.9

46.0

7.7

11.4

74.9

-6.0

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Negative Present Value

CEA's Southern Intertie Economic Evaluation

June, 2003

Adjusted for Depreciation, Cost of Capital, Rebuild Timing, Revised Life on Submarine Cable, No Reliability Benefits

***** Costs (\$millions) *****

***** Benefits (\$millions) *****

Deprec Expense	Cost of Capital	O&M Costs	Total Cost	Production			115kV Line			Net Savings (Detriment)
				Cost Savings	Reliability Benefits	Avoided Outages	Rebuild Savings	Total Benefits		
2003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.6
2005	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.6
2006	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.6
2007	2.1	4.1	0.4	6.6	0.8	0.0	0.8	0.0	1.6	-5.1
2008	2.1	4.1	0.4	6.6	0.8	0.0	0.8	0.5	2.1	-4.5
2009	2.1	4.1	0.5	6.6	0.8	0.0	0.9	0.5	2.2	-4.5
2010	2.1	4.1	0.5	6.7	0.8	0.0	0.9	0.5	2.2	-4.5
2011	2.1	4.1	0.5	6.7	0.8	0.0	0.9	0.5	2.2	-4.4
2012	2.1	4.1	0.5	6.7	0.9	0.0	0.9	0.5	2.3	-4.4
2013	2.1	4.1	0.5	6.7	0.9	0.0	1.0	0.5	2.3	-4.4
2014	2.1	4.1	0.5	6.7	0.9	0.0	1.0	0.5	2.4	-4.3
2015	2.1	4.1	0.5	6.7	0.9	0.0	0.3	0.5	1.8	-5.0
2016	2.1	4.1	0.6	6.7	1.0	0.0	0.3	0.5	1.8	-4.9
2017	2.1	4.1	0.6	6.8	1.0	0.0	0.3	0.5	1.8	-4.9
2018	2.1	4.1	0.6	6.8	1.0	0.0	0.4	0.0	1.4	-5.4
2019	2.1	4.1	0.6	6.8	1.0	0.0	0.4	0.0	1.4	-5.4
2020	2.1	4.1	0.6	6.8	1.1	0.0	0.4	0.0	1.4	-5.4
2021	2.1	4.1	0.6	6.8	1.1	0.0	0.4	0.0	1.5	-5.3
2022	2.1	4.1	0.7	6.8	1.1	0.0	0.4	0.0	1.5	-5.3
2023	2.1	4.1	0.7	6.9	1.2	0.0	0.4	0.0	1.6	-5.3
2024	2.1	4.1	0.7	6.9	1.2	0.0	0.4	0.0	1.6	-5.3
2025	2.1	4.1	0.7	6.9	1.2	0.0	0.4	0.0	1.7	-5.2
2026	2.1	4.1	0.7	6.9	1.3	0.0	0.4	0.0	1.7	-5.2
2027	6.4	8.7	0.7	15.8	1.3	0.0	0.5	0.0	1.8	-14.1
2028	6.4	8.7	0.8	15.9	1.3	0.0	0.5	0.0	1.8	-14.1
2029	6.4	8.7	0.8	15.9	1.4	0.0	0.5	0.0	1.9	-14.0
2030	6.4	8.7	0.8	15.9	1.4	0.0	0.5	0.0	1.9	-14.0
2031	6.4	8.7	0.8	15.9	1.5	0.0	0.5	0.0	2.0	-14.0
2032	6.4	8.7	0.9	16.0	1.5	0.0	0.5	0.0	2.0	-13.9
2033	6.4	8.7	0.9	16.0	1.5	0.0	0.5	0.0	2.1	-13.9
2034	6.4	8.7	0.9	16.0	1.6	0.0	0.6	0.0	2.1	-13.9
2035	6.4	8.7	0.9	16.0	1.6	0.0	0.6	0.0	2.2	-13.8
2036	6.4	8.7	1.0	16.1	1.7	0.0	0.6	0.0	2.3	-13.8
2037	6.4	8.7	1.0	16.1	1.7	0.0	0.6	0.0	2.3	-13.8
2038	6.4	8.7	1.0	16.1	1.8	0.0	0.6	0.0	2.4	-13.7
2039	6.4	8.7	1.0	16.1	1.8	0.0	0.6	0.0	2.4	-13.7
2040	6.4	8.7	1.1	16.2	1.9	0.0	0.7	0.0	2.5	-13.7
2041	6.4	8.7	1.1	16.2	1.9	0.0	0.7	0.0	2.6	-13.6
2042	6.4	8.7	1.1	16.2	2.0	0.0	0.7	0.0	2.7	-13.6
2043	6.4	8.7	1.2	16.3	2.0	0.0	0.7	0.0	2.7	-13.5
2044	6.4	8.7	1.2	16.3	2.1	0.0	0.7	0.0	2.8	-13.5
2045	4.4	4.5	1.2	10.1	2.1	0.0	0.7	0.0	2.9	-7.2
2046	4.4	4.5	1.3	10.2	2.2	0.0	0.8	0.0	3.0	-7.2
	166.4	247.1	31.0	444.5	54.1	0.0	25.4	5.0	84.5	-360.0

Present Value:

26.8	46.2	5.7	78.8	9.9	0.0	7.7	2.5	20.0	-58.8
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Negative Present Value

Southern Intertie Project

Conclusion

No discernable benefits to MEA members.

Multi-million dollar negative financial impact.

Significant exposure to cost overruns.

Would require future rate increases to fund negative financial impacts.