

SOBOBA BAND OF LUISENO INDIANS

Developer

OPTIMUM GROUP



Optimum Group LLC 215 N. Marengo Avenue, Suite 362 Pasadena, CA 91101

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Soboba History

- Tribal members of Cahuilla and Luiseno Ancestry
- Recognized as establishedIndian community since 1815



Formally organized in 1883 by executive order of President Chester Arthur





Soboba History

- Tribe consisting of 1200 members
- > 7000 acres of land
- ▶ 400 acres of residential developments







Economic Development

- Resource Planning
- Environmental Assessment & Planning
- Economic & Real Estate Development

Master Planning & Sustainability

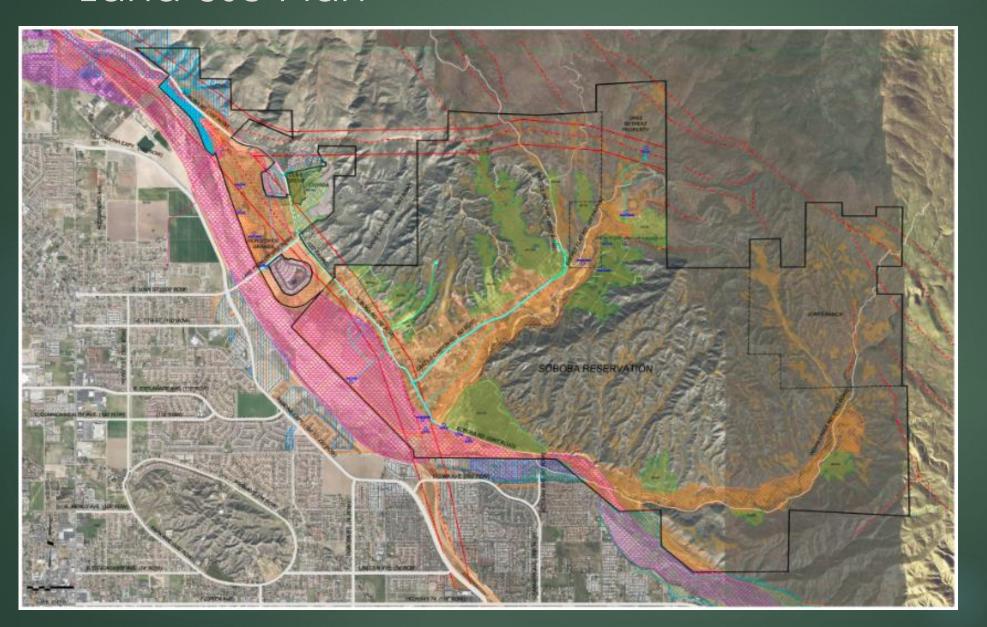
- Land
 - Land Planning & Development
 - Schools
 - Hydrology & Flood Control
- Renewables & Sustainability
 - Wastewater Treatment For Irrigation Of Golf Course
 - Solar Energy
 - Battery Storage

Solar Feasibility Study

- Carry out geographical research & analysis
- Perform site evaluation
- Conduct preliminary research on available solar programs
- Perform economic analysis
- Propose strategy

Geographical Research & Analysis

Land Use Plan



Planning Area A



- 1) Noli High
- 2) Ball Field #1 & Sports Complex
- 3) Ball Field # 2
- 4) D.W. # 4 (water pumps)
- 5) D.W. # 3 (water pumps)
- 6) I.W. # 2 (water pumps citrus)
- 7) D.W. # 1 (water pumps)

Planning Area B



- 8) Administration Building
- 9) Pre-School
- 10) Tribal Hall
- 11) Public Works a & b

Planning Area C



- 12) Casino Meter #1
- 13) Casino Meter #2

Planning Area D



- 4) Oaks Meter #1 a,b & c
- 5) Oaks Meter #2
- 16) S.W. # 1 oaks

Energy Evaluation

Energy Consumption

Planning Areas & Meters	2 Year kwh Usage	Average Annual kwh Usage	MW DC PV Size For 100% Offset	MW AC PV Size For 100% Offset
Planning Area A	3,178,190	1,589,095	1.059	0.848
Ball Filed # 1 a	135,295	67,648	0.045	0.036
Ball Filed # 1 b	394,301	197,151	0.131	0.105
Ball Filed # 2	34,469	17,235	0.011	0.009
D.W. # 1	76,020	38,010	0.025	0.020
D.W. # 3	847,589	423,795	0.283	0.226
D.W. # 4	547,086	273,543	0.182	0.146
I.W. # 2	739,336	369,668	0.246	0.197
Noli High	404,094	202,047	0.135	0.108
Planning Area B	991,397	495,699	0.330	0.264
Administration Building	647,596	323,798	0.216	0.173
Pre-School	135,222	67,611	0.045	0.036
Public Works a	82,706	41,353	0.028	0.022
Public Works b	25,630	12,815	0.009	0.007
Tribal Hall	100,243	50,122	0.033	0.027
Planning Area C	22,199,558	11,099,779	7.400	5.920
Casino Meter # 1	15,998,039	7,999,020	5.333	4.266
Casino Meter # 2	6,201,519	3,100,760	2.067	1.654
Planning Area D	500,471	250,236	0.167	0.133
Oaks Meter # 1 a	33,265	16,633	0.011	0.009
Oaks Meter # 1 b	92,043	46,022	0.031	0.025
Oaks Meter # 1 c	254,008	127,004	0.085	0.068
Oaks Meter # 2	41,927	20,964	0.014	0.011
S.W. # 1 Oaks	79,228	39,614	0.026	0.021

Solar Programs & Regulations

- Net Energy Metering (NEM)
- Virtual Net Energy Metering (VNEM)
- Re-MAT PPA with Edison

Overall Solar Footprint



Financial Incentives

- Federal Investment Tax Credit up to 30% of the cost of solar project for qualified investors
- Department Of Energy grant available for Native American solar projects
- a) For communities up to \$1 m
- b) For facilities up to \$0.5m for

Strategy

Strategy

Step 1 – Immediate Opportunity

System 1 – 1.257 MW DC (1 MW AC) VNEM for planning areas A,B & D

Step 2 – Further Studies, Planning & Negatiation With Edison

System 2 – 2.626 MW DC (2.1 MW AC) stand alone system for planning area C

Or

System 3 – 5+ MW microgrid in conjunction with storage