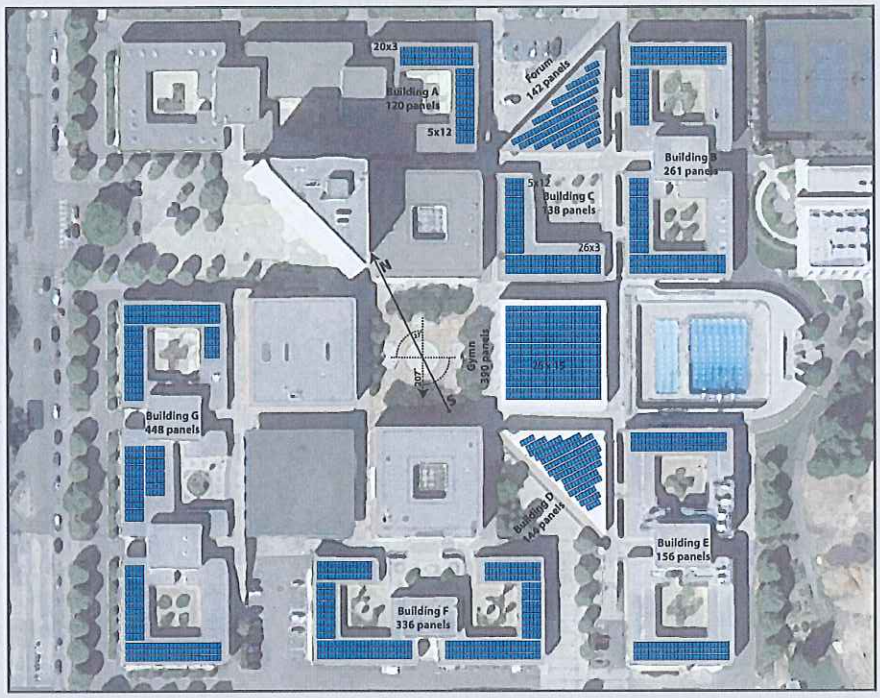
Laney College *Solar Projects*

Approximate System Size:	832 kW
Campus Rooftops: 670 kW; Field House Carport & Roof: 162 kW	
Production:	1,155,000 kWh
Rooftop Campus PV Budget	*868,000 kWh*
Field House Carport & Roof Cost	*327,000 kWh*
Total System Budget/Cost:	$6,400,000
Rooftop Campus PV Budget	*$4,500,000*
Field House Carport & Roof Cost	*$1,900,000*
Annual Savings Cost:	$394,000/year
Rooftop Campus PV Savings	*$296,000*
Field House Carport & Roof Savings	*$ 98,000*



Buildings Hosting Solar PV

- Buildings A, B, C, D, E, F, G
- Forum, Athletic Field House

- Last year, Laney used 7,300,000 kWh of electricity
- Complete system will offset Laney's electricity use by 16.3%
- Engineering study showed rooftop capable of fully handling system weight
- Financing through Measure A Solar Allocation
- Job-Shadowing and Curriculum Development to be included in RFP
- CCLC† provides technical assistance on RFP & Contractor Selection
- Expected completion: March 2011 (Field House), August 2011 (Campus Rooftops)
- Part of larger Energy Conservation vision that includes cogeneration to heat Laney Pool

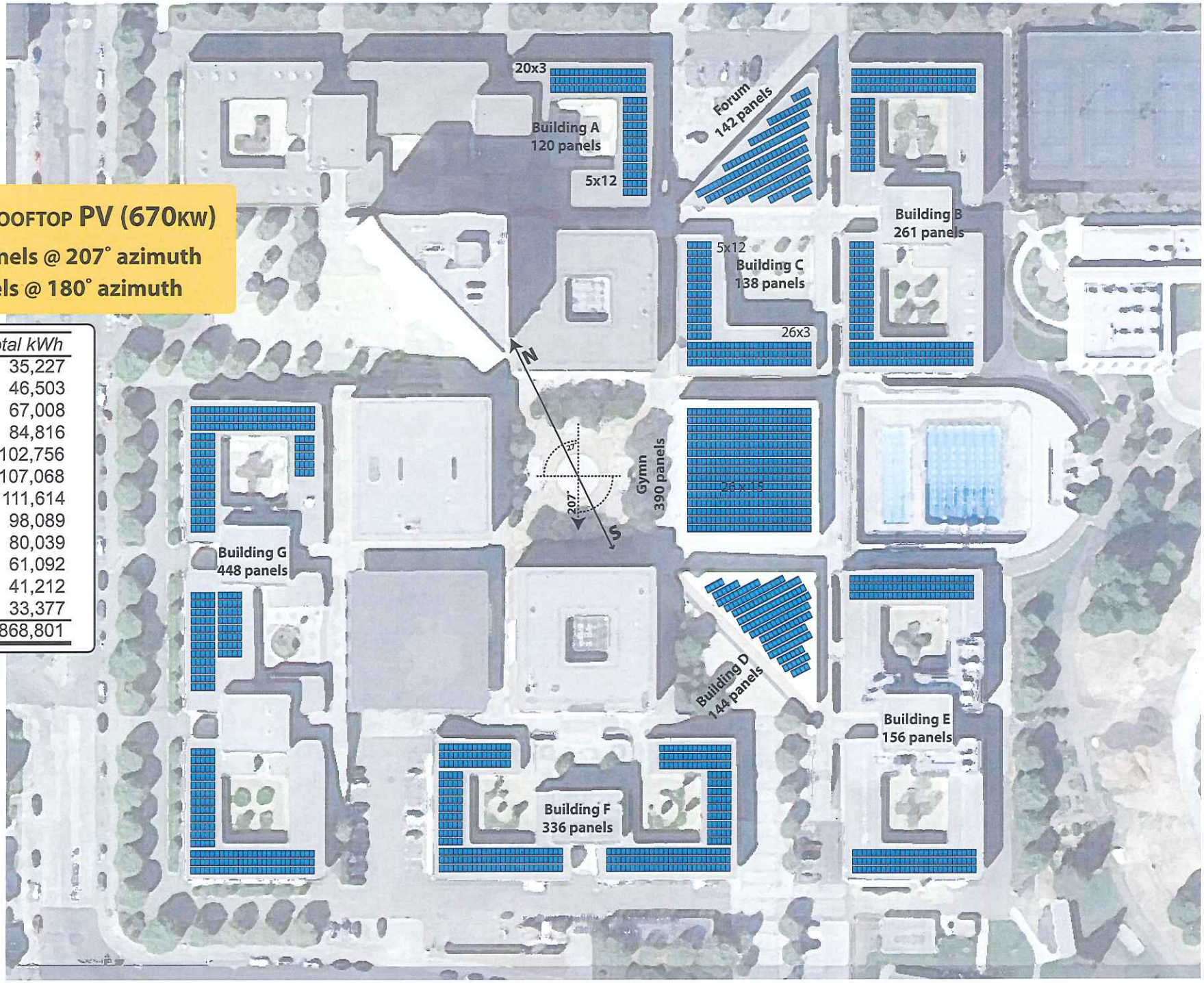
† *Community College Leauge of California*

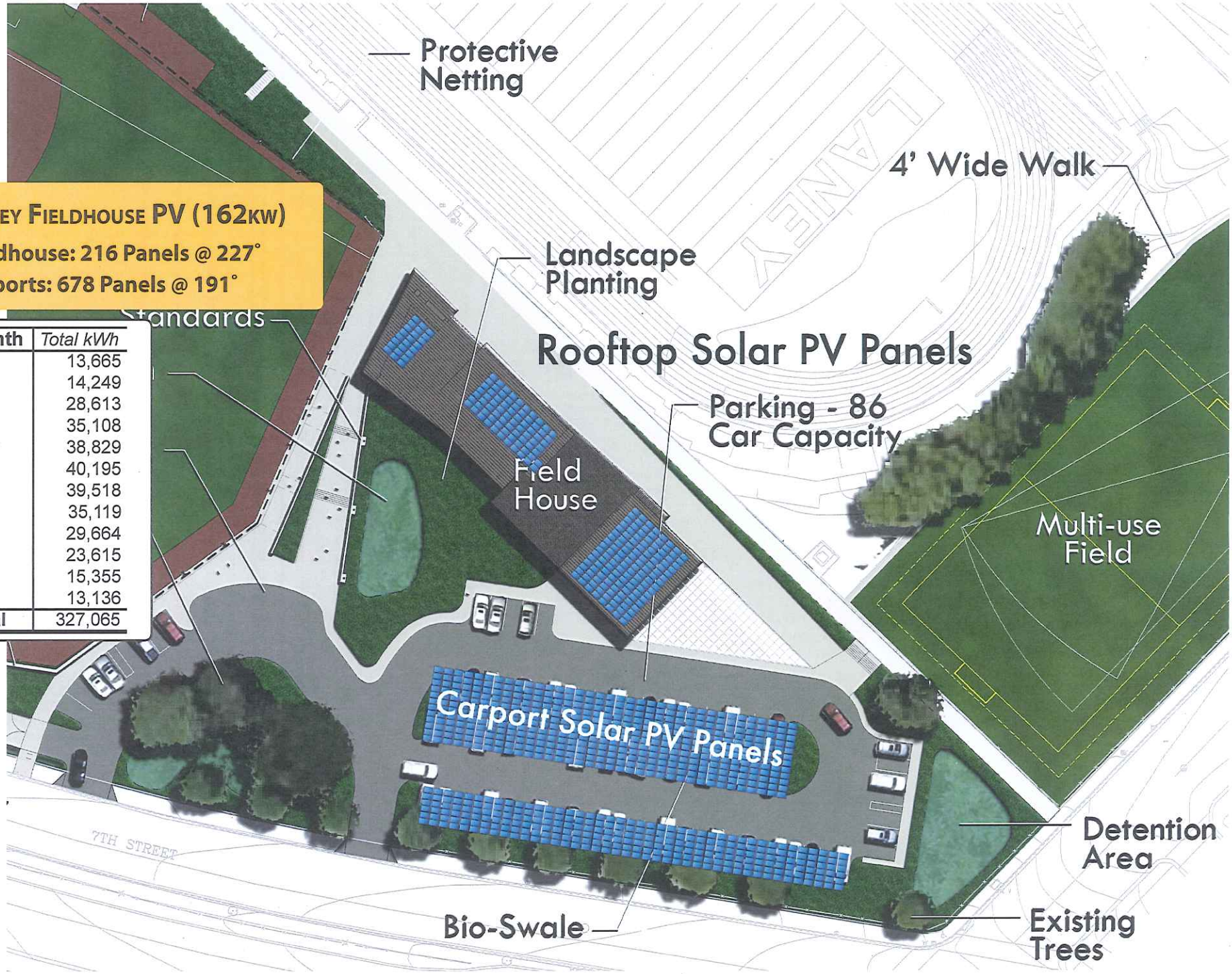
Laney Rooftop PV (670kw)

1,849 Panels @ 207° azimuth

286 Panels @ 180° azimuth

Month	*Total kWh*
Jan	35,227
Feb	46,503
Mar	67,008
Apr	84,816
May	102,756
Jun	107,068
Jul	111,614
Aug	98,089
Sep	80,039
Oct	61,092
Nov	41,212
Dec	33,377
Total	868,801



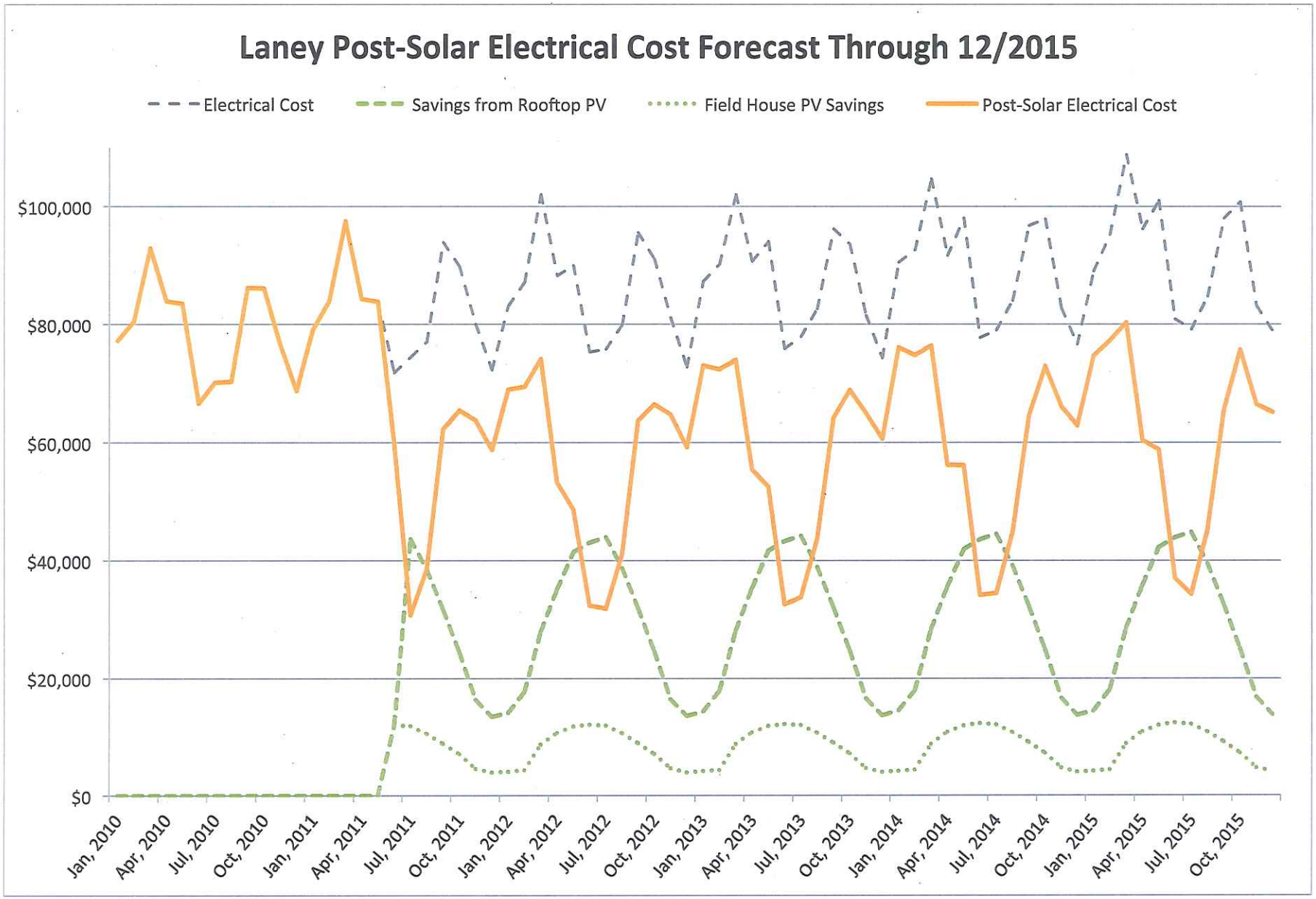


LANEY FIELDHOUSE PV (162KW)

Fieldhouse: 216 Panels @ 227°

Carports: 678 Panels @ 191°

Month	*Total kWh*
Jan	13,665
Feb	14,249
Mar	28,613
Apr	35,108
May	38,829
Jun	40,195
Jul	39,518
Aug	35,119
Sep	29,664
Oct	23,615
Nov	15,355
Dec	13,136
Total	327,065


Laney Post-Solar Electrical Cost Forecast Through 12/2015
Electrical Cost
Savings from Rooftop PV
Field House PV Savings
Post-Solar Electrical Cost
$100,000
$80,000
$60,000
$40,000
$20,000
$0
Jan, 2010
Apr, 2010
Jul, 2010
Oct, 2010
Jan, 2011
Apr, 2011
Jul, 2011
Oct, 2011
Jan, 2012
Apr, 2012
Jul, 2012
Oct, 2012
Jan, 2013
Apr, 2013
Jul, 2013
Oct, 2013
Jan, 2014
Apr, 2014
Jul, 2014
Oct, 2014
Jan, 2015
Apr, 2015
Jul, 2015
Oct, 2015

Laney College Rooftop Solar PV Timeline

Developed by Jack Lin, Sustainable Peralta Organizer. jlin@peralta.edu. (510) 701-2062

Mo/Year	Actions	Lead	Parties Involved	Status
8/2010	Concept Development	J. Lin	S. Ikharo, Laney Leadership	100%
	Rebate Application	J. Lin	S. Ikharo, PG&E	100%
9/2010	Cost analysis	J. Lin	(none)	100%
	Concept Adoption	J. Lin	S. Ikharo, Laney Leadership	100%
	Budget development	J. Lin	M. Sennette, J. Flatley	100%
10/2010	Roof-top Engineering studies	J. Lin	Structural engineers	100%
	Rebate Confirmation	J. Lin	PG&E	100%
12/2010	Concept Revisions, Scope Confirmation	S. Ikharo	Laney Leadership, DGS staff	100%
	Begin draft of RFP	J. Lin	C. Murley, J. Banisadr, D. Simon	100%
1/2011	First draft of RFP reviewed	J. Lin	C. Murley, J. Banisadr, D. Simon	
	RFP approved for release	J. Lin	S. Ikharo	
	RFP Release	J. Banisadr	S. Ikharo, J. Lin, C. Murley,	
1/31/2011	Board agenda item placeholder	J. Lin	C. Reil	
2/2011	RFP responses received	J. Banisadr	K. Muldrow	
	Review RFP responses	J. Banisadr	J. Lin, C. Murley, evaluators	
	Compose Board Packet	J. Lin	C. Reil, S. Ikharo	
3/2011	Present recommendation to the Board	S. Ikharo	J. Lin, C. Murley	
	Commence Contract Negotiations	C. Brero-Gow	S. Ikharo, T. Nguyen, D. Simon.	
4/2011	Pre-construction meetings	T. Tornabene	Laney leadership, J. Lin	
5/2011	Construction commences	T. Tornabene	Vendor	
	Interconnection	T. Tornabene	PG&E	
8/2011	Ribbon-Cutting	K. Neal	S. Ikharo, J. Lin	