Pursuant to Assembly Bill 361 members of the Torrance Environmental Quality and Energy Conservation Commission and staff will participate in this meeting via teleconference or other electronic means.

**PARTICIPATE BEFORE THE MEETING** by emailing EnvironmentalCommission@TorranceCA.Gov and writing "Public Comment" in the subject line. In the body of the email include the item number and/or title of the item with your comments.

**MEMBERS OF THE PUBLIC MAY VIEW AND PARTICIPATE IN THE MEETING** via Zoom at: <a href="https://zoom.us">https://zoom.us</a> or (720) 707-2699 and using the following credentials:

Meeting ID: 991 4547 8767 Passcode: 324924

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the City Clerk's office at (310) 618-2780. Notification 48 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting. [28CFR35.102-35.104 ADA Title II]

Direct questions or concerns to the Commission Liaison at (310) 618-5930 or individual department head prior to submission to the Commission. Parties will be notified if the complaint will be included on a subsequent agenda.

# TORRANCE ENVIRONMENTAL QUALITY AND ENERGY CONSERVATION COMMISSION AGENDA JUNE 02, 2022 REGULAR MEETING 7:00 P.M. VIA TELECONFERENCE OR OTHER ELECTRONIC MEANS

### ENVIRONMENTAL QUALITY AND ENERGY CONSERVATION COMMISSION MAY TAKE ACTION ON ANY ITEM LISTED ON THE AGENDA

- 1. CALL MEETING TO ORDER/ROLL CALL
- 2. FLAG SALUTE:
- 3. REPORT OF STAFF ON THE POSTING OF THE AGENDA

The agenda was posted on the Public Notice Board at 3031 Torrance Bl. and on the City's Website on Thursday, May 26, 2022

- 4. ANNOUNCEMENT OF WITHDRAWN, DEFERRED, AND/OR SUPPLEMENTAL ITEMS
- 5. ORAL COMMUNICATIONS (Limited to a 15 minute period)

This portion of the meeting is reserved for public comment on items not on the agenda under the subject matter of the Environmental Quality and Energy Conservation Commission. Under the Ralph M. Brown Act, Commissioners cannot act on items raised during public comment but may respond briefly to statements made or questions posed; request clarification; or refer the item to staff. Speakers under this Public Comment period will have no longer than 3 minutes per speaker. Please do not use Bluetooth or speaker devices, mute the volume on your television or other electronic devices and speak clearly. Your phone call to the Commission meeting will be recorded as part of the meeting. By staying on the line and making public comment during the meeting, you are agreeing to have your phone call recorded.

#### 6. CONSENT CALENDAR

Matters listed under the Consent Calendar are considered routine and will be enacted by one motion and one vote. There will be no separate discussion of these items. If discussion is desired, that item will be removed by a Commissioner from the Consent Calendar and considered separately.

OLL CALL: [	Dewitt	Endo-Roberts	Love	Montgomerv	Seferian	Stecker	Chairperson Wright	
							· · · · · · · · · · · · · · · · · · ·	0/0000
							TEQECC 6/0	12/2022

#### **6A. APPROVAL OF MINUTES: APRIL 07, 2022**

#### 7. ADMINISTRATIVE MATTERS

7A. PRESENTATION BY DEREK BERZ, TORRANCE MEMORIAL MEDICAL CENTER – GREEN/SUSTAINABLE BUILDING.

7B. PRESENTATION BY ENVIRONMENTAL QUALITY COMMISSIONER DEWITT – PHASED-IN APPROACH TO GREEN LANDSCAPING IMPLEMENTATION FOR TORRANCE.

Recommendation of the Community Development Director that the Commission provide feedback regarding the landscape proposal.

- 7C. ENVIRONMENTAL COMMISSION CLIMATE SMART AWARD SUB COMMITTEE TO PROVIDE SUMMARY OF LIBRARY COMMISSION MEETING.
- 7D. ENVIRONMENTAL COMMISSION CLIMATE SMART AWARD SUB COMMITTEE TO PROVIDE SUMMARY OF CULTURAL ARTS COMMISSION MEETING.
- 7E. ENVIRONMENTAL COMMISSION CLIMATE SMART AWARD SUB COMMITTEE TO PROVIDE SUMMARY OF WATER COMMISSION MEETING.
- 8. PUBLIC HEARINGS NONE SCHEDULED
- 9. COMMISSION ORAL COMMUNICATIONS
- 10. ADJOURNMENT

**10A.** Adjournment of Torrance Environmental Quality and Energy Conservation Commission Meeting, tentatively, to Thursday, July 07, 2022, at 7:00 p.m.

ROLL CALL: Dewitt \_\_\_\_\_ Endo-Roberts \_\_\_\_\_ Love\_\_\_\_ Montgomery \_\_\_\_\_ Seferian \_\_\_\_\_ Stecker\_\_\_\_ Chairperson Wright \_\_\_\_\_ TEQECC 6/02/2022

### MINUTES OF A REGULAR MEETING OF THE ENVIRONMENTAL QUALITY AND ENERGY CONSERVATION COMMISSION

#### 1. CALL TO ORDER

The Torrance Environmental Quality and Energy Conservation Commission convened in a regular session at 7:10 p.m. on Thursday, April 7, 2022, via teleconference.

#### **ROLL CALL**

Present: Commissioners Dewitt, Endo-Roberts, Love, Montgomery,

Seferian, Stecker, and Chairperson Wright.

Absent: None.

Also Present: Senior Environmental Quality Officer Sharron Jones,

Environmental Quality Officer Nora Duncan, Planning & Environmental Manager Oscar Martinez, and Community

Development Director Michelle Ramirez.

#### 2. FLAG SALUTE

Commissioner Seferian led the Pledge of Allegiance.

### 3. REPORT OF STAFF ON THE POSTING OF THE AGENDA

Environmental Quality Officer Nora Duncan reported that the agenda was posted on the Public Notice Board at 3031 Torrance Boulevard.

- 4. WITHDRAWN, DEFERRED, AND/OR SUPPLEMENTAL ITEMS None.
- 5. ORAL COMMUNICATIONS None.
- 6. CONSENT CALENDAR

#### 6A. APPROVAL OF MINUTES: MARCH 3, 2022

<u>MOTION:</u> Commissioner Love moved to approve the March 3, 2022, minutes as presented. Commissioner Endo-Roberts seconded the motion; a roll call vote reflected 7-0 approval.

#### 7. **ADMINISTRATIVE MATTERS**

### 7A. <u>ENVIRONMENTAL COMMISSION CLIMATE SMART AWARD SUBCOMMITTEE TO</u> PROVIDE SUMMARY OF PARKS AND RECREATION MEETING

Chairperson Wright and Commissioner Endo-Roberts stated that the subcommittee was well received, and the presentation was successful.

### 7B. COMMISSIONER DEWITT TO PROVIDE SUMMARY OF THE TORRANCE CHAMBER OF COMMERCE MEETING

Commissioner Dewitt shared a summary of his March 10, 2022, presentation of the Climate Smart Awards at the Torrance Chamber of Commerce Meeting.

### 7C. <u>ENVIRONMENTAL COMMISSION TO REVIEW DRAFT OF NOMINATION FORM FOR CLIMATE SMART AWARD PROGRAM.</u>

Environmental Quality Officer Nora Duncan presented a presentation on the nomination form regarding the Climate Smart Award Program. Staff has reformatted and updated nomination form based on the Commissions notes. Staff recommends that the Commission review the final draft for approval; once approved, Staff can start working on a fillable online version.

Members of the Commission spoke.

<u>MOTION:</u> Commissioner Endo-Roberts moved to approve the revised nomination form. Commissioner Seferian seconded the motion; a roll call vote reflected 6-1 approval (Commissioner Stecker abstaining).

8. **PUBLIC HEARINGS** – None.

#### 9. COMMISSION ORAL COMMUNICATIONS

Members of the Commission spoke:

- Commissioner Montgomery stated that he sent members of the Commission articles regarding climate studies and shared volunteer opportunities:
  - South Bay Parkland Conservancy restoration of the Bluffs.
  - Habitat for the Endangered butterfly and other native species conservation.
  - Protect the Environment 20 members needed for club, there are currently 10. Inquiries can be sent to <a href="mailto:jim.f.monty@gmail.com">jim.f.monty@gmail.com</a>.
- Commissioner Endo-Roberts shared her experience at the South Bay Cities COG 22<sup>nd</sup> Annual General Assembly and announced an Earth Day Event, Saturday, April 9, 2022, at Anderson Park – 19101 Wilmington Avenue, Carson, CA 90746.
- Commissioner Dewitt acknowledged upcoming elections and debates and shared an analysis and proposal for a Phased-In Electrified Landscaping Maintenance Program for Torrance Parks.
- Chairperson Wright shared his experience at the South Bay Cities COG 22<sup>nd</sup> Annual General Assembly.

Commissioner Montoya with the Parks and Recreation Commission spoke.

Staff shared the 2022 Wyland Water Challenge taking place April 1 - 31, 2022; individuals can take the pledge through the City's website or mywaterpledge.com. Staff announced a candidate forum on May 5, 2022, at the Toyota Meeting Hall.

### 10. <u>ADJOURNMENT</u>

<u>MOTION:</u> At 7:55 p.m., Commissioner Endo-Roberts moved to adjourn the meeting to Thursday, June 2, 2022, at 7:00 p.m. The motion was seconded by Commissioner Love; a roll call vote reflected 7-0 approval.

###



## Analysis and Proposal to Phase-in an Electrified Landscaping Maintenance Program for Torrance Parks

For peer review by City Staff, Parks and Recreation Commission, and Environmental Quality and Energy Conservation Commission

3/9/2022

In alignment with attaining the City of Torrance's environmental stewardship goals outlined in the 2021 Strategic Plan and the recommendation of the Environmental Quality and Energy Conservation Commission to implement zero emission landscaping equipment and best practices, this analysis results in a recommended proposal of phased-in implementation that allows the city to begin with the smallest parks and expand cognizant of technology, area size, and resources. Initially the strategy has been organized and sorted in ascending order of park size. Furthermore, this analysis uses the approach of cumulative park acreage by clustering parks to achieve a right-sized balance with equipment limits and recharging estimates within workday hours. The phase-in policy is outlined for initial success and ramps up as knowledge and logistics are matured with experience. Additionally, there is flexibility for refinement by prioritizing park proximity to residential locations or logistics focused on order of operation to achieve overall efficiency in manpower resources and transportation, toward 100% achievement.

•	City of Torrance Parks (Map, Locations, and Sizes)	Page 2-3
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- Analysis of Park Size and Right-Size Equipment
   Page 4
- Policy Proposals and Respective Benefits
   Page 5
- Financial Info (Resources, Costs) Page 6

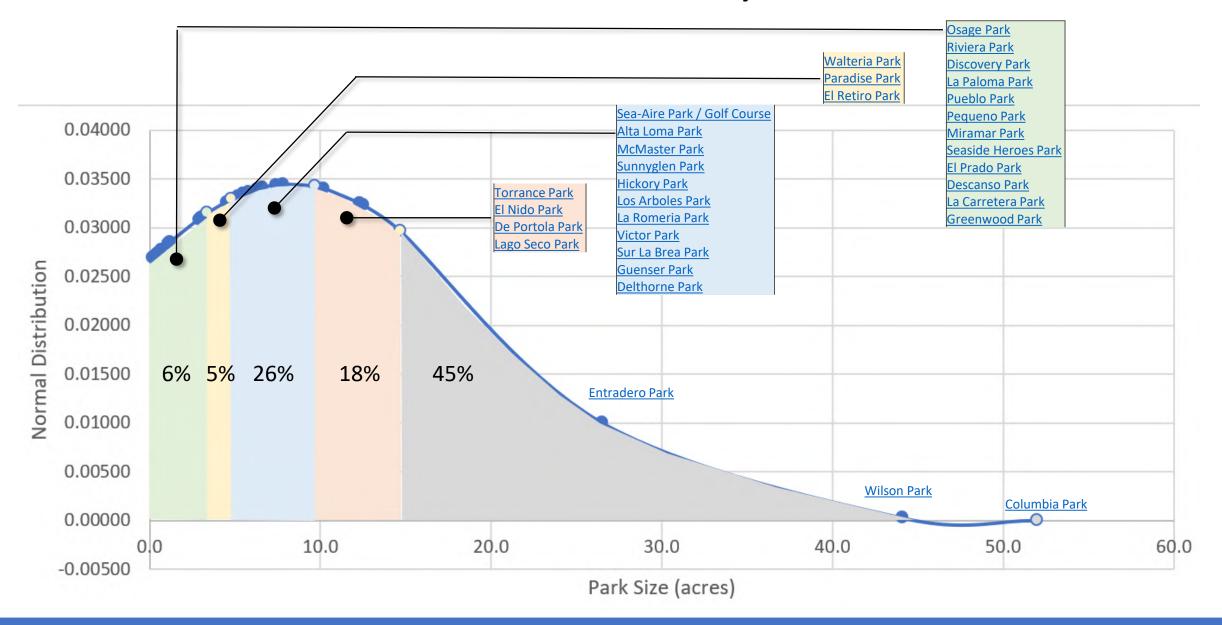
### City of Torrance Parks (Locations and Sorted by Ascending Acreage)



Map ID	Park Name	Acres	% of Total	Address
<u>21</u>	Osage Park	0.2	0.1%	17008 Osage Avenue
				Catalina Avenue and Palos Verdes
<u>25</u>	<u>Riviera Park</u>	0.3	0.1%	<u>Boulevard</u>
<u>6</u>	Discovery Park	0.4	0.1%	Ocean Avenue and 226th Street
<u>15</u>	<u>La Paloma Park</u>	0.4	0.1%	Lomita Blvd. east of Anza
<u>24</u>	<u>Pueblo Park</u>	0.5	0.2%	2252 Del Amo Boulevard
<u>23</u>	Pequeno Park	0.7	0.3%	Regina Avenue and 180th Street
20	Miramar Park	1.1	0.4%	201 Paseo de la Playa
27	Seaside Heroes Park	1.2		22851 Anza Avenue
	El Prado Park	2.9	1.1%	El Prado Avenue
<u>8</u> <u>5</u>	Descanso Park	3.0	1.1%	2500 Descanso Way
<u>14</u>	<u>La Carretera Park</u>	3.1	1.1%	<u>2040 186th Street</u>
<u>11</u>	<u>Greenwood Park</u>	3.4	1.2%	1520 Greenwood Avenue
<u>32</u>	Walteria Park	4.5	1.6%	3855 242nd Street
<u>22</u>	Paradise Park	4.7	1.7%	5006 Lee Street
<u>9</u>	El Retiro Park	4.8	1.7%	126 Vista del Parque
<u>26</u>	Sea-Aire Park / Golf Course	5.2	1.9%	22730 Lupine Drive
<u>1</u>	<u>Alta Loma Park</u>	5.5	2.0%	26126 Delos Drive
<u>19</u>	McMaster Park	5.5	2.0%	3624 Artesia Boulevard
<u>28</u>	<u>Sunnyglen Park</u>	5.5	2.0%	5525 Del Amo Boulevard
<u>13</u>	Hickory Park	5.8	2.1%	<u>2850 232nd Street</u>
<u>18</u>	Los Arboles Park	6.3	2.3%	5101 Calle de Ricardo
<u>16</u>	<u>La Romeria Park</u>	6.6	2.4%	19501 Inglewood Avenue
<u>31</u>	<u>Victor Park</u>	6.6	2.4%	4727 Emerald Street
<u>29</u>	<u>Sur La Brea Park</u>	7.4	2.7%	23610 Cabrillo Avenue
<u>12</u>	Guenser Park	7.8	2.8%	17800 Gramercy Place
<u>4</u>	<u>Delthorne Park</u>	9.7	3.5%	3401 Spencer Street
<u>30</u>	Torrance Park	10.2	3.7%	2001 Santa Fe Avenue
<u>7</u> <u>3</u>	El Nido Park	12.3		18301 Kingsdale Avenue
	<u>De Portola Park</u>	12.5		25615 Lazy Meadow Drive
<u>17</u>	<u>Lago Seco Park</u>	14.7		3920 235th Street
<u>10</u>	Entradero Park	26.5		5500 Towers Street
<u>33</u>	Wilson Park	44.1		2200 Crenshaw Boulevard
<u>2</u>	<u>Columbia Park</u>	52.0	18.9%	<u>4045 190th Street</u>

https://www.torranceca.gov/services/parks

### **Distribution of Park Sizes in the City of Torrance**



The distribution of park sizes show opportunity to introduce electrified landscaping in the smallest parks and expand to match equipment and other factors.

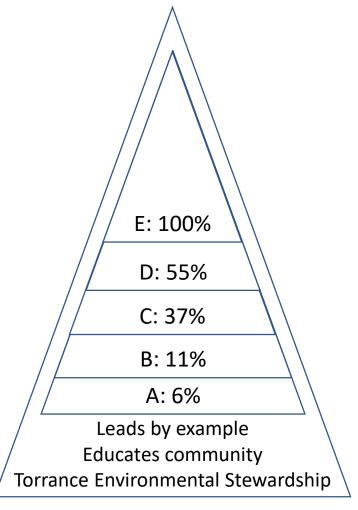
### **Analysis of Park Size and Right-Size Equipment**

		Analysis	s of Park Size and Overall Contribution			Co	nfiguration Solutions for Equipment	Limit
				Grass Coverage	Maintain			30 acre (2 mower + 1 BATT)
Park Name	Acres	% of Total	Address		Coverage (est.)	Right-size Mower	15 acre = (1 Mower with 1 BATT)	or (1 mower + 2 BATT)
Osage Park	0.2	0.1%	17008 Osage Avenue	60%	100%			
<u>Riviera Park</u>	0.3	0.1%	Catalina Avenue and Palos Verdes Boulevard	100%	100%			
<u>Discovery Park</u>	0.4	0.1%	Ocean Avenue and 226th Street	30%	100%	2 acres or less (42")		
<u>La Paloma Park</u>	0.4	0.1%	Lomita Blvd. east of Anza	100%	100%			
<u>Pueblo Park</u>	0.5	0.2%	2252 Del Amo Boulevard	75%	100%_			
Pequeno Park	0.7	0.3%	Regina Avenue and 180th Street	75%	100%	2 acres or less (42")	15 acre = equipment limit	
Miramar Park	1.1	0.4%	201 Paseo de la Playa	100%	100%	2 acres or less (42 )	15 acre = equipment illilit	
Seaside Heroes Park	1.2	0.4%	22851 Anza Avenue	33%	100%	2 acres or less (42")		30 acre = equipment limit
El Prado Park	2.9	1.1%	<u>El Prado Avenue</u>	100%	100%	4 acres or less (52")		
Descanso Park	3.0	1.1%	2500 Descanso Way	100%	100%	4 acres or less (52")		
<u>La Carretera Park</u>	3.1	1.1%	2040 186th Street	90%	100%	4 acres or less (52")		
<u>Greenwood Park</u>	3.4	1.2%	1520 Greenwood Avenue	60%	100%	4 acres or less (52")		
Walteria Park	4.5	1.6%	<u>3855 242nd Street</u>	80%	100%			
Paradise Park	4.7	1.7%	5006 Lee Street	90%	100%	15 acre	15 acre = equipment limit	
El Retiro Park	4.8	1.7%	126 Vista del Parque	60%	100%			
Sea-Aire Park / Golf Course	5.2	1.9%	22730 Lupine Drive	100%	100%			
<u>Alta Loma Park</u>	5.5	2.0%	26126 Delos Drive	100%	100%	15 acre	15 acre = equipment limit	
McMaster Park	5.5	2.0%	3624 Artesia Boulevard	60%	100%			30 acre = equipment limit
Sunnyglen Park	5.5	2.0%	5525 Del Amo Boulevard	100%	100%	15	15 and anning and limit	
Hickory Park	5.8	2.1%	<u>2850 232nd Street</u>	100%	100%	15 acre	15 acre = equipment limit	
Los Arboles Park	6.3	2.3%	5101 Calle de Ricardo	100%	100%	1F a ava	15 agra – aguinmant limit	
<u>La Romeria Park</u>	6.6	2.4%	19501 Inglewood Avenue	90%	100%	15 acre	15 acre = equipment limit	20 page – aguing ant limit
Victor Park	6.6	2.4%	4727 Emerald Street	90%	100%	1F a ava	15 agra – aguinmant limit	30 acre = equipment limit
<u>Sur La Brea Park</u>	7.4	2.7%	23610 Cabrillo Avenue	80%	100%	15 acre	15 acre = equipment limit	
Guenser Park	7.8	2.8%	17800 Gramercy Place	100%	100%	15 acre	15 acre = equipment limit	20 sero – aquinment limit
<u>Delthorne Park</u>	9.7	3.5%	3401 Spencer Street	100%	100%	15 acre	15 acre = equipment limit	30 acre = equipment limit
Torrance Park	10.2	3.7%	2001 Santa Fe Avenue	90%	100%	15 acre	15 acre = equipment limit	20 acro – aquinment limit
El Nido Park	12.3	4.5%	18301 Kingsdale Avenue	100%	100%	15 acre	15 acre = equipment limit	30 acre = equipment limit
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Lago Seco Park	14.7	5.3%	3920 235th Street	80%	100%	15 acre	15 acre = equipment limit	30 acre = equipment limit
Entradero Park	26.5	9.6%	5500 Towers Street	40%	100%	gasoline	2 mowers or 2 BATT	
Wilson Park	44.1	16.0%	2200 Crenshaw Boulevard	100%	100%	gasoline	3 mowers or 3 BATT	
<u>Columbia Park</u>	52.0	18.9%	<u>4045 190th Street</u>	100%	100%	gasoline	4 mowers or 4 BATT	

Clustering parks by sizes toward an aggregate that matches equipment limits of mower and battery combination.

### **Policy Proposals and Respective Benefits**

Policy	<u> </u>	Concept	Benefit
	•	All parks under 4 acres will be maintained with electric-powered equipment.	
A	•	6.2% of total Torrance park acreage.	(Enter GHG
	•	Achieve with right-sized mowers or a single larger unit.	reduction)
	•	Pilot program for experience, best practices, logistics to ramp up.	
	•	All parks under 5 acres will be maintained with electric-powered equipment.	
В	•	11.3% of total Torrance park acreage.	(Enter GHG
	•	Achieve with larger equipment for multiple locations per day.	reduction)
	•	Pilot program for logistics of battery charging and man-hour management.	
	•	All parks under 10 acres will be maintained with electric-powered	
C		equipment.	(Enter GHG
	•	37% of total Torrance park acreage.	reduction)
	•	Full week usage of mowers at multiple locations.	
	•	All parks under 15 acres will be maintained with electric-powered	
D		equipment.	(Enter GHG
	•	55% of total Torrance park acreage.	reduction)
	•	Best match for commercial equipment and battery cycle.	
		All parks will be maintained with electric-powered equipment.	(Enter GHG
E		100% of total Torrance park acreage.	reduction)
		100/0 Of total forfalice park acreage.	reduction



**Core Foundation** 

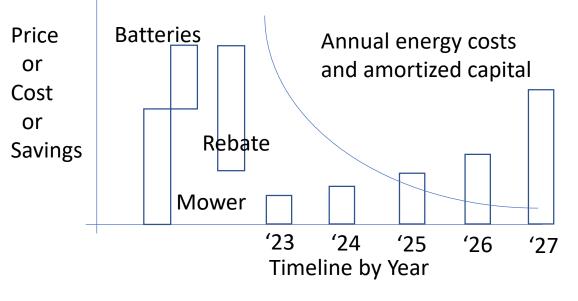
### **Financial Info and Cost of Ownership**

https://www.aqmd.gov/home/programs/community/lawn-and-garden-equipment https://onbase-pub.aqmd.gov/sAppNet/UnityForm.aspx?key=UFKey https://www.aqmd.gov/home/research/publications/november-december-2019/lawn-garden-equipment



Cost of Ownership Examples:

- Estimate electricity costs
- Compare to fuel costs
- Effectiveness (GHG mitigation/\$)



Equipment Price	Battery Charging	
(Commercial Mowers)	Time	Capability
\$5,500	2 hrs charge	2 acres or less
\$7,000	4 hrs charge	4 acres or less
\$22,000 → \$6,500 after rebate	7 hrs charge	15 acres

Perhaps an angle investor, or community sourced sponsorship as was done for the Toyota Sports Complex field and El Prado park paving.

Grants and incentives can be researched our regional air quality management district and cost of ownership can be projected compared to business as usual.

	Analysis	of Park Siz	Analysis of Park Size and Overall Contribution			Config	Configuration Solutions for Equipment Limit	nt Limit
	L			Grass	Maintain		A 140	30 acre (2 mower + 1
Park Name	Acres	% of Total	Address	Coverage	Coverage	Right-size Mower	LS acre = (1 NOWER WITH 1 BATT)	BATT) or (1 mower + 2
				(est.)	(est.)		11100	BATT)
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McMaster Park	5.5	2.0%	3624 Artesia Boulevard	%09	100%			limit
Sunnyglen Park	5.5	2.0%	5525 Del Amo Boulevard	100%	100%	15 acre	15 acre = equipment limit	
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/ictor Park	9.9	2.4%	4727 Emerald Street	%06	100%	15 acre	15 acre = equipment limit	limit
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El Nido Park	12.3	•	4.5% 18301 Kingsdale Avenue	100%	100%	15 acre	15 acre = equipment limit	limit
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Policy Proposal	Concept	Benefit
	All parks under 4 acres will be maintained with electric-powered equipment.	6.2% of total park area
∢	Achieve with right-sized mowers or a single larger unit.	GHG emission est.
	Pilot program for experience, best practices, logistics to ramp up.	
	All parks under 5 acres will be maintained with electric-powered equipment.	11.3% of total park area
В	Achieve with larger equipment for multiple locations per day.	GHG emission est.
	Pilot program for logistics of battery charging and man-hour management.	
J	All parks under 10 acres will be maintained with electric-powered equipment.	37% of total park area
,	Full week usage of mowers at multiple locations.	GHG emission est.
c	All parks under 15 acres will be maintained with electric-powered equipment.	55% of total park area
2	Best match for commercial equipment and battery cycle.	GHG emission est.
ū	All parks will be maintained with electric-powered equipment.	100% of total park area
		*** ***,**** 010

Mean Std Dev Norm Dist

Note 1: Parks are in ascending order by area (acres) based on Torrance websites info. Note 2: Logistics should be refined for proximity and total travel, man-hours, emission reduction effectiveness.

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275.4 100% \$5,500 2 hrs chart 2 acres or less \$7,000 4 hrs chart 4 acres or less

Total