The City of SAN DIEGO

Office of Sustainability

SC Shadpour Consulting Engineers, Inc.

Municipal Energy Strategy Plan (MESP) Update

Municipal Energy Strategy Plan

Primary MESP Objective

- Climate Action Plan Roadmap to:
  - 15% Reduction in Municipal Energy Use by 2020 (180,584 MMBTU)
  - 25% Reduction in Municipal Energy Use by 2035 (376,287 MMBTU)
- Details projects and policies

GOAL:		
Reduce municipal energy consumption.		

ACTION 1.2:		PHASE 1
Present to City Council for consideration a Municipal Energy Strategy and Implementation Plan.		

TARGET:	GHG REDUCTIONS:	
	2020	**2035**
Reduce energy consumption at municipal facilities by 15% by 2020 and an additional 25% by 2035.	11,580 MT/CO$_2$e	9,011 MT/CO$_2$e

MESP Report and Schedule Summary

1) Municipal Energy Performance Report

2) Municipal Energy Opportunities Report

3) Municipal Energy Implementation Plan Report

4) Progress Monitoring and Reporting Plan Report

Municipal Energy <u>Performance</u> Report
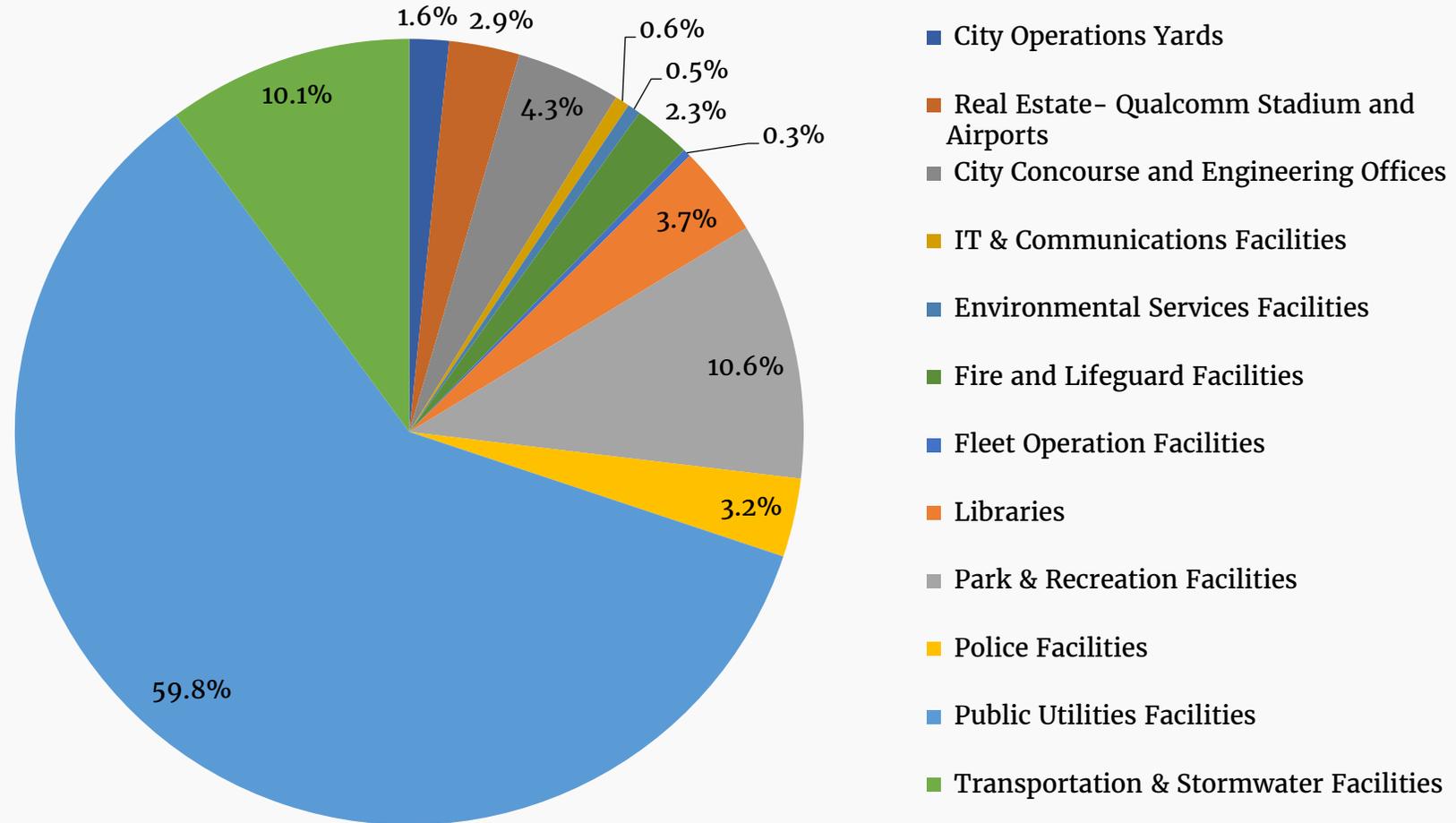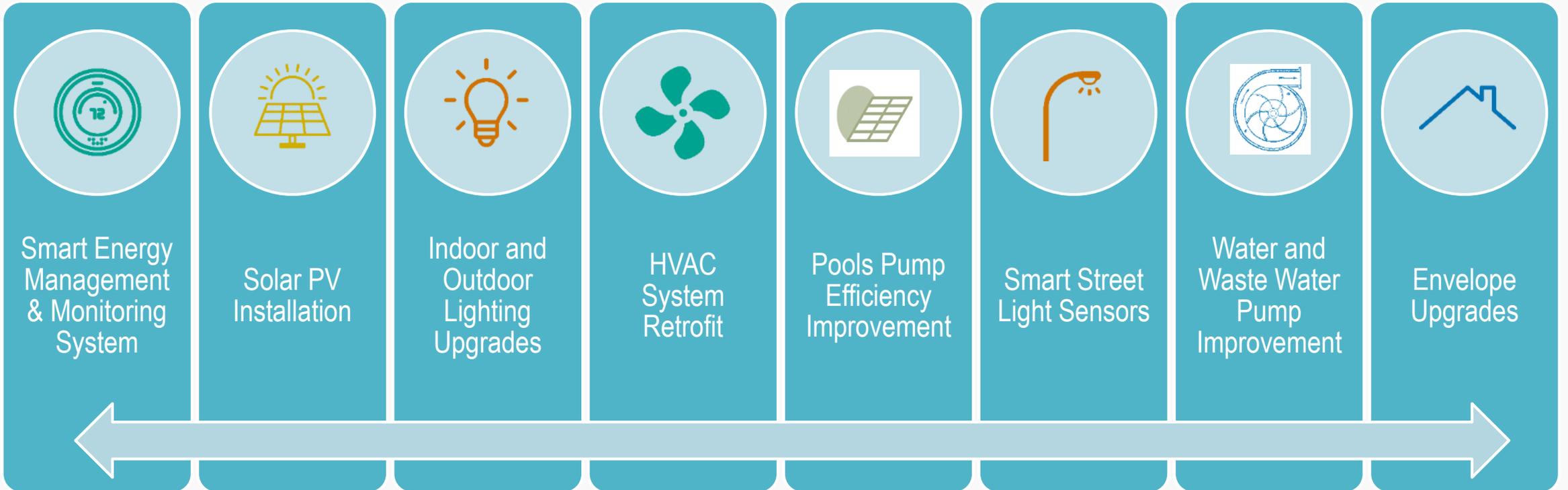
Introduction:

- Organization Structure

- Energy Use in Municipal Facilities

Content:

- Municipal Energy Use Description

- Comparisons to National Averages

Breakdown of 2016 Municipal Energy Use- City of San Diego

Pie chart values: 1.6%, 2.9%, 0.6%, 0.5%, 4.3%, 2.3%, 0.3%, 10.1%, 3.7%, 10.6%, 3.2%, 59.8%

Legend:
- City Operations Yards
- Real Estate– Qualcomm Stadium and Airports
- City Concourse and Engineering Offices
- IT & Communications Facilities
- Environmental Services Facilities
- Fire and Lifeguard Facilities
- Fleet Operation Facilities
- Libraries
- Park & Recreation Facilities
- Police Facilities
- Public Utilities Facilities
- Transportation & Stormwater Facilities

Municipal Energy Opportunities Report

Smart Energy Management & Monitoring System

Solar PV Installation

Indoor and Outdoor Lighting Upgrades

HVAC System Retrofit

Pools Pump Efficiency Improvement

Smart Street Light Sensors

Water and Waste Water Pump Improvement

Envelope Upgrades

Sample energy reduction opportunities being pursued for the MESP.

Municipal Energy Opportunities Report

Content:

- Planned Energy Reduction Measures

- Additional Energy Reduction Opportunities

- Provided for 12 Categories of Municipal Facilities

- Rationale for Project Selection

- Schedules and Budgets

Progress:

- Anticipated Delivery Fall 2018