Meeting Call to Order – Chair

Chair & Executive Committee Report/Updates

ACTION ITEMS:
1. Adopt Minutes of Meeting – 02/09/2018
   Attachment A

INFORMATIONAL ITEMS:
1. Improving the Resilience of Transit Systems
   Attachment B
2. The Costco Project
   Attachment C
3. Earth Day Activities Update
   Attachment D
4. ICSI 2019 International Conference
5. SUBCOMMITTEES to Report back from
   February 2018 meeting:
   - Electrification
   - Metro 27
   - Partnerships
   - Resource Management

Announcements by Councilmembers

Upcoming Council Meeting Dates:
- April 13, 2018
- May 11, 2018
- June 8, 2018

Future Agenda Item Recommendations

Q&A

IMPORTANT NOTICE: Subcommittee meetings TO FOLLOW GENERAL Sustainability Council meeting from 11:00AM to 12:30PM

Attachment E
MEETING MINUTES

Program Management
Environmental Compliance & Sustainability Department

SUSTAINABILITY COUNCIL
(Council Meeting) #9
10:00AM – 12:00PM

Plaza View Conference Room
One Gateway Plaza, 4th Floor

Meeting Call to Order – Co-Chairs

Executive Committee Report/Updates

ACTION ITEMS:
2. Adopt Minutes of Meeting – 01/12/2018
   Attachment A
3. Approve Earth Day 2018 Opportunities for Participation – Council Participant List
   Attachment B

INFORMATIONAL ITEMS:
1. Climate Safety Infrastructure Working Group
   Attachment C
2. Opportunities for International Partnerships
3. SUBCOMMITTEES to Report back from January 2018 meeting:

Subcommittee Report to Council:

- Electrification
- Metro 27
- Partnerships
- Resource Management

Announcements by Council Members
Upcoming Council Meeting Dates:
- March 9, 2018
- April 13, 2018
- May 11, 2018
- June 8, 2018

Future Agenda Item Recommendations

Q&A

IMPORTANT NOTICE: Subcommittees meetings TO FOLLOW GENERAL Sustainability Council meeting from 12 noon to 1:30 PM.
February 9, 2018 Meeting Minutes

In the absence of the Chair Cris Liban, both Vice-Chairs Dominique Hargreaves & Ghina Yamout co-chaired the meeting.

Co-Chair Hargreaves invited all members of the Council present and of the public, to each describe what are their individual initiatives and main goals for the Sustainability Council, in 2018. The Council welcomed its newest member Ms. Cindy Montanez, as an Alternate for Climate seat.

A discussion as to the few remaining seats took place, and the Council will receive an updated list of the remaining open seats.

EARTH DAY 2018

Staff provided an overview of five potential events for Earth Day that the Council may have interest in participating in. From the five presented 3 were voted on to approve by the Council:
1. LA Sanitation,
2. Green Bldg. and
3. Grand Park events.

- Bryn Lyndblad volunteered to take the lead on Urban Heat guns (for children), LA Sanitation event.
- Ghina Yamout shared ideas for Grand Park event. Maybe a booth that offers more information on electrification (i.e. demonstrations on how they work and usage benefits, etc.)
- M. Samulon: City can likely provide an EV bus (tentative).

On Monday, Feb. 12, from 10AM – 4PM: Council is invited to attend, participate or provide comments at the Climate Infrastructure Working Group. Council agreed that if anyone attends this meeting they attend as an individual and not on the behalf of Council.

A brief high level conversation on International partnership opportunities in-between Los Angeles/Southern California and the international technical companies was led by Councilmember Stephen Cheung. This was a brief overview, and there will be a wider discussion with the Council with Aki Luukkainen from the Consulate of Finland with Stephen Cheung.

SUBCOMMITTEE MEETINGS:
Subcommittee meetings began at 11:00 AM; adjourned at 12:30PM
Deborah Matherly, AICP, ENV SP has over 35 years transportation planning experience, with most of her career focused on transit. Her research and application practice has focused largely on emergency transportation evolving through resilience since 2002. She led TCRP Report 150: **Communications with Vulnerable Populations- A Transportation and Emergency Management Toolkit** (2011). She led NCHRP Reports 740: **A Transportation Guide for All-Hazards Emergency Evacuation** (2013), 777: **A Guide to Regional Transportation Planning for Disasters, Emergencies and Significant Events** (2014), and TCRP Web-Only Document 70, **Improving the Resilience of Transit Systems Threatened by Natural Disasters**. She is currently leading NCHRP 20-59(55), **Transportation System Resilience: CEO Engagement and Primer**. She also chairs TRB AP045, **Passenger Intermodal Facilities Standing Committee**.

This “blurb” with links is excerpted from an FTA distribution.

---

**Improving the Resilience of Transit Systems Threatened by Natural Disasters**

**Volume 2: Research Overview**

**CONTRIBUTORS:** Deborah Matherly, Jon A. Carnegie, and Jane Mobley; Transit Cooperative Research Program; Transportation Research Board; National Academies of Sciences, Engineering, and Medicine

**“EXCERPTS” FROM THE VOLUME 2: RESEARCH OVERVIEW:**

The objective of the TCRP A-41 project is to develop a handbook with an associated suite of digital presentation materials to address planning principles, guidelines (including metrics), strategies, tools, and techniques to enable public transit systems to become more resilient to natural disasters and climatic events. The project will also develop a draft recommended practice for public transit resilience to natural disasters and climatic events suitable as input to the APTA Standards Program.

The purpose of this literature and state of the practice review and synthesis is to identify what is already known about: **a)** the vulnerability of public transportation system assets to extreme weather events and longer-term climate impacts; and **b)** how transit agencies are incorporating resilience measures into their business practices. To achieve this purpose the research team first developed a database source matrix that inventoried potentially relevant reports, documents and other resources. The source documents captured in the matrix were then categorized and prioritized on the basis of applicability, area of emphasis, conclusiveness of findings, and usefulness for public transit agencies. This process resulted in a prioritized list of more than 75 resources which were then reviewed in detail and summarized in a series of tables following a template format.

**Resilience Adoption: State of the Practice**
The National Academies has defined resilience as “the ability to prepare and plan for, absorb, respond, recover from, and more successfully adapt to adverse events,” noting further that “enhanced resilience allows better anticipation of disasters and better planning to reduce disaster losses — rather than waiting for an event to occur and paying for it afterward.” In the last decade (2004-2014), there have been more than 1,400 major disasters, emergency and fire management declarations in the United States. The vast majority have been weather/climate related. These disasters have resulted in hundreds of billions of dollars in damage and economic losses.

**Examples of Effective Practices**

The case studies make clear that resilience adoption need not be one size fits all. Agencies working to become more resilient may take a holistic, more comprehensive approach that reaches across departments and modes, while others may be more tactical in the face of competing demands and priorities. The case studies also made clear that both approaches take time and that developing a culture of resilience does not and will not happen overnight. Even when an agency is devastated by a natural disaster, as was the case with NORTA and NJ TRANSIT, it can take years to embed resilience thinking within agency decision-making processes.

The following are some examples of effective practices drawn from the case studies.

- **HART** utilizes a tactical approach to “jump start” its resilience efforts through its sustainability programs, procurement and contract management activities. The agency also engages front-line maintenance and operations staff (drivers) to track flood prone areas and use the data to inform rerouting decisions in real-time to respond to urban street flooding. HART has also implemented record-keeping procedures to track expense categories as “weather-related” on a regular basis, not just during declared emergencies.

- **Honolulu DTS** has adopted resilient materials requirements and have implemented a proactive program to raise vulnerable equipment and infrastructure above flood elevation.

- **KCATA** is using green infrastructure strategies to manage storm water runoff and mitigate flooding that impact its facilities.

- **LA Metro** effectively utilized external funds, including a series of FTA grant programs to jump start its resilience efforts and has successfully integrated resilience considerations as part of the agency’s Environmental Management System. LA Metro has developed a Resilience Indicator Framework to guide future decisions.

- **Maryland Transit Administration** engages front-line operations and maintenance personnel in a series of “Risk Rating” workshops to highlight and flag conditions that could negatively impact operational resilience. Past topics included concerns relating to erosion, rock slides, and riverine flooding. Future topics are expected to include heavy snow, high heat days and the potential for rail buckling. The information and data collected as part of the workshops is used to inform operating decisions.

- **MARTA** has developed an Enterprise Asset Management system “add-on” Capital Tab that incorporates climate change resilience, sustainability and environmental factors and data that can inform capital planning decisions. The agency also uses front-line workers to report conditions and inform operating decisions such as rerouting when flooding begins to occur.
• MBTA has developed and is implementing a multi-faceted Winter Resilience Plan that includes infrastructure upgrades, equipment purchases, and changes to operating procedures.

• NJ TRANSIT is developing a first-of-its-kind micro-power grid as an independent source of electricity that can power its core facilities and rail service in the event of a regional power failure. The agency also maintains a publically accessible resilience website that provides descriptions and status updates for all ongoing resilience projects. The agency’s Comprehensive Emergency Management Plan and annexes are also available on the public website.

• NORTA/MTA plays a central role in New Orleans City-Assisted Evacuation Plan which is designed to ensure the safe and efficient evacuation of critical transportation needs for populations residing in the City.

• San Francisco BART developed a FEMA-compliant Local Hazard Mitigation Plan (LHMP) for its service district. The goal of the plan is to “maintain and enhance a disaster-resilient District by reducing the potential for loss of life, property damage, and environmental degradation from natural disasters, while supporting economic recovery from such disasters.” The plan identifies 32 resilience actions ranging from high priority strategies, such as developing redundant command and control capabilities and backup power, waterproofing the Transbay Tube and training for front-line workers regarding safe evacuation protocols and safety procedures, to lower priority strategies such as conducting a watershed analysis of runoff and drainage systems to predict areas of insufficient capacity in the storm drain and natural creek system.

• SFMTA/Muni is developing a comprehensive Climate Adaptation Strategy that includes guidance, procedures and checklists for incorporating sea level rise into its capital planning process.

• SEPTA regularly engages front-line workers to collect data on vulnerable infrastructure and to monitor service performance. The agency is also working to develop advanced flood warning solutions and uses its asset management system to flag preventive maintenance needs/requirements that could impact operational resilience.

• Transport for London utilizes a 120-year design life for new rail infrastructure that accounts for climate change and sea level rise. The agency has also developed and implemented an extreme weather and climate risk “mapping” process for each of its modes. The “maps” are actually an easy to understand set of matrices that compare the likelihood and severity of impact of various climate and weather threats.

TRB will conduct a webinar from 1-3 p.m. ET Monday, March 12 that features research from TCRP’s recently published Improving the Resilience of Transit Systems Threatened by Natural Disasters, Volume 1: A Guide, Volume 2: Research Overview, and Volume 3: Literature Review and Case Studies.
Charles D. Herbertson, P.E., L.S. – Public Works Director/City Engineer
Charles has been the Public Works Director and City Engineer for the City of Culver City since August 2004. In this capacity he is in overall charge of the Department and oversees the activities of its four divisions: Administration, Engineering, Environmental Programs & Operations, and Maintenance Operations. Charles has spearheaded the City’s efforts in environmental areas including expanding refuse and recycling options for residents and businesses, storm water protection programs including recent voter approval of funding through local Measure CW, and numerous energy efficiency projects including LED lighting conversion for City facilities and streetlights, mechanical system energy efficiency upgrades and Energy Management Systems for all major City Buildings.

A presentation will be given at the meeting.
TIMELINE OVERVIEW

December 28, 2012
LA Regional Water Quality Control Board (LARWQCB) adopted R4-2012-0173, a National Pollutant Discharge Elimination System (NPDES) Municipal Separate Stormwater Sewer System Permit (M84 Permit).

June 2013
Development of Marina del Ray EWMP begins.

June 28, 2015
Marina del Ray (MdR) EWMP submitted to LARWQCB.

October 21, 2015
City Council approved Conditions of Approval for Costco required SUSMP requirements.

April 27, 2016
MdR EWMP approved by LARWQCB.

September 6, 2017
City released design RFP for Washington Blvd Stormwater Diversion Project.

May 21, 2015
City Staff initiated meeting with Costco Wholesale with potential joint stormwater project.

September 2015
Began Developing Proposed MOU Terms with Costco.

November 2, 2016
City executed MOU with Costco.

WASHINGTON BOULEVARD STORMWATER DIVERSION PROJECT

![Map of Washington Boulevard Stormwater Diversion Project]
1.

EARTH DAY LA!  LA Sanitation

DESCRIPTION
Join us for a day of earth-friendly fun as we celebrate our 3rd Annual Citywide EARTH DAY LA! LA Sanitation will again bring our trucks for kids to explore, and we'll have plenty of educational (and fun!) exhibits for the whole family to learn about sustainability. Last year we had over 50 exhibitors, and there will be more this year. In the spirit of environmental awareness, we hope that you will consider taking public transportation to the event. You can plan your arrival at www.metro.net. With free food, fun, giveaways, and entertainment, you won’t want to miss this! Admission is free. Mark April 21st on your calendar and follow us on Facebook (www.fb.com/lacitysan) for event updates. Learn more at www.lacitysan.org/earthdayla

DATE AND TIME
Sat, April 21, 2018
10:00 AM – 2:00 PM PDT
Add to Calendar

LOCATION
Highland Park
6150 Piedmont Avenue
Los Angeles, CA 90042
Education & Networking
Since its inception in 2001, MGBCE has become the longest-running and largest gathering of leading sustainability and green building advocates within both the public and private sectors in southern California. Attended by over 550 persons annually, this conference and trade show provides cutting-edge thought leadership education and networking opportunities to inform local government agencies, building industry professionals and the general public about the principles, practices and products associated with green building. Over twenty exhibitors will display their sustainability solutions, and this year will include cleantech start-up companies that are finalists of the Smart City Tech Genius Challenge. Topics range from Agriculture to Zero Net Energy and support cities to lead the way to a sustainable future.

Get Involved
1. Submit an abstract to speak at the conference
2. Volunteer on the Abstract Review and Selection Committee
3. Volunteer on the Conference Planning Committee
4. Be a judge for the Smart City Tech Genius Challenge
5. Be a collaborating organization by sharing event info with your group
6. Sign up to be an exhibitor or sponsor
7. Attend and enjoy!

The Smart City Tech Genius Challenge Connecting Cities to Tech Solutions
LACI and USGBC-LA will launch a major global startup competition in the green building industry in conjunction with the 17th annual Municipal Green Building Conference and Expo (MGBCE) on the future of building technology, smart cities infrastructure, and efficiency solutions. LACI and USGBC-LA will leverage their existing national and international networks to source startups in the U.S. and around the world focused on core building issues of relevance to southern California.

The three focus areas of this year's Challenge will be:
- Smart Infrastructure – Connecting buildings, IoT Devices, Demand Response,
- Energy & Water Efficiency – Lighting, HVAC, building control systems, smart irrigation, fixtures
- Waste – Recycling, waste processing systems, waste to energy, waste re-use
3.

Earth Day 2018 at Grand Park presented by Grand Park, The Music Center, and the Los Angeles Department of Water and Power

The Music Center, Grand Park, and the Los Angeles Department of Water and Power collaborate to offer Downtown L.A.’s residents, workers, and visitor’s ways to live clean and go green with a free all-ages event. Attendees will discover energy efficiency and water conservation displays; sustainable gardening tours; composting, electric and solar vehicle demonstrations, tree giveaways, recycled art projects, E-waste drop-off, fitness and yoga classes, and the opportunity to eat lunch and enjoy a walk-through of Grand Park’s sustainable landscaping.

Date: April 19th, 2017
Time: 9:00am – 2:00pm
Location: Grand Park
Expected 2018 attendance: 5000 people
Attendance in 2017: 5000 people
Target audiences: 500 students ages 5-12
SUBCOMMITTEE MEETINGS

11:00AM – 12:30PM

Following the Sustainability Council Meeting from 11:00AM – 12:30PM, each Subcommittee of the Council will hold their individual subcommittee meetings.

You as a Council member are expected to join the Chair of your Subcommittee. In the event you will not be able to attend the meeting, kindly inform myself and the Chair of your Subcommittee for record keeping.

The following Conference rooms will be assigned as follows:

1. Electrification Subcommittee
   Chair Joel Levin
   Alhambra Conference Room 9th Floor

2. Metro 27 Subcommittee
   Chair Dominique Hargreaves
   Plaza View Conference Room 4th Floor

3. Partnerships Subcommittee
   Chair Ghina Yamout
   Plaza View Conference Room 4th Floor

4. Resource Management Subcommittee
   Chair Belinda Faustinos
   Library 15th Floor