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To: "Direct to Mayor and Council - DL" <CCDTMACDL@vancouver.ca>

Date: 8/4/2016 2:59:18 PM

Subject: Report Back on Outdoor Lighting Strategy Update - RTS 10860

Attachments: [CMO - SUS - Outdoor Lighting Strategy - Memo to Council - Aug 2 2106 \(Si....pdf](#)

Dear Mayor and Council,

Please see attached memo from Doug Smith, Acting Director of Sustainability regarding the development of an outdoor lighting strategy for the City, in response to a council motion passed in February 2015.

The Strategy will include:

- Developing outdoor lighting guidelines for public and private property;
- Exploring opportunities for dark sky designations within the city; and
- Conducting a business case for retrofitting the City's existing streetlights with energy-efficient LED technologies.
- The strategy is expected to be complete in early 2017 and staff will report back to Council at that time.

Best
Sadhu

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MEMORANDUM

August 2, 2016

TO: Mayor and Council

CC: Sadhu Johnston, City Manager
Paul Mochrie, Deputy City Manager
Janice MacKenzie, City Clerk
Lynda Graves, Manager, Administration Services, City Manager's Office
Rena Kendall-Craden, Director, Communications
Mike Magee, Special Advisor to the Mayor, Mayor's Office
Kevin Quinlan, Chief of Staff, Mayor's Office
Katie Robb, Director, Communications, Mayor's Office
Emma Lee, Director, Community Relations, Mayor's Office
Jerry Dobrovolny, General Manager, Engineering Services
Jane Pickering, Acting General Manager, Planning, Urban Design & Sustainability
Malcolm Bromley, General Manager, Park Board

FROM: Doug Smith, Acting Director of Sustainability

SUBJECT: Report Back on Outdoor Lighting Strategy Update - RTS 10860

The purpose of this memorandum is to provide Council with an update on the development of an outdoor lighting strategy. Staff were directed by Council in February 2015 to develop such a strategy in order to reduce wasteful outdoor lighting, set standards for safe and effective outdoor lighting and provide for the designation of dark-sky preserves in Vancouver.

Following the Council motion, a greenest city scholar was hired to complete a literature review of best practices in outdoor lighting amongst leading cities around the world. Staff are now preparing a Request for Proposal to retain an expert consultant to develop design guidelines for outdoor lighting. The objective of the guidelines is to achieve outdoor lighting that is safe, efficient, inviting and minimizes light pollution. The guidelines are expected to apply to City-led projects as well as to the review of development applications.

CMO - SUS - Outdoor Lighting Strategy - Memo to Council - Aug 2 2016

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The lighting consultant will also conduct a business case assessment for replacing the City's existing high-pressure sodium streetlights with LED lights. LED streetlights are more energy efficient and can enable "smart lighting" technology that allows for better lighting control. The business case assessment will determine whether the payback period on LED lights is sufficient to consider a widespread replacement program and what temperature (colour of visible light) of LED lights is most appropriate to ensure the light is comfortable for residents and does not negatively impact birds and other wildlife.

As part of the outdoor lighting strategy, staff will also be exploring whether a "dark sky preserve" designation could be achieved within the city. The most likely location for such a designation, which is administered by the Royal Astronomical Society of Canada and the International Dark Sky Association, would be within a large park. Staff will work closely with the Park Board to explore what would be required to achieve a dark sky designation and will report back to Council with further information as part of the outdoor lighting strategy.

Staff are aiming to bring the outdoor lighting strategy to Council for approval in early-to mid-2017. This timeline allows for broad consultation as identified in Council's motion, which includes industry, architects, lighting designers, naturalists, Council Advisory Committees including the Women's, Seniors and Persons with Disabilities Committees, appropriate non-profit agencies and the general public.

During the development of the lighting strategy, staff will be actively piloting smart lighting technologies as opportunities arise, such as along a portion of the South False Creek seawall that will be upgraded this fall. These pilot projects will allow staff to evaluate the effectiveness of new lighting technologies on an ongoing basis. Such pilot projects will also provide the public with an opportunity to provide input and feedback to inform future designs.

If you have any questions about the outdoor lighting strategy, please feel free to contact Brad Badelt from Sustainability at 604.673.8165.



Doug Smith, P.Eng.
Acting Director, Sustainability

BB/bb