

FINANCIAL MANAGEMENT COMMITTEE

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

SUBJECT: 2018 ENVIRONMENTAL AWARDS PROGRAM

RECOMMENDATION:

1. THAT Council receive this report for information.

REPORT

Burnaby City Council, at the Closed meeting held on 2018 May 07, received and adopted the attached report containing this year's recipients of Burnaby's Environmental Awards and Environmental Stars.

This report is provided for public information.

Respectfully submitted,

Councillor D. Johnston
Chair

Councillor C. Jordan
Vice Chair

Copied to:	City Manager Director Corporate Services Director Planning & Building
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TO: CHAIR AND MEMBERS **DATE:** 2018 April 09
FINANCIAL MANAGEMENT COMMITTEE

FROM: DIRECTOR PLANNING AND BUILDING **FILE:** 33000 01
Reference: Environmental Awards

SUBJECT: 2018 ENVIRONMENTAL AWARDS PROGRAM

PURPOSE: To recommend recipients of the 2018 City of Burnaby Environmental Awards Program and approve the terms of reference, call for nominations and a \$2,500 expenditure for promotion and advertising for the 2019 program.

RECOMMENDATIONS:

1. **THAT** the Financial Management Committee recommend the following 2018 Environmental Awards to Council for consideration at Council's closed meeting of 2018 May 7:
 - a. A 2018 Environmental Award in the category of Business Stewardship be presented to the property management group at **SHAPE Properties** for environmental sustainability achievements in operating Brentwood Town Centre Mall and Lougheed Town Centre Mall.
 - b. A 2018 Environmental Award in the category of Planning and Development be presented to the **British Columbia Institute of Technology** for the **Energy OASIS Project** that showcases how renewable energy and energy storage can be integrated with electric vehicle fast charging stations and electrical grids.
 - c. A 2018 Environmental Award in the category of Youth be presented to **Brennan Strandberg-Salmon and Kevin Lin**, students at Moscrop Secondary School, for their outstanding leadership and environmental achievements.
2. **THAT** the Financial Management Committee recommend the following 2018 Environmental Stars to Council for consideration at Council's closed meeting of 2018 May 7:
 - a. A 2018 Environmental Star in the category of Green Choices be presented to **Burnaby Mountain Secondary School** for their ongoing commitment to environmental sustainability in the operation of the buildings and in school programs.

- b. A 2018 Environmental Star in the category of Green Choices be presented to the **Alexander College Green Team** for integrating environmental sustainability into the operation of the school and for growing awareness of sustainability amongst their students.
 - c. A 2018 Environmental Star in the category of Community Stewardship be presented to **Alan Russell** for his significant contributions to the Stoney Creek Environment Committee and the stewardship of Stoney Creek.
 - d. A 2018 Environmental Star in the category of Youth be presented to **Carrie Ng** of Ecole Alpha Secondary School for her outstanding environmental leadership.
 - e. A 2018 Environmental Star in the category of Youth be presented to **Victor Yin** of Ecole Alpha Secondary School for his outstanding environmental leadership.
3. **THAT** this report appear on the Open agenda of Council's meeting of 2018 May 14.
 4. **THAT** staff be authorized to contact recipients to advise of the award prior to Council's open consideration of the report on 2018 May 14.
 5. **THAT** Council approve the proposed Terms of Reference and call for nominations for the 2019 Environmental Awards Program and an expenditure of \$2,500 from the Boards, Committees and Commissions' operating budget for promoting and advertising.

REPORT

1.0 BACKGROUND

The City of Burnaby's Environmental Awards Program recognizes the outstanding contributions made by individuals, groups, organizations, institutions, and businesses to environmental sustainability in our community. On an annual basis, awards may be issued in six categories: Business Stewardship, Communications, Community Stewardship, Green Choices, Planning and Development, and Youth. As established in 2000, there are two designations in each category:

- Environmental Awards, for recognition of environmental achievements of a larger scale, such as long-term commitments to an organization or cause, leadership of numerous other individuals, and projects of a significant size and relatively complex scope; and
- Environmental Stars, for recognition of environmental achievements of a smaller or more individual scale that may nevertheless serve to catalyze larger initiatives and inspire others.

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At the direction of Council, in a given year, one (1) Environmental Award and a maximum of two (2) Environmental Stars may be awarded in each category.

This report recommends three (3) Environmental Awards and five (5) Environmental Stars for Council's approval. As previously approved by Council, this year's recipients will be announced to the public at the Regular Meeting of Council on May 14 and will be invited to attend a reception at City Hall and to receive their awards at the Regular Meeting of Council on June 11th.

2.0 CALL FOR NOMINATIONS

This year's call for award nominations was approved by Council at its Regular Meeting on 2018 January 22. The nomination period opened on 2018 January 23 and closed on 2018 March 29. The call for nominations was promoted at civic facilities and to Burnaby's environmental community, published on the City's website, promoted on the City's social media channels, and advertised in local newspapers. Eleven nominations were accepted across the six categories.

The call for award nominations for 2019 is proposed to open in early January, coinciding with the call for nominations for the Local Hero Awards Program and the Kushiro Cup, and close in late March. A copy of the 2019 Terms of Reference for the award program is enclosed with this report (*see attached*). An expenditure of \$2,500 is requested from the Boards, Committees and Commissions operating budget to promote and advertise the program.

3.0 2018 ENVIRONMENTAL AWARDS AND STARS

The following nominees are recommended for Environmental Awards and Environmental Stars.

3.1 Environmental Awards

In the category of Business Stewardship: SHAPE Properties, Property Management Group, Brentwood Town Centre Mall and Lougheed Town Centre Mall

SHAPE Properties owns Brentwood Town Centre Mall and Lougheed Town Centre Mall. Both malls are operated by their property management group. This award recognizes their environmental sustainability achievements with regards to the operation of both malls over the past decade. During this time, both facilities have partnered with BC Hydro and invested in new technologies for more efficient heating and cooling systems and LED lighting systems resulting in significant energy savings and greenhouse gas (GHG) reductions. Two level 2 electric vehicle charging stations have been installed at each mall to support EV drivers and reduce GHG emissions. Both facilities have long standing recycling programs that they continue to improve upon. Organics recycling is a recent addition to each program. Both facilities have also implemented water conservation measures and have a sustainable purchasing policy for products required for mall operations. Both Brentwood and Lougheed Town Centre Malls collect data to monitor their sustainability programs and chart progress toward their goals.

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In the category of Planning and Development: British Columbia Institute of Technology, Energy OASIS Project

The Energy OASIS (Open Access to Sustainable Intermittent Sources) Project aims to demonstrate solutions that could be used to help reduce the potential impact of fast charging (DC Fast Charging) electric vehicle charging stations on the electrical grid. For the project, a facility was constructed at BCIT consisting of two DC fast chargers and six Level 2 chargers for electric vehicles, located beneath an overhead parking canopy containing photovoltaic solar panels and paired with a lithium ion battery storage system and energy management system. The facility was completed in September 2014 and can be used by BCIT students and faculty and the general public to charge electric vehicles.

Technology demonstrations, data collection and analysis for this project continue to today. BCIT reports that the project has successfully demonstrated how fast charging EV stations can be integrated into an existing electrical grid system with minimal impact on its reliability by incorporating power storage and management systems and a renewable energy source, solar photovoltaic cells in this case. BCIT reports that the knowledge gained from this project has been disseminated to many different stakeholders in Burnaby, British Columbia and across Canada.

In the category of Youth: Brennan Strandberg-Salmon and Kevin Lin, grade 12 students at Moscrop Secondary School

Brennan Strandberg-Salmon and **Kevin Lin** were co-nominated for this award. From 2014 to present they have been members of their school's environmental club. As co-chairs of the club this year, they have launched a campaign for School District 41 institutions to switch to sugarcane copy paper, which helps to reduce deforestation and greenhouse gas emissions. The campaign has involved presentations to school district's procurement department and to the Burnaby Youth Sustainability Network.

Brennan and Kevin led an initiative this year to have Moscrop Secondary School designated a Bee School by Bee City Canada¹. This involved creating a working group of teachers and students to develop a plan to improve bee habitat at the school and receiving support of the school's administration. Moscrop is the first school in the lower mainland to achieve this status and the second in British Columbia.

Brennan and Kevin are active members of the Stoney Creek Environment Committee, a local Streamkeeper group, since 2016. As members they have participated in many stewardship activities and created a bee pollinator awareness display for the Great Salmon Send-off. They are also active members of a non-governmental organization that promotes community action on climate change and renewable energy. As members, they have participated in several campaigns to encourage citizens to be politically active and local governments to incentivize technologies that utilize renewable energy.

¹ Bee City Canada (www.beecity.org)

3.2 Environmental Stars

In the category of Community Stewardship: Alan Russell, member of Stoney Creek Environment Committee

Alan Russell has been active with the Stoney Creek Environment Committee (SCEC), a local environmental stewardship group, for over 20 years. During this time, Alan has volunteered his time to lead many of the group's stewardship programs. He is an avid birder and shares his knowledge during regular bird walks scheduled by the SCEC. Alan also has led the annual fall spawner surveys of Stoney Creek that are undertaken every Saturday from October to mid-December. Other environmental achievements over his 20 plus years volunteering with the SCEC include organizing the first GPS survey of Stoney Creek watershed, conducting small mammal inventories, preparing funding proposals, and undertaking water quality testing.

In the category of Green Choices: Alexander College Green Team

Alexander College is a post-secondary institution with its main facility in Burnaby that offers programs to assist with English language skills and preparation for university and life in Canada. Many of its students are international, coming from outside of North America. In early 2017, the school created a green committee to integrate environmental sustainability into the administration of their programs and facilities and to help grow awareness and education amongst their students. Achievements include acquiring new sorting bins for recycling, compost and trash and staffing the bins with volunteers during the first week of school, using compostable plates and cutlery for campus functions, holding a variety of 'green' events to encourage waste reduction and community gardening, and reducing paper consumption by administering many programs online.

In the category of Green Choices: Burnaby Mountain Secondary School

Burnaby Mountain Secondary School has a well-established history of environmental sustainability achievements beginning with the design and construction of the school, which opened in 2001. The school was designed to use primarily geothermal energy for heating and cooling. The school reports that it measured the lowest energy use intensity (electrical and natural gas usage by area) among all secondary schools in the province from January to December 2016. The design of the school incorporates many other green building features, including LED exterior and parking lot lighting, an interior greenhouse, water bottle refill stations, and gardens for students. New features include the installation of three electric vehicle charging stations in 2017 to support the school district's long term plans to incorporate EVs within their fleet and planned upgrades to LED lighting in the school with daylight sensing technology to auto dim the lights.

The design of the school continues to support a culture of environmental sustainability with students and teachers and through many of the school's programs. Student clubs and classes continue to use the urban gardens at the school for various projects. The school also holds

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several health and motion days where students receive a healthy breakfast if they walk or cycle to school.

In the category of Youth: Carrie Ng and Victor Yin, students at Ecole Alpha Secondary School

Carrie Ng and **Victor Yin** are the co-chairs of the Burnaby Youth Sustainability Network (BYSN) and the Enviro Club at Ecole Alpha Secondary School for 2018. In these roles they have helped lead many environmental initiatives for their fellow classmates and students across School District 41. Achievements include managing the BYSN, organizing a clothing swap that diverted many clothing articles from landfills, helping to organize environmental workshops, organizing a school district wide sustainability art contest, working on a sustainability project at Simon Fraser University, organizing and participating in a local clean up at Confederation Park, and implementing a ‘salmon in the classroom’ project for the ACCESS program (a program that promotes inclusion and independence for individuals with physical and cognitive challenges) at their school.

4.0 CONCLUSION

The City of Burnaby Environmental Awards Program provides an opportunity to recognize the significant environmental achievements of individuals, organizations, institutions, and businesses in our community. For 2018, three (3) Environmental Awards and five (5) Environmental Stars are recommended for Council approval by the Financial Management Committee. As previously approved by Council, announcement of the award recipients is planned for the Regular Council Meeting on 2018 May 14 and presentation of the Environmental Awards and Environmental Stars will be at the Regular Meeting of Council on 2018 June 11, preceded by a reception in the foyer outside Council chambers. This report also proposes Council approve the 2019 terms of reference and call for nominations for the Environmental Awards Program to be in early January, coinciding with the nomination schedule for the Local Heroes Program and the Kushiuro Cup.

Lou Pelletier, Director
PLANNING AND BUILDING

MS/sla
Attachment

cc: City Manager
Director Corporate Services
City Clerk