

FINANCE AND CIVIC DEVELOPMENT COMMITTEE

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*HIS WORSHIP, THE MAYOR
AND COUNCILLORS***SUBJECT: SOLAR HEATING STUDY FOR EILEEN DAILLY POOL****RECOMMENDATIONS:**

1. THAT Council approve the use of Casino Gaming Funds in the amount of \$30,000 to conduct a solar heating feasibility study for Eileen Dailly Leisure Pool and Fitness Centre.
2. THAT this report be forwarded to the Parks, Recreation & Culture Commission and the Environment Committee for information purposes.

REPORT

The Finance and Civic Development Committee, at its meeting held on 2006 March 30, received and adopted the *attached* report recommending funding a feasibility study for installing solar water heating for Eileen Dailly Leisure Pool and Fitness Centre. Solar water heating offers significant potential energy savings for Eileen Dailly Pool and other City facilities. The feasibility study will review alternative technologies and costs, and recommend a detailed approach, including expected payback periods and environmental benefits.

Respectfully submitted,

Councillor D. Johnston
ChairCouncillor N. Volkow
Vice ChairCouncillor G. Begin
Member

Copied to:	City Manager Assistant Chief Building Inspector Director Finance Director Parks, Recr. & Cultural Services Director Planning & Building Director Engineering
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TO: CHAIR AND MEMBERS
FINANCE COMMITTEE

DATE: 2006 March 15

FROM: MAJOR CIVIC BUILDING PROJECT
CO-ORDINATING COMMITTEE

FILE: 31000-40

SUBJECT: SOLAR HEATING STUDY FOR EILEEN DAILLY POOL

PURPOSE: To recommend funding a feasibility study for installing solar water heating for Eileen Dailly Leisure Pool and Fitness Centre.

RECOMMENDATIONS:

1. **THAT** Council approve the use of Casino Gaming Funds in the amount of \$30,000 to conduct a solar heating feasibility study for Eileen Dailly Leisure Pool and Fitness Centre.
2. **THAT** this report be forwarded to the Parks, Recreation & Culture Commission and the Environment Committee for information purposes.

REPORT

1.0 INTRODUCTION

On September 19, 2005, Council authorized staff to apply to the VanCity / Real Estate Foundation BC Green Building Grant Program for \$30,000 to fund a feasibility study for solar water heating at Eileen Dailly Leisure Pool and Fitness Centre. This report provides an update on the funding application, noting that the grant application was not successful, and recommends next steps for pursuing this project.

2.0 SOLAR WATER HEATING

Solar water heating involves attaching solar panels to a building roof which captures the sun's energy and heats water within the facility. Once constructed, the operating costs for this passive, environmentally-sensitive technology are very low. As energy costs have risen and technology has improved, payback periods have decreased significantly, bringing this technology into the mainstream. For example, the Vancouver International Airport Authority's 2003 solar-powered hot water retrofit is saving nearly \$90,000 and 8,570 gigajoules (approximately 2.4 million kwh) annually, with a payback period of 5 years.

Eileen Dailly is seen as an excellent application for this technology, due to its high energy consumption (the highest per square foot of any City facility) and thus quick return on investment, and large useable roof. This technology was not reviewed during the City's recent Energy Performance Contract with Honeywell, but fits well with the program goals and the City's other energy conservation initiatives.

3.0 VANCITY / REAL ESTATE FOUNDATION GREEN BUILDING GRANTS

The VanCity / Real Estate Foundation Green Building Grant Program provides up to \$50,000 for communities and non-profit organizations to fund green building renovations and retrofits. VanCity and the Real Estate Foundation have informed staff that Burnaby was not awarded a grant in 2006. They commented that while they strongly supported the Eileen Daily Solar Water Heating Project, and met the application criteria, this year's grant winners involved construction and project implementation, rather than feasibility studies alone. The Burnaby application had noted that project implementation was subject to the study results and Council approval.

4.0 ALTERNATIVE FUNDING FOR FEASIBILITY STUDY – CASINO FUNDS

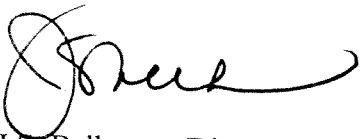
Staff believe that solar water heating at Eileen Dailly has great potential to provide significant financial and environmental benefits, and would be an excellent pilot project for applying the technology elsewhere in the City. For these reasons, it is proposed that the Finance Committee request Council approve the financing of the feasibility study (\$30,000) from the Casino Gaming Funds. The project meets the criteria established by Council and the Finance Committee for the use of casino funds which states that projects must:

1. be capital projects, therefore owned by the City of Burnaby;
2. be for the lasting preservation of Burnaby's heritage and the protection of the environment;
3. be discrete "stand-alone" not requiring ongoing capital funding;
4. be totally funded once the casino funds are approved, i.e., the casino funds are not to be used as "seed" money for a project (casino funds may provide partial "top-up" funding); and
5. have little or no ongoing impact on the operating budget in the form of reliance on the tax levy.


The estimated expenditures will be included in the City's 2006 - 2010 Annual Capital Program. The results of the feasibility study would be returned to the Finance Committee, with recommendations on how to proceed. Opportunities may exist to co-fund project construction through grant programs (e.g., Federation of Canadian Municipalities, BC Hydro, BC Ministry of Energy Mines and Petroleum Resources), and staff will report back to Council on a recommended approach.

5.0 CONCLUSION

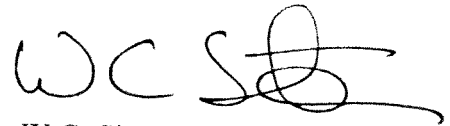
Solar water heating offers significant potential energy savings for Eileen Dailly Pool and other City facilities. The feasibility study will review alternative technologies and costs, and recommend a detailed approach, including expected payback periods and environmental benefits. It is recommended that the City fund this study through the Casino Gaming Funds.



J.S. Belhouse, Director
PLANNING AND BUILDING



Kate Friars, Director
PARKS, RECREATION
AND CULTURAL SERVICES



W.C. Sinclair, Director
ENGINEERING

RW/jc

Copied to: City Manager
Assistant Chief Building Inspector
Director Finance