Peaks Island Branch Library and Community Center Renovation Plan

Our building is outdated and outmoded, so we planned a creative design to improve it.

Let's improve the LIBRARY and COMMUNITY CENTER

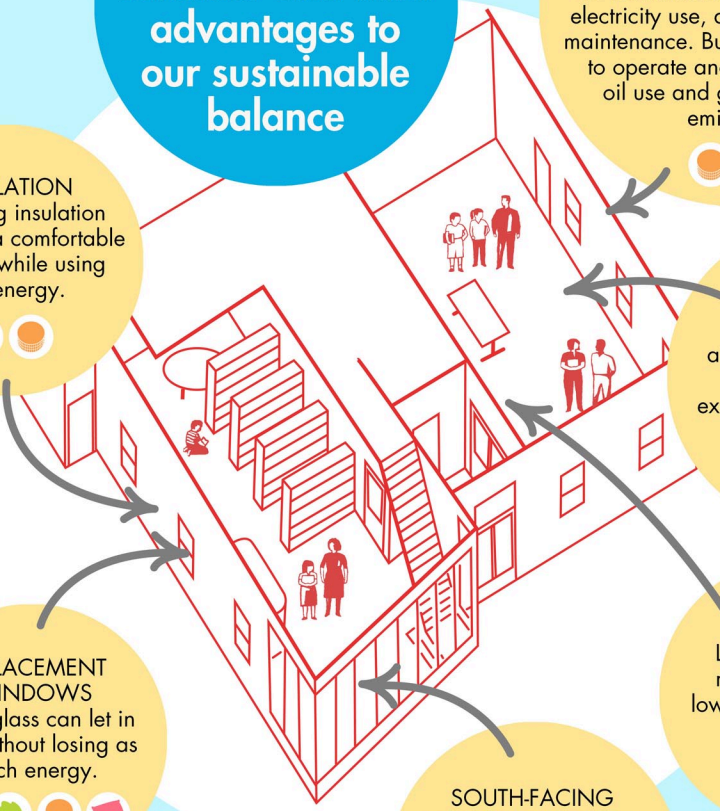
How can we improve our building's environmental impact?

We hired an ENERGY CONSULTANT to conduct an ENERGY MODEL to highlight the benefits and costs of alternative solutions.

We need a SUSTAINABLE BALANCE that takes into account:

- REASONABLE INITIAL COSTS low upfront investment in energy conservation measures and new equipment
- LOW OPERATING COSTS low energy usage, low maintenance costs, and durable equipment
- ENVIRONMENTAL IMPACT with special attention to the effect on greenhouse gas emissions
- COMFORT good temperatures and good ventilation in all seasons

Alternative solutions to consider and their advantages to our sustainable balance



HEAT PUMPS
Heat pumps manage heating and cooling, and reduce energy use. They cost more upfront than furnace heat and air conditioners, slightly increase electricity use, and require regular maintenance. But, they are cheaper to operate and will reduce fuel oil use and greenhouse gas emissions.

INSULATION
Improving insulation maintains a comfortable building while using less energy.

HEAT RECOVERY VENTILATORS
HRVs provide fresh air and improve climate control by efficiently exchanging heat between incoming and outgoing air.

REPLACEMENT WINDOWS
Better glass can let in light without losing as much energy.

LED LIGHTING
LED lighting costs more upfront, but lowers operating costs year after year.

SOUTH-FACING "PORCH" WINDOWS
Big windows let in more daytime light, but increase the need for heat or AC.

This poster and the energy modeling study which informs it were funded by an EPA grant from the Island Institute to PEAT's Peaks Energy Action Club. A copy of the study is available in the library or at www.portlandlibrary.com/locations/peaks-island-branch/.
Poster designed and illustrated by Marty Braun.

PORTLAND PUBLIC LIBRARY