

**AIM**

Assessing the practical adaptability and relevance of Solar Hot Water Readiness BC Regulations

**OBJECTIVES**

**IDENTIFY**

To understand the policy, regulations and technical issues in implementation of Solar Hot Water Readiness regulations

**ANALYSIS**

To give recommendations on the basis of hypothesis testing.

**RECOMMENDATION**

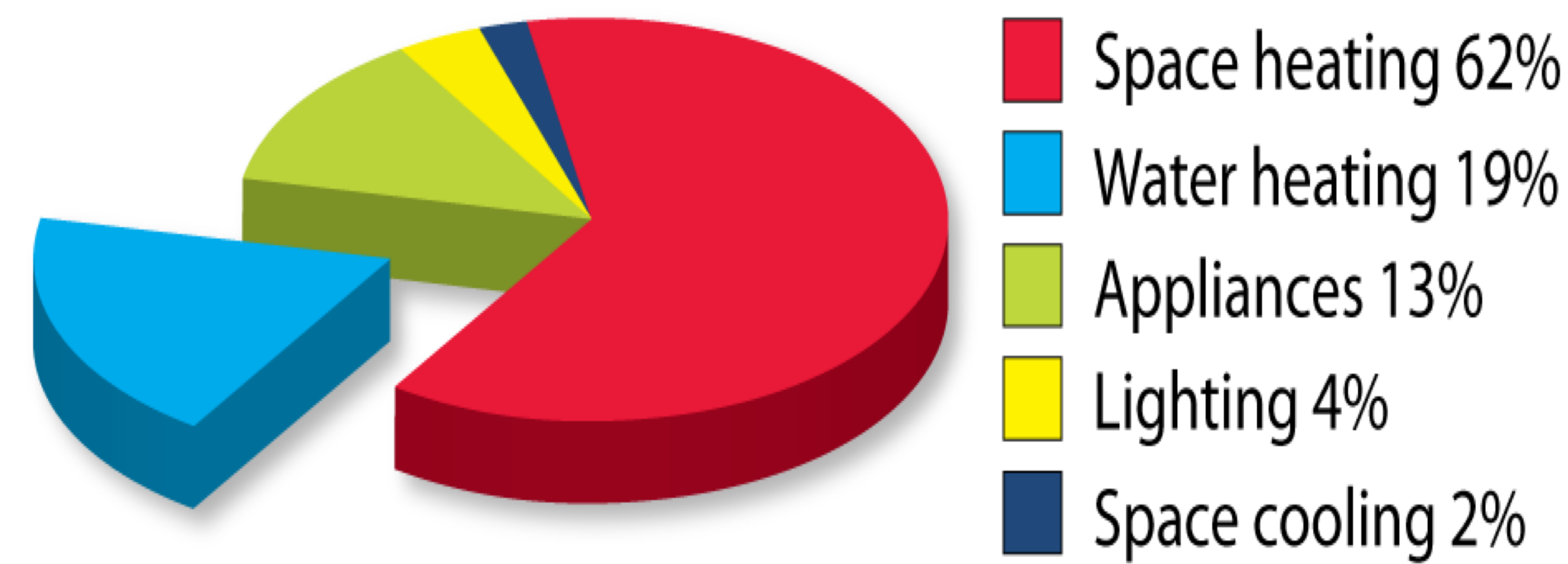
To analyse solar hot water readiness from the technical, planning and regulatory perspectives in the light of similar policies and industry response

**HYPOTHESIS**

Solar Hot Water Ready regulations 101/2011 and 163/2013 framework is easy to adopt, energy efficient, cost effectiveness, and produces the intended outcome of reducing the carbon footprint.

**75L** Consumption of hot water at average Canadian home every day

**19%** Energy used in the average Canadian home for hot water



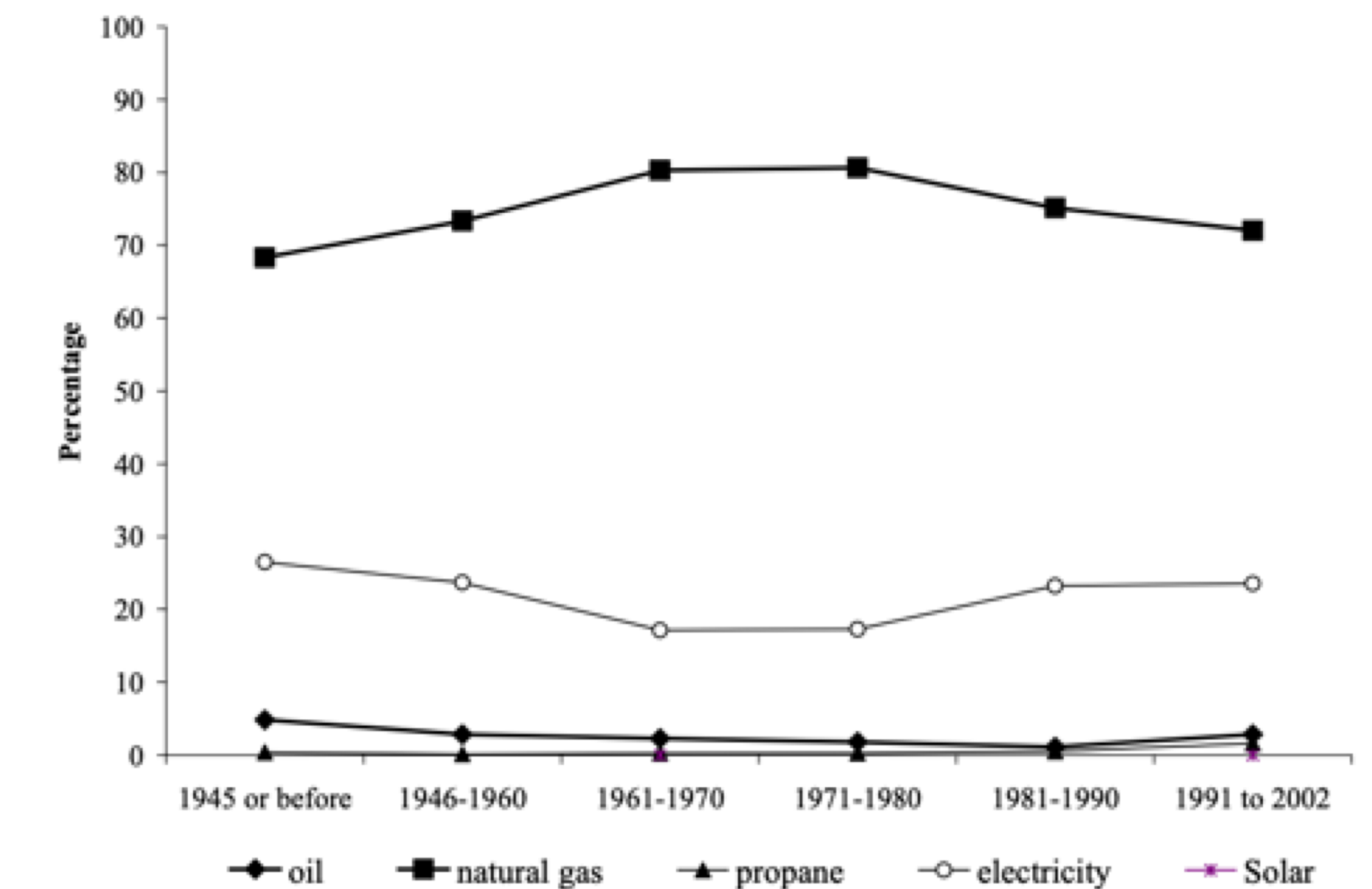
**POLICY PERSPECTIVE**

Financial Incentives & provide subsidy  
 Reconsideration in planning, zoning and permitting  
 Solar ready design & modifications at the initial construction are low cost  
 Set well-defined objectives and targets

**TECHNICAL PERSPECTIVE**

Attention to roof lines and house orientation  
 Wiring to accommodate photovoltaic (PV) and wiring and plumbing to accommodate solar hot water at design stage

Canadian Domestic Water Heater Fuel Type by Period of House Construction (EnerGuide for Houses Database, 2004)



**REGULATORY MECHANISM**

Supporting a solar ready program with grounded regulations that developers and builders can support, combined with a rapid approval and permitting process supported with a public education program.

**INDUSTRY RESPONSE**

Holistic approach to making homes solar ready is the best way to go.  
 Builders and developers to include SHWR design in their project.



**INTROCUPTION OF B.C. REGULATION 101/2011**

Building Act

SOLAR HOT WATER READY REGULATION

Part of "Greening" the BC building code

Communities can voluntarily adopt the regulation

47 Municipalities have adopted the regulations

2011

**AMENDMENT OF THE REGULATION**

**BC REGULATION 163/2013**

Solar water ready provisions in the design for

new single family and single-family dwelling

with secondary suite

Change in Structural requirements

Change in Mechanical requirements

**AMENDMENT OF THE REGULATION**

**BC REGULATION 52/2017**

To include the City of Quesnel

2013

2017

**ZERO ENERGY READY BUILDING**

Building built to high energy-efficiency standards such

that it could (with additional measures) generate

enough onsite energy to meet its own energy needs.

2032

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