Potential Risk / Barrier	Background	Type of Risk	Level of Risk	Mitigation Plan to Reduce Risk
Insufficient Supplier	 Could be affected by delayed decision 	Implementation	Probability	 Setup overall schedule to be aware of lead times
Availability	making of regulatory agencies		L	required
• IT	 Affected by number of vendors 	Financial		 Ensure technical and commercial requirements
• Meters	chosen		Impact	are not too stringent to avoid too few suppliers
 Communications 	Minimum requirements, once		Н	Clearly communicate required decisions dates and
	established, could eliminate available vendors to choose from			impact of missing dates Seek to amalgamate purchase requirements
	 Products may be available in the U.S., 			Seek to amalgamate purchase requirements
	but do not have CSA or MC			
	approvals			
	Supplier availability may be affected			
	by size of order			
Delayed Decision	Delayed decisions by agencies may	Implementation	Probability	Effective governance and issue management
Making by External	jeopardize timelines		Н	through steering committee setup early on
Agencies	 Decisions that alter requirements may 	Financial		 Identify changes necessary in OEB instruments
	affect contracts		Impact	(codes and licenses)
			Н	Clearly communicate required decisions dates and
				impact of missing dates
				 Work with MC to facilitate approvals Work with CSA for approvals and recognition of
				Work with CSA for approvals and recognition of UL certification
				Establish flexible contracts that anticipate
				problems
Contract Defaults by	 Suppliers may not be able to meet 	Implementation	Probability	Proper contracts, and careful review of actual
Suppliers	supply requirements	1	M	abilities vs. stated abilities prior to engaging
	 Supplier may not be capable of 	Financial		suppliers
	meeting required timeframes		Impact	 Avoid sole supplier arrangements
	 The supplier goes bankrupt 	Operational	L	 Conduct vendor research
				 Supervise suppliers, enforce contract milestones
				Perform credit assessment and ensure financial
				viability of suppliers before contracting with them

Potential Risk / Barrier	Background	Type of Risk	Level of Risk	Mitigation Plan to Reduce Risk
Resource issues	 Collective bargaining agreements 	Implementation	Probability	 LDCs should create open dialogue with
 collective bargaining 	may preclude competitiveness and/or	_	M	bargaining units and respect agreements
agreements	contestability for LDC	Financial		 To the extent that respecting collective
insufficient	 LDC or service provider may not 		Impact	agreements including interim agreements results
installation resources	have adequate resources for	Operational	Н	in higher costs, these incremental costs would not
	implementation plan			be born by electricity consumers
	 CBA may prevent LDC from utilizing 			 Review and understand options/agreements
	external resources			regarding temporary and contract labour
	 Currently there are a number of 			 Ensure that implementation plan does not make
	strikes underway with contracting out			false assumptions about the availability of outside
	as prime issues			resources
	 LDCs may be required to use high 			 Ensuring use of existing staff for complex
	priced resources for low skill work			metering may mitigate concerns over loss of jobs
	 Lack of skilled labour from service 			 Train resources using available training programs
	providers			and facilities where appropriate
	 Training of available installers may 			 Hire resources from external service providers
	not be an issue for residential single			 Develop inter-utility resource sharing
	phase metering, but could be an issue			arrangements where possible
	if fast deployment of complex			 Allow for adequately staged implementation
	metering is expected			 Allow for recovery of increased costs if new staff
				hiring and training is required
				Work with collective bargaining units and their
				hiring halls to obtain resources if cost effective
Poor Product and	 Sudden increase in manufacturing of 	Financial	Probability	 Setup alternate suppliers to deal with quality
Installation Quality	product in tight timelines increases		L	issues
	the risk of reduced quality control	Operational	_	Setup sample test installations early and obtain
	Quality issues are often not apparent		Impact	upfront cost recovery from OEB
	until some time after meter		Н	Test all chosen technologies early in the process
	installation or warranty expiration			to identify any issues as early as possible
	New vendors may introduce products			Ensure accredited meter verifiers provide meter
	without securing necessary federal			sealing services
	approvals			Ensure proper training and skill levels of contract
	Vendors will not pay any post-			hires, and establish accountabilities for error and
	warranty costs associated with			dispute resolution Ensure contracting terms ensuity expectations of
	product recallsMost Meter Test Shops will not be			 Ensure contracting terms specify expectations of quality and push risk onto vendors through
	able to calibrate or service electronic			penalty clauses
	meters in-house			 Ensure meters have capability of remote software
	meters in-nouse			<u> </u>
				patches

Potential Risk / Barrier	Background	Type of Risk	Level of Risk	Mitigation Plan to Reduce Risk
LDC	 Distributors will have difficulty 	Implementation	Probability	 Ensure that LDC rate recovery is guaranteed
Non-performance	buying into the plans if it is seen that		M	 Establish OEB processes to ensure LDC
	ongoing future issues are not	Operational		compliance
	addressed.		Impact	 Clear code requirements re: LDC obligations
	 Distributors / shareholders may see 		Н	 Allow process driver the authority to assign a
	increase in meter reading costs as			third party to carry out distributor's obligations
	manual reads of water metering may			under the smart meter implementation plan if
	still be required.			compliance issues persist (e.g. assign another
	LDC's are not prepared to assume			distributor or a contractor) OFR must develop fair and defendable cost
	unnecessary financial risk with respect to cost recovery			 OEB must develop fair and defendable cost recovery processes
	 Intervenors and OEB may question 			Carefully plan implementation to reduce
	costs to be recovered			additional pressures in future years
	■ LDC's may be reluctant to move			additional prossures in ratare years
	away from existing demand reduction			
	or real time pricing initiatives			
	■ LDCs may have limited resources			
	that are working on other initiatives			
	such as EDR, RPP and RAR			
Public Pressure on	 Program will not be completed prior 	Financial	Probability	 Stay within the framework of the Minister's
Government to Change	to next Provincial election (2007)		M	directive on smart meter implementation and
Direction	 Public pressure on government to 	Implementation		work within present government's policy
	reverse decisions		Impact	 Well defined implementation plan
	 Multiple initiatives underway that 		Н	 Track achieved benefits and communicate early
	may impact on customers at the same			successes
	time			Develop a government communication plan
				aimed at all stakeholders
				Develop strong policy case for initiative that
				outlines benefits to customers

Potential Risk / Barrier	Background	Type of Risk	Level of Risk	Mitigation Plan to Reduce Risk
Negative Customer Reaction	 Customers may be unaware of smart meter initiative Customers may be concerned about privacy of data Customer may refuse to participate out of principle to show disagreement with initiative May be customer backlash if expected benefits don't materialize Customers may not be satisfied with implementation rate of program Customers may see this as a way to justify increase in bills Customers don't understand rate structure Other DSM or DR initiatives may result in multiple visits to homes increasing disruption to customers Large (non RPP) customers will want to be priority for smart meter installations as they remain exposed to spot market pricing (may be frustrated with LDC responsiveness Timing of RPP in relation to smart meter installations may make customers think that a smart meter installation will increase their bills Customers in different LDCs pay 	Implementation Operational	Probability H Impact H	 Careful and properly orchestrated communication and education plans from the Provincial level that are consistent with messages from local levels Adequate government penalties to ensure LDCs have authority to deliver implementation plan Demonstrate to the customer real methods for savings Develop close ties between Smart Meter initiative and DSM and DR initiatives Coordinate required visits to homes from different initiatives to minimize disruption to customers and better utilize LDC resources Set clear guidelines for LDC obligations with respect to customers who self-select for upgrade to smart meter Time RPP in relation to the smart meter installation so that customers view the smart meter as a way of being about to manage electricity costs Well thought out installation process clearly communicated to customer
Insufficient LDC cashflow to finance program	 different rates for smart meters Many LDC's are still in the process of recovering costs from market opening and may struggle with cashflow Smart meter initiative will require funding for equipment purchases, installation programs, CIS and meter data management system changes, etc. 	Financial Implementation	Probability L Impact H	 Upfront cost recovery processes should take LDC cashflow situations under consideration Analyze financing options provided by vendors Utilities may apply to the Minister for rate review by OEB if lacking funds

Potential Risk / Barrier		Background	Type of Risk	Level of Risk	Mitigation Plan to Reduce Risk
EBT Hub Non-	•	EBT Hubs will need to have their	Implementation	Probability	 The process driver should fully test hub readiness
performance		systems ready to be able handle the		L	early on in the process to ensure that they will be
		additional data that will be passed	Operational		ready
		through their systems from LDCs to		Impact	
		Retailers		Н	
	•	Along with the additional volumes of			
		data, new data for a customer will be			
		received by the Retailer every day			
		instead of on a weekly basis (current			
		state)			