

GE Energy

Smart Metering Presentation to the OEB



Jean-Pierre Leduc September 17 2004







Strong Utility Supplier

General Electric

112 Years tradition in electricity

2003 Revenues: 134.2 B\$, Earnings 15.6 B\$

Widely diversified: 11 industry sectors

GE Energy

38,772 employees Worldwide
Over 150 manufacturing locations
Over 540 offices worldwide

GE Canada

112 Year tradition in electricity 10,000 employee

GE Meters

Canada Mexico Phillipines USA Several affiliates



GE's Smart Metering Approach

Our business is Metering

- Have been in meters since 1898
- Committed to metering
- Continuously investing in new products development & acquisition

Our AMR strategy

- AMR technology neutral greatest flexibility
- Partnering with best AMR & Systems vendors for complete solution
- Have integrated all significant AMR technologies (PLC, RF, TEL)
- Have worked with all major AMR vendors: DCSI, Hunt, ITRON, Motorola, Nertec, Silver Spring Network, Tantalus
- Looking to continue on and expand with same strategy

GE's Smart metering experience is very diversified



GE Canada Large AMR/Smart Metering Projects

Residential (1ph)

Meter used: GE I70 Mechanical meter

Communication devices (AMR) supplied by 3rd party

Location	Customer	Nbr of meters	Technology	Technology Supplier
Alberta	Atco	100,000	AMR : PLC	DCSI
Quebec	Hydro Québec	100,000	AMR: RF 450 MHz	AMRT (Schlumberger-Motorola)
Quebec	Hydro Québec	50,000	AMR :Telephone	Nertec
Ontario	Multiple	5,000	AMR :Telephone	Nertec
Canada	Multiple	15,000	AMR :RF 1 Way	ITRON (ERT 40 and ERT41)
Quebec	Hydro Québec	40,000	Energy management Multi Rate	GE and others (Rate activation) (Temperature based rate)
Pensylvani a	PPL	100,000	AMR: PLC	DCSI
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GE Canada Large AMR/Smart Metering Projects

Commercial (1ph and 3ph)

Meter used: GE KV Electronic Multifunction meter internal Telephone modem supplied by GE

Location	Customer	Nbr of meters	Technology	Technology Supplier
Quebec	Hydro Québec	18 000	Telephone 2 way Interval Data (Time base) Reactive measurement	GE

GE Smart Metering: Residential

	Today	
	I70 Mechanical	l210 Electronic
PLC	2 Way	
RF	1 Way 2 Way	1 Way
Telephone	1 Way	

2005			
	I 70	l 210	
	Mechanical	Electronic	
PLC	2 Way	2 Way	
RF	1 Way	1 Way	
	2 Way	2 Way	
Telephone	1 Way	1 Way	

GE Smart Metering: Commercial

Today			
	KV, KV2	Kv2c KV2c+	
	Electronic	Electronic	
PLC	2 Way	2 Way	
RF	Mobitex	1 Way	
	GSM	GSM	
	1Xrtt	1Xrtt	
Telephone	1 Way	1 Way	
reicpriorie	2 Way	2 Way	

2005		
	KV, KV2	Kv2c KV2c+
	Electronic	Electronic
PLC	2 Way	2 Way
RF	Mobitex	Mobitex
	GSM	GSM
	1Xrtt	1Xrtt
		2 Way 900mhz
		1 Way 900mhz
Telephone	1 Way	1 Way
	2 Way	2 Way

GE Electronic 1ph Smart Meter for 2005: I210



Simple

Cost effective

Measures Energy & Instantaneous power

Adaptable to any communication (AMR)

Available now

GE Electronic 3ph Smart Meter for 2005: KV2c



Powerful

Scalable for any application

IMO main meter to Basic kwh meter

Reliable

Cost effective

Supported by various communication (AMR)

Available now

GE Meter Solutions

Long history in metering

Strong Utility Background

Committed to provide best meters

Partner with best AMR suppliers

Committed to Quality

Provide Flexibility and Value to its customer

