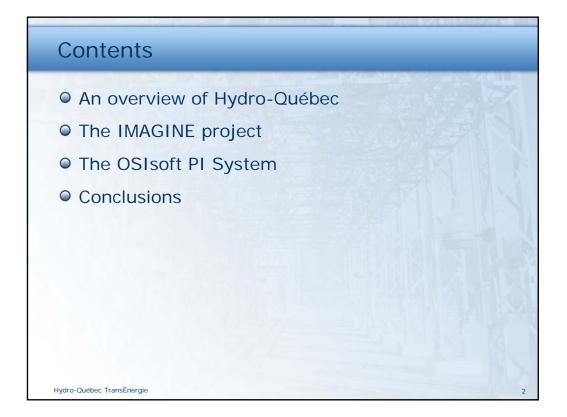
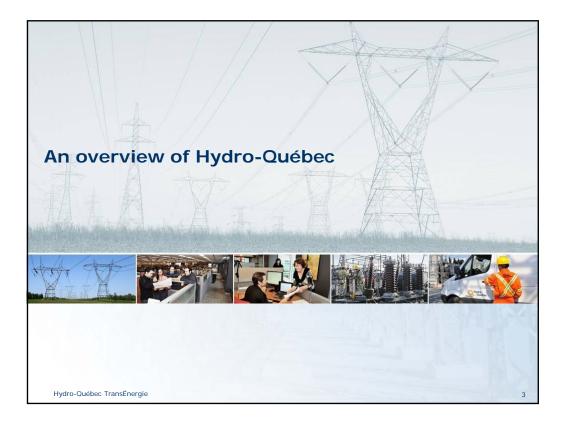


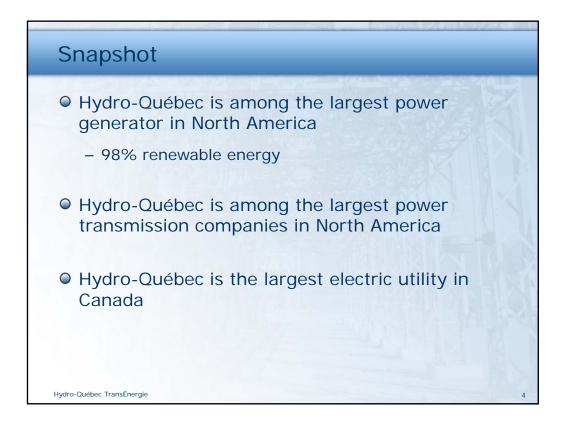
Hydro Québec TransÉnergie

Nicolas Di Gaetano Engineer – Reliability

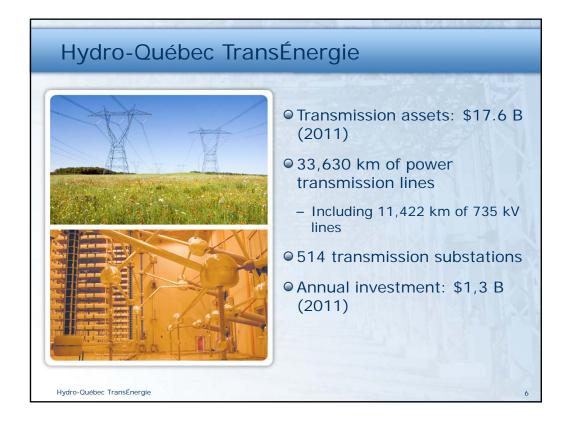
October 24, 2012

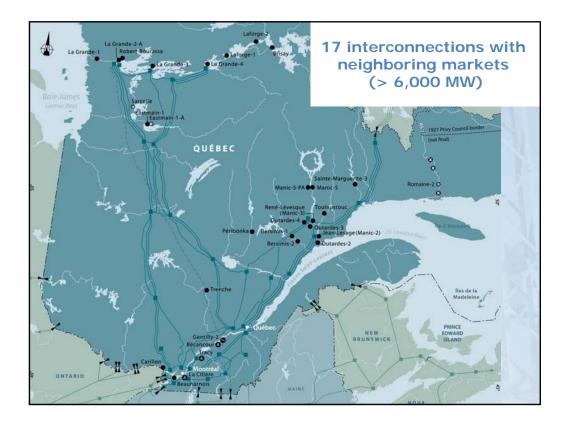




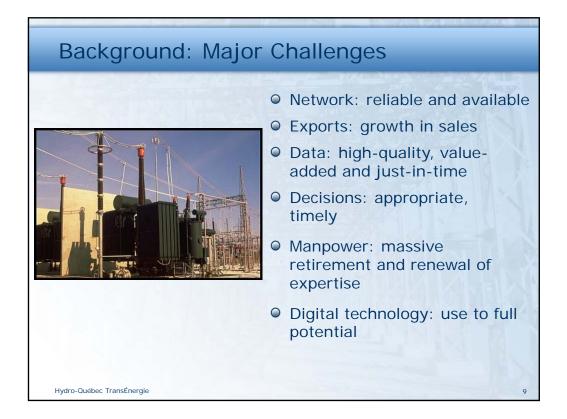


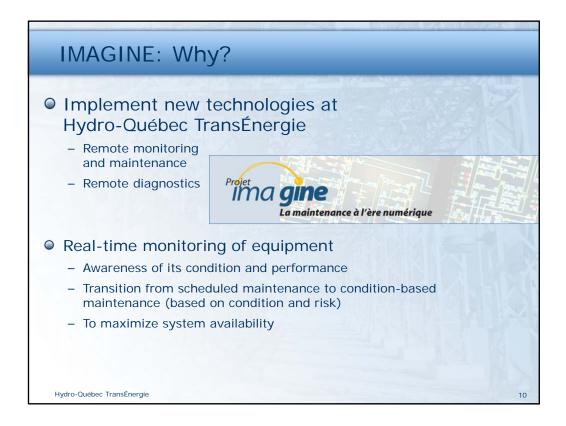


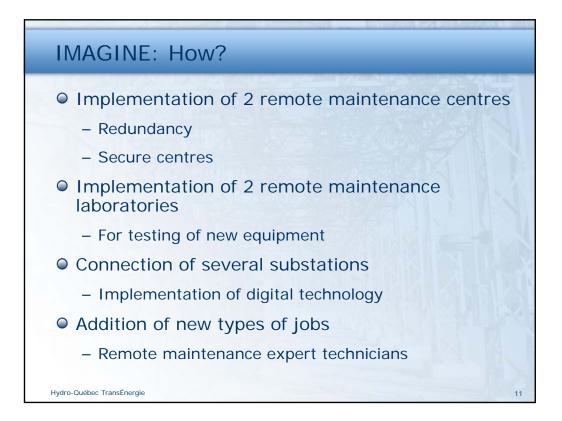


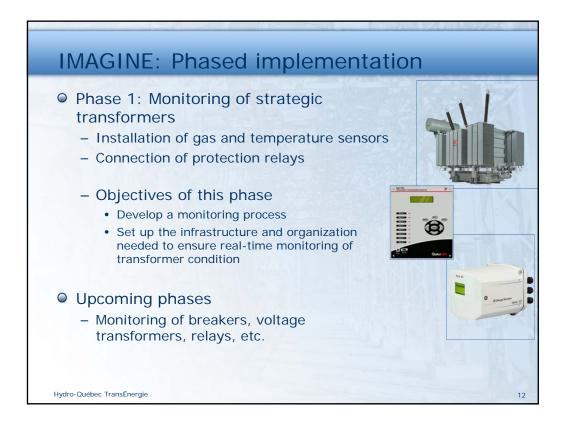


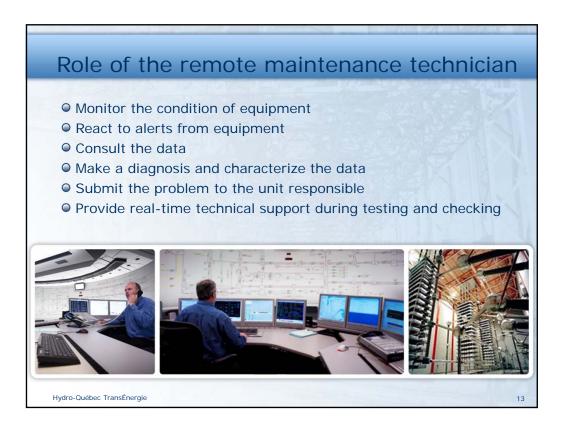


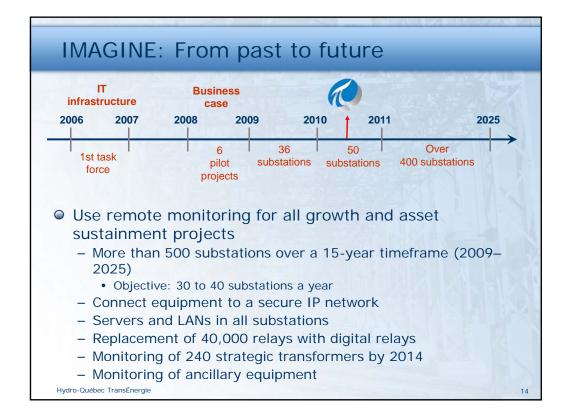


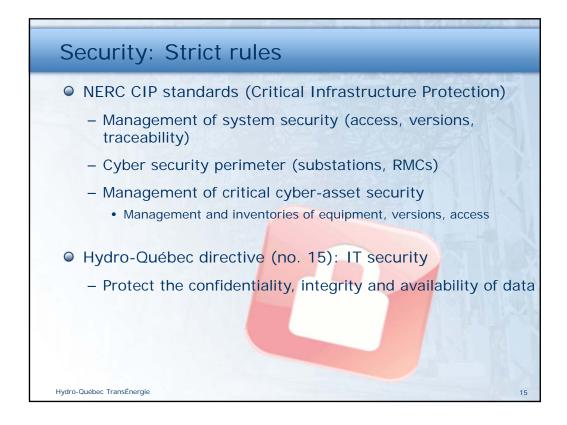






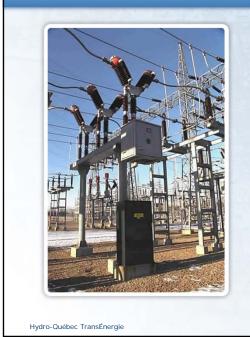








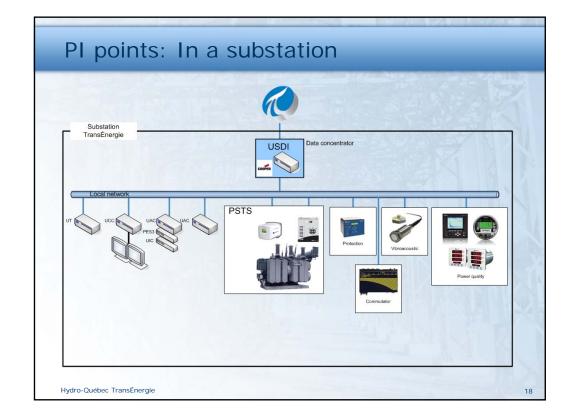
## Hydro-Québec TransÉnergie is...

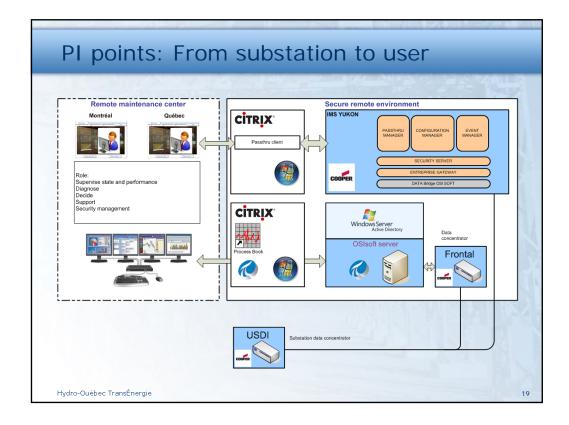


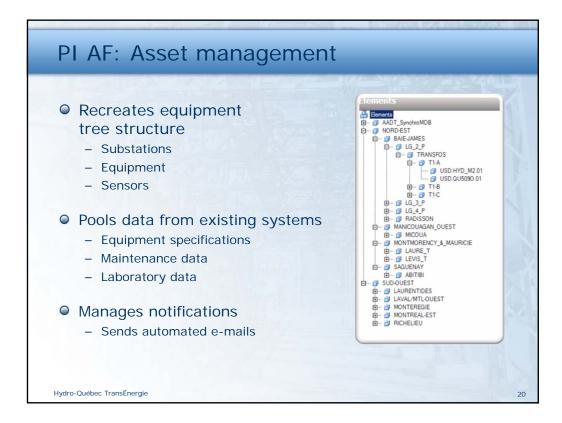
- 514 substations
- 2,200 power transformers
- More than 40,000 control and protection relays
- On average
  - ~100 sensors per substation
  - ~2,000 PI points per substation

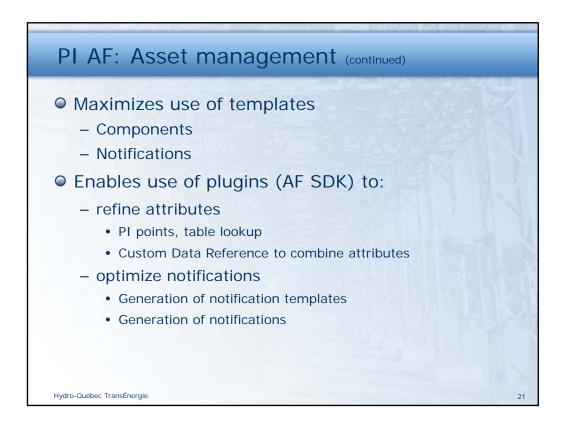
17

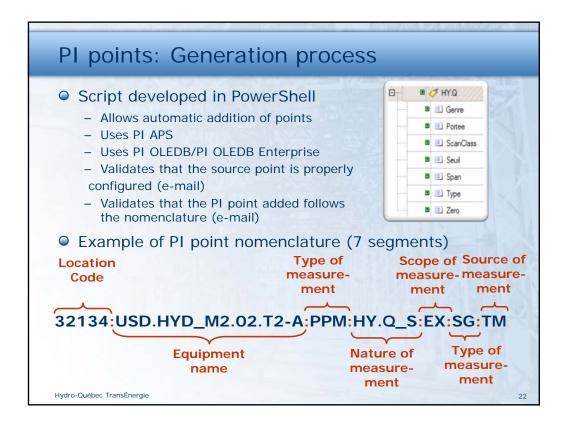
Potentially more than one million PI points

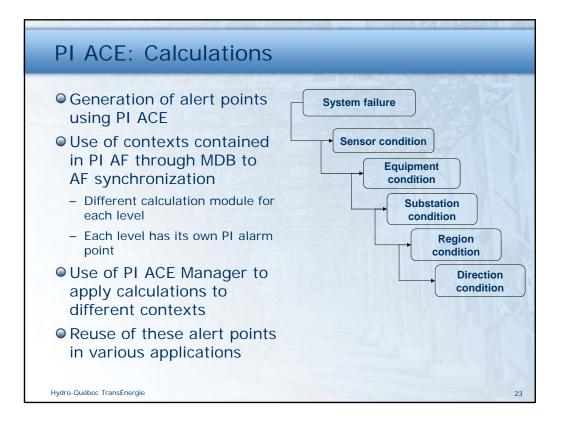


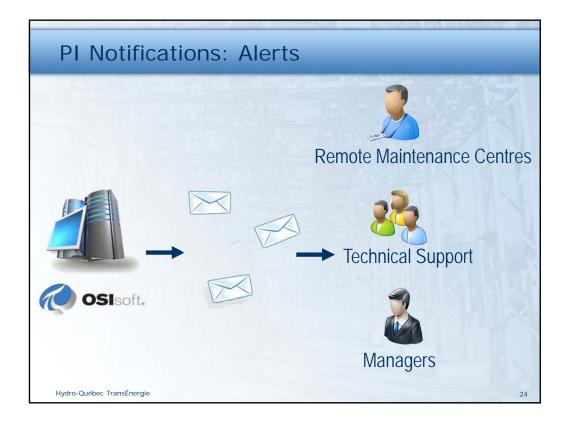




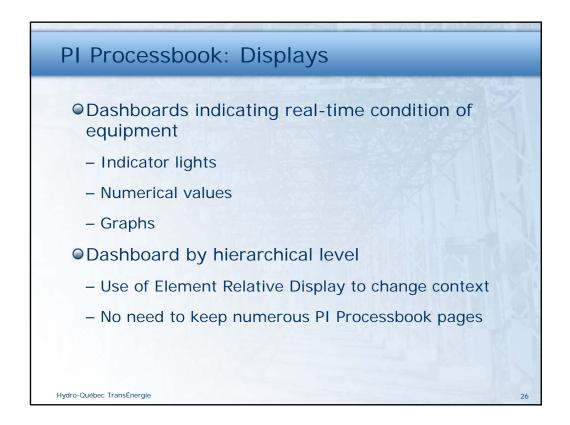


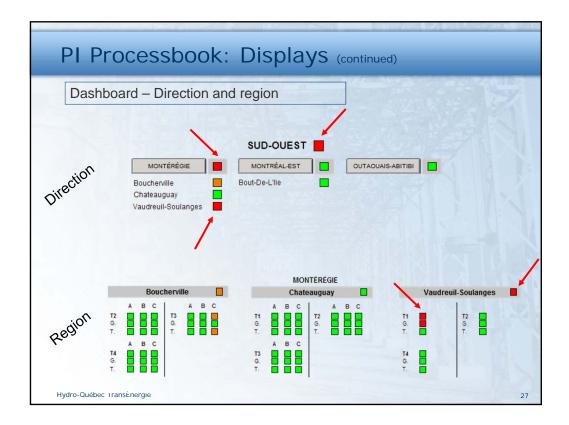






PI Notification	s: Alerts (continued)				
Sample e-mail	À : Di Gaetano, Nicolas Cc : Objet : LG_4_P:T2-B seuil de gaz dépassé et/ou tendance gaz dissous dépassée.				
Equipment j identification	POSTE LG_4_P EQUIPEMENT T2-B				
Measurements at the time the thresholds were exceeded	DATE 8/8/2012 9:17:00 AM Eastern Daylight Time (GMT-04:00:00) MESURES ACTUELLES • Mesure de gaz actuelle: 10 ppm • Tendance de gaz horaire: 2 ppm hr • Tendance de gaz journaliere: 1 ppm jour • Tendance de gaz hebdomadaire: 0 ppm semaine • Tendance de gaz mensuelle: 2 ppm mois				
Thresholds	SEUTLS • Les seuils de tendances sont applicables lorsque la mesure de gaz est d'au moins 10 ppm • Seuil de gaz horaire: 1 ppm hr • Seuil de gaz journalier: 2 ppm jr • Seuil de gaz hebdomadaire: 3 ppm isem				
Hydro-Québec TransÉnergie	Seul de gaz medodinadale. 3 ppin sem Seul de gaz mensuel: 4 ppin inois 25				





Dashboard - Transf	ormer				
Search Search	Direction: SUD-OUEST Région: VAU_SOU Poste: VAU_SOU Type: Poste(s) satellite(s) Équipement: 1UX0020			Âge: 3 Âge apparent: 4.3 Cote: 3 Probabilité: 1 Ans avant probabilité 9: 63.	66
Group by: Template	No expl.: Responsable:	T1 10162ELE		Âge apparent potentiel: 2.3 Probabilité potentielle: 1	35
Name	LISTE INDICATEURS			INFORMATIONS SUR L'ÉQUIPEMENT	
	Indicateurs	Cote	Pondération	Fabricant	MEGATRAN ELECTR
	Antécédents Far	miliaux 0	5	Date fabrication	01/01/2007
B BOU_VIL	Papier	0	5	Date Mise en Service	01/04/2009
🕀 🎯 CHATE	Gaz Dissous	0	5	Année Remise à Neuf	No Data
🖻 🗇 VAU_SOU	CPC	0	3		2428-1462-15-15-
D TRANSFOS	Traversées	1	3	Tension Primaire (kV)	120.00
⊕ [] T1	Eau	0	5	Tension Secondaire (kV)	26.40
	Huile	0	4	Puissance 1 (MVA)	28.00
⊞ 🗊 T2	Accessoires	0	3	Puissance 2 (MVA)	37.00
	Fuites Huile	0	3	Puissance 3 (MVA)	47.00
				CPC Fabricant	ABB
	ÉTAT DU TRANSFORMATEUR			CPC Modèle	UZERN
	État			LÉGENDE	BOUTONS DE NAVIGATION
	<b>1</b>	2-211		Communication normale	P
	Etat du transformateur			Avertissement en vigueur	SONDE GAZ
	2	Norma	al l	Avenuesement en vigueur	SONDE TEMPÉRATURE

