



**OPTIONS FOR NANTICOKE GENERATING STATION**

	SHUT DOWN	CONVERT TO GAS	REPLACE WITH NUCLEAR	INSTALL EMISSIONS CONTROLS
TECHNICAL FEASIBILITY	Will create grid transmission problems	Very inefficient way to burn nat gas - Will require major infrastructure expansion for natural gas	Major technical challenges	- Simple "off the shelf" proven technology - Already in use at NGS and LGS
TIME TO IMPLEMENT	Not before 2014	3 to 5 years	10+ years	3 years
COST OF ELECTRICITY	Replacement is 2 to 3 times that of coal - Low cost coal sets electricity price 50% + of the time	2 to 3 times the cost of coal - Low cost coal sets electricity price more than 50% of the time - Gas will set the market price	Double the price of coal - Gas would be the price setter	Least cost - Project pay back in 3 years - Retains coal as price setter
IMPACT ON GRID	Will create grid transmission problems - Insufficient intermediate resources	Gas best suited for peak load	No load following capability Used for Base load	Excellent load following. Used fo Base, intermediate and peak loading
IMPACT ON COMMUNITY	Significant loss to tax base and jobs	Minor disruption	Significant disruption	Minor disruption
IMPACT ON ONTARIO	- Higher electricity and natural gas prices. - Business closures - Premature disposal of public asset	- Higher electricity and natural gas prices. - Business closures	- Higher electricity prices, but less than cost from natural gas - No impact of price of natural gas	Maintains affordable power - No impact of price of natural gas
AIR QUALITY	- Will see little change Major source of pollution is cross border and transportation	- Will see little change Major source of pollution is cross border and transportation	- Minimal emissons to atmosphere	Significantly reduces emissions to levels comparable with natural gas
OTHER ENV. CONCERNS	Requires replacement with natural gas - Little benefit	- CO2 Lifecycle emissions comparable with coal	Disposal of nuclear waste No GHG emissions	Up to 30% reduction in CO2 possible
FEEDSTOCK SUPPLY	Insecure - Natural gas supply will become dependant on on off-shore sources	Approx 10 years proven reserves - Natural gas supply will become dependant on on off-shore sources  - Ammount of gas required is equal to that of all Ontario residential users	World wide demand for Uranium increasing	300+ years of supply in N. America
IMPACT OF ACCIDENT/TERROR ATTACK		Moderate	Significant to catastrophic	Extremely low