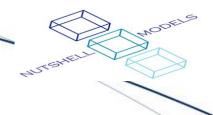
### THE URGENCY for a NEW ENERGY PARADIGM for ONTARIO

Jan Jekielek

SIPwK Toronto JANUARY 19, 2012

PREPARED IN CASE FIRST PRESENTER DOESN'T SHOW UP

HE DID NOT



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- Coach (CSCF), Instructor (CSIA, CASI)

## Ontario's biggest taboo... is ENERGY

...no politician will talk about it...

...too dangerous subject 'cause...

....complicity of all three fairies: Orange, Blue and Red (soc's, con's and lib's)

# When you talk taboos it is one on one, off the record, you lower your voice

So where to get all those secrets...

Apply an old saying that the darkest place is usually just under the light!

## IESO: Independent Electrical System Operator 2011 data:

**Gas**: 9,549 MW or **28%** 

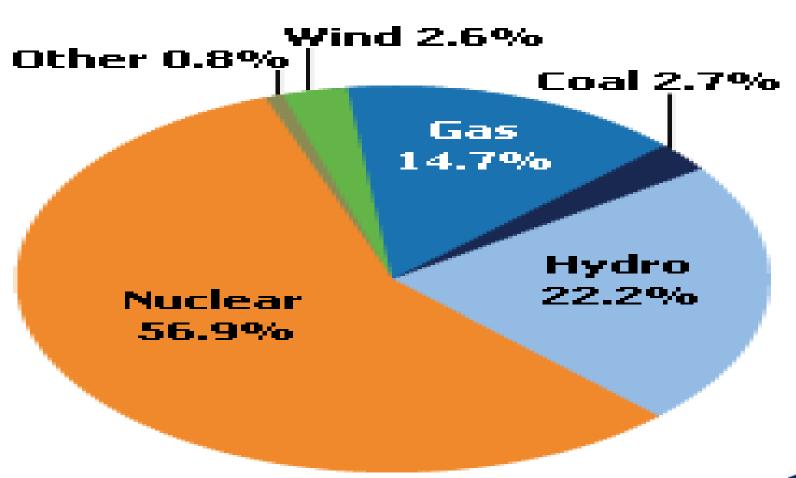
**Coal**: 3,504 MW or **10%** 

Hydro: 7,947 MW or
23 %

Other (waste, biogas, etc) 122 MW 0.3%

#### From IESO





#### Ooops...

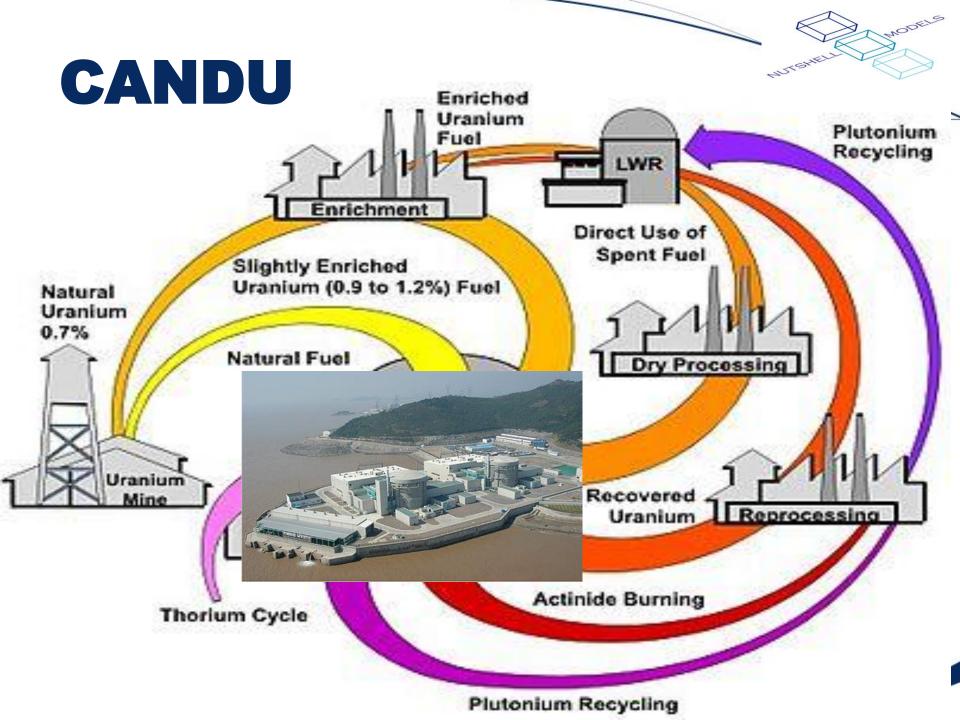


We go green, building \$7bln more, just a moment, who brought that dirty gas?

### Fukushima derailed greenest energy available...

Satellite image on 16 March 2011 of the damaged reactor buildings





## Nukes got fukushimad woldwide...

First Japanese capitulated...
Then Germans chickened out...
And why they always go over budget, over schedule?

Try project management...
try something closer to the best oil/gas practices?

#### Project Management

Used to be...

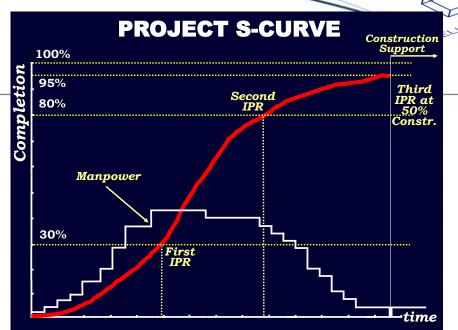
#### pragmatic

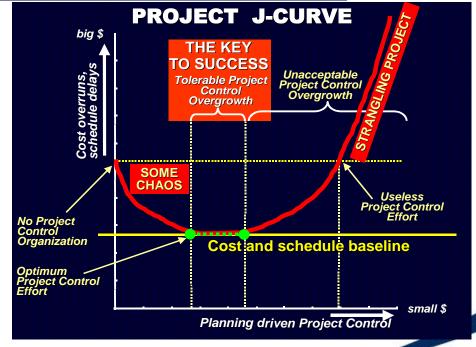
...survives on small projects

/s... 'catalogue'

..see also doctors, lawyers, engineers...

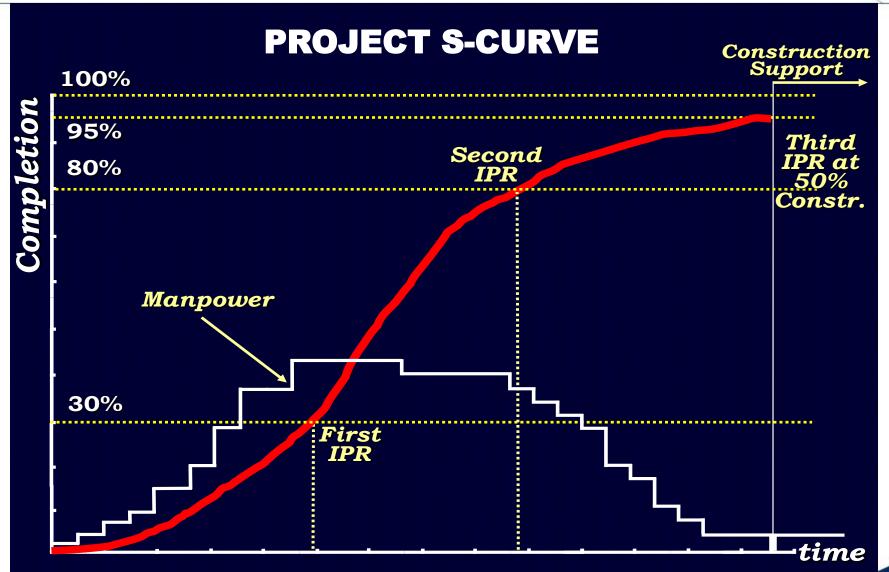
Will be... **'E-word'?**(E=effortless)





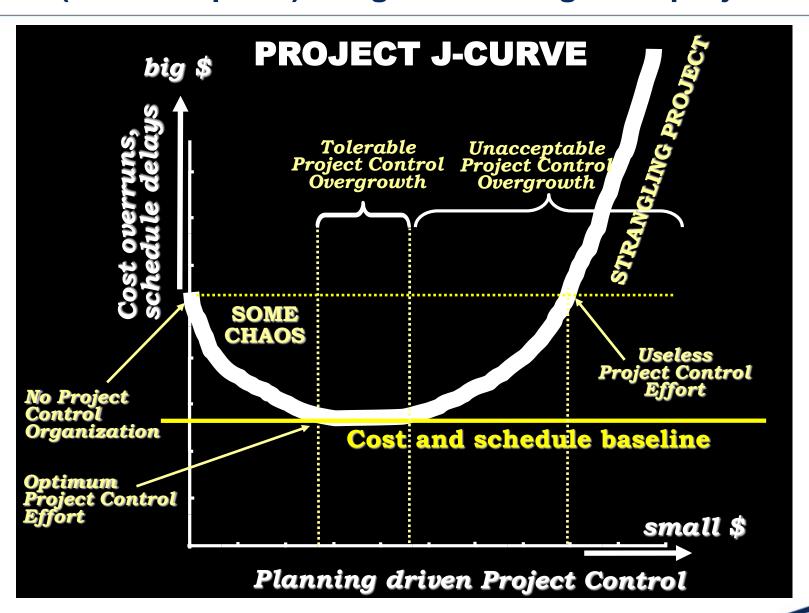
#### 'S curve' of a project

Life before computers was simply...pragmatic



#### 'J curve' of the larger project

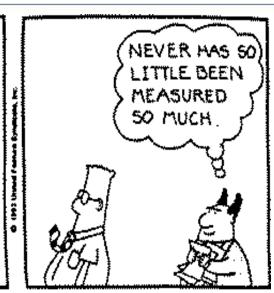
Little (man-computer) things can strangle the project



### My life long hobby: resisting make-work complexity e.g.



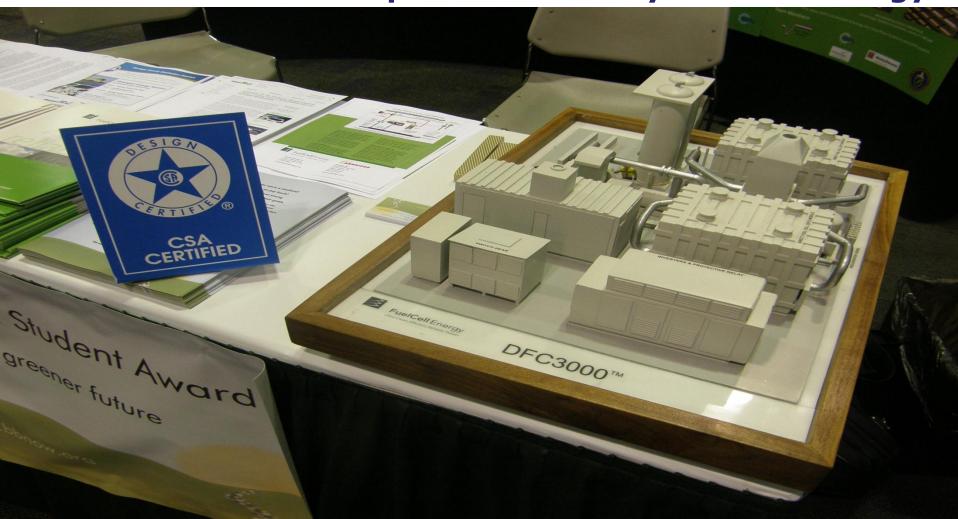


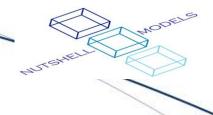


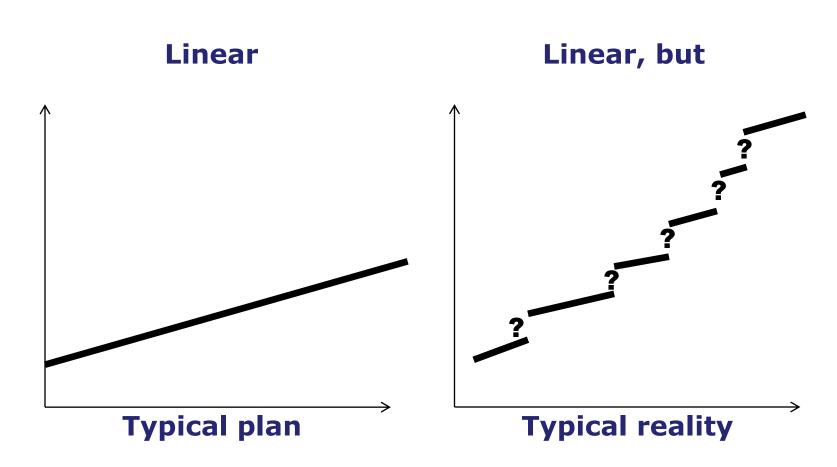
over-planning
over-estimating
over-scheduling
OVER-CONTROL

### Power stations will go like computers...from central 'mainframes' to distributed...

FUTURE TODAY: 3 MW power station by FuelCell Energy

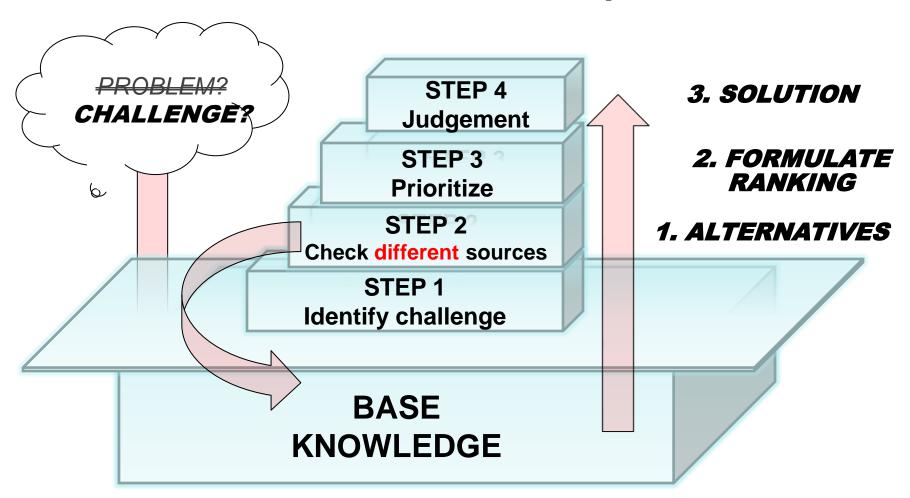


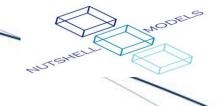




Planning future of Hi-tech always linear but...

## TRY TO USE CRITICAL THINKING STEPS TO BETTER THINKING (IT DOESN'T HURT)





## Tackle ENERGY challenges head on...

# DON'T BE AFRAID!